

Stål

Metaller

Aluminium

Rustfritt

FB-tjenester

**Produkt-
katalog**

2016

Olje & Gass



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Havbruk



Bygg & Anlegg



Mekanisk industri



Stål og metaller

I tillegg til vårt brede lagerprogram, kan vi gjennom vårt internasjonale kontaktnett av leverandører, tilby alle typer stål- og metallprodukter, både fra verk og kontinentale lagerholdere.

Forbehandling

Vil tilbyr pakkeløsninger av alle typer forbehandlings-tjenester innen:

- Slyngrensing og priming
- Kantsliping
- Kapping
- Figurskjæring (plasma og vannjet)
- Hulltagning
- Knekking
- Bøying/valsing
- Klipping
- Sveiste profiler
- Runde rør med 3D-brenning

Lokasjoner



Innholdsfortegnelse

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Din lokale prosjektpartner

**Vi kan levere pakkeløsninger
til alle typer prosjekter**

*Ta kontakt med din lokale selger
i Norsk Stål eller gå inn på våre nettsider*



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1 Plater, varmvalset

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1 Plater, varmvalset

Stålplater Grad A (NVA/VLA)/S235JR



Stålplater i kvalitet NVA/S235JR ihht DNVGL regler og EN10025-2.

Tykkelsestoleranser iflg. EN 10029 klasse B.

Øvrige toleranser iflg. DNVGL-regler.

Kontrollsertifikat iflg. EN 10204-3.2 - DNVGL

for NVA. Kontrollsertifikat iflg. EN 10204-3.1

- CE merket for S235JR

* MERKING: Chargenr. skal være innslått i materialet. Hvit ring rundt chargenr. Gult hjørne

Varegruppe: 5153

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|---------------------|--------|-------------------|
| 312091 | 4 x 2500 x 5000 mm | 400 | 32 |
| 312097 | 5 x 2500 x 6000 mm | 600 | 40 |
| 312098 | 5 x 2500 x 8000 mm | 800 | 40 |
| 312102 | 6 x 2000 x 6000 mm | 576 | 48 |
| 312104 | 6 x 2500 x 6000 mm | 720 | 48 |
| 312105 | 6 x 2500 x 8000 mm | 960 | 48 |
| 312106 | 7 x 2000 x 6000 mm | 672 | 56 |
| 312107 | 7 x 2500 x 6000 mm | 840 | 56 |
| 312108 | 7 x 2500 x 8000 mm | 1120 | 56 |
| 312112 | 8 x 2500 x 6000 mm | 960 | 64 |
| 312113 | 8 x 2500 x 8000 mm | 1280 | 64 |
| 312117 | 9 x 2500 x 8000 mm | 1440 | 72 |
| 312119 | 10 x 2000 x 6000 mm | 960 | 80 |
| 312121 | 10 x 2500 x 6000 mm | 1200 | 80 |
| 312122 | 10 x 2500 x 8000 mm | 1600 | 80 |
| 312126 | 11 x 2500 x 8000 mm | 1760 | 88 |
| 312128 | 12 x 2000 x 6000 mm | 1152 | 88 |
| 312129 | 12 x 2000 x 8000 mm | 1536 | 96 |
| 312130 | 12 x 2500 x 6000 mm | 1440 | 96 |
| 312131 | 12 x 2500 x 8000 mm | 1920 | 96 |
| 312135 | 13 x 2500 x 8000 mm | 2080 | 104 |
| 312139 | 14 x 2500 x 8000 mm | 2240 | 112 |
| 312141 | 15 x 2000 x 6000 mm | 1440 | 120 |
| 312143 | 15 x 2500 x 8000 mm | 2400 | 120 |
| 312145 | 16 x 2000 x 6000 mm | 1536 | 128 |
| 312146 | 16 x 2500 x 8000 mm | 2560 | 128 |
| 312149 | 20 x 1000 x 2000 mm | 320 | 160 |
| 312153 | 20 x 2000 x 6000 mm | 1920 | 160 |
| 312155 | 20 x 2500 x 8000 mm | 3200 | 160 |
| 312160 | 25 x 2000 x 6000 mm | 2400 | 200 |
| 312161 | 25 x 2000 x 8000 mm | 3200 | 200 |
| 312162 | 25 x 2500 x 8000 mm | 4000 | 200 |
| 312166 | 30 x 2000 x 6000 mm | 2880 | 240 |

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|---------------------|--------|-------------------|
| 312167 | 30 x 2500 x 8000 mm | 4800 | 240 |
| 312168 | 35 x 2000 x 6000 mm | 3360 | 280 |
| 312169 | 35 x 2500 x 8000 mm | 5600 | 280 |
| 312172 | 40 x 2000 x 6000 mm | 3840 | 320 |
| 312173 | 40 x 2500 x 8000 mm | 6400 | 320 |
| 312177 | 50 x 2000 x 6000 mm | 4800 | 400 |
| 312178 | 50 x 2500 x 8000 mm | 8000 | 400 |
| 312179 | 60 x 2000 x 6000 mm | 5760 | 480 |
| 312181 | 80 x 1500 x 3000 mm | 2880 | 640 |

Stålplater S355J2+N



Kvalitet S355J2+N iflg. EN 10025-2 og

Norsok M-120 MDS Y05

Tykkelser/formater merket ** garanteres

ikke ihht MDS Y05, sertifikat må

godkjennes. For tykkelser t.o.m. 50 mm

C max. 0,16% og CEQ max. 0,43%.

Skårslagsprøve ved minus 20 grader C min.

40J. Toleranser og planhet iflg. EN 10029

klasse A. Kontrollsertifikat iflg. EN 10204

- 3.1. CE merket

* MERKING: Chargenr. skal være innslått i materialet

Hvit ring rundt om chargenr.

Aluminium hjørne

Varegruppe: 5132

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|-----------------------|--------|-------------------|
| 312276 | 3 x 1250 x 2500 mm** | 75 | 24 |
| 312277 | 4 x 1250 x 2500 mm** | 100 | 32 |
| 312278 | 5 x 1250 x 2500 mm** | 125 | 40 |
| 322303 | 5 x 1500 x 6000 mm | 3600 | 40 |
| 312279 | 5 x 2000 x 6000 mm | 480 | 40 |
| 312280 | 6 x 1000 x 2000 mm** | 96 | 48 |
| 312281 | 6 x 1250 x 2500 mm** | 150 | 48 |
| 315550 | 6 x 1500 x 3000 mm** | 216 | 48 |
| 312282 | 6 x 2000 x 6000 mm | 576 | 48 |
| 318229 | 6 x 2500 x 6000 mm | 7200 | 48 |
| 312284 | 8 x 1250 x 2500 mm** | 200 | 64 |
| 312285 | 8 x 1500 x 3000 mm** | 288 | 64 |
| 312286 | 8 x 2000 x 6000 mm | 768 | 64 |
| 312287 | 8 x 2500 x 6000 mm | 960 | 64 |
| 312288 | 8 x 2500 x 8000 mm | 1280 | 64 |
| 312289 | 10 x 1000 x 2000 mm** | 160 | 80 |
| 312290 | 10 x 1250 x 2500 mm** | 250 | 80 |
| 312291 | 10 x 1500 x 3000 mm** | 360 | 80 |
| 312292 | 10 x 2000 x 6000 mm | 960 | 80 |
| 312293 | 10 x 2500 x 6000 mm | 1200 | 80 |
| 312294 | 10 x 2500 x 8000 mm | 1600 | 80 |
| 312295 | 12 x 1000 x 2000 mm** | 192 | 96 |
| 312296 | 12 x 1250 x 2500 mm | 300 | 96 |

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|-----------------------|--------|-------------------|
| 315551 | 12 x 1500 x 3000 mm** | 432 | 96 |
| 312297 | 12 x 2000 x 6000 mm | 1152 | 96 |
| 312298 | 12 x 2500 x 6000 mm | 1440 | 96 |
| 312299 | 12 x 2500 x 8000 mm | 1920 | 96 |
| 14400 | 15 x 1500 x 3000 mm | 540 | 120 |
| 312300 | 15 x 1250 x 2500 mm | 375 | 120 |
| 312301 | 15 x 2000 x 6000 mm | 1440 | 120 |
| 312302 | 15 x 2500 x 6000 mm | 1800 | 120 |
| 312303 | 15 x 2500 x 8000 mm | 2400 | 120 |
| 312304 | 16 x 1250 x 2500 mm | 400 | 128 |
| 312305 | 16 x 1500 x 3000 mm | 576 | 128 |
| 312306 | 16 x 2000 x 6000 mm | 1536 | 128 |
| 312307 | 16 x 2500 x 8000 mm | 2560 | 128 |
| 10950 | 20 x 1000 x 2000 mm | 320 | 160 |
| 67589 | 20 x 1250 x 2500 mm | 500 | 160 |
| 17175 | 20 x 1500 x 3000 mm | 720 | 160 |
| 312308 | 20 x 2000 x 6000 mm | 1920 | 160 |
| 312309 | 20 x 2500 x 6000 mm | 2400 | 160 |
| 312310 | 20 x 2500 x 8000 mm | 3200 | 160 |
| 312311 | 25 x 1250 x 2500 mm | 625 | 200 |
| 25371 | 25 x 1500 x 3000 mm | 900 | 200 |
| 312312 | 25 x 2000 x 6000 mm | 2400 | 200 |
| 312313 | 25 x 2500 x 8000 mm | 4000 | 200 |
| 30057 | 30 x 1250 x 2500 mm | 750 | 240 |
| 52714 | 30 x 1500 x 3000 mm | 1080 | 240 |
| 312314 | 30 x 2000 x 6000 mm | 2880 | 240 |
| 312315 | 30 x 2500 x 8000 mm | 4800 | 240 |
| 75101 | 35 x 1500 x 3000 mm | 1260 | 280 |
| 317413 | 35 x 2500 x 8000 mm | 5600 | 280 |
| 312316 | 40 x 1250 x 2500 mm | 1000 | 320 |
| 26401 | 40 x 1500 x 3000 mm | 1440 | 320 |
| 312317 | 40 x 2000 x 6000 mm | 3840 | 320 |
| 312318 | 40 x 2500 x 8000 mm | 6400 | 320 |
| 312319 | 45 x 1500 x 3000 mm | 1620 | 360 |
| 62660 | 50 x 1500 x 3000 mm | 1800 | 400 |
| 312320 | 50 x 2000 x 6000 mm | 4800 | 400 |
| 312321 | 50 x 2500 x 5000 mm | 5000 | 400 |
| 312322 | 50 x 2500 x 8000 mm | 8000 | 400 |
| 24043 | 60 x 1500 x 3000 mm | 2160 | 480 |
| 312323 | 60 x 2000 x 6000 mm | 5760 | 480 |
| 312324 | 65 x 1500 x 3000 mm | 2340 | 520 |
| 18020 | 70 x 1500 x 3000 mm | 2520 | 560 |
| 312325 | 70 x 2000 x 6000 mm | 6720 | 560 |
| 70763 | 80 x 1500 x 3000 mm | 2880 | 640 |
| 131247 | 80 x 2000 x 6000 mm | 7680 | 640 |
| 131248 | 90 x 2000 x 6000 mm | 8640 | |
| 39627 | 100 x 1500 x 3000 mm | 3600 | 800 |
| 131250 | 100 x 2000 x 6000 mm | 9600 | 800 |
| 131251 | 110 x 2000 x 5000 mm | 8800 | 880 |
| 312326 | 115 x 2000 x 5000 mm | 9200 | 920 |

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|----------------------|--------|-------------------|
| 131253 | 120 x 2000 x 5000 mm | 9600 | 960 |
| 312327 | 125 x 2000 x 5000 mm | 10000 | 1000 |
| 312328 | 130 x 2000 x 4000 mm | 8320 | 1040 |
| 312329 | 140 x 2000 x 4000 mm | 8960 | 1120 |
| 312330 | 150 x 2000 x 4000 mm | 9600 | 1200 |
| 312331 | 170 x 2000 x 3000 mm | 8160 | 1360 |
| 312333 | 200 x 2000 x 3000 mm | 9600 | 1600 |

Stålplater Grad E36 (NVE36/VLE36)/ S355J2+N



Stålplater i kval. NVE 36/S355J2+N iflg. DNVGL/EN10025-2. Modifisert CEV 0,43 Cmax 0,16 snittverdi min 40J ved -40 grader

Tykkelser over 50 mm leveres ihht standard uten modifikasjoner. Tykkelsestol. Klasse B iflg EN 10029. Øvrige toleranser iflg. DNVGL-regler. Kontrollsertifikat iflg. EN 10204-3.2 - DNVGL for NVE36

Kontrollsertifikat iflg. EN 10204-3.1 CE merket- for S355J2+N

* MERKING: Chargenr. skal være innslått i materialet. Hvit ring rundt chargenr. Brunt hjørne.

Varegruppe: 5155

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|----------------------|--------|-------------------|
| 312218 | 6 x 2000 x 6000 mm | 576 | 48 |
| 312219 | 6 x 2500 x 8000 mm | 960 | 48 |
| 312220 | 7 x 2500 x 8000 mm | 1120 | 56 |
| 312221 | 8 x 2000 x 6000 mm | 768 | 64 |
| 312222 | 8 x 2500 x 8000 mm | 1280 | 64 |
| 312226 | 9 x 2500 x 8000 mm | 1440 | 72 |
| 312223 | 10 x 2000 x 6000 mm | 960 | 80 |
| 312225 | 10 x 2500 x 8000 mm | 1600 | 80 |
| 312227 | 10 x 2500 x 12000 mm | 2400 | 80 |
| 312228 | 10 x 3000 x 12000 mm | 2880 | 80 |
| 312229 | 11 x 2500 x 8000 mm | 1760 | 88 |
| 312230 | 12 x 2000 x 6000 mm | 1152 | 96 |
| 312231 | 12 x 2500 x 8000 mm | 1920 | 96 |
| 312232 | 12 x 2500 x 12000 mm | 2880 | 96 |
| 312233 | 12 x 3000 x 12000 mm | 3456 | 96 |
| 312234 | 13 x 2500 x 8000 mm | 2080 | 104 |
| 312235 | 15 x 2500 x 12000 mm | 3600 | 120 |
| 312236 | 15 x 3000 x 12000 mm | 4320 | 120 |
| 312237 | 15 x 2000 x 6000 mm | 1440 | 120 |
| 312238 | 15 x 2500 x 8000 mm | 2400 | 120 |
| 312239 | 16 x 2000 x 6000 mm | 1536 | 128 |
| 312240 | 16 x 2500 x 8000 mm | 2560 | 128 |
| 312241 | 18 x 2500 x 8000 mm | 2880 | 144 |

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|----------------------|--------|-------------------|
| 312242 | 20 x 2000 x 6000 mm | 1920 | 160 |
| 312243 | 20 x 2500 x 8000 mm | 3200 | 160 |
| 312244 | 20 x 2500 x 12000 mm | 4800 | 160 |
| 312245 | 20 x 3000 x 12000 mm | 5760 | 160 |
| 312246 | 22 x 2500 x 8000 mm | 3520 | 176 |
| 312247 | 25 x 2000 x 6000 mm | 2400 | 200 |
| 312248 | 25 x 2500 x 8000 mm | 4000 | 200 |
| 312249 | 25 x 2500 x 12000 mm | 6000 | 200 |
| 312250 | 25 x 3000 x 12000 mm | 7200 | 200 |
| 312251 | 30 x 2000 x 6000 mm | 2880 | 240 |
| 312252 | 30 x 2500 x 8000 mm | 4800 | 240 |
| 312253 | 30 x 3000 x 12000 mm | 8640 | 240 |
| 312254 | 35 x 2000 x 6000 mm | 3360 | 280 |
| 312255 | 35 x 2500 x 8000 mm | 5600 | 280 |
| 312256 | 40 x 2000 x 6000 mm | 3840 | 280 |
| 312257 | 40 x 2500 x 8000 mm | 6400 | 320 |
| 312259 | 45 x 2000 x 6000 mm | 4320 | 360 |
| 312258 | 45 x 2500 x 8000 mm | 7200 | 360 |
| 312260 | 50 x 2000 x 6000 mm | 4800 | 400 |
| 312261 | 50 x 2500 x 8000 mm | 8000 | 400 |
| 312262 | 60 x 2000 x 6000 mm | 5760 | 480 |
| 312263 | 60 x 2500 x 8000 mm | 9600 | 480 |
| 312264 | 65 x 2000 x 6000 mm | 6240 | 520 |
| 312265 | 70 x 2000 x 6000 mm | 6720 | 560 |
| 312266 | 75 x 2000 x 6000 mm | 7200 | 600 |
| 312267 | 80 x 2000 x 6000 mm | 7680 | 640 |
| 312268 | 90 x 2000 x 6000 mm | 8640 | 720 |
| 312269 | 100 x 2000 x 6000 mm | 9600 | 800 |

Tåreplater Grad A (NVA/VLA)



Tåreplater NVA med standard tåremønster
Tykkelsestoleranser iflg. DNVGL-regler
Øvrige toleranser og planhet iflg. EN 10029
kl B
Kontrollsertifikat iflg. EN 10204-3.2 - DNVGL
* MERKING: Gult hjørne

Varegruppe: 5156

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|--------------------|---------|-------------------|
| 312336 | 5 x 1500 x 6000 mm | 382,50 | 42,50 |
| 312337 | 5 x 2000 x 6000 mm | 510,00 | 42,50 |
| 312338 | 5 x 2500 x 5000 mm | 531,25 | 42,50 |
| 312341 | 6 x 1500 x 6000 mm | 459,00 | 51,00 |
| 312342 | 6 x 2000 x 6000 mm | 612,00 | 51,00 |
| 312343 | 6 x 2500 x 5000 mm | 637,50 | 51,00 |
| 312344 | 8 x 1500 x 6000 mm | 603,36 | 67,04 |
| 312345 | 8 x 2000 x 6000 mm | 804,48 | 67,04 |
| 312346 | 8 x 2500 x 8000 mm | 1340,80 | 67,04 |

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|---------------------|---------|-------------------|
| 312347 | 10 x 1500 x 6000 mm | 747,00 | 83,00 |
| 312348 | 10 x 2000 x 6000 mm | 996,00 | 83,00 |
| 312349 | 10 x 2500 x 8000 mm | 1660,00 | 83,00 |
| 312350 | 12 x 2000 x 6000 mm | 1188,00 | 99,00 |

Tåreplater 235JR



Tåreplater i kvalitet S235JR iht. EN10025-2.
Toleranser iht. EN 10051
Kontrollsertifikat iflg. EN 10204-3.1 CE
merket

Varegruppe: 4882

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|--------------------|--------|-------------------|
| 145187 | 5 x 1000 x 2000 mm | 85 | 42,5 |
| 145188 | 5 x 1250 x 2500 mm | 131 | 42,5 |
| 145190 | 6 x 1000 x 2000 mm | 102 | 51 |
| 145191 | 6 x 1250 x 2500 mm | 159 | 51 |

Rifleplater S235JR

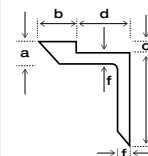


Standard rombemønster
Kvalitet iflg. EN 10025-2
Toleranser iflg. EN 10051
Prøverapport iflg. EN 10204 - 2.2

Varegruppe: 4881

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|--------------------|--------|-------------------|
| 145152 | 3 x 1000 x 2000 mm | 60 | 30 |
| 311424 | 3 x 1250 x 2500 mm | 94 | 30 |

Anleggsprofil for dørkeplater



Lengder a 6 m

Varegruppe: 5392

| Varenr. | Betegnelsen (mm) | Kg/m | Lengde (m) | a (mm) | b (mm) | c (mm) | d (mm) | e (mm) | f (mm) |
|---------|------------------|------|------------|--------|--------|--------|--------|--------|--------|
| 311887 | W 650060 | 3,26 | 6 | 10 | 16 | 5 | 24 | 40 | 5 |
| 311888 | W 650080 | 4,57 | 6 | 12 | 20 | 7 | 30 | 50 | 5 |

Varmvalsede stålplater egnet for laserskjæring S235JRC



Kvalitet S235JRC iflg EN 10025-2, alt.
dobbelisert som Laser 250C/Domex 240YP
Kontrollsertifikat iflg. EN 10204-3.1.
Øvrige toleranser iflg. EN 10051.
Leveres i bunter på ca. 2000 kg om ikke
annet er nevnt i dimensjon

Varegruppe: 4140

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|---------------------|--------|-------------------|
| 93861 | 3 x 1000 x 2000 mm | 48 | 24 |
| 66669 | 3 x 1250 x 2500 mm | 75 | 24 |
| 70962 | 3 x 1500 x 3000 mm | 108 | 24 |
| 75477 | 4 x 1000 x 2000 mm | 64 | 32 |
| 41054 | 4 x 1250 x 2500 mm | 100 | 32 |
| 43921 | 4 x 1500 x 3000 mm | 144 | 32 |
| 47076 | 5 x 1000 x 2000 mm | 80 | 40 |
| 54250 | 5 x 1250 x 2500 mm | 125 | 40 |
| 58269 | 5 x 1500 x 3000 mm | 180 | 40 |
| 62576 | 6 x 1000 x 2000 mm | 96 | 48 |
| 67171 | 6 x 1250 x 2500 mm | 150 | 48 |
| 77225 | 6 x 1500 x 3000 mm | 216 | 48 |
| 82684 | 8 x 1000 x 2000 mm | 128 | 64 |
| 88431 | 8 x 1250 x 2500 mm | 200 | 64 |
| 94466 | 8 x 1500 x 3000 mm | 288 | 64 |
| 10790 | 10 x 1000 x 2000 mm | 160 | 80 |
| 24300 | 10 x 1250 x 2500 mm | 250 | 80 |
| 46725 | 10 x 1500 x 3000 mm | 360 | 80 |
| 54776 | 12 x 1000 x 2000 mm | 192 | 96 |
| 63115 | 12 x 1250 x 2500 mm | 300 | 96 |
| 51004 | 15 x 1000 x 2000 mm | 240 | 120 |
| 311419 | 15 x 1250 x 2500 mm | 375 | 120 |
| 91057 | 15 x 1500 x 3000 mm | 540 | 120 |

Varmvalsede beisede/oljede stålplater egnet for laserskjæring S235JRC



Kvalitet S235JRC iflg. EN 10025-2, alt.
dobbelisert som 250C/Domex 240YP
Toleranser iflg. EN 10051
Pakker på ca. 2 tonn
Kontrollsertifikat iflg. EN 10204 - 3.1

Varegruppe: 4800

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|-----------------------|--------|-------------------|
| 81629 | 2 x 1000 x 2000 mm | 32 | 16 |
| 20889 | 2 x 1250 x 2500 mm | 50 | 16 |
| 54591 | 3 x 1000 x 2000 mm | 48 | 24 |
| 315128 | 3 x 1000 x 2000 mm UM | 48 | 24 |
| 321304 | 3 x 1250 x 2500 mm | 75 | 24 |
| 82439 | 3 x 1500 x 3000 mm | 108 | 24 |
| 96690 | 4 x 1000 x 2000 mm | 64 | 32 |
| 321305 | 4 x 1250 x 2500 mm | 100 | 32 |
| 50752 | 4 x 1500 x 3000 mm | 144 | 32 |
| 65875 | 5 x 1000 x 2000 mm | 80 | 40 |
| 321306 | 5 x 1250 x 2500 mm | 125 | 40 |
| 96775 | 5 x 1500 x 3000 mm | 180 | 40 |
| 22553 | 6 x 1000 x 2000 mm | 96 | 48 |
| 321307 | 6 x 1250 x 2500 mm | 150 | 48 |
| 71192 | 6 x 1500 x 3000 mm | 216 | 48 |
| 62623 | 8 x 1250 x 2500 mm | 200 | 64 |
| 42253 | 8 x 1500 x 3000 mm | 288 | 64 |
| 57243 | 10 x 1250 x 2500 mm | 250 | 80 |
| 16744 | 10 x 1500 x 3000 mm | 360 | 80 |
| 315182 | 12 x 1500 x 3000 mm | 432 | 80 |

 NORSK STÅL

Stål etter mål

Plasmaskjæring
Oksygenskjæring
Vannskjæring

www.norskstaal.no



Kaldformingsstål S355MC egnet for laserskjæring



S355MC iht. EN 10149-2, alt. også som Domex 355MCE/D, Laser 350
Re min. 355 N/mm². Rm 450-610 N/mm²
*6-10 mm: Slagseighetstestet ved -40 gr C med verdier over 40J
*12-25 mm: Slagseighetstestet -20 gr min 40J. Øvrige toleranser iflg. EN10051
Leveres i bunter på ca 2000 kg
Kontrollsertifikat iflg. EN 10204 - 3.1

Varegruppe: 4871

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|---------------------|--------|-------------------|
| 72438 | 3 x 1250 x 2500 mm | 75 | 24 |
| 29924 | 3 x 1500 x 3000 mm | 108 | 24 |
| 77052 | 4 x 1250 x 2500 mm | 100 | 32 |
| 34831 | 4 x 1500 x 3000 mm | 144 | 32 |
| 83259 | 5 x 1000 x 2000 mm | 80 | 40 |
| 42338 | 5 x 1250 x 2500 mm | 125 | 40 |
| 92066 | 5 x 1500 x 3000 mm | 180 | 40 |
| 52445 | 6 x 1000 x 2000 mm | 96 | 48 |
| 13474 | 6 x 1250 x 2500 mm | 150 | 48 |
| 65152 | 6 x 1500 x 3000 mm | 216 | 48 |
| 27481 | 8 x 1000 x 2000 mm | 128 | 64 |
| 80459 | 8 x 1250 x 2500 mm | 200 | 64 |
| 44088 | 8 x 1500 x 3000 mm | 288 | 64 |
| 98366 | 10 x 1000 x 2000 mm | 160 | 80 |
| 63295 | 10 x 1250 x 2500 mm | 250 | 80 |
| 28874 | 10 x 1500 x 3000 mm | 360 | 80 |
| 311420 | 12 x 1250 x 2500 mm | 300 | 96 |
| 85102 | 12 x 1000 x 2000 mm | 192 | 96 |
| 51981 | 12 x 1500 x 3000 mm | 432 | 96 |
| 311421 | 15 x 1500 x 3000 mm | 540 | 120 |
| 311422 | 20 x 1500 x 3000 mm | 720 | 160 |
| 311423 | 25 x 1500 x 3000 mm | 900 | 200 |

Kaldformingsstål S355MC beiset og egnet for laserskjæring



S355MC iht. EN 10149-2, alt. som Laser 250/Domex 355MCD
Beiset og lett oljet. Slagseighetstestet -20 gr min 40J (f.o.m 6 mm)
Toleranser iflg. EN 10051.
Pakker på ca. 2 tonn i vannfast papir eller plast
Kontrollsertifikat iflg. EN 10204 - 3.1

Varegruppe: 4801

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|-----------------------|--------|-------------------|
| 311412 | 2,0 x 1000 x 2000 mm | 32 | 16 |
| 311413 | 2,0 x 1250 x 2500 mm | 50 | 16 |
| 311414 | 2,5 x 1250 x 2500 mm | 62,5 | 20 |
| 14861 | 3,0 x 1500 x 3000 mm | 108 | 24 |
| 317869 | 3,0 x 1250 x 2500 mm | 75 | 24 |
| 51819 | 4,0 x 1000 x 2000 mm | 64 | 32 |
| 38010 | 4,0 x 1250 x 2500 mm | 100 | 32 |
| 27233 | 4,0 x 1500 x 3000 mm | 144 | 32 |
| 67981 | 5,0 x 1000 x 2000 mm | 80 | 40 |
| 19488 | 5,0 x 1250 x 2500 mm | 125 | 40 |
| 61752 | 5,0 x 1500 x 3000 mm | 180 | 40 |
| 14775 | 6,0 x 1000 x 2000 mm | 96 | 48 |
| 13094 | 6,0 x 1500 x 3000 mm | 216 | 48 |
| 311415 | 8,0 x 1000 x 2000 mm | 128 | 64 |
| 61257 | 8,0 x 1500 x 3000 mm | 288 | 64 |
| 76087 | 10,0 x 1500 x 3000 mm | 360 | 80 |
| 36690 | 12,0 x 1500 x 3000 mm | 432 | 96 |

 NORSK STÅL

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Oksygenskjæring
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www.norskstaal.no



Stålplater S500MC for kaldforming og laserskjæring



Kvalitet S500MC ihht EN 10149 og evt intern verksstandard (Domex 500 MCD).
Beiset og lett oljet. Skårslagstest -20 grader minimum 40J.
Kontrollsertifikat iflg. EN 10204-3.1.
Leveres i bunter på ca. 2000 kg

Varegruppe: 4170

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|---------------------|--------|-------------------|
| 311428 | 3 x 1250 x 2500 mm | 75 | 24 |
| 311429 | 4 x 1500 x 3000 mm | 144 | 32 |
| 311430 | 5 x 1500 x 3000 mm | 180 | 40 |
| 311431 | 6 x 1500 x 3000 mm | 216 | 48 |
| 311432 | 8 x 1500 x 3000 mm | 288 | 64 |
| 311433 | 10 x 1500 x 3000 mm | 360 | 80 |

Kaldformingsstål S700MC egnet for laserskjæring



Stålplater S700MC iflg. EN 10149-2 .
Min 700 MPa ield, slagseighetstestet ved -20 grader C > 40J
Toleranser iflg. EN 10051.
Dimensjoner som er beiset og oljet er merket med B/O
Leveres i bunter på ca. 2000 kg
Kontrollsertifikat iflg. EN 10204 - 3.1

Varegruppe: 4897

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|------------------------|--------|-------------------|
| 322366 | 2 x 1000 x 2000 mm | 32 | 16 |
| 311437 | B/O 4 x 1000 x 2000 mm | 64 | 32 |
| 311438 | B/O 6 x 1000 x 2000 mm | 96 | 48 |

Kaldformingsstål S650MC egnet for laserskjæring



Kvalitet S650MC ihht til EN 10149-2
Skårslagstestet ved -20 grader minimum 40J
Leveres i bunter på ca. 2000 kg
Kontrollsertifikat iflg. EN 10204 - 3.1

Varegruppe: 4874

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|--------------------|--------|-------------------|
| 21327 | 3 x 1250 x 2500 mm | 75 | 24 |
| 23107 | 4 x 1250 x 2500 mm | 100 | 32 |
| 311434 | 4 x 1500 x 5000 mm | 240 | 32 |
| 311435 | 5 x 1500 x 5000 mm | 300 | 40 |
| 29239 | 6 x 1250 x 2500 mm | 150 | 48 |
| 311436 | 8 x 1250 x 2500 mm | 200 | 64 |
| 318365 | 8 x 1500 x 5000 mm | 480 | 64 |

Rusttrege stålplater S355J2WP



Varmvalsede stålplater i kvalitet S355J2WP
alt. Domex 355W, Cor-Ten A.
Konstruksjonsstål med forbedrede egenskaper mot atmosfærisk korrosjon iflg. EN 10025-5
Toleranser iflg. EN10051.
Kontrollsertifikat iflg. EN 10204 - 3.1. CE merket

Varegruppe: 4884

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|---------------------|--------|-------------------|
| 322370 | 2 x 1000 x 2000 mm | 32 | 16 |
| 311425 | 3 x 1250 x 2500 mm | 75 | 24 |
| 33997 | 3 x 1500 x 3000 mm | 108 | 24 |
| 39058 | 4 x 1500 x 3000 mm | 144 | 32 |
| 66420 | 5 x 1500 x 3000 mm | 180 | 40 |
| 311426 | 5 x 1500 x 5000 mm | 300 | 40 |
| 311427 | 6 x 1500 x 5000 mm | 360 | 48 |
| 49474 | 8 x 1500 x 3000 mm | 288 | 64 |
| 54829 | 10 x 1500 x 3000 mm | 360 | 80 |

Varmvalsede stålplater i kvalitet S235JR



S235JR ihht EN 10025-2 med
kontrollsertifikat 3.1 (CE merket)
Toleranser i henhold til EN 10051.
Merking: røde hjørner

Varegruppe: 4870

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|--------------------------|--------|-------------------|
| 312083 | 3 x 1800 x 5000 mm | 216 | 24 |
| 312085 | 3 x 2000 x 6000 mm | 288 | 24 |
| 312089 | 4 x 1800 x 6000 mm | 346 | 32 |
| 312090 | 4 x 2000 x 6000 mm | 384 | 32 |
| 326577 | 5 x 1250 x 6000 mm SK KT | 300 | 40 |
| 312092 | 5 x 1500 x 6000 mm | 360 | 40 |
| 326578 | 5 x 1500 x 6000 mm SK KT | 360 | 40 |
| 312094 | 5 x 1800 x 6000 mm SK KT | 432 | 40 |
| 312096 | 5 x 2000 x 6000 mm SK KT | 480 | 40 |

Stålplater S355G10 +N/+M (Y20)



I følge NORSOK M-120 Rev 5 MDS-Y20 Rev.
5 og iflg. EN10225.

Toleranser og planhet iflg. EN 10029 kl A.
Kontrollsertifikat iflg. EN 10204-3.2 -
DNVGL.

* MERKING: Aluminium hjørne + rød strek.
Stempling av chargenummer
og DNVGL stempel i begge ender.

Plater som veier mer enn 8000 kg eller
1000 kg per meter
leveres slyngrenset og primet med Jotun
Muki Z 2001 GRÅ.

Varegruppe: 5131

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|---------------------|--------|-------------------|
| 312579 | 8 x 2500 x 8000 mm | 1280 | 64 |
| 312580 | 10 x 2500 x 12000mm | 2400 | 80 |
| 312581 | 12 x 2500 x 12000mm | 2880 | 96 |
| 312582 | 15 x 2500 x 12000mm | 3600 | 120 |
| 312583 | 16 x 2500 x 12000mm | 3840 | 128 |
| 312584 | 20 x 2500 x 12000mm | 4800 | 160 |
| 312585 | 25 x 2500 x 12000mm | 6000 | 200 |
| 312586 | 30 x 2500 x 12000mm | 7200 | 240 |
| 312587 | 35 x 2500 x 12000mm | 8400 | 280 |
| 312588 | 40 x 2500 x 12000mm | 9600 | 320 |
| 312589 | 50 x 2500 x 8000mm | 8000 | 400 |
| 322125 | 60 x 2500 x 8000mm | 9600 | 480 |

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|---------------------|--------|-------------------|
| 322126 | 70 x 2500 x 6000mm | 8400 | 560 |
| 322127 | 80 x 2500 x 6000mm | 9600 | 640 |
| 322113 | 100 x 2000 x 6000mm | 9600 | 800 |
| 322115 | 110 x 2500 x 4000mm | 8800 | 880 |
| 312595 | 120 x 2000 x 5000mm | 9600 | 960 |
| 312596 | 130 x 2000 x 4000mm | 8320 | 1040 |
| 312597 | 140 x 2000 x 4000mm | 8960 | 1120 |
| 312598 | 150 x 2000 x 4000mm | 9600 | 1200 |
| 312599 | 200 x 2000 x 3000mm | 9600 | 1600 |

Stålplater S420G2 +Q/+M (Y30)



Stålplater S420G2 +Q/+M iflg. NORSOK
M-120 Rev. 5 MDS Y30 og iflg. EN 10225
Toleranser og planhet iflg. EN 10029
Kontrollsertifikat iflg. EN 10204-3.2 - DNVGL
* MERKING: Aluminium hjørne + gul strek
Chargenr. + DNVGL merke stemplet i
begge ender
Leveres slyngrenset og primet med Jotun
Muki Z 2001 GRÅ

Varegruppe: 5138

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|----------------------|--------|-------------------|
| 312601 | 8 x 2500 x 10000 mm | 1600 | 64 |
| 312602 | 10 x 2500 x 12000 mm | 2400 | 80 |
| 312603 | 12 x 2500 x 12000 mm | 2880 | 96 |
| 312604 | 15 x 2500 x 12000 mm | 3600 | 120 |
| 312605 | 16 x 2500 x 12000 mm | 3840 | 128 |
| 312606 | 20 x 2500 x 12000 mm | 4800 | 160 |
| 312607 | 25 x 2500 x 12000 mm | 6000 | 200 |
| 312608 | 30 x 2500 x 12000 mm | 7200 | 240 |
| 312609 | 35 x 2500 x 12000 mm | 8400 | 280 |
| 312610 | 40 x 2500 x 12000 mm | 9600 | 320 |
| 312611 | 45 x 2500 x 8000 mm | 7200 | 360 |
| 312612 | 50 x 2500 x 8000 mm | 8000 | 400 |
| 312613 | 55 x 2500 x 8000 mm | 8800 | 440 |
| 312614 | 60 x 2500 x 6000 mm | 7200 | 480 |
| 312615 | 70 x 2500 x 6000 mm | 8400 | 560 |
| 312616 | 80 x 2500 x 6000 mm | 9600 | 640 |
| 312617 | 90 x 2500 x 6000 mm | 10800 | 720 |
| 325230 | 100 x 2000 x 6000 mm | 9600 | 800 |
| 312618 | 100 x 2500 x 6000 mm | 12000 | 800 |
| 312619 | 120 x 2000 x 4000 mm | 7680 | 960 |
| 321979 | 130 x 2000 x 4000 mm | 8320 | 1040 |
| 312620 | 140 x 2000 x 4000 mm | 8960 | 1120 |
| 312621 | 150 x 2000 x 4000 mm | 9600 | 1200 |

NLMK Europe – Plate

NLMK Group is a leading international manufacturer of high-quality steel products with a vertically integrated business model. Mining and steelmaking are concentrated in cost-efficient regions; finished products are manufactured close to our main costumers in Russia, North America, and the EU.



2016 PLATTS
GLOBAL METALS
AWARDS WINNER



NLMK Europe Plate includes NLMK Clabecq, NLMK Verona and NLMK Dansteel plants. There is a considerable level of interaction between those three plants which has resulted in access to an even broader range of products and services, from very thin to very thick plates, very wide plates and tool steels.



Clabecq

THINK THIN!

■ **Steel plates**

Weight max: 18 tons
Lenght max: 24 m
Thickness: 3 – 120 mm
Width: 2750 mm



DanSteel

GO WIDE!

■ **Steel plates**

Weight max: 32 tons
Lenght max: 21 m
Thickness: 5 – 200 mm
Width: 4050 mm



Verona

GET HEAVY!

■ **Steel plates**

Weight max: 50 tons
Lenght max: 20 m
Thickness: 15 – 250 mm
Width: 3000 mm

■ **Forging ingots**

Weight max: 86 tons
Plates thickness:
140 – 1000 mm

<http://www.eu.nlmk.com/>

Stålplater S500QL



Stålplater S500QL (WELDOX 500E)
Termomekanisk eller seigherdet i vårt valg
Slagseighetstestet ved -40 grader.
Tol.iflg. EN 10029. kl A
Kontrollsertifikat iflg. EN 10204 - 3.2 -
DNVGL
* MERKING: Hele platen dobbeltsidig
slyngrenset og primet med grå zinkprimer

Varegruppe: 5163

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|---------------------|--------|-------------------|
| 312431 | 8 x 2500 x 8000 mm | 1280 | 64 |
| 312432 | 10 x 2500 x 8000 mm | 1600 | 80 |
| 312433 | 16 x 2500 x 6000 mm | 1920 | 132 |
| 312434 | 20 x 2500 x 6000 mm | 2400 | 160 |
| 312435 | 25 x 2500 x 8000 mm | 4000 | 200 |
| 312436 | 30 x 2500 x 6000 mm | 3600 | 240 |
| 312437 | 40 x 2500 x 6000 mm | 4800 | 320 |

Stålplater STRENX 700E/690QL2



Stålplater STRENX 700E/690QL2 iflg. EN
10025-6
Slagseighetstestet ved -40 grader
Tykkelsestoleranser iflg. AccurRollTech
TM-klasse A
Øvrige tol.iflg. EN 10029
Kontrollsertifikat EN 10204-3.2 DNVGL
CE-merket på sertifikat med henvisning til
690QL2
* MERKING: Hele platen dobbeltsidig
slyngrenset og primet med grå
zinkprimer. En plateside merket STRENX
700E langsetter platen.

Varegruppe: 5164

| Varenr. | Dimensjon | Kg/stk |
|---------|---------------------|--------|
| 65809 | 6 x 1500 x 2500 mm | 180 |
| 130290 | 6 x 2500 x 6000 mm | 720 |
| 86241 | 8 x 1500 x 2500 mm | 240 |
| 312438 | 8 x 2500 x 6000 mm | 960 |
| 67079 | 10 x 1500 x 2500 mm | 300 |
| 312439 | 10 x 2500 x 6000 mm | 1200 |
| 83452 | 12 x 1500 x 2500 mm | 360 |
| 312440 | 12 x 2500 x 6000 mm | 1440 |
| 312441 | 12 x 2500 x 7000 mm | 1680 |
| 312442 | 12 x 2500 x 8000 mm | 1920 |
| 312443 | 15 x 2500 x 8000 mm | 2400 |
| 317868 | 16 x 1500 x 2500 mm | 480 |

| Varenr. | Dimensjon | Kg/stk |
|---------|----------------------|--------|
| 312444 | 16 x 2500 x 6000 mm | 1920 |
| 312445 | 16 x 2500 x 8000 mm | 2560 |
| 26877 | 20 x 1500 x 2500 mm | 600 |
| 312446 | 20 x 2500 x 6000 mm | 2400 |
| 312447 | 20 x 2500 x 8000 mm | 3200 |
| 21355 | 25 x 1500 x 2500 mm | 750 |
| 312448 | 25 x 2500 x 6000 mm | 3000 |
| 43928 | 30 x 1500 x 2500 mm | 900 |
| 185921 | 30 x 2500 x 6000 mm | 3600 |
| 40260 | 40 x 1500 x 2500 mm | 1200 |
| 130301 | 40 x 2500 x 6000 mm | 4800 |
| 61205 | 50 x 1500 x 2500 mm | 1500 |
| 130300 | 50 x 2500 x 6000 mm | 6000 |
| 312449 | 60 x 1500 x 2500 mm | 1800 |
| 312450 | 60 x 2000 x 4000 mm | 3840 |
| 312451 | 60 x 2500 x 6000 mm | 7200 |
| 312452 | 70 x 1500 x 2500 mm | 2100 |
| 312453 | 70 x 2500 x 6000 mm | 8400 |
| 312455 | 80 x 2500 x 6000 mm | 9600 |
| 312456 | 90 x 2000 x 4000 mm | 5760 |
| 314833 | 100 x 2000 x 6000 mm | 9600 |
| 312457 | 110 x 2000 x 4000 mm | 7040 |
| 312458 | 120 x 2000 x 4000 mm | 7680 |
| 323690 | 130 x 2000 x 4000 mm | 8320 |

Sliteplater Hardox 450



Tykkelsestoleranser iflg.
AccurRollTech TM-klasse A. Øvrige tol.iflg. EN
10029. Hardhet 425-475 HB
Typisk slagseighet for 20 mm 30 J ved - 40
grader. Kontrollsertifikat iflg. EN 10204-3.1
* MERKING: Hele platen dobbeltsidig
slyngrenset og primet med rødbrun
primer. En plateside merket HARDOX 450
langsetter platen. Unntatt poster merket
SORT

Varegruppe: 5173

| Varenr. | Dimensjon | Kg/stk |
|---------|---------------------------|--------|
| 322225 | 1,5 x 1500 x 3000 mm SORT | 54 |
| 322359 | 2 x 1500 x 3000 mm SORT | 72 |
| 317296 | 3 x 1500 x 3000 mm SORT | 108 |
| 317297 | 4 x 1500 x 3000 mm SORT | 144 |
| 303199 | 4 x 2500 x 6000 mm | 480 |
| 317299 | 5 x 1500 x 3000 mm SORT | 180 |
| 303211 | 5 x 2500 x 6000 mm | 600 |
| 317300 | 6 x 1500 x 3000 mm SORT | 216 |

| Varenr. | Dimensjon | Kg/stk |
|---------|---------------------|--------|
| 303213 | 6 x 2500 x 6000 mm | 720 |
| 312405 | 8 x 1500 x 2500 mm | 240 |
| 190424 | 8 x 2500 x 6000 mm | 960 |
| 312406 | 10 x 1500 x 2500 mm | 300 |
| 190425 | 10 x 2500 x 6000 mm | 1200 |
| 312407 | 10 x 2500 x 7000 mm | 1400 |
| 312408 | 12 x 1500 x 2500 mm | 360 |
| 190426 | 12 x 2500 x 6000 mm | 1440 |
| 190427 | 15 x 2500 x 6000 mm | 1800 |
| 312409 | 16 x 1500 x 2500 mm | 480 |
| 312410 | 16 x 2500 x 6000 mm | 1920 |
| 312411 | 20 x 1500 x 2500 mm | 600 |
| 190428 | 20 x 2500 x 6000 mm | 2400 |
| 312412 | 25 x 1500 x 2500 mm | 750 |
| 312413 | 25 x 2500 x 6000 mm | 3000 |
| 312414 | 30 x 1500 x 2500 mm | 900 |
| 312415 | 30 x 2500 x 6000 mm | 3600 |
| 314816 | 35 x 2500 x 6000 mm | 4200 |
| 312416 | 40 x 1500 x 2500 mm | 1200 |
| 312417 | 40 x 2500 x 3500 mm | 2800 |
| 312418 | 40 x 2500 x 6000 mm | 4800 |
| 312419 | 50 x 1500 x 2500 mm | 1500 |
| 312421 | 50 x 2500 x 3800 mm | 3800 |
| 312420 | 50 x 2500 x 6000 mm | 6000 |
| 312422 | 60 x 2000 x 4000 mm | 3840 |
| 312423 | 70 x 2000 x 4500 mm | 5040 |

| Varenr. | Dimensjon | Kg/stk |
|---------|---------------------|--------|
| 125522 | 25 x 1500 x 3000 mm | 900 |
| 312425 | 25 x 2500 x 6000 mm | 3000 |
| 312426 | 30 x 2500 x 6000 mm | 3600 |
| 312427 | 40 x 1500 x 3000 mm | 1440 |
| 312428 | 40 x 2500 x 6400 mm | 5120 |
| 125523 | 50 x 1500 x 3000 mm | 1800 |
| 312429 | 50 x 2000 x 4000 mm | 3200 |
| 312430 | 60 x 2000 x 4000 mm | 3840 |

Kjeleplater P265GH



Kjeleplater i kvalitet P265GH EN10028-2:2009 AD2000-W1
ASME SA516/SA516 m - 60 [415], ASME II PART A, EDITION 2013
Varmestrekprøve Rp 0,2 utført iflg. EN 10002 ved 300 gr.C min 172 MPa
Toleranser og planhet iflg. EN 10029, Tykkelse kl. C
Kontrollsertifikat iflg. EN 10204 - 3.2 - DNVGL
* MERKING: Chargenr. skal være innslått i materialet m/hvit ring
Hvitt hjørne

Varegruppe: 5142

| Varenr. | Dimensjon | Kg/stk |
|---------|---------------------|--------|
| 312078 | 6 x 2000 x 6000 mm | 576 |
| 312079 | 8 x 2000 x 6000 mm | 768 |
| 312080 | 10 x 2000 x 6000 mm | 960 |

Sliteplater Hardox 500



Hardhet 4-26 mm 470-530 HB, 26,1 - 80 mm 450 - 540 HB. Typisk slagseighet for 20 mm 30 J ved - 40 grader.

Tykkelsestoleranser iflg. AccurRollTech TM-klasse A. Øvrige tol.iflg. EN 10029

Kontrollsertifikat iflg. EN 10204-3.1

* MERKING: Hele platen dobbeltsidig slyngrenset og primet med rødbrun primer. En plateside merket HARDOX 500 langsetter platen

Varegruppe: 5174

| Varenr. | Dimensjon | Kg/stk |
|---------|---------------------|--------|
| 320791 | 10 x 2500 x 6000 mm | 1200 |
| 312424 | 12 x 1500 x 2500 mm | 360 |
| 316780 | 12 x 2000 x 4000 mm | 768 |
| 328459 | 15 x 1500 x 3000 mm | 540 |
| 55640 | 16 x 1500 x 3000 mm | 576 |
| 63759 | 20 x 1500 x 3000 mm | 720 |

Stålplater P355NL2/ P355GH/S355NL



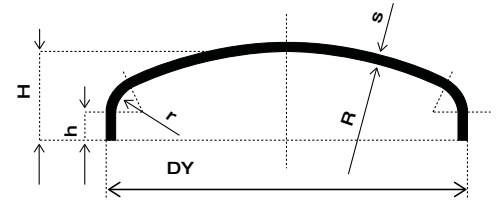
Stålplater i kvalitetet P355NL2/GH iflg EN 10028-3 og S355NL iflg 10025-3
Toleranser iflg. EN 10029 klasse C
Kontrollsertifikat iflg. EN 10204 - 3.2 - DNVGL. CE merket for S355NL

Varegruppe: 5146

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|----------------------|--------|-------------------|
| 312270 | 8 x 2500 x 8000 mm | 1280 | 64 |
| 312271 | 10 x 2500 x 8000 mm | 1600 | 80 |
| 312272 | 12 x 2500 x 8000 mm | 1920 | 96 |
| 312273 | 15 x 2500 x 8000 mm | 2400 | 120 |
| 312274 | 18 x 2500 x 8000 mm | 2880 | 144 |
| 312275 | 20 x 2500 x 8000 mm | 3200 | 160 |
| 322377 | 25 x 2500 x 12010 mm | 6005 | 200 |

Kuvede tankbunner

S235JR iflg. EN 10025-2, option 1.R=D, r=25-50mm h=25-30mm.
Kontrollsertifikat iflg. EN 10204-3.1



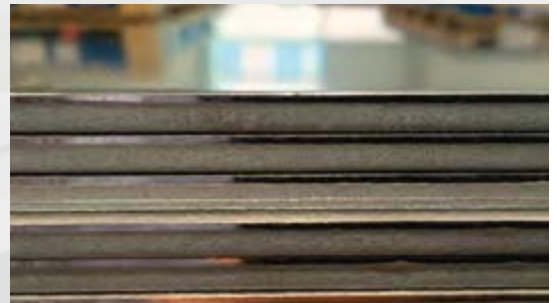
Varegruppe: 5975

| Varenr. | Dimensjon Utv. diam x tykk (DY) (S) | R mm | r mm | H mm | h mm | Kg/stk |
|---------|---|---------|---------|---------|---------|--------|
| 312530 | 800 x 5 mm | 800 | 40 | 160 | 25 | 29,00 |
| 312531 | 1000 x 5 mm | 1000 | 40 | 185 | 30 | 33,00 |
| 312532 | 1150 x 5 mm | 1150 | 40 | 200 | 30 | 47,00 |
| 312533 | 1400 x 5 mm | 1400 | 50 | 240 | 30 | 69,00 |
| 312534 | 1600 x 5 mm | 1600 | 50 | 260 | 30 | 95,00 |
| 312535 | 1900 x 6 mm | 1900 | 70 | 318 | 25 | 150,00 |
| 312536 | 2300 x 6 mm | 2300 | 50 | 360 | 30 | 228,00 |
| 312537 | 2600 x 8 mm | 2600 | 50 | 395 | 30 | 366,00 |

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2 Stang, varmvalset

| | |
|---|----|
| Rundtstål S235JR | 16 |
| Akselstål S355J2 | 16 |
| Akselstål S355J2+N | 16 |
| Seigherdet Rundt 34CrNiMo6 (SS2541M) | 17 |
| Halvrundtstål Grad A | 17 |
| Firkantstål S235JR | 17 |
| Firkantstål S355J2 | 17 |
| Flattstål Grad A | 18 |
| Flattstål S235JR | 18 |
| Flattstål S355J2 | 18 |
| Bredflattstål S355J2 | 20 |
| Bulbflattstål Grad A 36 | 20 |
| Bulb S355G11 +N/+M Grad D36 | 21 |
| Vinkelstål S235JR Likebenet | 21 |
| Vinkelstål S235JR Ulikebenet | 21 |
| Vinkelstål S355J2 Likebenet | 22 |
| Vinkelstål S355J2 Ulikebenet | 22 |
| L-profil Grad D36 | 23 |
| T-Stål S235JR | 23 |
| UNP S235JR | 23 |
| Flattstål S235JR - Varmforzinket | 23 |
| Vinkelstål S235JR - Likebenet - Varmforzinket | 23 |
| T-stål S235JR Varmforzinket | 23 |
| Plogkantstål | 24 |
| Skjærstål | 24 |
| Slitekantstål | 24 |
| Flate Kranskiner S355J0 | 24 |
| Kranskiner | 24 |



2 Stang, varmvalset

Rundtstål S235JR

iflg. EN 10025-2. Toleranser iflg. EN 10060
Lengdetoleranse +/-100 mm
Kontrollsertifikat iflg. EN 10204-3.1 CE-merket
* MERKING: Rød ende

Varegruppe: 5310

| Varenr. | Dimensjon | Kg/stk |
|---------|-------------|--------|
| 53644 | 6 mm x 6 m | 1,38 |
| 89223 | 8 mm x 6 m | 2,4 |
| 99025 | 10 mm x 6 m | 3,78 |

Akselstål S355J2

iflg. EN 10025-2. Norsok M-120 -Y05:
Verdier på kontrolldokumentet må sjekkes
Toleranser iflg. EN 10 060
Lengdetoleranse +/-100 mm
Kontrollsertifikat iflg. EN 10204-3.1 CE-merket
* MERKING: Aluminium ende

Varegruppe: 7725

| Varenr. | Dimensjon | Kg/stk |
|---------|---------------|--------|
| 316485 | Ø 12 mm x 6 m | 5,46 |
| 313523 | Ø 16 mm x 6 m | 9,66 |
| 313524 | Ø 20 mm x 6 m | 15,06 |
| 316484 | Ø 22 mm x 6 m | 18,24 |
| 316844 | Ø 25 mm x 6 m | 23,58 |
| 313526 | Ø 30 mm x 6 m | 33,96 |
| 313527 | Ø 32 mm x 6 m | 38,64 |
| 313528 | Ø 35 mm x 6 m | 46,20 |
| 313530 | Ø 40 mm x 6 m | 60,60 |
| 313531 | Ø 45 mm x 6 m | 76,20 |
| 313532 | Ø 50 mm x 6 m | 94,20 |
| 313534 | Ø 60 mm x 6 m | 135,60 |
| 316487 | Ø 70 mm x 6 m | 184,80 |

Akselstål S355J2+N

iflg. EN 10025-2. Norsok M-120 MDS Y05:
Verdier på kontrolldokumentet må sjekkes
*Ø f.o.m. Ø20 t.o.m. Ø90 mm er lagert i
S355K2+N med CEV maks. 0,43%, C maks.
0,16%

*Dimensjoner > Ø95 mm lagert i
S355J2+N iflg. EN 10025-2

*Dimensjoner > Ø300 mm < Ø350 mm
leveres i kvalitet S355J2G3 uten CE merke
Toleranser iflg. EN 10060 opp til 200 mm
Toleranser for større dimensjoner må
bekreftes. Lengder a 6-7,5 meter.
Kontrollsertifikat iflg. EN 10204-3.2 - DNVGL
CE-merket

* MERKING: Aluminium ende

Varegruppe: 7726

| Varenr. | Dimensjon | Kg/M |
|---------|--------------------|--------|
| 316504 | Ø 20 mm x 6-7,5 m | 2,51 |
| 319942 | Ø 25 mm x 6-7,5 m | 3,93 |
| 316497 | Ø 30 mm x 6-7,5 m | 5,66 |
| 316498 | Ø 40 mm x 6-7,5 m | 10,10 |
| 316499 | Ø 50 mm x 6-7,5 m | 15,70 |
| 316511 | Ø 60 mm x 6-7,5 m | 22,60 |
| 316512 | Ø 65 mm x 6-7,5 m | 26,60 |
| 313536 | Ø 70 mm x 6-7,5 m | 30,80 |
| 313537 | Ø 75 mm x 6-7,5 m | 35,40 |
| 313538 | Ø 80 mm x 6-7,5 m | 40,20 |
| 313539 | Ø 85 mm x 6-7,5 m | 45,40 |
| 313540 | Ø 90 mm x 6-7,5 m | 50,90 |
| 313541 | Ø 100 mm x 6-7,5 m | 62,90 |
| 313542 | Ø 105 mm x 6-7,5 m | 69,30 |
| 313543 | Ø 110 mm x 6-7,5 m | 76,10 |
| 313545 | Ø 120 mm x 6-7,5 m | 90,50 |
| 313546 | Ø 125 mm x 6-7,5 m | 98,20 |
| 313547 | Ø 130 mm x 6-7,5 m | 106,00 |
| 313548 | Ø 140 mm x 6-7,5 m | 123,00 |
| 313549 | Ø 150 mm x 6-7,5 m | 141,00 |
| 313550 | Ø 160 mm x 6-7,5 m | 161,00 |
| 313551 | Ø 170 mm x 6-7,5 m | 182,00 |
| 313552 | Ø 180 mm x 6-7,5 m | 204,00 |
| 313553 | Ø 190 mm x 6-7,5 m | 227,00 |
| 313554 | Ø 200 mm x 6-7,5 m | 251,00 |
| 313555 | Ø 210 mm x 6-7,5 m | 277,00 |
| 313556 | Ø 220 mm x 6-7,5 m | 304,00 |

| Varenr. | Dimensjon | Kg/M |
|---------|--------------------|--------|
| 313557 | Ø 230 mm x 6-7,5 m | 333,00 |
| 313558 | Ø 240 mm x 6-7,5 m | 362,00 |
| 313559 | Ø 250 mm x 6-7,5 m | 385,30 |
| 313560 | Ø 260 mm x 6-7,5 m | 425,00 |
| 313561 | Ø 280 mm x 6-7,5 m | 493,00 |
| 313562 | Ø 290 mm x 6-7,5 m | 532,00 |
| 313563 | Ø 300 mm x 6-7,5 m | 566,00 |
| 313564 | Ø 320 mm x 6-7,5 m | 648,00 |
| 313565 | Ø 330 mm x 6-7,5 m | 684,00 |
| 313566 | Ø 350 mm x 6-7,5 m | 770,00 |

Seigherdet Rundt 34CrNiMo6 (SS2541M)

iflg. EN 10083-1
Slagseighetstestet ved -20 gr. C
Toleranser iflg. EN 10060
Kontrollsertifikat iflg. EN 10204 - 3.1
* MERKING: Vinrød ende

Varegruppe: 7841

| Varenr. | Dimensjon | Kg/M | Kg/stk |
|---------|---------------|--------|---------|
| 313567 | Ø 16 mm x 3 m | 1,61 | 4,83 |
| 313568 | Ø 20 mm x 3 m | 2,52 | 7,56 |
| 313569 | Ø 25 mm x 6 m | 3,93 | 23,58 |
| 313570 | Ø 30 mm x 6 m | 5,66 | 33,96 |
| 313571 | Ø 32 mm x 6 m | 6,44 | 38,64 |
| 313572 | Ø 35 mm x 6 m | 7,70 | 46,20 |
| 313573 | Ø 38 mm x 6 m | 9,08 | 54,48 |
| 313574 | Ø 40 mm x 6 m | 10,10 | 60,60 |
| 313575 | Ø 45 mm x 6 m | 12,80 | 76,80 |
| 313576 | Ø 50 mm x 6 m | 15,70 | 94,20 |
| 313577 | Ø 60 mm x 6 m | 22,60 | 135,60 |
| 313578 | Ø 65 mm x 6 m | 26,50 | 159,00 |
| 313579 | Ø 70 mm x 6 m | 30,80 | 184,80 |
| 313580 | Ø 75 mm x 6 m | 35,40 | 212,40 |
| 313581 | Ø 80 mm x 6 m | 40,30 | 241,80 |
| 313582 | Ø 90 mm x 6 m | 50,90 | 305,40 |
| 313583 | Ø100 mm x 6 m | 62,90 | 377,40 |
| 313584 | Ø110 mm x 6 m | 76,10 | 456,60 |
| 313585 | Ø120 mm x 6 m | 90,60 | 543,60 |
| 313586 | Ø125 mm x 6 m | 98,20 | 589,20 |
| 313587 | Ø130 mm x 6 m | 106,00 | 636,00 |
| 313588 | Ø140 mm x 6 m | 123,00 | 738,00 |
| 313589 | Ø150 mm x 6 m | 142,00 | 852,00 |
| 313590 | Ø160 mm x 6 m | 161,00 | 966,00 |
| 313591 | Ø180 mm x 6 m | 204,00 | 1224,00 |
| 313592 | Ø200 mm x 6 m | 252,00 | 1512,00 |

Halvrundtstål Grad A (NVA/VLA)

Toleranser iflg. DIN 1018
Lengdetoleranse -0/+100 mm
Kontrollsertifikat iflg. EN 10204 - 3.2 -
DNVGL
* MERKING: Gul ende

Varegruppe: 5395

| Varenr. | Dimensjon | Kg/M | Kg/stk |
|---------|------------------|-------|--------|
| 311747 | 50 x 25 mm x 6 m | 7,85 | 47,10 |
| 311748 | 60 x 30 mm x 6 m | 11,30 | 67,80 |
| 311746 | 76 x 38 mm x 6 m | 18,23 | 109,38 |

Firkantstål S235JR

iflg. EN 10025-2
Toleranser iflg. EN 10059
Lengdetoleranse +/-100 mm
Prøverapport iflg. EN 10204-2.2 CE-merket
* MERKING: Rød ende

Varegruppe: 5320

| Varenr. | Dimensjon | Kg/M | Kg/stk |
|---------|--------------------|------|--------|
| 311586 | 10 mm x 4-KT x 6 m | 0,80 | 4,80 |

Firkantstål S355J2

iflg. EN 10025-2
Toleranser iflg. EN 10059
Lengdetoleranse +/-100 mm
Kontrollsertifikat iflg. EN 10204-3.1 CE-
merket
* MERKING: Aluminium ende

Varegruppe: 7727

| Varenr. | Dimensjon | Kg/M | Kg/stk |
|---------|---------------------|-------|--------|
| 316469 | 12 mm x 4-KT x 6 m | 1,15 | 6,90 |
| 316470 | 16 mm x 4-KT x 6 m | 2,05 | 12,30 |
| 316479 | 20 mm x 4-KT x 6 m | 3,20 | 19,20 |
| 313522 | 22 mm x 4-KT x 6 m* | 3,90 | 23,40 |
| 316471 | 25 mm x 4-KT x 6 m | 5,00 | 30,00 |
| 316472 | 30 mm x 4-KT x 6 m | 7,21 | 43,26 |
| 316473 | 40 mm x 4-KT x 6 m | 12,80 | 76,80 |
| 316475 | 50 mm x 4-KT x 6 m | 20,00 | 120,00 |
| 316477 | 60 mm x 4-KT x 6 m | 28,80 | 172,80 |
| 316478 | 100 mm x 4-KT x 6 m | 80,10 | 480,60 |

**Flattstål Grad A
(NVA/VLA)**

Toleranser iflg. EN 10058
Lengdetoleranse +/-100 mm
Kontrollsertifikat iflg. EN 10204-3.2 - DNVGL
* MERKING: Gul ende

Varegruppe: 5335

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-------------------------|-------|--------|
| 311653 | 35 x 12 mm x 6,3 m | 3,36 | 21,17 |
| 311665 | 35 x 15 mm x 5,3 m | 4,20 | 22,26 |
| 311693 | 80 x 25 mm AVR K x 6 m | 16,00 | 96,00 |
| 311695 | 100 x 25 mm AVR K x 6 m | 20,00 | 120,00 |
| 311698 | 130 x 25 mm AVR K x 6 m | 26,00 | 156,00 |
| 316775 | 130 x 30 mm AVR K x 6 m | 31,20 | 187,20 |
| 311707 | 150 x 40 mm AVR K x 6 m | 47,93 | 287,58 |

Flattstål S235JR

iflg. EN 10025-2
Toleranser iflg. EN 10058
Lengdetoleranse +/- 100 mm
Kontrollsertifikat iflg. EN 10204-3.1 CE-
merket
* MERKING: Rød ende

Varegruppe: 5330

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-------------------|-------|--------|
| 311862 | 16 x 3 mm x 4 m | 0,38 | 1,52 |
| 316779 | 20 x 3 mm x 4 m | 0,48 | 1,92 |
| 316790 | 25 x 3 mm x 4 m | 0,60 | 2,40 |
| 316792 | 30 x 3 mm x 4 m | 0,72 | 2,88 |
| 316793 | 40 x 3 mm x 4 m | 0,96 | 3,84 |
| 316795 | 50 x 3 mm x 4 m | 1,20 | 4,80 |
| 311863 | 75 x 3 mm x 4 m | 1,80 | 7,20 |
| 316796 | 100 x 3 mm x 4 m | 2,40 | 9,60 |
| 311866 | 100 x 60 mm x 6 m | 48,04 | 288,24 |

Flattstål S355J2

iflg. EN 10025-2
Norsok M120 - Y05: Verdier i
kontrolldokumentet må sjekkes
Toleranser iflg. EN 10058
Lengdetoleranse +/-100 mm
Kontrollsertifikat iflg. EN 10204-3.1 CE-
merket
* MERKING: Aluminium ende

Varegruppe: 5331

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|------------------|-------|--------|
| 316372 | 20 x 5 mm x 6 m | 0,80 | 4,80 |
| 316385 | 20 x 8 mm x 6 m | 1,28 | 7,68 |
| 316392 | 20 x 10 mm x 6 m | 1,60 | 9,60 |
| 316374 | 25 x 5 mm x 6 m | 1,00 | 6,00 |
| 33450 | 25 x 6 mm x 6 m | 1,20 | 7,20 |
| 95309 | 25 x 8 mm x 6 m | 1,60 | 9,60 |
| 64965 | 25 x 10 mm x 6 m | 2,00 | 12,00 |
| 78093 | 30 x 5 mm x 6 m | 1,20 | 7,20 |
| 44794 | 30 x 6 mm x 6 m | 1,44 | 8,64 |
| 17045 | 30 x 8 mm x 6 m | 1,92 | 11,52 |
| 82114 | 30 x 10 mm x 6 m | 2,40 | 14,40 |
| 17027 | 30 x 12 mm x 6 m | 2,88 | 17,28 |
| 99612 | 30 x 15 mm x 6 m | 3,60 | 21,60 |
| 316376 | 35 x 5 mm x 6 m | 1,40 | 8,40 |
| 140054 | 40 x 5 mm x 6 m | 1,60 | 9,60 |
| 56530 | 40 x 6 mm x 6 m | 1,92 | 11,52 |
| 87585 | 40 x 8 mm x 6 m | 2,56 | 15,36 |
| 97574 | 40 x 10 mm x 6 m | 3,20 | 19,20 |
| 35251 | 40 x 12 mm x 6 m | 3,84 | 23,04 |
| 27621 | 40 x 15 mm x 6 m | 4,80 | 28,80 |
| 50979 | 40 x 20 mm x 6 m | 6,41 | 38,46 |
| 60692 | 50 x 5 mm x 6 m | 2,00 | 12,00 |
| 62545 | 50 x 6 mm x 6 m | 2,40 | 14,40 |
| 17395 | 50 x 8 mm x 6 m | 3,20 | 19,20 |
| 23427 | 50 x 10 mm x 6 m | 4,00 | 24,00 |
| 70916 | 50 x 12 mm x 6 m | 4,80 | 28,80 |
| 46021 | 50 x 15 mm x 6 m | 6,01 | 36,06 |
| 43673 | 50 x 20 mm x 6 m | 8,00 | 48,00 |
| 22996 | 50 x 30 mm x 6 m | 12,00 | 72,00 |
| 316375 | 60 x 5 mm x 6 m | 2,40 | 14,40 |
| 68658 | 60 x 6 mm x 6 m | 2,88 | 17,28 |
| 31091 | 60 x 8 mm x 6 m | 3,84 | 23,04 |
| 39671 | 60 x 10 mm x 6 m | 4,80 | 28,80 |
| 93452 | 60 x 12 mm x 6 m | 5,77 | 34,62 |
| 64813 | 60 x 15 mm x 6 m | 7,21 | 43,26 |
| 64229 | 60 x 20 mm x 6 m | 9,61 | 57,66 |
| 316386 | 65 x 8 mm x 6 m | 4,16 | 24,96 |
| 316393 | 65 x 10 mm x 6 m | 5,20 | 31,20 |
| 316355 | 70 x 5 mm x 6 m | 2,80 | 16,80 |

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-------------------|-------|--------|
| 19581 | 70 x 6 mm x 6 m | 3,36 | 20,16 |
| 28878 | 70 x 8 mm x 6 m | 4,48 | 26,88 |
| 77190 | 70 x 10 mm x 6 m | 5,60 | 33,60 |
| 88519 | 70 x 12 mm x 6 m | 6,73 | 40,38 |
| 25263 | 70 x 15 mm x 6 m | 8,41 | 50,46 |
| 316381 | 75 x 6 mm x 6 m | 3,60 | 21,60 |
| 316389 | 75 x 8 mm x 6 m | 4,80 | 28,80 |
| 311768 | 75 x 10 mm x 6 m | 6,01 | 36,06 |
| 316397 | 75 x 12 mm x 6 m | 7,21 | 43,26 |
| 316398 | 75 x 15 mm x 6 m | 9,01 | 54,06 |
| 316400 | 75 x 20 mm x 6 m | 12,00 | 72,00 |
| 316403 | 75 x 50 mm x 6 m | 30,00 | 180,00 |
| 316356 | 80 x 5 mm x 6 m | 3,20 | 19,20 |
| 74869 | 80 x 6 mm x 6 m | 3,84 | 23,04 |
| 45179 | 80 x 8 mm x 6 m | 5,12 | 30,72 |
| 64772 | 80 x 10 mm x 6 m | 6,41 | 38,46 |
| 27557 | 80 x 12 mm x 6 m | 7,69 | 46,14 |
| 83997 | 80 x 15 mm x 6 m | 9,61 | 57,66 |
| 85177 | 80 x 20 mm x 6 m | 12,80 | 76,80 |
| 64704 | 80 x 25 mm x 6 m | 16,00 | 96,00 |
| 24454 | 90 x 10 mm x 6 m | 7,21 | 43,26 |
| 316357 | 100 x 5 mm x 6 m | 4,00 | 24,00 |
| 81178 | 100 x 6 mm x 6 m | 4,80 | 28,80 |
| 59659 | 100 x 8 mm x 6 m | 6,41 | 38,46 |
| 81996 | 100 x 10 mm x 6 m | 8,00 | 48,00 |
| 53229 | 100 x 12 mm x 6 m | 9,61 | 57,66 |
| 13574 | 100 x 15 mm x 6 m | 12,00 | 72,00 |

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-------------------|-------|--------|
| 16518 | 100 x 20 mm x 6 m | 16,00 | 96,00 |
| 98709 | 100 x 25 mm x 6 m | 20,00 | 120,00 |
| 82890 | 100 x 30 mm x 6 m | 24,00 | 144,00 |
| 39099 | 100 x 40 mm x 6 m | 32,00 | 192,00 |
| 316404 | 100 x 50 mm x 6 m | 40,00 | 240,00 |
| 316358 | 120 x 5 mm x 6 m | 4,80 | 28,80 |
| 316382 | 120 x 6 mm x 6 m | 5,77 | 34,62 |
| 311767 | 120 x 8 mm x 6 m | 7,69 | 46,14 |
| 37071 | 120 x 10 mm x 6 m | 9,61 | 57,66 |
| 12587 | 120 x 12 mm x 6 m | 11,50 | 69,00 |
| 33443 | 120 x 15 mm x 6 m | 14,40 | 86,40 |
| 65160 | 120 x 20 mm x 6 m | 19,20 | 115,20 |
| 316391 | 130 x 8 mm x 6 m | 8,33 | 49,98 |
| 316394 | 130 x 10 mm x 6 m | 10,40 | 62,40 |
| 13728 | 130 x 12 mm x 6 m | 12,50 | 75,00 |
| 316399 | 130 x 15 mm x 6 m | 15,60 | 93,60 |
| 300149 | 140 x 10 mm x 6 m | 11,20 | 67,20 |
| 316359 | 150 x 5 mm x 6 m | 6,01 | 36,06 |
| 316384 | 150 x 6 mm x 6 m | 7,21 | 43,26 |
| 49578 | 150 x 8 mm x 6 m | 9,61 | 57,66 |
| 62599 | 150 x 10 mm x 6 m | 12,00 | 72,00 |
| 17475 | 150 x 12 mm x 6 m | 14,40 | 86,40 |
| 42015 | 150 x 15 mm x 6 m | 18,00 | 108,00 |
| 80223 | 150 x 20 mm x 6 m | 24,00 | 144,00 |
| 26142 | 150 x 25 mm x 6 m | 30,00 | 180,00 |
| 59296 | 150 x 30 mm x 6 m | 36,00 | 216,00 |
| 316401 | 150 x 40 mm x 6 m | 48,00 | 288,00 |

Bredflattstål S355J2

iflg. EN 10025-2
Norsok M120 - Y05: Verdier i
kontrolldokumentet må sjekkes
Toleranser iflg. EN 10029
Kontrollsertifikat iflg. EN 10204-3.1 CE-
merket

* MERKING: Aluminium ende

Varegruppe: 5341

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-------------------|-------|--------|
| 316465 | 160 x 10 mm x 6 m | 12,80 | 76,80 |
| 316438 | 180 x 8 mm x 6 m | 11,52 | 69,12 |
| 316466 | 180 x 10 mm x 6 m | 14,40 | 86,40 |
| 172029 | 180 x 12 mm x 6 m | 17,28 | 103,68 |
| 99365 | 180 x 15 mm x 6 m | 21,60 | 129,60 |
| 172045 | 180 x 20 mm x 6 m | 28,80 | 172,80 |
| 316453 | 200 x 6 mm x 6 m | 9,60 | 57,60 |
| 316460 | 200 x 8 mm x 6 m | 12,80 | 76,80 |
| 312400 | 200 x 10 mm x 6 m | 16,00 | 96,00 |
| 52050 | 200 x 12 mm x 6 m | 19,20 | 115,20 |
| 312401 | 200 x 15 mm x 6 m | 24,00 | 144,00 |
| 34131 | 200 x 20 mm x 6 m | 32,00 | 192,00 |
| 10846 | 200 x 25 mm x 6 m | 40,00 | 240,00 |
| 68523 | 200 x 30 mm x 6 m | 48,00 | 288,00 |
| 171940 | 250 x 6 mm x 6 m | 12,00 | 72,00 |
| 316462 | 250 x 8 mm x 6 m | 16,00 | 96,00 |
| 312402 | 250 x 10 mm x 6 m | 20,00 | 120,00 |
| 172030 | 250 x 12 mm x 6 m | 24,00 | 144,00 |
| 22480 | 250 x 15 mm x 6 m | 30,00 | 180,00 |
| 65955 | 250 x 20 mm x 6 m | 40,00 | 240,00 |
| 12037 | 250 x 25 mm x 6 m | 50,00 | 300,00 |
| 316463 | 300 x 8 mm x 6 m | 19,20 | 115,20 |
| 172027 | 300 x 10 mm x 6 m | 24,00 | 144,00 |
| 172031 | 300 x 12 mm x 6 m | 28,80 | 172,80 |
| 312403 | 300 x 15 mm x 6 m | 36,00 | 216,00 |
| 31452 | 300 x 20 mm x 6 m | 48,00 | 288,00 |
| 11129 | 300 x 25 mm x 6 m | 60,00 | 360,00 |
| 11494 | 300 x 30 mm x 6 m | 72,00 | 432,00 |
| 191849 | 400 x 15 mm x 6 m | 48,00 | 288,00 |
| 172047 | 400 x 20 mm x 6 m | 64,00 | 384,00 |

Bulbflattstål Grad A36 (NVA 36/VLA 36)

Toleranser iflg. EN 10067
Lengdetoleranse -0/+100 mm
Kontrollsertifikat iflg. EN 10204 -3.2 -
DNVGL

Varegruppe: 5307

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|--------------------|-------|--------|
| 319939 | 80 x 6 mm x 6 m | 4,95 | 29,70 |
| 324364 | 80 x 7 mm x 6 m | 5,60 | 33,60 |
| 324002 | 100 x 6 mm x 6 m | 6,20 | 37,20 |
| 324365 | 100 x 7 mm x 6 m | 7,00 | 42,00 |
| 319947 | 100 x 8 mm x 6 m | 7,80 | 46,80 |
| 324003 | 120 x 6 mm x 6 m | 7,42 | 44,52 |
| 324366 | 120 x 7 mm x 6 m | 8,42 | 50,52 |
| 324367 | 120 x 8 mm x 6 m | 9,35 | 56,10 |
| 324004 | 140 x 7 mm x 6 m | 9,93 | 59,58 |
| 324005 | 140 x 8 mm x 6 m | 11,01 | 66,06 |
| 324007 | 140 x 9 mm x 6 m | 12,14 | 72,84 |
| 324356 | 160 x 7 mm x 6 m | 11,63 | 69,78 |
| 324368 | 160 x 8 mm x 6 m | 12,95 | 77,70 |
| 324363 | 160 x 9 mm x 6 m | 14,28 | 85,68 |
| 324006 | 180 x 8 mm x 12 m | 15,10 | 181,20 |
| 324357 | 180 x 9 mm x 12 m | 16,52 | 198,24 |
| 324335 | 180 x 10 mm x 12 m | 17,95 | 215,40 |
| 324009 | 200 x 9 mm x 12 m | 18,87 | 226,44 |
| 324362 | 200 x 10 mm x 12 m | 20,50 | 246,00 |
| 324358 | 200 x 12 mm x 12 m | 23,95 | 287,40 |
| 317741 | 220 x 10 mm x 12 m | 23,26 | 279,12 |
| 324369 | 220 x 12 mm x 12 m | 26,72 | 320,64 |
| 324008 | 240 x 10 mm x 12 m | 25,91 | 310,92 |
| 324336 | 240 x 12 mm x 12 m | 29,86 | 358,32 |
| 324370 | 260 x 10 mm x 12 m | 28,87 | 346,44 |
| 317742 | 260 x 12 mm x 12 m | 33,05 | 396,60 |
| 324375 | 300 x 12 mm x 12 m | 39,00 | 468,00 |
| 324379 | 340 x 12 mm x 12 m | 47,02 | 564,24 |

Bulb S355G11 +N/+M Grad D36 (NVD 36/VLD 36)



Bulbflattstål S355G11 +N/+M / NVD 36 ihht NORSOK M120-MDS 26 EN 10225 og "DNVGL Rules for ships".
Dimensjonstoleranser ihht EN10067.
Overflatetoleranser ihht EN10163-3 klasse C. Lengdetoleranser -0/+ 100 mm.
MERKING: Aluminium ender
Kontrollsertifikat iflg. EN 10204 - 3.2 - DNVGL

Varegruppe: 5308

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|--------------------|-------|--------|
| 311769 | 120 x 8 mm x 12 m | 9,35 | 112,20 |
| 311770 | 140 x 8 mm x 12 m | 11,01 | 132,12 |
| 311771 | 160 x 8 mm x 12 m | 12,95 | 155,40 |
| 311772 | 180 x 8 mm x 12 m | 15,10 | 181,20 |
| 322756 | 180 x 9 mm x 12 m | 16,52 | 198,24 |
| 311773 | 180 x 10 mm x 12 m | 17,95 | 215,40 |
| 311774 | 200 x 9 mm x 12 m | 18,87 | 226,44 |
| 311775 | 200 x 10 mm x 12 m | 20,50 | 246,00 |
| 311776 | 220 x 10 mm x 12 m | 23,26 | 279,12 |
| 311777 | 240 x 10 mm x 12 m | 25,91 | 310,92 |
| 311780 | 240 x 12 mm x 12 m | 29,86 | 358,32 |
| 311778 | 260 x 10 mm x 12 m | 28,87 | 346,44 |
| 311781 | 260 x 12 mm x 12 m | 33,05 | 396,60 |
| 311779 | 300 x 11 mm x 12 m | 37,36 | 448,32 |
| 311782 | 300 x 12 mm x 12 m | 39,00 | 468,00 |
| 311783 | 320 x 12 mm x 12 m | 43,35 | 520,20 |
| 322759 | 340 x 12 mm x 12 m | 47,02 | 564,24 |

Vinkelstål S235JR Likebenet



iflg. EN 10025-2
Dimensjoner iflg. EN 10056-1
Toleranser iflg. EN 10056-2
Lengdetoleranse +/-100 mm
Kontrollsertifikat iflg. EN 10204-3.1 CE-merket
* MERKING: Rød ende

Varegruppe: 5350

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------------|------|--------|
| 28460 | 20 x 20 x 3 mm x 6 m | 0,90 | 5,40 |
| 45130 | 25 x 25 x 3 mm x 6 m | 1,14 | 6,84 |
| 79718 | 30 x 30 x 3 mm x 6 m | 1,39 | 8,34 |
| 97636 | 30 x 30 x 4 mm x 6 m | 1,82 | 10,92 |
| 16752 | 30 x 30 x 5 mm x 6 m | 2,22 | 13,32 |
| 44721 | 35 x 35 x 4 mm x 6 m | 2,14 | 12,84 |
| 83469 | 40 x 40 x 4 mm x 6 m | 2,47 | 14,82 |

Vinkelstål S235JR Ulikebenet



iflg. EN 10025-2
Dimensjoner iflg. EN 10056-1
Toleranser iflg. EN 10056-2
Lengdetoleranse +/-100 mm
Kontrollsertifikat iflg. EN 10204- 3.1 CE-merket
* MERKING: Rød ende

Varegruppe: 5355

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------------|------|--------|
| 62468 | 40 x 20 x 4 mm x 6 m | 1,81 | 10,86 |
| 69970 | 45 x 30 x 4 mm x 6 m | 2,30 | 13,80 |

Vinkelstål S355J2 Likebenet



iflg. EN 10025-2
Norsok M120 - Y05: Verdier i
kontrolldokumentet må sjekkes
Dimensjoner iflg. EN 10056-1
Toleranser iflg. EN 10056-2
Lengdetoleranse +/-100 mm
Kontrollsertifikat iflg. EN 10204-3.1 CE-
merket
* MERING: Aluminium ende + blå strek

Varegruppe: 5351

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|--------------------------|-------|--------|
| 312538 | 40 x 40 x 5 mm x 6 m | 3,03 | 18,18 |
| 316514 | 45 x 45 x 5 mm x 6 m | 3,45 | 20,70 |
| 312539 | 50 x 50 x 5 mm x 6 m | 3,85 | 23,10 |
| 312540 | 50 x 50 x 5 mm x 12 m | 3,85 | 46,20 |
| 312541 | 50 x 50 x 6 mm x 6 m | 4,56 | 27,36 |
| 312542 | 50 x 50 x 6 mm x 12 m | 4,56 | 54,72 |
| 316516 | 50 x 50 x 8 mm x 6 m | 5,94 | 35,64 |
| 312543 | 60 x 60 x 6 mm x 6 m | 5,53 | 33,18 |
| 312544 | 60 x 60 x 6 mm x 12 m | 5,53 | 66,36 |
| 316517 | 60 x 60 x 8 mm x 6 m | 7,23 | 43,38 |
| 312545 | 60 x 60 x 8 mm x 12 m | 7,23 | 86,76 |
| 316540 | 60 x 60 x 10 mm x 6 m | 8,86 | 53,16 |
| 316541 | 65 x 65 x 7 mm x 6 m | 6,97 | 41,82 |
| 312546 | 70 x 70 x 7 mm x 6 m | 7,53 | 45,18 |
| 312547 | 70 x 70 x 7 mm x 12 m | 7,53 | 90,36 |
| 312548 | 70 x 70 x 9 mm x 12 m | 9,53 | 114,36 |
| 312549 | 75 x 75 x 8 mm x 6 m | 9,21 | 55,26 |
| 312550 | 75 x 75 x 8 mm x 12 m | 9,21 | 110,52 |
| 316544 | 75 x 75 x 10 mm x 6 m | 11,30 | 67,80 |
| 312551 | 75 x 75 x 10 mm x 12 m | 11,30 | 135,60 |
| 312552 | 80 x 80 x 8 mm x 6 m | 9,85 | 59,10 |
| 312553 | 80 x 80 x 8 mm x 12 m | 9,85 | 118,20 |
| 312554 | 80 x 80 x 10 mm x 12 m | 12,10 | 145,20 |
| 312555 | 90 x 90 x 9 mm x 12 m | 12,40 | 148,80 |
| 312556 | 100 x 100 x 10 mm x 6 m | 15,40 | 92,40 |
| 312557 | 100 x 100 x 10 mm x 12 m | 15,40 | 184,80 |
| 312558 | 100 x 100 x 12 mm x 12 m | 18,20 | 218,40 |
| 316546 | 120 x 120 x 11 mm x 12 m | 20,30 | 243,60 |
| 312559 | 120 x 120 x 12 mm x 12 m | 22,05 | 264,60 |
| 316547 | 130 x 130 x 12 mm x 12 m | 24,10 | 289,20 |
| 316548 | 150 x 150 x 12 mm x 12 m | 27,95 | 335,40 |
| 312560 | 150 x 150 x 14 mm x 12 m | 32,20 | 386,40 |
| 316549 | 150 x 150 x 15 mm x 12 m | 34,48 | 413,76 |
| 316550 | 150 x 150 x 16 mm x 12 m | 36,60 | 439,20 |
| 312561 | 180 x 180 x 18 mm x 12 m | 48,60 | 583,20 |
| 312562 | 200 x 200 x 16 mm x 12 m | 49,50 | 594,00 |

Vinkelstål S355J2 Ulikebenet



iflg. EN 10025-2
Norsok M120 - Y05: Verdier i
kontrolldokumentet må sjekkes
Dimensjoner iflg. EN 10056-1
Toleranser iflg. EN 10056-2
Lengdetoleranse +/-100 mm
Kontrollsertifikat iflg. EN 10204-3.1 CE-
merket
* MERKING: Aluminium ende + blå strek

Varegruppe: 5356

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|--------------------------|-------|--------|
| 316552 | 60 x 30 x 5 mm x 6 m | 3,44 | 20,64 |
| 316553 | 60 x 40 x 5 mm x 6 m | 3,84 | 23,04 |
| 316554 | 60 x 40 x 6 mm x 6 m | 4,55 | 27,30 |
| 316555 | 65 x 50 x 5 mm x 6 m | 4,44 | 26,64 |
| 316556 | 65 x 50 x 6 mm x 12 m | 5,26 | 63,12 |
| 316557 | 65 x 50 x 7 mm x 6 m | 6,09 | 36,54 |
| 316558 | 75 x 50 x 6 mm x 12 m | 5,70 | 68,40 |
| 316560 | 75 x 50 x 7 mm x 6 m | 6,64 | 39,84 |
| 312564 | 75 x 50 x 7 mm x 12 m | 6,64 | 79,68 |
| 316561 | 75 x 50 x 8 mm x 6 m | 7,52 | 45,12 |
| 316562 | 75 x 50 x 8 mm x 12 m | 7,52 | 90,24 |
| 316564 | 80 x 40 x 8 mm x 12 m | 7,21 | 86,52 |
| 316566 | 100 x 50 x 6 mm x 12 m | 6,99 | 83,88 |
| 312567 | 100 x 50 x 8 mm x 12 m | 9,17 | 110,04 |
| 316568 | 100 x 50 x 10 mm x 12 m | 11,30 | 135,60 |
| 312565 | 100 x 65 x 7 mm x 12 m | 8,95 | 107,40 |
| 316569 | 100 x 65 x 8 mm x 12 m | 10,16 | 121,92 |
| 312566 | 100 x 65 x 10 mm x 12 m | 12,60 | 151,20 |
| 316571 | 100 x 75 x 8 mm x 12 m | 10,80 | 129,60 |
| 312568 | 100 x 75 x 9 mm x 12 m | 12,00 | 144,00 |
| 316572 | 100 x 75 x 10 mm x 12 m | 13,36 | 160,32 |
| 316573 | 120 x 80 x 8 mm x 12 m | 12,40 | 148,80 |
| 312569 | 120 x 80 x 10 mm x 12 m | 15,30 | 183,60 |
| 316574 | 130 x 65 x 8 mm x 12 m | 12,10 | 145,20 |
| 312570 | 130 x 65 x 10 mm x 12 m | 14,90 | 178,80 |
| 312571 | 150 x 75 x 9 mm x 12 m | 15,60 | 187,20 |
| 316575 | 150 x 75 x 10 mm x 12 m | 17,44 | 209,28 |
| 312572 | 150 x 75 x 11 mm x 12 m | 19,00 | 228,00 |
| 312573 | 150 x 90 x 10 mm x 12 m | 18,56 | 222,72 |
| 316578 | 150 x 100 x 10 mm x 12 m | 19,40 | 232,80 |
| 312574 | 150 x 100 x 12 mm x 12 m | 23,10 | 277,20 |
| 312575 | 180 x 90 x 10 mm x 12 m | 20,96 | 251,52 |
| 312576 | 180 x 90 x 12 mm x 12 m | 24,88 | 298,56 |
| 312577 | 200 x 100 x 10 mm x 12 m | 23,50 | 282,00 |
| 312578 | 200 x 100 x 12 mm x 12 m | 27,80 | 333,60 |
| 316579 | 200 x 100 x 14 mm x 12 m | 32,23 | 386,76 |

**L-profil Grad D36
(NVD 36/VLD 36)**

Toleranser iflg. DIN 1022
Lengdetoleranse +/-100 mm
Kontrollsertifikat iflg. NS-EN 10 204-3.2
-DNVGL. MERKING: Aluminium ende

Varegruppe: 5309

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|--------------------------------|-------|--------|
| 314977 | 200 x 90 x 9 x 14 mm x 12 m | 23,29 | 279,48 |
| 314978 | 250 x 90 x 9 x 15 mm x 12 m | 28,50 | 342,00 |
| 314979 | 250 x 90 x 10,5 x 15 mm x 12 m | 30,91 | 370,92 |
| 314990 | 250 x 90 x 12 x 16 mm x 12 m | 33,70 | 404,40 |
| 314989 | 300 x 90 x 10 x 16 mm x 12 m | 34,78 | 417,36 |
| 315000 | 300 x 90 x 12 x 17 mm x 12 m | 39,88 | 478,56 |
| 322227 | 350 x 100 x 12 x 17 mm x 12 m | 45,30 | 543,60 |

T-Stål S235JR

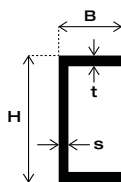
iflg. EN 10025-2
Toleranser iflg. EN 10055
Lengdetoleranse +/-100 mm
Prøverapport iflg. EN 10204-2.2 CE-merket
* MERKING: Rød ende

Varegruppe: 5360

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|--------------------------|-------|--------|
| 27242 | 30 x 30 x 4 mm x 6 m | 1,81 | 10,86 |
| 40394 | 40 x 40 x 5 mm x 6 m | 3,02 | 18,12 |
| 314887 | 50 x 50 x 6 mm x 6 m | 4,53 | 27,18 |
| 51350 | 60 x 60 x 7 mm x 12 m | 6,35 | 76,20 |
| 55210 | 70 x 70 x 8 mm x 12 m | 8,49 | 101,88 |
| 59174 | 80 x 80 x 9 mm x 12 m | 10,90 | 130,80 |
| 67414 | 100 x 100 x 11 mm x 12 m | 16,70 | 200,40 |
| 71690 | 120 x 120 x 13 mm x 12 m | 23,70 | 284,40 |
| 76070 | 140 x 140 x 15 mm x 12 m | 31,90 | 382,80 |

UNP S235JR

iflg. EN 10025-2
Toleranser iflg. DIN 1026/EN 10279
Lengdetoleranse +/-100 mm
Prøverapport iflg. EN 10204-2.2 CE-merket
* MERKING: Rød ende

**Varegruppe: 5370**

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|---------------------|------|--------|
| 62313 | NR 40 (40x35) x 6 m | 4,97 | 29,80 |
| 82912 | NR 50 (50x38) x 6 m | 5,70 | 34,20 |
| 311892 | NR 60 (60x30) x 6 m | 5,17 | 31,00 |
| 13078 | NR 65 (65x42) x 6 m | 7,20 | 43,20 |

**Flattstål S235JR
Varmforzinket**

iflg. EN 10025-2
Varmforzinket iflg. EN ISO 1461
Lengdetoleranse +/- 100 mm
Prøverapport iflg. EN 10204-2.2 CE-merket

Varegruppe: 5332

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-----------------|------|--------|
| 314884 | 25 x 3 mm x 4 m | 0,61 | 2,44 |
| 314885 | 25 x 5 mm x 4 m | 1,03 | 4,12 |

**Vinkelstål S235JR
Likebenet
Varmforzinket**

iflg. EN 10025-2
Varmforzinket iflg. EN ISO 1461
Dimensjoner iflg. EN 10056-1
Toleranser iflg. EN 10056-2
Lengdetoleranse +/-100 mm
Kontrollsertifikat iflg. EN 10204-2.2 CE-merket

Varegruppe: 5352

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------------|------|--------|
| 311855 | 40 x 40 x 5 mm x 6 m | 3,33 | 19,98 |
| 311856 | 50 x 50 x 5 mm x 6 m | 4,45 | 26,7 |
| 311857 | 50 x 50 x 6 mm x 6 m | 5,01 | 30,06 |
| 311858 | 60 x 60 x 6 mm x 6 m | 6,08 | 36,48 |

**T-stål S235JR
Varmforzinket**

iflg. EN 10025-2
Varmforzinket iflg. EN ISO 1461
Lengdetoleranse +/- 100 mm
Kontrollrapport iflg. EN 10204-2.2 CE-merket
* MERKING: Rød ende

Varegruppe: 5362

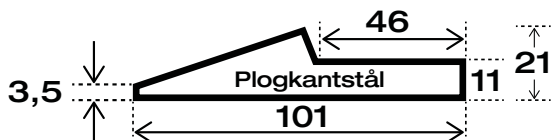
| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------------|------|--------|
| 81529 | 40 x 40 x 5 mm x 6 m | 3,12 | 18,72 |
| 316809 | 50 x 50 x 6 mm x 6 m | 4,69 | 28,14 |

Plogkantstål

Profil Nr. 101 (101x21mm)
 HB max. 245
 Kontrollsertifikat iht. EN 10204 - 3.1

Varegruppe: 5399

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-----------------------|------|--------|
| 311886 | PROFIL NR 101 x 6,1 m | 9,8 | 59,78 |



Slitekantstål

Ca. 500 HB (min 450 HB), sveisbart
 Max. retthetsavvik 2,5 mm pr. meter
 Prøverapport iflg. EN 10204-2.2
 * MERKING: Blå ende

Varegruppe: 5180

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-------------------|-------|--------|
| 312354 | 80 x 15 mm x 6 m | 9,60 | 57,60 |
| 312357 | 80 x 20 mm x 6 m | 12,80 | 76,80 |
| 312351 | 100 x 10 mm x 6 m | 8,00 | 48,00 |
| 312352 | 100 x 12 mm x 6 m | 9,60 | 57,60 |
| 312355 | 100 x 16 mm x 6 m | 12,80 | 76,80 |
| 312358 | 100 x 20 mm x 6 m | 16,00 | 96,00 |
| 312361 | 100 x 25 mm x 6 m | 20,00 | 120,00 |
| 312362 | 100 x 30 mm x 6 m | 24,00 | 144,00 |
| 312353 | 125 x 12 mm x 6 m | 12,00 | 72,00 |
| 312359 | 125 x 20 mm x 6 m | 20,00 | 120,00 |
| 312356 | 150 x 16 mm x 6 m | 19,20 | 115,20 |
| 312360 | 200 x 20 mm x 6 m | 32,00 | 192,00 |

Flate Kranskiner S355J0

iflg. EN 10025-2. To avrundede hjørner
 Kontrollrapport iflg. EN 10204 -3.1 CE-merket * MERKING: Aluminium ende

Varegruppe: 5381

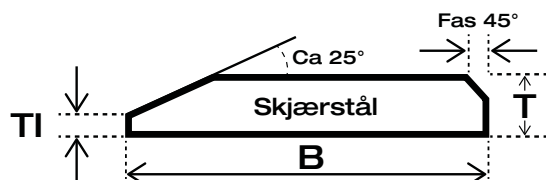
| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-------------------|-------|--------|
| 29621 | 30 x 50 mm x 12 m | 11,80 | 141,60 |
| 52813 | 40 x 60 mm x 12 m | 19,00 | 228,00 |

Skjærstål

Ca. 500 HB (min. 450 HB), sveisbart
 Max. retthetsavvik 2,5 mm pr. meter
 Med standard fas og nese i forkant,
 sveisefuge i bakkant
 Prøverapport iflg. EN 10204-2.2
 * MERKING: Brun ende

Varegruppe: 5181

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|---------------------|------|--------|
| 312363 | 150 x 16 mm x 6,1 m | 18,0 | 109,8 |
| 312364 | 200 x 20 mm x 6,1 m | 30,3 | 184,8 |
| 312365 | 200 x 25 mm x 6,1 m | 37,5 | 228,8 |
| 312366 | 250 x 25 mm x 6,1 m | 47,5 | 289,8 |
| 312367 | 250 x 30 mm x 6,1 m | 56,3 | 343,4 |
| 312368 | 290 x 40 mm x 4,4 m | 87,1 | 383,2 |



Kranskiner

iflg. DIN 536 blad 1
 Strekkfasthet min.690N/mm²
 Levert med rettvinklede ender
 Lengdetoleranse +/-50mm
 Kontrollsertifikat iflg. EN 10204 - 3.1

Varegruppe: 5380

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|--------------|--------|---------|
| 312069 | A 45 x 12 m | 22,70 | 272,40 |
| 312070 | A 55 x 12 m | 32,70 | 392,40 |
| 312071 | A 65 x 12 m | 44,40 | 532,80 |
| 312072 | A 75 x 12 m | 57,80 | 693,60 |
| 312073 | A 100 x 12 m | 76,70 | 920,40 |
| 312074 | A 120 x 12 m | 103,40 | 1240,80 |

3 Bjelker og formstål, varmvalset

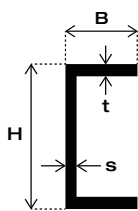
| | |
|----------------------------------|----|
| UNP S235JR | 26 |
| UNP S355J2 | 26 |
| UNP S355G11+N/+M | 26 |
| UPE S355J2..... | 27 |
| IPE S355J2..... | 27 |
| IPE S355G11+N/+M | 28 |
| HEA S355J2 | 28 |
| HEA S355G11+N/+M..... | 30 |
| HEB S355J2 | 30 |
| HEB S355G11+N/+M | 31 |
| UNP S235JR - Varmforzinket | 33 |
| HEB S355J2 - Varmforzinket..... | 33 |

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3 Bjelker og formstål, varmvalset

UNP S235JR

iflg. EN 10025-2
Toleranser iflg. DIN 1026/EN 10279
Lengdetoleranse -0/+100 mm
Kontrollsertifikat iflg. EN 10204-2.2 CE-merket
* MERKING: Rød ende

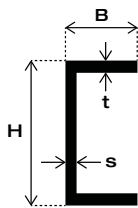


Varegruppe: 5270

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------|-------|--------|
| 311893 | UNP 80 x 6 m | 8,81 | 52,90 |
| 70422 | UNP 80 x 12 m | 8,81 | 105,70 |
| 311894 | UNP 100 x 6 m | 10,80 | 64,80 |
| 21503 | UNP 100 x 12 m | 10,80 | 129,60 |
| 311895 | UNP 120 x 6 m | 13,70 | 82,20 |
| 64151 | UNP 120 x 12 m | 13,70 | 164,40 |
| 18368 | UNP 140 x 12 m | 16,30 | 195,60 |

UNP S355J2

iflg. EN 10025-2
Toleranser iflg. DIN 1026/EN 10279
Lengdetoleranse -0/+100 mm
Kontrollsertifikat iflg. EN 10204-3.1 CE-merket
* MERKING: Aluminium ende.



Varegruppe: 5276

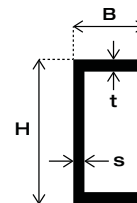
| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------|-------|--------|
| 311896 | UNP 80 x 12 m | 8,81 | 105,70 |
| 311897 | UNP 100 x 12 m | 10,80 | 129,60 |
| 311898 | UNP 120 x 12 m | 13,70 | 164,40 |
| 311899 | UNP 140 x 12 m | 16,30 | 195,60 |
| 311900 | UNP 160 x 12 m | 19,20 | 230,40 |
| 311901 | UNP 180 x 12 m | 22,40 | 268,80 |
| 311902 | UNP 200 x 12 m | 25,80 | 309,60 |
| 311903 | UNP 220 x 12 m | 30,00 | 360,00 |
| 311904 | UNP 240 x 12 m | 33,90 | 406,80 |
| 311905 | UNP 260 x 12 m | 38,70 | 464,40 |
| 311906 | UNP 280 x 12 m | 42,60 | 511,20 |
| 311907 | UNP 300 x 12 m | 47,10 | 565,20 |
| 311908 | UNP 320 x 12 m | 61,00 | 732,00 |
| 311909 | UNP 350 x 12 m | 62,40 | 748,80 |
| 311910 | UNP 400 x 12 m | 73,20 | 878,40 |

UNP

| Betegnelse UNP | Mål i mm | | | | Tverrsnitt cm ² | Overflate m ² /m |
|----------------|----------|-----|-----|------|----------------------------|-----------------------------|
| | h | b | s | t | | |
| 30 | 30 | 33 | 5 | 7 | 5,44 | 0,174 |
| 40 | 40 | 35 | 5 | 7 | 6,21 | 0,199 |
| 50 | 50 | 38 | 5 | 7 | 7,12 | 0,232 |
| 60 | 60 | 30 | 6 | 6 | 6,46 | 0,215 |
| 65 | 65 | 42 | 5,5 | 7,5 | 9,03 | 0,273 |
| 80 | 80 | 45 | 6 | 8 | 11,00 | 0,312 |
| 100 | 100 | 50 | 6 | 8,5 | 13,50 | 0,372 |
| 120 | 120 | 55 | 7 | 9 | 17,00 | 0,434 |
| 140 | 140 | 60 | 7 | 10 | 20,40 | 0,489 |
| 160 | 160 | 65 | 7 | 10,5 | 24,00 | 0,546 |
| 180 | 180 | 70 | 8 | 11 | 28,00 | 0,611 |
| 200 | 200 | 75 | 8,5 | 11,5 | 32,20 | 0,661 |
| 220 | 220 | 80 | 9 | 12,5 | 37,40 | 0,718 |
| 240 | 240 | 85 | 9,5 | 13 | 42,30 | 0,775 |
| 260 | 260 | 90 | 10 | 14 | 48,30 | 0,834 |
| 280 | 280 | 95 | 10 | 15 | 53,30 | 0,89 |
| 300 | 300 | 100 | 10 | 16 | 58,80 | 0,95 |
| 320 | 320 | 100 | 14 | 17,5 | 75,80 | 0,982 |
| 350 | 350 | 100 | 14 | 16 | 77,30 | 1,05 |
| 400 | 400 | 110 | 14 | 18 | 91,50 | 1,18 |

UNP S355G11+N/+M

iflg. EN 10225:2009. NORSOK M-120 Edition 5, November 2008 MDS - Y26 Rev. 5
Overflatetilstand iflg. EN 10163-3 Class C, sub-class 1. Toleranser iflg. EN 10034
Lengdetoleranse -0/+100 mm
Kontrollsertifikat iflg. EN 10204 3.1
* MERKING: iflg. EN 10225 + Aluminium ende + blå strek

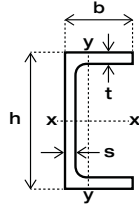


Varegruppe: 5273

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------|-------|--------|
| 312459 | UNP 100 x 12 m | 10,80 | 129,60 |
| 312460 | UNP 120 x 12 m | 13,70 | 164,40 |
| 312461 | UNP 140 x 12 m | 16,30 | 195,60 |
| 312462 | UNP 160 x 12 m | 19,20 | 230,40 |
| 312463 | UNP 180 x 12 m | 22,40 | 268,80 |
| 312464 | UNP 200 x 12 m | 25,80 | 309,60 |
| 312465 | UNP 220 x 12 m | 30,00 | 360,00 |
| 312466 | UNP 240 x 12 m | 33,90 | 406,80 |
| 312467 | UNP 260 x 12 m | 38,70 | 464,40 |
| 312469 | UNP 300 x 12 m | 47,10 | 565,20 |
| 312470 | UNP 350 x 12 m | 61,80 | 741,60 |
| 312471 | UNP 400 x 12 m | 73,20 | 878,40 |

UPE S355J2

iflg. EN 10025. Toleranser iflg. DIN 1026/EN 10279. Lengdetoleranse -0/+100 mm
Kontrollsertifikat iflg. EN 10204-3.1 CE-merket * MERKING: Aluminium ende



Varegruppe: 5262

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------|-------|--------|
| 334012 | UPE 80 x 12 m | 8,10 | 97,20 |
| 334013 | UPE 100 x 12 m | 10,10 | 121,20 |
| 25095 | UPE 120 x 12 m | 12,40 | 148,80 |
| 68044 | UPE 140 x 12 m | 14,80 | 177,60 |
| 67087 | UPE 160 x 12 m | 17,30 | 207,60 |
| 90147 | UPE 180 x 12 m | 20,10 | 241,20 |
| 22513 | UPE 200 x 12 m | 23,30 | 279,60 |
| 66947 | UPE 200 x 15 m | 23,30 | 349,50 |
| 68029 | UPE 220 x 12 m | 27,10 | 325,20 |
| 334014 | UPE 220 x 15 m | 27,10 | 406,50 |
| 91180 | UPE 240 x 12 m | 30,80 | 369,60 |
| 55282 | UPE 240 x 15 m | 30,80 | 462,00 |
| 18555 | UPE 270 x 12 m | 35,90 | 430,80 |
| 12770 | UPE 270 x 15 m | 35,90 | 538,50 |
| 73731 | UPE 300 x 12 m | 45,30 | 543,60 |
| 45809 | UPE 300 x 15 m | 45,30 | 679,50 |
| 90381 | UPE 330 x 12 m | 54,40 | 652,80 |
| 334015 | UPE 330 x 15 m | 54,40 | 816,00 |
| 43349 | UPE 360 x 12 m | 62,40 | 748,80 |
| 58303 | UPE 400 x 12 m | 73,80 | 885,60 |

UPE

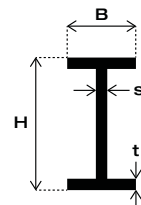
| Betegnelse UPE | Mål i mm | | | | Tverrsnitt cm ² | Overflate m ² /m |
|----------------|----------|-----|------|------|----------------------------|-----------------------------|
| | h | b | s | t | | |
| 80 | 80 | 50 | 4,0 | 7,0 | 1 010 | 0,34 |
| 100 | 100 | 55 | 4,5 | 7,5 | 1 250 | 0,40 |
| 120 | 120 | 60 | 5,0 | 8,0 | 1 540 | 0,46 |
| 140 | 140 | 65 | 5,0 | 9,0 | 1 040 | 0,51 |
| 160 | 160 | 70 | 5,5 | 9,5 | 2 170 | 0,57 |
| 180 | 180 | 75 | 5,5 | 10,5 | 2 510 | 0,63 |
| 200 | 200 | 80 | 6,0 | 11,0 | 2 900 | 0,69 |
| 220 | 220 | 85 | 6,5 | 12,0 | 3 390 | 0,75 |
| 240 | 240 | 90 | 7,0 | 12,5 | 3 850 | 0,81 |
| 270 | 270 | 95 | 7,5 | 13,5 | 4 480 | 0,88 |
| 300 | 300 | 100 | 9,5 | 15,0 | 5 650 | 0,96 |
| 330 | 330 | 105 | 11,0 | 16,0 | 6 770 | 1,04 |
| 360 | 360 | 110 | 12,0 | 17,0 | 7 780 | 1,12 |
| 400 | 400 | 115 | 13,5 | 18,0 | 9 180 | 1,21 |

IPE

| Betegnelse IPE | Mål i mm | | | | Tverrsnitt cm ² | Overflate m ² /m |
|----------------|----------|-----|------|------|----------------------------|-----------------------------|
| | h | b | s | t | | |
| 80 | 80 | 46 | 3,8 | 5,2 | 7,64 | 0,328 |
| 100 | 100 | 55 | 4,1 | 5,7 | 10,3 | 0,400 |
| 120 | 120 | 64 | 4,4 | 6,3 | 13,2 | 0,475 |
| 140 | 140 | 73 | 4,7 | 6,9 | 16,4 | 0,551 |
| 160 | 160 | 82 | 5,0 | 7,4 | 20,1 | 0,623 |
| 180 | 180 | 91 | 5,3 | 8,0 | 23,9 | 0,698 |
| 200 | 200 | 100 | 5,6 | 8,5 | 28,5 | 0,768 |
| 220 | 220 | 110 | 5,9 | 9,2 | 33,4 | 0,848 |
| 240 | 240 | 120 | 6,2 | 9,8 | 39,1 | 0,922 |
| 270 | 270 | 135 | 6,6 | 10,2 | 45,9 | 1,04 |
| 300 | 300 | 150 | 7,1 | 10,7 | 53,8 | 1,16 |
| 330 | 330 | 160 | 7,5 | 11,5 | 62,6 | 1,25 |
| 360 | 360 | 170 | 8,0 | 12,7 | 72,7 | 1,35 |
| 400 | 400 | 180 | 8,6 | 13,5 | 84,5 | 1,47 |
| 450 | 450 | 190 | 9,4 | 14,6 | 98,8 | 1,61 |
| 500 | 500 | 200 | 10,2 | 16,0 | 116 | 1,74 |
| 550 | 550 | 210 | 11,1 | 17,2 | 134 | 1,88 |
| 600 | 600 | 220 | 12,0 | 19,0 | 156 | 2,01 |

IPE S355J2

iflg. EN 10025-2. Norsok M120 - Y05:
Verdier i kontrolldokumentet må sjekkes
Toleranser iflg. EN 10034
Lengdetoleranse -0/+100 mm
Kontrollsertifikat iht. EN 10204-3.1 CE-merket
* MERKING: Aluminium ende



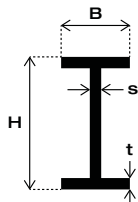
Varegruppe: 5243

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------|-------|--------|
| 311939 | IPE 80 x 12 m | 6,12 | 73,40 |
| 311940 | IPE 100 x 12 m | 8,26 | 99,10 |
| 311941 | IPE 120 x 12 m | 10,60 | 127,20 |
| 311942 | IPE 140 x 12 m | 13,20 | 158,40 |
| 311943 | IPE 140 x 15 m | 13,20 | 198,00 |
| 185604 | IPE 160 x 12 m | 16,10 | 193,20 |
| 185605 | IPE 160 x 15 m | 16,10 | 241,50 |
| 185607 | IPE 180 x 12 m | 19,20 | 230,40 |
| 185608 | IPE 180 x 15 m | 19,20 | 288,00 |
| 185610 | IPE 200 x 12 m | 22,90 | 274,80 |
| 185611 | IPE 200 x 15 m | 22,90 | 343,50 |
| 334019 | IPE 200 x 18 m | 22,90 | 412,20 |
| 185613 | IPE 220 x 12 m | 26,70 | 320,40 |
| 185614 | IPE 220 x 15 m | 26,70 | 400,50 |
| 334020 | IPE 220 x 18 m | 26,70 | 480,60 |
| 185618 | IPE 240 x 12 m | 31,30 | 375,60 |
| 185619 | IPE 240 x 15 m | 31,30 | 469,50 |

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------|--------|---------|
| 334021 | IPE 240 x 18 m | 31,30 | 563,40 |
| 185621 | IPE 270 x 12 m | 36,80 | 441,60 |
| 185622 | IPE 270 x 15 m | 36,80 | 552,00 |
| 334022 | IPE 270 x 18 m | 36,80 | 662,40 |
| 133261 | IPE 300 x 12 m | 43,00 | 516,00 |
| 185626 | IPE 300 x 15 m | 43,00 | 645,00 |
| 334023 | IPE 300 x 18 m | 43,00 | 774,00 |
| 133272 | IPE 330 x 12 m | 50,10 | 601,20 |
| 185628 | IPE 330 x 15 m | 50,10 | 751,50 |
| 334024 | IPE 330 x 18 m | 50,10 | 901,80 |
| 133273 | IPE 360 x 12 m | 58,20 | 698,40 |
| 185630 | IPE 360 x 15 m | 58,20 | 873,00 |
| 133274 | IPE 400 x 12 m | 67,60 | 811,20 |
| 185632 | IPE 400 x 15 m | 67,60 | 1014,00 |
| 334025 | IPE 400 x 18 m | 67,60 | 1216,80 |
| 133275 | IPE 450 x 12 m | 79,20 | 950,40 |
| 334026 | IPE 450 x 15 m | 79,20 | 1188,00 |
| 334027 | IPE 450 x 18 m | 79,20 | 1425,60 |
| 133278 | IPE 500 x 12 m | 92,50 | 1110,00 |
| 155549 | IPE 500 x 15 m | 92,50 | 1387,50 |
| 334028 | IPE 500 x 18 m | 92,50 | 1665,00 |
| 311951 | IPE 550 x 12 m | 108,10 | 1297,20 |
| 133282 | IPE 600 x 12 m | 124,40 | 1492,80 |

IPE S355G11+N/+M

iflg. EN 10225:2009
 NORSOK M-120 Edition 5, November 2008
 MDS - Y26 Rev. 5. Overflatetilstand iflg. EN 10163 Class C, sub-class 1
 Option 13 iht. EN 10225 (Z-test) er ikke lagerført. Toleranser iflg. EN 10034
 Lengdetoleranse -0/+100 mm
 Kontrollsertifikat iflg. EN 10204-3.1
 * MERKING: iflg. EN 10225 + Aluminium ende + blå strek



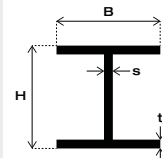
Varegruppe: 5244

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------|-------|--------|
| 312473 | IPE 120 x 12 m | 10,60 | 127,20 |
| 312474 | IPE 140 x 12 m | 13,20 | 158,40 |
| 312475 | IPE 160 x 12 m | 16,10 | 193,20 |
| 312476 | IPE 180 x 12 m | 19,20 | 230,40 |
| 312477 | IPE 200 x 12 m | 22,80 | 273,60 |
| 312478 | IPE 220 x 12 m | 26,70 | 320,40 |
| 312479 | IPE 240 x 12 m | 31,30 | 375,60 |
| 312480 | IPE 270 x 12 m | 36,80 | 441,60 |
| 312481 | IPE 300 x 12 m | 43,00 | 516,00 |
| 312482 | IPE 330 x 12 m | 50,10 | 601,20 |

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------|--------|---------|
| 312483 | IPE 360 x 12 m | 58,20 | 698,40 |
| 312484 | IPE 400 x 12 m | 67,60 | 811,20 |
| 312485 | IPE 450 x 12 m | 79,20 | 950,40 |
| 312486 | IPE 500 x 12 m | 92,50 | 1110,00 |
| 312487 | IPE 600 x 12 m | 124,40 | 1492,80 |

HEA S355J2

iflg. EN 10025-2
 Norsok M120 - Y05: Verdier i kontrolldokumentet må sjekkes
 Toleranser iflg. EN 10034
 Lengdetoleranse -0/+100 mm
 Kontrollsertifikat iflg. EN 10204 - 3.1 CE-merket
 * MERKING: Aluminium ende



Varegruppe: 5213

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------|-------|---------|
| 150636 | HEA 100 x 12 m | 17,00 | 204,00 |
| 185382 | HEA 100 x 15 m | 17,00 | 255,00 |
| 132867 | HEA 120 x 12 m | 20,30 | 243,60 |
| 334029 | HEA 120 x 15 m | 20,30 | 304,50 |
| 334030 | HEA 140 x 10 m | 25,20 | 252,00 |
| 132868 | HEA 140 x 12 m | 25,20 | 302,40 |
| 185388 | HEA 140 x 15 m | 25,20 | 378,00 |
| 334031 | HEA 140 x 18 m | 25,20 | 453,60 |
| 334032 | HEA 160 x 10 m | 31,00 | 310,00 |
| 150635 | HEA 160 x 12 m | 31,00 | 372,00 |
| 185392 | HEA 160 x 15 m | 31,00 | 465,00 |
| 334033 | HEA 160 x 18 m | 31,00 | 558,00 |
| 334034 | HEA 180 x 10 m | 36,20 | 362,00 |
| 132892 | HEA 180 x 12 m | 36,20 | 434,40 |
| 185398 | HEA 180 x 15 m | 36,20 | 543,00 |
| 334035 | HEA 180 x 18 m | 36,20 | 651,60 |
| 334036 | HEA 200 x 10 m | 43,10 | 431,00 |
| 132893 | HEA 200 x 12 m | 43,10 | 517,20 |
| 185413 | HEA 200 x 15 m | 43,10 | 646,50 |
| 334037 | HEA 200 x 18 m | 43,10 | 775,80 |
| 334038 | HEA 220 x 10 m | 51,50 | 515,00 |
| 185415 | HEA 220 x 12 m | 51,50 | 618,00 |
| 185418 | HEA 220 x 15 m | 51,50 | 772,50 |
| 334039 | HEA 220 x 18 m | 51,50 | 927,00 |
| 132894 | HEA 240 x 12 m | 61,50 | 738,00 |
| 185422 | HEA 240 x 15 m | 61,50 | 922,50 |
| 334040 | HEA 240 x 18 m | 61,50 | 1107,00 |
| 132895 | HEA 260 x 12 m | 69,60 | 835,20 |
| 185427 | HEA 260 x 15 m | 69,60 | 1044,00 |
| 334041 | HEA 260 x 18 m | 69,60 | 1252,80 |
| 132896 | HEA 280 x 12 m | 77,90 | 934,80 |
| 185432 | HEA 280 x 15 m | 77,90 | 1168,50 |

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------|--------|----------|
| 334042 | HEA 280 x 18 m | 77,90 | 1402,20 |
| 135306 | HEA 300 x 12 m | 90,10 | 1081,20 |
| 185437 | HEA 300 x 15 m | 90,10 | 1351,50 |
| 334043 | HEA 300 x 18 m | 90,10 | 1621,80 |
| 147213 | HEA 320 x 12 m | 99,60 | 1195,20 |
| 185440 | HEA 320 x 15 m | 99,60 | 1494,00 |
| 334044 | HEA 320 x 18 m | 99,60 | 1792,80 |
| 132897 | HEA 340 x 12 m | 107,10 | 1285,20 |
| 334045 | HEA 340 x 15 m | 107,10 | 1606,50 |
| 334046 | HEA 340 x 18 m | 107,10 | 1927,80 |
| 132898 | HEA 360 x 12 m | 114,20 | 1370,40 |
| 185447 | HEA 360 x 15 m | 114,20 | 1713,00 |
| 334047 | HEA 360 x 18 m | 114,20 | 2055,60 |
| 132899 | HEA 400 x 12 m | 127,50 | 1530,00 |
| 185450 | HEA 400 x 15 m | 127,50 | 1912,50 |
| 334048 | HEA 400 x 18 m | 127,50 | 2295,00 |
| 132900 | HEA 450 x 12 m | 142,80 | 1713,60 |
| 334049 | HEA 450 x 15 m | 142,80 | 2142,00 |
| 334050 | HEA 450 x 18 m | 142,80 | 2570,40 |
| 132901 | HEA 500 x 12 m | 158,10 | 1897,20 |
| 334051 | HEA 500 x 15 m | 158,10 | 2371,50 |
| 334052 | HEA 500 x 18 m | 158,10 | 2845,80 |
| 132903 | HEA 600 x 12 m | 181,60 | 21792,00 |

| HEA | | | | | | |
|-------------------|----------|-----|------|------|-------------------------------|--------------------------------|
| Betegnelse HEA | Mål i mm | | | | Tverrsnitt cm ² | Overflate m ² /m |
| | h | b | s | t | | |
| 100 | 96 | 100 | 5,0 | 8,0 | 21,2 | 0,561 |
| 120 | 114 | 120 | 5,0 | 8,0 | 25,3 | 0,677 |
| 140 | 133 | 140 | 5,5 | 8,5 | 31,4 | 0,794 |
| 160 | 152 | 160 | 6,0 | 9,0 | 38,8 | 0,906 |
| 180 | 171 | 180 | 6,0 | 9,5 | 45,3 | 1,020 |
| 200 | 190 | 200 | 6,5 | 10,0 | 53,8 | 1,14 |
| 220 | 210 | 220 | 7,0 | 11,0 | 64,3 | 1,26 |
| 240 | 230 | 240 | 7,5 | 12,0 | 76,8 | 1,37 |
| 260 | 250 | 260 | 7,5 | 12,5 | 86,8 | 1,48 |
| 280 | 270 | 280 | 8,0 | 13,0 | 97,3 | 1,60 |
| 300 | 290 | 300 | 8,5 | 14,0 | 112 | 1,72 |
| 320 | 310 | 300 | 9,0 | 15,5 | 124 | 1,76 |
| 340 | 330 | 300 | 9,5 | 16,5 | 133 | 1,79 |
| 360 | 350 | 300 | 10,0 | 17,5 | 143 | 1,83 |
| 400 | 390 | 300 | 11,0 | 19,0 | 159 | 1,91 |
| 450 | 440 | 300 | 11,5 | 21,0 | 178 | 2,01 |
| 500 | 490 | 300 | 12,0 | 23,0 | 198 | 2,11 |
| 550 | 540 | 300 | 12,5 | 24,0 | 212 | 2,21 |
| 600 | 590 | 300 | 13 | 25,0 | 226 | 2,31 |
| 650 | 640 | 300 | 13,5 | 26,0 | 242 | 2,41 |
| 700 | 690 | 300 | 14,5 | 27,0 | 260 | 2,50 |
| 800 | 790 | 300 | 15 | 28,0 | 286 | 2,70 |
| 900 | 890 | 300 | 16 | 30,0 | 320 | 2,90 |
| 1000 | 990 | 300 | 16,5 | 31,0 | 347 | 3,10 |

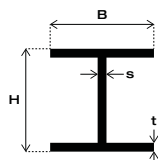
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HEA S355G11+N/+M

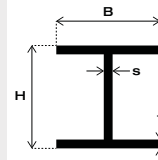
iflg. EN 10225:2009
 NORSOK M-120 Edition 5, November 2008
 MDS - Y26 Rev. 5
 Overflatetilstand iflg. EN 10163 Class C,
 sub-class 1. Option 13 iht. EN 10225 (Z-test)
 er ikke lagerført
 Toleranser iflg. EN 10034
 Lengdetoleranse -0/+100 mm
 Kontrollsertifikat iflg. EN 10204-3.1
 * MERKING: iflg. EN 10225 + Aluminium
 ende + blå strek

**Varegruppe: 5214**

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-----------------|--------|---------|
| 312488 | HEA 100 x 12 m | 17,00 | 204,00 |
| 312489 | HEA 120 x 12 m | 20,30 | 243,60 |
| 312490 | HEA 140 x 12 m | 25,20 | 302,40 |
| 312491 | HEA 160 x 12 m | 31,00 | 372,00 |
| 312492 | HEA 180 x 12 m | 36,20 | 434,40 |
| 312493 | HEA 200 x 12 m | 43,10 | 517,20 |
| 312494 | HEA 220 x 12 m | 51,50 | 618,00 |
| 312495 | HEA 240 x 12 m | 61,50 | 738,00 |
| 312496 | HEA 260 x 12 m | 69,60 | 835,20 |
| 312497 | HEA 280 x 12 m | 77,90 | 934,80 |
| 312498 | HEA 300 x 12 m | 90,10 | 1081,20 |
| 326255 | HEA 340 x 12 m | 107,10 | 1285,20 |
| 312499 | HEA 360 x 12 m | 114,20 | 1370,40 |
| 312500 | HEA 400 x 12 m | 127,50 | 1530,00 |
| 312502 | HEA 500 x 12 m | 158,10 | 1897,20 |
| 312503 | HEA 600 x 12 m | 181,60 | 2179,20 |
| 312504 | HEA 700 x 12 m | 209,00 | 2508,00 |
| 312505 | HEA 800 x 12 m | 228,50 | 2742,00 |
| 312506 | HEA 1000 x 12 m | 277,00 | 3324,00 |

HEB S355J2

iflg. EN 10025-2. Norsok M120 - Y05:
 Verdier i kontrolldokumentet må sjekkes
 Toleranser iflg. EN 10034
 Lengdetoleranse -0/+100 mm
 Kontrollsertifikat iht. EN 10204-3.1 CE-
 merket
 * MERKING: Aluminium ende

**Varegruppe: 5223**

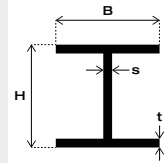
| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------|--------|---------|
| 185474 | HEB 100 x 12 m | 20,80 | 249,60 |
| 334053 | HEB 100 x 15 m | 20,80 | 312,00 |
| 185476 | HEB 120 x 12 m | 27,20 | 326,40 |
| 185478 | HEB 120 x 15 m | 27,20 | 408,00 |
| 185480 | HEB 140 x 12 m | 34,40 | 412,80 |
| 185485 | HEB 140 x 15 m | 34,40 | 516,00 |
| 135307 | HEB 160 x 12 m | 43,50 | 522,00 |
| 185488 | HEB 160 x 15 m | 43,50 | 652,50 |
| 133484 | HEB 180 x 12 m | 52,20 | 626,40 |
| 185491 | HEB 180 x 15 m | 52,20 | 783,00 |
| 185493 | HEB 200 x 12 m | 62,50 | 750,00 |
| 185494 | HEB 200 x 15 m | 62,50 | 937,50 |
| 185497 | HEB 220 x 12 m | 72,90 | 874,80 |
| 185498 | HEB 220 x 15 m | 72,90 | 1093,50 |
| 133234 | HEB 240 x 12 m | 84,90 | 1018,80 |
| 185504 | HEB 240 x 15 m | 84,90 | 1273,50 |
| 133235 | HEB 260 x 12 m | 94,90 | 1138,80 |
| 185507 | HEB 260 x 15 m | 94,90 | 1423,50 |
| 304054 | HEB 260 x 18 m | 94,90 | 1708,20 |
| 150671 | HEB 280 x 12 m | 105,10 | 1261,20 |
| 185410 | HEB 280 x 15 m | 105,10 | 1576,50 |
| 334126 | HEB 280 x 18 m | 105,10 | 1891,80 |
| 135308 | HEB 300 x 12 m | 119,30 | 1431,60 |
| 185574 | HEB 300 x 15 m | 119,30 | 1789,50 |
| 334055 | HEB 300 x 18 m | 119,30 | 2147,40 |
| 185576 | HEB 320 x 12 m | 129,50 | 1554,00 |
| 185578 | HEB 320 x 15 m | 129,00 | 1942,50 |
| 334056 | HEB 320 x 18 m | 129,00 | 2322,00 |
| 133236 | HEB 340 x 12 m | 136,70 | 1640,40 |
| 185580 | HEB 340 x 15 m | 136,70 | 2050,50 |
| 133238 | HEB 360 x 12 m | 144,80 | 1737,60 |
| 185581 | HEB 360 x 15 m | 144,80 | 2172,00 |
| 133239 | HEB 400 x 12 m | 158,10 | 1897,20 |
| 185582 | HEB 400 x 15 m | 158,10 | 2371,50 |
| 334057 | HEB 400 x 18 m | 158,10 | 2845,80 |
| 133240 | HEB 450 x 12 m | 174,40 | 2092,80 |
| 185583 | HEB 450 x 15 m | 174,40 | 2616,00 |
| 133241 | HEB 500 x 12 m | 190,70 | 2288,40 |
| 185586 | HEB 500 x 15 m | 190,70 | 2860,50 |
| 311924 | HEB 600 x 12 m | 216,20 | 2594,40 |

HEB

| Betegnelse HEB | Mål i mm | | | | Tverrsnitt cm ² | Overflate m ² /m |
|-------------------|----------|-----|------|------|-------------------------------|--------------------------------|
| | h | b | s | t | | |
| 100 | 100 | 100 | 6,0 | 10,0 | 26 | 0,567 |
| 120 | 120 | 120 | 6,5 | 11,0 | 34 | 0,686 |
| 140 | 140 | 140 | 7,0 | 12,0 | 43 | 0,805 |
| 160 | 160 | 160 | 8,0 | 13,0 | 54,3 | 0,918 |
| 180 | 180 | 180 | 8,5 | 14,0 | 65,3 | 1,04 |
| 200 | 200 | 200 | 9,0 | 15,0 | 78,1 | 1,15 |
| 220 | 220 | 220 | 9,5 | 16,0 | 91 | 1,27 |
| 240 | 240 | 240 | 10,0 | 17,0 | 106 | 1,38 |
| 260 | 260 | 260 | 10,0 | 17,5 | 118 | 1,50 |
| 280 | 280 | 280 | 10,5 | 18,0 | 131 | 1,62 |
| 300 | 300 | 300 | 11,0 | 19,0 | 149 | 1,73 |
| 320 | 320 | 300 | 11,5 | 20,5 | 161 | 1,77 |
| 340 | 340 | 300 | 12,0 | 21,5 | 171 | 1,81 |
| 360 | 360 | 300 | 12,5 | 22,5 | 181 | 1,85 |
| 400 | 400 | 300 | 13,5 | 24,0 | 198 | 1,93 |
| 450 | 450 | 300 | 14,0 | 26,0 | 218 | 2,03 |
| 500 | 500 | 300 | 14,5 | 28,0 | 239 | 2,12 |
| 550 | 550 | 300 | 15,0 | 29,0 | 254 | 2,22 |
| 600 | 600 | 300 | 15,5 | 30,0 | 270 | 2,32 |
| 650 | 650 | 300 | 16,0 | 31,0 | 286 | 2,42 |
| 700 | 700 | 300 | 17,0 | 32,0 | 306 | 2,52 |
| 800 | 800 | 300 | 17,5 | 33,0 | 334 | 2,71 |
| 900 | 900 | 300 | 18,5 | 35,0 | 371 | 2,91 |
| 1000 | 1000 | 300 | 19,0 | 36,0 | 400 | 3,11 |

HEB S355G11+N/+M

iflg. EN 10225:2009
 NORSOK M-120 Edition 5, November 2008
 MDS - Y26 rev. 5. Overflatetilstand iflg. EN
 10163-3 Class C, sub-class 1
 Option 13 iht. EN 10225 (Z-test) er ikke
 lagerført. Toleranser iflg. EN 10034
 Lengdetoleranse -0/+100 mm
 Kontrollsertifikat iflg. EN 10204-3.1
 * MERKING: iflg. EN 10225 + Aluminium
 ende + blå strek

**Varegruppe: 5224**

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------|--------|---------|
| 312507 | HEB 100 x 12 m | 20,80 | 249,60 |
| 312508 | HEB 120 x 12 m | 27,20 | 326,40 |
| 312509 | HEB 140 x 12 m | 34,40 | 412,80 |
| 312510 | HEB 160 x 12 m | 43,50 | 522,00 |
| 312511 | HEB 180 x 12 m | 52,20 | 626,40 |
| 312512 | HEB 200 x 12 m | 62,50 | 750,00 |
| 312513 | HEB 220 x 12 m | 72,90 | 874,80 |
| 312514 | HEB 240 x 12 m | 84,90 | 1018,80 |
| 312515 | HEB 260 x 12 m | 94,90 | 1138,80 |
| 312516 | HEB 280 x 12 m | 105,10 | 1261,20 |
| 312517 | HEB 300 x 12 m | 119,30 | 1431,60 |
| 312518 | HEB 320 x 12 m | 129,50 | 1554,00 |

(forts.) -->


NORSK STÅL

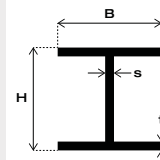

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Automatisk kantsliping av profiler

www.norskstaal.no

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-----------------|--------|---------|
| 312519 | HEB 340 x 12 m | 136,70 | 1640,40 |
| 312520 | HEB 360 x 12 m | 144,80 | 1737,60 |
| 312521 | HEB 400 x 12 m | 158,10 | 1897,20 |
| 312522 | HEB 450 x 12 m | 174,40 | 2092,80 |
| 312523 | HEB 500 x 12 m | 190,70 | 2288,40 |
| 312524 | HEB 550 x 12 m | 203,00 | 2436,00 |
| 312525 | HEB 600 x 12 m | 216,20 | 2594,40 |
| 312526 | HEB 650 x 12 m | 229,50 | 2754,00 |
| 312527 | HEB 700 x 12 m | 245,80 | 2949,60 |
| 312528 | HEB 800 x 12 m | 267,20 | 3206,40 |
| 312529 | HEB 1000 x 12 m | 320,30 | 3843,60 |

HEB S355J2 Varmforzinket



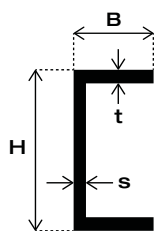
iflg. EN 10025-2
Toleranser iflg. EN 10034
Lengdetoleranse -0/+100 mm
Varmforzinket iflg. EN ISO 1461
Kontrollsertifikat iht. EN 10204-3.1 CE-merket

Varegruppe: 5227

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------|-------|--------|
| 320323 | HEB 100 x 12 m | 21,52 | 258,24 |
| 320324 | HEB 100 x 14 m | 21,52 | 301,28 |
| 320325 | HEB 100 x 15 m | 21,52 | 322,80 |

UNP S235JR Varmforzinket

iflg. EN 10025-2
Varmforzinket iflg. EN ISO 1461
Toleranser iflg. EN 10034
Lengdetoleranse -0/+100 mm
Prøverapport iflg. EN 10204-2.2 CE-merket



Varegruppe: 5275

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|--------------|------|--------|
| 312075 | UNP 80 x 6 m | 9,43 | 56,58 |

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4 Hulprofiler og rør

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4 Hulprofiler

KF HUP S355J2 Kvadratiske



Deler av programmet lagerføres i
S355J2H / S420MH. Iflg. EN 10219-1
Slagseighetstestet ved -20 gr. C for
godstykkelse > 6 mm
Toleranser iflg. EN 10219-2
Lengdetoleranse -0/+50 mm.
Kontrollsertifikat iflg. EN 10204 - 3.1 CE-
merket
* MERKING: Aluminium ende

Varegruppe: 5531

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|---------------------------|-------|--------|
| 312767 | 30 x 30 x 3,0 mm x 6 m | 2,43 | 14,58 |
| 312768 | 40 x 40 x 3,0 mm x 6 m | 3,38 | 20,28 |
| 312769 | 40 x 40 x 4,0 mm x 6 m | 4,30 | 25,80 |
| 312770 | 50 x 50 x 3,0 mm x 6 m | 4,35 | 26,10 |
| 312771 | 50 x 50 x 4,0 mm x 6 m | 5,58 | 33,48 |
| 312772 | 50 x 50 x 4,0 mm x 12 m | 5,58 | 66,96 |
| 312773 | 50 x 50 x 5,0 mm x 6 m | 6,54 | 39,24 |
| 312774 | 50 x 50 x 5,0 mm x 12 m | 6,54 | 78,48 |
| 312775 | 60 x 60 x 3,0 mm x 6 m | 5,32 | 31,92 |
| 312776 | 60 x 60 x 3,0 mm x 12 m | 5,32 | 63,84 |
| 312777 | 60 x 60 x 4,0 mm x 6 m | 6,87 | 41,22 |
| 312778 | 60 x 60 x 4,0 mm x 12 m | 6,87 | 82,44 |
| 312779 | 60 x 60 x 5,0 mm x 6 m | 8,15 | 48,90 |
| 312780 | 60 x 60 x 5,0 mm x 12 m | 8,15 | 97,80 |
| 312781 | 70 x 70 x 3,0 mm x 6 m | 6,28 | 37,68 |
| 312782 | 70 x 70 x 4,0 mm x 6 m | 8,16 | 48,96 |
| 312783 | 70 x 70 x 4,0 mm x 12 m | 8,16 | 97,92 |
| 312784 | 70 x 70 x 5,0 mm x 6 m | 9,76 | 58,56 |
| 312785 | 70 x 70 x 5,0 mm x 12 m | 9,76 | 117,12 |
| 312786 | 80 x 80 x 3,0 mm x 6 m | 7,24 | 43,44 |
| 312787 | 80 x 80 x 3,0 mm x 12 m | 7,24 | 86,88 |
| 312788 | 80 x 80 x 4,0 mm x 6 m | 9,44 | 56,64 |
| 312789 | 80 x 80 x 4,0 mm x 12 m | 9,44 | 113,28 |
| 312790 | 80 x 80 x 5,0 mm x 6 m | 11,37 | 68,22 |
| 312791 | 80 x 80 x 5,0 mm x 12 m | 11,37 | 136,44 |
| 312792 | 80 x 80 x 6,0 mm x 12 m | 13,46 | 161,52 |
| 312816 | 80 x 80 x 8,0 mm x 12 m | 16,69 | 200,28 |
| 312793 | 90 x 90 x 4,0 mm x 6 m | 10,76 | 64,56 |
| 312794 | 90 x 90 x 4,0 mm x 12 m | 10,76 | 129,12 |
| 312795 | 90 x 90 x 5,0 mm x 12 m | 13,00 | 156,00 |
| 312796 | 100 x 100 x 3,0 mm x 6 m | 9,18 | 55,08 |
| 312797 | 100 x 100 x 3,0 mm x 12 m | 9,18 | 110,16 |
| 312798 | 100 x 100 x 4,0 mm x 6 m | 11,98 | 71,88 |
| 312799 | 100 x 100 x 4,0 mm x 12 m | 11,98 | 143,76 |

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------------------|-------|--------|
| 312800 | 100 x 100 x 5,0 mm x 12 m | 14,54 | 174,48 |
| 334060 | 100 x 100 x 5,0 mm x 15 m | 14,54 | 218,10 |
| 312801 | 100 x 100 x 6,0 mm x 12 m | 17,34 | 208,08 |
| 334061 | 100 x 100 x 6,0 mm x 15 m | 17,34 | 260,10 |
| 312802 | 100 x 100 x 8,0 mm x 12 m | 21,92 | 263,04 |
| 334110 | 100 x 100 x 8,0 mm x 15 m | 21,92 | 263,04 |
| 312817 | 100 x 100 x 10,0 mm x 12 m | 26,11 | 313,32 |
| 334062 | 100 x 100 x 10,0 mm x 15 m | 26,11 | 391,65 |
| 312818 | 120 x 120 x 4,0 mm x 12 m | 14,48 | 173,76 |
| 312803 | 120 x 120 x 5,0 mm x 12 m | 17,82 | 213,84 |
| 334063 | 120 x 120 x 5,0 mm x 15 m | 17,82 | 267,30 |
| 334064 | 120 x 120 x 5,0 mm x 18 m | 17,82 | 320,76 |
| 312819 | 120 x 120 x 6,0 mm x 12 m | 21,11 | 253,32 |
| 334065 | 120 x 120 x 6,0 mm x 15 m | 21,11 | 316,65 |
| 334066 | 120 x 120 x 6,0 mm x 18 m | 21,11 | 379,98 |
| 312804 | 120 x 120 x 8,0 mm x 12 m | 27,04 | 324,48 |
| 334067 | 120 x 120 x 8,0 mm x 15 m | 27,04 | 405,60 |
| 334068 | 120 x 120 x 8,0 mm x 18 m | 27,04 | 486,72 |
| 312805 | 120 x 120 x 10,0 mm x 12 m | 31,84 | 382,08 |
| 312806 | 140 x 140 x 5,0 mm x 12 m | 20,69 | 248,28 |
| 334069 | 140 x 140 x 5,0 mm x 15 m | 20,69 | 310,35 |
| 334070 | 140 x 140 x 5,0 mm x 18 m | 20,69 | 372,42 |
| 312820 | 140 x 140 x 6,0 mm x 12 m | 24,52 | 294,24 |
| 334071 | 140 x 140 x 6,0 mm x 15 m | 24,52 | 367,80 |
| 334072 | 140 x 140 x 6,0 mm x 18 m | 24,52 | 441,36 |
| 312821 | 140 x 140 x 8,0 mm x 12 m | 31,43 | 377,16 |
| 334073 | 140 x 140 x 8,0 mm x 15 m | 31,43 | 471,45 |
| 334074 | 140 x 140 x 8,0 mm x 18 m | 31,43 | 565,74 |
| 312822 | 140 x 140 x 10,0 mm x 12 m | 38,12 | 457,44 |
| 312807 | 150 x 150 x 5,0 mm x 12 m | 22,64 | 271,68 |
| 334075 | 150 x 150 x 5,0 mm x 15 m | 22,64 | 339,60 |
| 334076 | 150 x 150 x 5,0 mm x 18 m | 22,64 | 407,52 |
| 312823 | 150 x 150 x 6,0 mm x 12 m | 26,93 | 323,16 |
| 334077 | 150 x 150 x 6,0 mm x 15 m | 26,93 | 403,95 |
| 334078 | 150 x 150 x 6,0 mm x 18 m | 26,93 | 473,40 |
| 312808 | 150 x 150 x 8,0 mm x 12 m | 34,72 | 416,64 |
| 334079 | 150 x 150 x 8,0 mm x 15 m | 34,72 | 520,80 |
| 334080 | 150 x 150 x 8,0 mm x 18 m | 34,72 | 624,96 |
| 312809 | 150 x 150 x 10,0 mm x 12 m | 42,30 | 507,60 |
| 312824 | 160 x 160 x 5,0 mm x 12 m | 23,83 | 285,96 |
| 312825 | 160 x 160 x 6,0 mm x 12 m | 28,29 | 339,48 |
| 334081 | 160 x 160 x 6,0 mm x 15 m | 28,29 | 424,35 |
| 334082 | 160 x 160 x 6,0 mm x 18 m | 28,29 | 509,22 |
| 312826 | 160 x 160 x 8,0 mm x 12 m | 36,46 | 437,52 |
| 334083 | 160 x 160 x 8,0 mm x 15 m | 36,46 | 546,90 |
| 334084 | 160 x 160 x 8,0 mm x 18 m | 36,46 | 656,28 |
| 312827 | 160 x 160 x 10,0 mm x 12 m | 44,40 | 532,80 |
| 312828 | 180 x 180 x 6,0 mm x 12 m | 32,74 | 392,88 |
| 334085 | 180 x 180 x 6,0 mm x 15 m | 32,74 | 491,10 |

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------------------|--------|---------|
| 334086 | 180 x 180 x 6,0 mm x 18 m | 32,74 | 589,32 |
| 312829 | 180 x 180 x 8,0 mm x 12 m | 42,33 | 507,96 |
| 334087 | 180 x 180 x 8,0 mm x 15 m | 42,33 | 634,95 |
| 334088 | 180 x 180 x 8,0 mm x 18 m | 42,33 | 761,94 |
| 312830 | 180 x 180 x 10,0 mm x 12 m | 51,71 | 620,52 |
| 312831 | 200 x 200 x 5,0 mm x 12 m | 30,70 | 368,40 |
| 312832 | 200 x 200 x 6,0 mm x 12 m | 36,52 | 438,24 |
| 334089 | 200 x 200 x 6,0 mm x 15 m | 36,52 | 547,80 |
| 312833 | 200 x 200 x 8,0 mm x 12 m | 47,43 | 569,16 |
| 334090 | 200 x 200 x 8,0 mm x 15 m | 47,43 | 711,45 |
| 334091 | 200 x 200 x 8,0 mm x 18 m | 47,43 | 853,74 |
| 312810 | 200 x 200 x 10,0 mm x 12 m | 58,38 | 700,56 |
| 334092 | 200 x 200 x 10,0 mm x 15 m | 58,38 | 875,70 |
| 334093 | 200 x 200 x 10,0 mm x 18 m | 58,38 | 1050,84 |
| 312834 | 200 x 200 x 12,0 mm x 12 m | 67,32 | 807,84 |
| 312835 | 250 x 250 x 6,0 mm x 12 m | 46,10 | 553,20 |
| 312811 | 250 x 250 x 8,0 mm x 12 m | 60,53 | 726,36 |
| 312812 | 250 x 250 x 10,0 mm x 12 m | 74,46 | 893,52 |
| 312836 | 250 x 250 x 12,0 mm x 12 m | 86,50 | 1038,00 |
| 312813 | 300 x 300 x 8,0 mm x 12 m | 73,33 | 879,96 |
| 312814 | 300 x 300 x 10,0 mm x 12 m | 90,54 | 1086,40 |
| 312815 | 300 x 300 x 12,0 mm x 12 m | 106,10 | 1273,20 |

KF HUP S355J2 Rektangulære



Deler av programmet lagerføres i S355J2H / S420MH. Iflg. EN 10219-1. Slagseighetstestet ved -20 gr. C for godstykkelse > 6 mm. Toleranser iflg. EN 10219-2. Lengdetoleranse -0/+50 mm Kontrollsertifikat iflg. EN 10204 - 3.1 CE-merket * MERKING: Aluminium ende

Varegruppe: 5533

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|--------------------------|-------|--------|
| 312848 | 50 x 30 x 3,0 mm x 6 m | 3,38 | 20,28 |
| 312849 | 50 x 30 x 4,0 mm x 6 m | 4,30 | 25,80 |
| 312850 | 60 x 40 x 3,0 mm x 6 m | 4,35 | 26,10 |
| 312851 | 60 x 40 x 4,0 mm x 6 m | 5,58 | 33,48 |
| 312852 | 60 x 40 x 4,0 mm x 12 m | 5,58 | 66,96 |
| 312853 | 70 x 40 x 3,0 mm x 6 m | 4,73 | 28,38 |
| 312854 | 70 x 40 x 4,0 mm x 6 m | 6,12 | 36,72 |
| 312855 | 80 x 40 x 3,0 mm x 6 m | 5,32 | 31,92 |
| 312856 | 80 x 40 x 4,0 mm x 6 m | 6,87 | 41,22 |
| 312857 | 80 x 40 x 4,0 mm x 12 m | 6,87 | 82,44 |
| 312858 | 80 x 40 x 5,0 mm x 12 m | 8,13 | 97,56 |
| 312859 | 80 x 50 x 4,0 mm x 6 m | 7,28 | 43,68 |
| 312860 | 80 x 50 x 5,0 mm x 6 m | 8,76 | 52,56 |
| 312861 | 80 x 60 x 5,0 mm x 6 m | 9,57 | 57,42 |
| 312862 | 90 x 50 x 4,0 mm x 6 m | 8,16 | 48,96 |
| 312863 | 100 x 40 x 3,0 mm x 6 m | 6,28 | 37,68 |
| 312864 | 100 x 40 x 4,0 mm x 6 m | 8,13 | 48,78 |
| 312865 | 100 x 50 x 3,0 mm x 6 m | 6,76 | 40,56 |
| 312866 | 100 x 50 x 3,0 mm x 12 m | 6,76 | 81,12 |
| 312867 | 100 x 50 x 4,0 mm x 6 m | 8,80 | 52,80 |
| 312868 | 100 x 50 x 4,0 mm x 12 m | 8,80 | 105,60 |
| 312869 | 100 x 50 x 5,0 mm x 6 m | 10,76 | 64,56 |
| 312870 | 100 x 50 x 5,0 mm x 12 m | 10,76 | 129,12 |
| 312871 | 100 x 50 x 6,0 mm x 12 m | 12,55 | 150,60 |
| 312872 | 100 x 60 x 4,0 mm x 12 m | 9,44 | 113,28 |
| 312873 | 100 x 60 x 5,0 mm x 12 m | 11,37 | 136,44 |
| 312888 | 100 x 60 x 6,0 mm x 12 m | 13,46 | 161,52 |
| 312874 | 100 x 80 x 5,0 mm x 12 m | 13,01 | 156,12 |
| 312875 | 120 x 60 x 4,0 mm x 12 m | 10,76 | 129,12 |
| 312876 | 120 x 60 x 5,0 mm x 12 m | 13,01 | 156,12 |
| 312877 | 120 x 60 x 6,0 mm x 12 m | 15,40 | 184,80 |
| 312895 | 120 x 80 x 4,0 mm x 12 m | 11,93 | 143,16 |
| 312878 | 120 x 80 x 5,0 mm x 12 m | 14,54 | 174,48 |
| 312879 | 120 x 80 x 6,0 mm x 12 m | 17,34 | 208,08 |
| 312889 | 120 x 80 x 8,0 mm x 12 m | 22,04 | 264,48 |
| 334094 | 140 x 70 x 6,0 mm x 12 m | 19,20 | 230,40 |
| 312890 | 140 x 80 x 5,0 mm x 12 m | 15,98 | 191,76 |
| 312894 | 140 x 80 x 6,0 mm x 12 m | 18,87 | 226,44 |

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------------------|--------|---------|
| 334095 | 150 x 75 x 5,0 mm x 12 m | 16,88 | 202,56 |
| 312880 | 150 x 100 x 5,0 mm x 12 m | 18,64 | 223,68 |
| 312881 | 150 x 100 x 6,0 mm x 12 m | 22,13 | 265,56 |
| 334096 | 150 x 100 x 6,0 mm x 15 m | 22,13 | 331,95 |
| 312882 | 150 x 100 x 8,0 mm x 12 m | 28,37 | 340,44 |
| 334097 | 150 x 100 x 10,0 mm x 12 m | 33,40 | 400,80 |
| 334098 | 150 x 100 x 10,0 mm x 15 m | 33,40 | 501,00 |
| 312883 | 160 x 80 x 5,0 mm x 12 m | 17,81 | 213,72 |
| 312884 | 160 x 80 x 6,0 mm x 12 m | 21,11 | 253,32 |
| 312885 | 160 x 80 x 8,0 mm x 12 m | 26,93 | 323,16 |
| 334099 | 180 x 100 x 6,0 mm x 12 m | 26,16 | 313,92 |
| 312886 | 200 x 100 x 5,0 mm x 12 m | 22,75 | 273,00 |
| 334100 | 200 x 100 x 5,0 mm x 15 m | 22,75 | 341,25 |
| 312887 | 200 x 100 x 6,0 mm x 12 m | 26,93 | 323,16 |
| 334101 | 200 x 100 x 6,0 mm x 15 m | 26,93 | 403,95 |
| 312891 | 200 x 100 x 8,0 mm x 12 m | 34,72 | 416,64 |
| 334102 | 200 x 100 x 8,0 mm x 15 m | 34,72 | 520,80 |
| 312892 | 200 x 100 x 10,0 mm x 12 m | 42,30 | 507,60 |
| 334103 | 200 x 100 x 10,0 mm x 15 m | 42,30 | 634,50 |
| 334104 | 200 x 100 x 12,0 mm x 12 m | 48,04 | 576,48 |
| 312837 | 200 x 120 x 6,0 mm x 12 m | 28,87 | 346,44 |
| 312838 | 200 x 120 x 8,0 mm x 12 m | 37,19 | 446,28 |
| 312839 | 200 x 120 x 10,0 mm x 12 m | 45,29 | 543,48 |
| 324523 | 250 x 50 x 5,0 mm x 12 m | 23,55 | 282,60 |
| 312840 | 250 x 150 x 6,0 mm x 12 m | 36,52 | 438,24 |
| 334105 | 250 x 150 x 6,0 mm x 15 m | 36,52 | 547,80 |
| 312893 | 250 x 150 x 8,0 mm x 12 m | 47,63 | 571,56 |
| 334106 | 250 x 150 x 8,0 mm x 15 m | 47,63 | 714,45 |
| 312841 | 250 x 150 x 10,0 mm x 12 m | 58,14 | 697,68 |
| 334107 | 250 x 150 x 10,0 mm x 15 m | 58,14 | 872,10 |
| 334108 | 250 x 150 x 12,0 mm x 12 m | 67,32 | 807,84 |
| 312842 | 300 x 200 x 6,0 mm x 12 m | 46,10 | 553,20 |
| 312843 | 300 x 200 x 8,0 mm x 12 m | 60,28 | 723,36 |
| 312844 | 300 x 200 x 10,0 mm x 12 m | 74,15 | 889,80 |
| 334109 | 300 x 200 x 12,0 mm x 12 m | 86,50 | 1038,00 |
| 312845 | 400 x 200 x 8,0 mm x 12 m | 73,03 | 876,36 |
| 312846 | 400 x 200 x 10,0 mm x 12 m | 90,17 | 1082,00 |
| 312847 | 400 x 200 x 12,0 mm x 12 m | 106,08 | 1281,60 |

KF HUP S355J2 Runde



Deler av programmet lagerføres i
S355J2H / S420MH

iflg. EN 10219-1

Slagseighetstestet ved -20 gr. C for
godstykkelse > 6 mm

Toleranser iflg. EN 10219-2

Kontrollsertifikat iflg. EN 10204 - 3.1 CE-
merket

* MERKING: Aluminium ende

Varegruppe: 5529

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|--------------------------|-------|---------|
| 312684 | Ø 88,9 x 5,0 mm x 12 m | 10,30 | 123,60 |
| 312685 | Ø 114,3 x 6,0 mm x 12 m | 16,03 | 192,36 |
| 312686 | Ø 139,7 x 5,0 mm x 12 m | 16,60 | 199,20 |
| 312687 | Ø 139,7 x 6,0 mm x 12 m | 19,78 | 237,36 |
| 312688 | Ø 139,7 x 8,0 mm x 12 m | 25,98 | 311,76 |
| 312689 | Ø 168,3 x 6,0 mm x 12 m | 24,02 | 288,24 |
| 312690 | Ø 168,3 x 8,0 mm x 12 m | 31,63 | 379,56 |
| 312691 | Ø 168,3 x 10,0 mm x 12 m | 39,04 | 468,48 |
| 312692 | Ø 193,7 x 6,0 mm x 12 m | 27,80 | 333,60 |
| 312693 | Ø 193,7 x 8,0 mm x 12 m | 36,60 | 439,20 |
| 312694 | Ø 193,7 x 10,0 mm x 12 m | 45,30 | 543,60 |
| 312695 | Ø 219,1 x 6,0 mm x 12 m | 31,53 | 378,36 |
| 312696 | Ø 219,1 x 8,0 mm x 12 m | 41,65 | 499,80 |
| 312697 | Ø 219,1 x 10,0 mm x 12 m | 51,57 | 618,84 |
| 312698 | Ø 219,1 x 12,5 mm x 12 m | 63,69 | 764,28 |
| 312699 | Ø 244,5 x 8,0 mm x 12 m | 46,70 | 560,40 |
| 312700 | Ø 273,0 x 6,0 mm x 12 m | 39,50 | 474,00 |
| 312701 | Ø 273,0 x 8,0 mm x 12 m | 52,28 | 627,36 |
| 312702 | Ø 273,0 x 10,0 mm x 12 m | 64,86 | 778,32 |
| 312704 | Ø 323,9 x 8,0 mm x 12 m | 62,32 | 747,84 |
| 312705 | Ø 323,9 x 10,0 mm x 12 m | 77,41 | 928,92 |
| 312706 | Ø 323,9 x 12,5 mm x 12 m | 95,99 | 1151,80 |
| 312707 | Ø 355,6 x 6,0 mm x 12 m | 51,70 | 620,40 |

VF HUP S355NH Kvadratiske



iflg. EN 10 210

Norsok M-120 - MDS Y07: MPI-test for

T > 12 mm må avtales

Utvendig hjørneradius maks. 2,0 x T

C max 0,16%, CEV max 0,41%

Slagseighetstest for godstykkelse > 6 mm -

40J ved -20 gr. C

Lengdetoleranser -0/+150mm.

Øvrige toleranser iflg. EN 10210-2

Ultralydtest av sveisesøm for T > 12 mm <

16 mm iflg. EN 10246-8 level U3

Innvendig sveisesøm fjernet for T > 12 mm

Kontrollsertifikat iflg. EN 10204-3.1 CE-

merket

* Merking: Aluminium ende for dimensjoner

< 160 x 160 mm

Varegruppe: 5430

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------------------|-------|--------|
| 311954 | 40 x 40 x 4,0 mm x 12 m | 4,56 | 54,72 |
| 311955 | 50 x 50 x 3,2 mm x 12 m | 4,75 | 57,00 |
| 311956 | 50 x 50 x 4,0 mm x 12 m | 5,83 | 69,96 |
| 311957 | 50 x 50 x 5,0 mm x 12 m | 7,11 | 85,32 |
| 311958 | 60 x 60 x 3,2 mm x 12 m | 5,78 | 69,36 |
| 311959 | 60 x 60 x 4,0 mm x 12 m | 7,11 | 85,32 |
| 311960 | 60 x 60 x 5,0 mm x 12 m | 8,71 | 104,52 |
| 311961 | 60 x 60 x 6,3 mm x 12 m | 12,40 | 148,80 |
| 311962 | 60 x 60 x 8,0 mm x 12 m | 13,06 | 156,72 |
| 311963 | 70 x 70 x 5,0 mm x 12 m | 10,30 | 123,60 |
| 311964 | 80 x 80 x 3,6 mm x 12 m | 8,76 | 105,12 |
| 311965 | 80 x 80 x 5,0 mm x 12 m | 11,90 | 142,80 |
| 311966 | 80 x 80 x 6,3 mm x 12 m | 14,70 | 176,40 |
| 311967 | 80 x 80 x 8,0 mm x 12 m | 18,20 | 218,40 |
| 311968 | 90 x 90 x 5,0 mm x 12 m | 13,60 | 163,20 |
| 311969 | 90 x 90 x 6,3 mm x 12 m | 16,70 | 200,40 |
| 311970 | 100 x 100 x 4,0 mm x 12 m | 12,20 | 146,40 |
| 311971 | 100 x 100 x 5,0 mm x 12 m | 15,10 | 181,20 |
| 311972 | 100 x 100 x 6,3 mm x 12 m | 18,80 | 225,60 |
| 311973 | 100 x 100 x 8,0 mm x 12 m | 23,40 | 280,80 |
| 311974 | 100 x 100 x 10,0 mm x 12 m | 28,50 | 342,00 |
| 311975 | 120 x 120 x 5,0 mm x 12 m | 18,40 | 220,80 |
| 311976 | 120 x 120 x 6,3 mm x 12 m | 22,70 | 272,40 |
| 311977 | 120 x 120 x 8,0 mm x 12 m | 28,50 | 342,00 |
| 311978 | 120 x 120 x 10,0 mm x 12 m | 34,90 | 418,80 |
| 311979 | 140 x 140 x 5,0 mm x 12 m | 21,50 | 258,00 |
| 311980 | 140 x 140 x 6,3 mm x 12 m | 26,80 | 321,60 |
| 311981 | 140 x 140 x 8,0 mm x 12 m | 33,60 | 403,20 |
| 311982 | 140 x 140 x 10,0 mm x 12 m | 41,20 | 494,40 |
| 311983 | 150 x 150 x 5,0 mm x 12 m | 23,20 | 278,40 |

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------------------|--------|---------|
| 311984 | 150 x 150 x 6,3 mm x 12 m | 28,90 | 346,80 |
| 311985 | 150 x 150 x 8,0 mm x 12 m | 36,10 | 433,20 |
| 311986 | 150 x 150 x 10,0 mm x 12 m | 44,50 | 534,00 |
| 311987 | 150 x 150 x 12,5 mm x 12 m | 54,50 | 654,00 |
| 311988 | 150 x 150 x 16,0 mm x 12 m | 66,50 | 798,00 |
| 311989 | 160 x 160 x 6,3 mm x 12 m | 30,30 | 363,60 |
| 311990 | 160 x 160 x 8,0 mm x 12 m | 37,90 | 454,80 |
| 311991 | 160 x 160 x 10,0 mm x 12 m | 46,70 | 560,40 |
| 311992 | 180 x 180 x 6,3 mm x 12 m | 34,90 | 418,80 |
| 311993 | 180 x 180 x 8,0 mm x 12 m | 43,90 | 526,80 |
| 311994 | 180 x 180 x 10,0 mm x 12 m | 54,10 | 649,20 |
| 311995 | 180 x 180 x 12,5 mm x 12 m | 65,70 | 788,40 |
| 311996 | 180 x 180 x 16,0 mm x 12 m | 81,80 | 981,60 |
| 311997 | 200 x 200 x 6,3 mm x 12 m | 39,00 | 468,00 |
| 311998 | 200 x 200 x 8,0 mm x 12 m | 49,00 | 588,00 |
| 311999 | 200 x 200 x 10,0 mm x 12 m | 60,50 | 726,00 |
| 312000 | 200 x 200 x 12,5 mm x 12 m | 74,50 | 894,00 |
| 312001 | 200 x 200 x 16,0 mm x 12 m | 93,30 | 1119,60 |
| 312002 | 250 x 250 x 6,3 mm x 12 m | 49,10 | 589,20 |
| 312003 | 250 x 250 x 8,0 mm x 12 m | 61,70 | 740,40 |
| 312004 | 250 x 250 x 10,0 mm x 12 m | 76,50 | 918,00 |
| 312005 | 250 x 250 x 12,5 mm x 12 m | 94,50 | 1134,00 |
| 312007 | 300 x 300 x 10,0 mm x 12 m | 92,50 | 1110,00 |
| 312008 | 300 x 300 x 12,5 mm x 12 m | 114,00 | 1368,00 |
| 312009 | 350 x 350 x 10,0 mm x 12 m | 108,00 | 1296,00 |
| 312010 | 350 x 350 x 12,5 mm x 12 m | 135,00 | 1620,00 |
| 312015 | 350 x 350 x 16,0 mm x 12 m | 170,30 | 2043,60 |
| 312011 | 400 x 400 x 10,0 mm x 12 m | 124,50 | 1494,00 |
| 312012 | 400 x 400 x 12,5 mm x 12 m | 155,00 | 1860,00 |
| 312013 | 400 x 400 x 16,0 mm x 12 m | 195,80 | 2349,60 |

VF HUP S355NH Rektangulære

iflg. NS-EN 10 210

Norsok M120 - MDS Y07: MPI-test for T > 12 mm må avtales

Utvendig hjørneradius maks. 2,0 x T

C max 0,16%, CEV max 0,41%

Slagseighetstest for godstykkelse > 6 mm - 40J ved -20 gr. C

Lengdetoleranser -0/+150mm.

Øvrige toleranser iflg. EN 10210-2

Ultralydtest av sveisesøm for T > 12 mm < 16 mm iflg. EN 10246-8 level U3

Innvendig sveisesøm fjernet for T > 12 mm

Kontrollsertifikat iflg. EN 10204-3.1 CE-merket

* Merking: Aluminium ende for dimensjoner < 200 x 100 mm



Varegruppe: 5431

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------------------|-------|--------|
| 312016 | 60 x 40 x 4,0 mm x 12 m | 5,83 | 69,96 |
| 312017 | 80 x 40 x 4,0 mm x 12 m | 7,11 | 85,32 |
| 312018 | 80 x 40 x 6,3 mm x 12 m | 10,50 | 126,00 |
| 312019 | 90 x 50 x 3,6 mm x 12 m | 7,61 | 91,32 |
| 312020 | 100 x 50 x 3,2 mm x 12 m | 7,32 | 87,84 |
| 312021 | 100 x 50 x 4,0 mm x 12 m | 9,04 | 108,48 |
| 312022 | 100 x 50 x 5,0 mm x 12 m | 11,10 | 133,20 |
| 312023 | 100 x 50 x 6,3 mm x 12 m | 13,70 | 164,40 |
| 312024 | 100 x 50 x 8,0 mm x 12 m | 16,90 | 202,80 |
| 312025 | 100 x 60 x 5,0 mm x 12 m | 11,90 | 142,80 |
| 312026 | 100 x 60 x 6,3 mm x 12 m | 14,70 | 176,40 |
| 312027 | 120 x 60 x 5,0 mm x 12 m | 13,60 | 163,20 |
| 312028 | 120 x 60 x 6,3 mm x 12 m | 16,70 | 200,40 |
| 312029 | 120 x 80 x 5,0 mm x 12 m | 15,10 | 181,20 |
| 312030 | 120 x 80 x 6,3 mm x 12 m | 18,80 | 225,60 |
| 312031 | 120 x 80 x 8,0 mm x 12 m | 23,40 | 280,80 |
| 312032 | 120 x 80 x 10,0 mm x 12 m | 28,50 | 342,00 |
| 312033 | 150 x 100 x 5,0 mm x 12 m | 19,10 | 229,20 |
| 312034 | 150 x 100 x 6,3 mm x 12 m | 23,80 | 285,60 |
| 312035 | 150 x 100 x 8,0 mm x 12 m | 29,70 | 356,40 |
| 312036 | 150 x 100 x 10,0 mm x 12 m | 36,40 | 436,80 |
| 312037 | 160 x 80 x 5,0 mm x 12 m | 18,40 | 220,80 |
| 312038 | 160 x 80 x 6,3 mm x 12 m | 22,70 | 272,40 |
| 312039 | 160 x 80 x 8,0 mm x 12 m | 28,50 | 342,00 |
| 312040 | 160 x 80 x 10,0 mm x 12 m | 34,90 | 418,80 |
| 312041 | 200 x 100 x 5,0 mm x 12 m | 23,20 | 278,40 |
| 312042 | 200 x 100 x 6,3 mm x 12 m | 28,90 | 346,80 |
| 312043 | 200 x 100 x 8,0 mm x 12 m | 36,10 | 433,20 |
| 312044 | 200 x 100 x 10,0 mm x 12 m | 44,50 | 534,00 |
| 312045 | 200 x 100 x 12,5 mm x 12 m | 54,50 | 654,00 |
| 312046 | 200 x 100 x 16,0 mm x 12 m | 66,50 | 798,00 |

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------------------|--------|---------|
| 312047 | 200 x 120 x 6,3 mm x 12 m | 30,30 | 363,60 |
| 334143 | 200 x 120 x 8,0 mm x 12 m | 38,35 | 460,20 |
| 312049 | 200 x 120 x 10,0 mm x 12 m | 46,70 | 560,40 |
| 312050 | 200 x 150 x 8,0 mm x 12 m | 42,23 | 506,76 |
| 312051 | 250 x 150 x 6,3 mm x 12 m | 39,00 | 468,00 |
| 312052 | 250 x 150 x 8,0 mm x 12 m | 49,00 | 588,00 |
| 312053 | 250 x 150 x 10,0 mm x 12 m | 60,50 | 726,00 |
| 312054 | 250 x 150 x 12,5 mm x 12 m | 74,50 | 894,00 |
| 312066 | 300 x 100 x 5,0 mm x 12 m | 31,10 | 373,20 |
| 312055 | 300 x 200 x 6,3 mm x 12 m | 49,10 | 589,20 |
| 312056 | 300 x 200 x 8,0 mm x 12 m | 61,70 | 740,40 |
| 312057 | 300 x 200 x 10,0 mm x 12 m | 76,50 | 918,00 |
| 312058 | 300 x 200 x 12,5 mm x 12 m | 94,50 | 1134,00 |
| 312059 | 400 x 200 x 10,0 mm x 12 m | 92,50 | 1110,00 |
| 312060 | 400 x 200 x 12,5 mm x 12 m | 114,00 | 1368,00 |

VF HUP S355J2H Runde

iflg. EN 10210-1

Norsok M-120 MDS Y04

Slagseighetstestet ved -20 gr. C for godstykkelse > 6 mm

Toleranse iflg EN10210-2

Lengdetoleranse -0/+150 mm

Ultralydtest av sveisesøm iflg. EN 10204-8 level U5

Kontrollsertifikat iflg. EN 10204 3.1 CE-merket



Varegruppe: 5620

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|--------------------|------|--------|
| 327174 | Ø 33,7 x 3,6 x 6 m | 2,72 | 16,32 |
| 327175 | Ø 48,3 x 3,6 x 6 m | 4,05 | 24,30 |

VF HUP S355G13+N/ Y28 Kvadratiske



iflg. EN 10225 og Norsok M120 - Y28
Avvik som vist i kapitlet Tabeller under
Norsok MDS - Y28 - Tata modified Rev. 05
Jan 2014
Garantert utvendig hjørneradius maks. 2 x T
Toleranser iflg. EN 10210-2
Lengdetoleranse +150/-0
Kontrollsertifikat iflg. EN 10204 3.1
* MERKING: iflg. EN 10225 + Aluminium
ende

Varegruppe: 5433/5435

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------------------|--------|---------|
| 315895 | 100 x 100 x 6,3 mm x 12 m | 18,80 | 225,60 |
| 315690 | 100 x 100 x 8,0 mm x 12 m | 23,40 | 280,80 |
| 315896 | 100 x 100 x 10,0 mm x 12 m | 28,50 | 342,00 |
| 315897 | 120 x 120 x 5,0 mm x 12 m | 18,40 | 220,80 |
| 315687 | 120 x 120 x 6,3 mm x 12 m | 22,70 | 272,40 |
| 315222 | 120 x 120 x 8,0 mm x 12 m | 28,50 | 342,00 |
| 315898 | 120 x 120 x 10,0 mm x 12 m | 34,90 | 418,80 |
| 315899 | 140 x 140 x 6,3 mm x 12 m | 26,80 | 321,60 |
| 315930 | 140 x 140 x 8,0 mm x 12 m | 33,60 | 403,20 |
| 316119 | 150 x 150 x 6,3 mm x 12 m | 28,90 | 346,80 |
| 315497 | 150 x 150 x 8,0 mm x 12 m | 36,10 | 433,20 |
| 315223 | 150 x 150 x 10,0 mm x 12 m | 44,50 | 534,00 |
| 315931 | 150 x 150 x 12,5 mm x 12 m | 54,50 | 654,00 |
| 316495 | 160 x 160 x 6,3 mm x 12 m | 30,30 | 363,60 |
| 316496 | 160 x 160 x 8,0 mm x 12 m | 37,90 | 454,80 |
| 316813 | 160 x 160 x 10,0 mm x 12 m | 46,70 | 560,40 |
| 316814 | 180 x 180 x 8,0 mm x 12 m | 43,90 | 526,80 |
| 316815 | 180 x 180 x 10,0 mm x 12 m | 54,10 | 649,20 |
| 315228 | 200 x 200 x 6,3 mm x 12 m | 39,00 | 468,00 |
| 315229 | 200 x 200 x 8,0 mm x 12 m | 49,00 | 588,00 |
| 315227 | 200 x 200 x 10,0 mm x 12 m | 60,50 | 726,00 |
| 315226 | 200 x 200 x 12,5 mm x 12 m | 74,50 | 894,00 |
| 315230 | 200 x 200 x 16,0 mm x 12 m | 93,30 | 1119,60 |
| 315232 | 250 x 250 x 8,0 mm x 12 m | 61,70 | 740,40 |
| 315935 | 250 x 250 x 10,0 mm x 12 m | 76,50 | 918,00 |
| 316116 | 250 x 250 x 12,5 mm x 12 m | 94,50 | 1134,00 |
| 315233 | 250 x 250 x 16,0 mm x 12 m | 119,34 | 1432,00 |
| 315237 | 300 x 300 x 10,0 mm x 12 m | 92,50 | 1110,00 |
| 315238 | 300 x 300 x 12,5 mm x 12 m | 114,00 | 1368,00 |
| 315239 | 300 x 300 x 16,0 mm x 12 m | 144,84 | 1738,00 |
| 315198 | 350 x 350 x 12,5 mm x 12 m | 135,00 | 1620,00 |
| 315695 | 400 x 400 x 10,0 mm x 12 m | 124,50 | 1494,00 |
| 315936 | 400 x 400 x 12,5 mm x 12 m | 155,00 | 1860,00 |
| 315243 | 400 x 400 x 16,0 mm x 12 m | 195,80 | 2349,60 |

VF HUP S355G13+N/ Y28 Rektangulære



iflg. EN 10225 og Norsok M120 - Y28
Avvik som vist i kapitlet Tabeller under
Norsok MDS - Y28
Garantert utvendig hjørneradius maks. 2 x T
Toleranser iflg. EN 10210-2
Lengdetoleranse +150/-0
Kontrollsertifikat iflg. EN 10204 3.1
* MERKING: iflg. EN 10225 + Aluminium
ende

Varegruppe: 5434/5436

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------------------|--------|---------|
| 315493 | 120 x 80 x 8,0 mm x 12 m | 23,40 | 280,80 |
| 315932 | 150 x 100 x 6,3 mm x 12 m | 23,80 | 285,60 |
| 315691 | 150 x 100 x 8,0 mm x 12 m | 29,70 | 356,40 |
| 315933 | 150 x 100 x 10,0 mm x 12 m | 36,40 | 436,80 |
| 315224 | 200 x 100 x 6,3 mm x 12 m | 28,90 | 346,80 |
| 315693 | 200 x 100 x 8,0 mm x 12 m | 36,10 | 433,20 |
| 315498 | 200 x 100 x 10,0 mm x 12 m | 44,50 | 534,00 |
| 316115 | 200 x 100 x 12,5 mm x 12 m | 54,50 | 654,00 |
| 316494 | 200 x 120 x 6,3 mm x 12 m | 30,30 | 363,60 |
| 315491 | 200 x 120 x 8,0 mm x 12 m | 38,58 | 462,96 |
| 315225 | 200 x 120 x 10,0 mm x 12 m | 46,70 | 560,40 |
| 315492 | 200 x 150 x 8,0 mm x 12 m | 42,23 | 506,76 |
| 316776 | 250 x 150 x 8,0 mm x 12 m | 49,00 | 588,00 |
| 315231 | 250 x 150 x 10,0 mm x 12 m | 60,50 | 726,00 |
| 316492 | 250 x 150 x 12,5 mm x 12 m | 74,50 | 894,00 |
| 315938 | 300 x 200 x 8,0 mm x 12 m | 61,70 | 740,40 |
| 315234 | 300 x 200 x 10,0 mm x 12 m | 76,50 | 918,00 |
| 315235 | 300 x 200 x 12,5 mm x 12 m | 94,50 | 1134,00 |
| 315236 | 300 x 200 x 16,0 mm x 12 m | 119,30 | 1431,60 |
| 315240 | 400 x 200 x 10,0 mm x 12 m | 92,50 | 1110,00 |
| 315576 | 400 x 200 x 12,5 mm x 12 m | 114,00 | 1368,00 |
| 315242 | 400 x 200 x 16,0 mm x 12 m | 144,80 | 1737,60 |
| 316493 | 450 x 250 x 10,0 mm x 12 m | 108,00 | 1296,00 |
| 315241 | 450 x 250 x 12,5 mm x 12 m | 135,00 | 1620,00 |
| 315939 | 450 x 250 x 16,0 mm x 12 m | 169,30 | 2031,60 |
| 315953 | 500 x 300 x 10,0 mm x 12 m | 122,00 | 1464,00 |

Presisjonsstålrør E220-CR2-S3 Runde



Sveiste halvblanke
Toleranser iflg. EN 10305-3
Lengdetoleranse -0/+50 mm

Varegruppe: 5631

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|------------------------|------|--------|
| 312710 | Ø 10,0 x 1,00 mm x 6 m | 0,23 | 1,38 |
| 312711 | Ø 12,7 x 1,25 mm x 6 m | 0,36 | 2,16 |
| 312712 | Ø 12,7 x 1,50 mm x 6 m | 0,43 | 2,58 |
| 312713 | Ø 16,0 x 1,25 mm x 6 m | 0,46 | 2,76 |
| 312714 | Ø 16,0 x 1,50 mm x 6 m | 0,56 | 3,36 |
| 312715 | Ø 19,0 x 1,25 mm x 6 m | 0,56 | 3,36 |
| 312716 | Ø 19,0 x 1,50 mm x 6 m | 0,62 | 3,72 |
| 312717 | Ø 20,0 x 1,50 mm x 6 m | 0,68 | 4,08 |
| 312718 | Ø 20,0 x 2,00 mm x 6 m | 0,89 | 5,34 |
| 312719 | Ø 22,0 x 1,25 mm x 6 m | 0,64 | 3,84 |
| 312720 | Ø 22,0 x 1,50 mm x 6 m | 0,73 | 4,38 |
| 312721 | Ø 22,0 x 2,00 mm x 6 m | 1,00 | 6,00 |
| 312722 | Ø 25,0 x 1,50 mm x 6 m | 0,88 | 5,28 |
| 312723 | Ø 25,0 x 2,00 mm x 6 m | 1,15 | 6,90 |
| 312724 | Ø 28,0 x 2,00 mm x 6 m | 1,29 | 7,74 |
| 312725 | Ø 30,0 x 2,00 mm x 6 m | 1,38 | 8,28 |
| 312726 | Ø 32,0 x 1,50 mm x 6 m | 1,12 | 6,72 |
| 312727 | Ø 32,0 x 2,00 mm x 6 m | 1,46 | 8,76 |
| 312728 | Ø 35,0 x 2,00 mm x 6 m | 1,63 | 9,78 |
| 312729 | Ø 38,0 x 1,50 mm x 6 m | 1,35 | 8,10 |
| 312730 | Ø 38,0 x 2,00 mm x 6 m | 1,77 | 10,62 |
| 312731 | Ø 40,0 x 2,00 mm x 6 m | 1,87 | 11,22 |
| 312732 | Ø 50,0 x 2,00 mm x 6 m | 2,37 | 14,22 |
| 312733 | Ø 50,8 x 2,00 mm x 6 m | 2,40 | 14,40 |

Sveiste Stålrør S235JRH Runde



iflg. EN 10219
Ubehandlet, glatte ender
Lengdetoleranser -0/+100 mm
Kontrollsertifikat iflg. EN 10204 3.1 CE-merket

Varegruppe: 5610

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|------------------------|-------|--------|
| 312668 | Ø 21,3 x 2,0 mm x 6 m | 0,97 | 5,83 |
| 312669 | Ø 26,9 x 2,3 mm x 6 m | 1,43 | 8,57 |
| 312674 | Ø 26,9 x 2,6 mm x 6 m | 1,59 | 9,55 |
| 312670 | Ø 33,7 x 2,6 mm x 6 m | 2,03 | 12,18 |
| 312675 | Ø 33,7 x 3,2 mm x 6 m | 2,46 | 14,75 |
| 312671 | Ø 42,4 x 2,6 mm x 6 m | 2,60 | 15,61 |
| 312676 | Ø 42,4 x 3,2 mm x 6 m | 3,15 | 18,91 |
| 324815 | Ø 44,5 x 2,6 mm x 6 m | 2,74 | 16,46 |
| 312672 | Ø 48,3 x 2,9 mm x 6 m | 3,32 | 19,89 |
| 312677 | Ø 48,3 x 3,2 mm x 6 m | 3,63 | 21,79 |
| 324816 | Ø 51,0 x 2,6 mm x 6 m | 3,16 | 18,97 |
| 324817 | Ø 57,0 x 2,9 mm x 6 m | 3,95 | 23,68 |
| 312673 | Ø 60,3 x 2,9 mm x 6 m | 4,19 | 25,15 |
| 312678 | Ø 60,3 x 3,6 mm x 6 m | 5,13 | 30,78 |
| 324853 | Ø 63,5 x 2,9 mm x 6 m | 4,42 | 26,50 |
| 324862 | Ø 70,0 x 2,9 mm x 6 m | 4,90 | 29,38 |
| 324864 | Ø 76,1 x 2,9 mm x 6 m | 5,35 | 32,07 |
| 324865 | Ø 82,5 x 3,2 mm x 6 m | 6,39 | 38,25 |
| 324870 | Ø 88,9 x 3,2 mm x 6 m | 6,90 | 41,30 |
| 324871 | Ø 101,6 x 3,6 mm x 6 m | 8,87 | 53,24 |
| 324872 | Ø 108,0 x 3,6 mm x 6 m | 9,45 | 56,73 |
| 324873 | Ø 114,3 x 3,6 mm x 6 m | 10,03 | 60,16 |
| 324874 | Ø 127,0 x 4,0 mm x 6 m | 12,34 | 74,05 |

Sveiste Stålrør S235JRH Runde Varmforzinket



iflg. EN 10219

Varmforzinket iflg. ISO 1461

Glatte ender

Lengdetoleranser -0/+100mm.

Kontrollsertifikat iflg. EN 10204 3.1 CE-merket

Varegruppe: 5612

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-----------------------|------|--------|
| 312679 | Ø 26,9 x 2,6 mm x 6 m | 1,63 | 9,78 |
| 312680 | Ø 33,7 x 3,2 mm x 6 m | 2,49 | 14,94 |
| 312681 | Ø 42,4 x 3,2 mm x 6 m | 3,21 | 19,26 |
| 312682 | Ø 48,3 x 3,2 mm x 6 m | 3,69 | 22,14 |
| 312683 | Ø 60,3 x 3,6 mm x 6 m | 5,18 | 31,08 |

Presisjonsstålrør E220-CR2-S3 Kvadratiske og rektangulære rør



Halvblanke

Toleranser iflg. EN 10305-5

Lengdetoleranse -0/+50 mm

Varegruppe: 5632

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|-------------------------|-------------------------|------|--------|
| Kvadratiske rør | | | |
| 312734 | 15 x 15 x 1,50 mm x 6 m | 0,65 | 3,90 |
| 312735 | 20 x 20 x 1,50 mm x 6 m | 0,90 | 5,40 |
| 312736 | 20 x 20 x 2,00 mm x 6 m | 1,15 | 6,90 |
| 312738 | 25 x 25 x 1,25 mm x 6 m | 0,96 | 5,76 |
| 312739 | 25 x 25 x 1,50 mm x 6 m | 1,13 | 6,78 |
| 312740 | 25 x 25 x 2,00 mm x 6 m | 1,48 | 8,88 |
| 312741 | 30 x 30 x 1,50 mm x 6 m | 1,38 | 8,28 |
| 312742 | 30 x 30 x 2,00 mm x 6 m | 1,80 | 10,80 |
| 312743 | 30 x 30 x 2,50 mm x 6 m | 2,24 | 13,44 |
| 312744 | 35 x 35 x 1,50 mm x 6 m | 1,62 | 9,72 |
| 312745 | 35 x 35 x 2,00 mm x 6 m | 2,13 | 12,78 |
| 312746 | 40 x 40 x 2,00 mm x 6 m | 2,43 | 14,58 |
| 312747 | 45 x 45 x 2,00 mm x 6 m | 2,72 | 16,32 |
| 312748 | 50 x 50 x 1,50 mm x 6 m | 2,28 | 13,68 |
| 312749 | 50 x 50 x 2,00 mm x 6 m | 3,10 | 18,60 |
| Rektangulære rør | | | |
| 312750 | 20 x 10 x 1,25 mm x 6 m | 0,56 | 3,36 |
| 312751 | 25 x 15 x 1,50 mm x 6 m | 0,90 | 5,40 |
| 312752 | 30 x 10 x 1,50 mm x 6 m | 0,85 | 5,10 |
| 312753 | 30 x 20 x 1,50 mm x 6 m | 1,09 | 6,54 |
| 312754 | 30 x 20 x 2,00 mm x 6 m | 1,48 | 8,88 |
| 312755 | 40 x 20 x 1,50 mm x 6 m | 1,38 | 8,28 |
| 312756 | 40 x 20 x 2,00 mm x 6 m | 1,75 | 10,50 |
| 312757 | 40 x 30 x 2,00 mm x 6 m | 2,13 | 12,78 |
| 312758 | 45 x 25 x 2,00 mm x 6 m | 2,05 | 12,30 |
| 312759 | 50 x 20 x 2,00 mm x 6 m | 2,13 | 12,78 |
| 312760 | 50 x 25 x 1,50 mm x 6 m | 1,74 | 10,44 |
| 312761 | 50 x 30 x 2,00 mm x 6 m | 2,45 | 14,70 |
| 312762 | 50 x 40 x 2,00 mm x 6 m | 2,77 | 16,62 |
| 312763 | 60 x 20 x 2,00 mm x 6 m | 2,46 | 14,76 |
| 312764 | 60 x 30 x 2,00 mm x 6 m | 2,77 | 16,62 |
| 312765 | 60 x 40 x 2,00 mm x 6 m | 3,10 | 18,60 |
| 312766 | 70 x 20 x 2,00 mm x 6 m | 2,75 | 16,50 |

Vi pakker for et
perfekt resultat!



www.norskstaal.no

5 Stang, kaldvalset

| | |
|--|-----------|
| Blankt, rundt S355J2C+C | 44 |
| Centerless slipt, rundt | 44 |
| Automatstål svovellegert, rundt 11SMn30+C | 44 |
| Automatstål blylegert, rundt 11SMnPb30+C | 45 |
| Automatstål blylegert 11SMnPb30+C, sekskantede | 45 |
| Blankt firkant S235JRC+C | 45 |
| Blankt flatt S235JRC+C | 45 |
| Kilestål C45+C, firkant | 46 |
| Kilestål C45+C, flatt | 46 |

5 Stang, kaldvalset

Blankt, rundt S355J2C+C

iflg. EN 10277
Toleranser ISO h9 iflg. EN 10278
Prøverapport iflg. EN 10204-2.2
* MERKING: Aluminium ende

Varegruppe: 7730

| Varenr. | Dimensjon | Kg/m |
|---------|-----------------|------|
| 313594 | Ø 3 mm x 3-4 m | 0,06 |
| 313595 | Ø 4 mm x 3-4 m | 0,1 |
| 313596 | Ø 5 mm x 3-4 m | 0,16 |
| 313597 | Ø 6 mm x 3-4 m | 0,23 |
| 313598 | Ø 7 mm x 3-4 m | 0,3 |
| 313599 | Ø 8 mm x 3-4 m | 0,4 |
| 313601 | Ø 10 mm x 3-4 m | 0,63 |
| 313602 | Ø 12 mm x 3-6 m | 0,91 |
| 313604 | Ø 14 mm x 3-6 m | 1,23 |
| 313605 | Ø 15 mm x 3-6 m | 1,41 |
| 313606 | Ø 16 mm x 3-6 m | 1,61 |
| 313607 | Ø 18 mm x 3-6 m | 2,04 |
| 313608 | Ø 20 mm x 3-6 m | 2,51 |
| 313609 | Ø 22 mm x 3-6 m | 3,04 |
| 313610 | Ø 25 mm x 3-6 m | 3,93 |
| 313611 | Ø 28 mm x 3-6 m | 4,93 |
| 313612 | Ø 30 mm x 3-6 m | 5,66 |
| 313613 | Ø 32 mm x 3-6 m | 6,44 |
| 313614 | Ø 35 mm x 3-6 m | 7,7 |
| 313615 | Ø 40 mm x 3-6 m | 10,1 |
| 313616 | Ø 45 mm x 6 m | 12,7 |
| 313617 | Ø 50 mm x 6 m | 15,7 |
| 313618 | Ø 60 mm x 6 m | 22,6 |
| 313619 | Ø 70 mm x 6 m | 30,8 |
| 313620 | Ø 80 mm x 6 m | 40,2 |
| 313621 | Ø 100 mm x 6 m | 62,9 |

Centerless, slipt rundt

Min. Reh 520 mpa.
Toleranser ISO h8 iflg. EN 10278.
Retthetstoleranse 0,1 mm pr. 1000 mm
Overflateruhet Ra 04 -0,8 my
Slagseighetstestet ved -20 gr. C
God sveisbarhet
Kontrollsertifikat iflg. EN 10 204-3.1

Varegruppe: 7774

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------|-------|--------|
| 313622 | Ø 20 mm x 5 m | 2,51 | 12,55 |
| 313623 | Ø 25 mm x 6 m | 3,93 | 23,58 |
| 313624 | Ø 30 mm x 6 m | 5,66 | 33,96 |
| 313625 | Ø 35 mm x 6 m | 7,70 | 46,20 |
| 313626 | Ø 40 mm x 6 m | 10,10 | 60,60 |
| 313627 | Ø 45 mm x 6 m | 12,70 | 76,20 |
| 313628 | Ø 50 mm x 6 m | 15,70 | 94,20 |
| 313629 | Ø 60 mm x 6 m | 22,60 | 135,60 |
| 313630 | Ø 65 mm x 6 m | 26,60 | 159,60 |
| 313631 | Ø 70 mm x 6 m | 30,80 | 184,80 |
| 313632 | Ø 80 mm x 6 m | 40,20 | 241,20 |
| 313633 | Ø 90 mm x 6 m | 50,90 | 305,40 |
| 313634 | Ø 100 mm x 6 m | 62,90 | 377,40 |
| 313635 | Ø 120 mm x 6 m | 90,50 | 543,00 |

Automatstål svovellegert, rundt 11SMn30+C

iflg. EN 10277
Toleranser ISO h9 iflg. EN 10278
* MERKING: Hvit ende

Varegruppe: 7875

| Varenr. | Dimensjon | Kg/m |
|---------|-----------------|-------|
| 313708 | Ø 8 mm x 3-4 m | 0,40 |
| 313710 | Ø 10 mm x 3-4 m | 0,63 |
| 313711 | Ø 12 mm x 3-4 m | 0,91 |
| 313713 | Ø 16 mm x 3-4 m | 1,61 |
| 313714 | Ø 18 mm x 3-4 m | 2,04 |
| 313715 | Ø 20 mm x 3-4 m | 2,51 |
| 313716 | Ø 22 mm x 3-4 m | 3,04 |
| 313717 | Ø 25 mm x 3-4 m | 3,93 |
| 313718 | Ø 30 mm x 3-4 m | 5,66 |
| 313719 | Ø 35 mm x 3-4 m | 7,55 |
| 313720 | Ø 40 mm x 3-4 m | 10,10 |
| 313721 | Ø 50 mm x 3-4 m | 15,70 |

Automatstål blyegert, rundt 11SMnPb30+C



iflg. EN 10277

Toleranser ISO h9 eller h10 iflg. EN 10278

* MERKING: Grønn ende

Varegruppe: 7870

| Varenr. | Dimensjon | Kg/m |
|---------|-----------------|-------|
| 313723 | Ø 4 mm x 3-4 m | 0,10 |
| 313724 | Ø 5 mm x 3-4 m | 0,15 |
| 313725 | Ø 6 mm x 3-4 m | 0,23 |
| 313726 | Ø 7 mm x 3-4 m | 0,30 |
| 313727 | Ø 8 mm x 3-4 m | 0,40 |
| 313729 | Ø 10 mm x 3-4 m | 0,63 |
| 313730 | Ø 12 mm x 3-4 m | 0,91 |
| 313732 | Ø 14 mm x 3-4 m | 1,23 |
| 313733 | Ø 15 mm x 3-4 m | 1,41 |
| 313734 | Ø 16 mm x 3-4 m | 1,61 |
| 313735 | Ø 17 mm x 3-4 m | 1,82 |
| 313736 | Ø 20 mm x 3-4 m | 2,51 |
| 313737 | Ø 25 mm x 3-4 m | 3,93 |
| 313738 | Ø 28 mm x 3-4 m | 4,93 |
| 313739 | Ø 30 mm x 3-4 m | 5,66 |
| 313740 | Ø 32 mm x 3-4 m | 6,44 |
| 313741 | Ø 35 mm x 3-4 m | 7,70 |
| 313742 | Ø 40 mm x 3-4 m | 10,10 |
| 313743 | Ø 45 mm x 3-4 m | 12,70 |
| 313744 | Ø 50 mm x 3-4 m | 15,70 |

Blankt firkant S235JRC+C



iflg. EN 10277

Toleranser ISO h11 iflg. EN 10278

Prøverapport iflg. EN 10204-2.2

* MERKING: Rød ende

Varegruppe: 7779

| Varenr. | Dimensjon | Kg/m |
|---------|---------------------|-------|
| 313636 | 8 mm x 4KT x 3-4 m | 0,51 |
| 313637 | 10 mm x 4KT x 3-4 m | 0,80 |
| 313638 | 12 mm x 4KT x 3-4 m | 1,15 |
| 313639 | 16 mm x 4KT x 3-4 m | 2,05 |
| 313640 | 20 mm x 4KT x 3-4 m | 3,20 |
| 313641 | 25 mm x 4KT x 3-4 m | 5,00 |
| 313642 | 30 mm x 4KT x 3-4 m | 7,21 |
| 313643 | 40 mm x 4KT x 3-4 m | 12,80 |

Blankt flatt S235JRC+C



iflg. EN 10277

Kaldtrukket og med skarpe kanter

Toleranser iflg. EN 10278

Prøverapport iflg. EN 10204-2.2

* MERKING: Rød ende

Varegruppe: 7778

| Varenr. | Dimensjon | Kg/m |
|---------|--------------------|------|
| 313659 | 14 x 6 mm x 3-4 m | 0,67 |
| 313649 | 15 x 4 mm x 3-4 m | 0,48 |
| 313651 | 16 x 5 mm x 3-4 m | 0,64 |
| 313670 | 16 x 10 mm x 3-4 m | 1,29 |
| 313647 | 20 x 3 mm x 3-4 m | 0,48 |
| 313650 | 20 x 4 mm x 3-4 m | 0,64 |
| 313652 | 20 x 5 mm x 3-4 m | 0,80 |
| 313660 | 20 x 6 mm x 3-4 m | 0,96 |
| 313666 | 20 x 8 mm x 3-4 m | 1,28 |
| 313671 | 20 x 10 mm x 3-4 m | 1,60 |
| 313678 | 20 x 12 mm x 3-4 m | 1,92 |
| 313648 | 25 x 3 mm x 3-4 m | 0,60 |
| 313653 | 25 x 5 mm x 3-4 m | 1,00 |
| 313661 | 25 x 6 mm x 3-4 m | 1,20 |
| 313672 | 25 x 10 mm x 3-4 m | 2,00 |
| 313681 | 25 x 16 mm x 3-4 m | 3,20 |
| 313655 | 30 x 5 mm x 3-4 m | 1,20 |
| 313662 | 30 x 6 mm x 3-4 m | 1,44 |
| 313667 | 30 x 8 mm x 3-4 m | 1,92 |

Automatstål blyegert 11SMnPb30+C sekskantede



iflg. EN 10277

Toleranser ISO h11 iflg. EN 10278

* MERKING: Grønn ende.

Varegruppe: 7872

| Varenr. | Dimensjon | Kg/m |
|---------|----------------------|-------|
| 313745 | 11 mm x 6-KT x 3-4 m | 0,84 |
| 313746 | 13 mm x 6-KT x 3-4 m | 1,15 |
| 313747 | 19 mm x 6-KT x 3-4 m | 2,50 |
| 313749 | 24 mm x 6-KT x 3-4 m | 3,96 |
| 313750 | 27 mm x 6-KT x 3-4 m | 5,06 |
| 313751 | 32 mm x 6-KT x 3-4 m | 7,10 |
| 313752 | 41 mm x 6-KT x 3-4 m | 11,70 |
| 313753 | 46 mm x 6-KT x 3-4 m | 14,70 |

| Varenr. | Dimensjon | Kg/m |
|---------|-----------------------|-------|
| 313673 | 30 x 10 mm x 3-4 m | 2,40 |
| 313656 | 40 x 5 mm x 3-4 m | 1,60 |
| 313663 | 40 x 6 mm x 3-4 m | 1,92 |
| 313668 | 40 x 8 mm x 5-5,1 m * | 2,56 |
| 313674 | 40 x 10 mm x 3-4 m | 3,20 |
| 313685 | 40 x 20 mm x 3-4 m | 6,41 |
| 313657 | 50 x 5 mm x 3-4 m | 2,00 |
| 313664 | 50 x 6 mm x 3-4 m | 2,40 |
| 313669 | 50 x 8 mm x 3-4 m | 3,20 |
| 313675 | 50 x 10 mm x 3-4 m | 4,00 |
| 313679 | 50 x 12 mm x 3-4 m | 4,80 |
| 313686 | 50 x 20 mm x 3-4 m | 8,01 |
| 313658 | 60 x 5 mm x 3-4 m | 2,40 |
| 313676 | 75 x 10 mm x 3-4 m | 6,01 |
| 313665 | 90 x 6 mm x 3-4 m | 4,32 |
| 313677 | 100 x 10 mm x 3-4 m | 8,01 |
| 313688 | 100 x 20 mm x 3-4 m | 16,00 |
| 313692 | 100 x 25 mm x 3-4 m | 20,00 |
| 313689 | 150 x 20 mm x 3-4 m | 24,00 |

Kilestål C45+C firkant

iflg. EN 10277
Kaldtrukket og levert med skarpe kanter
Toleranser iflg. DIN 6880
* MERKING: Blå ende

Varegruppe: 7210

| Varenr. | Dimensjon | Kg/m |
|---------|---------------------|------|
| 313645 | 5 mm x 4-KT x 3-4 m | 0,20 |
| 313646 | 6 mm x 4-KT x 3-4 m | 0,29 |

Kilestål C45+C flatt

iflg. EN 10277
Kaldtrukket og med skarpe kanter
Toleranser iflg. DIN 6880
* MERKING: Blå ende

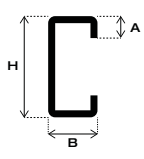
Varegruppe: 7212


| Varenr. | Dimensjon | Kg/m |
|---------|--------------------|-------|
| 313693 | 8 x 7 mm x 3-4 m | 0,45 |
| 313694 | 10 x 8 mm x 3-4 m | 0,64 |
| 313695 | 12 x 8 mm x 3-4 m | 0,77 |
| 313696 | 14 x 9 mm x 3-4 m | 1,01 |
| 313697 | 16 x 10 mm x 3-4 m | 1,28 |
| 313698 | 18 x 11 mm x 3-4 m | 1,59 |
| 313699 | 20 x 12 mm x 3-4 m | 1,92 |
| 313700 | 22 x 14 mm x 3-4 m | 2,47 |
| 313701 | 25 x 14 mm x 3-4 m | 2,80 |
| 313702 | 28 x 16 mm x 3-4 m | 3,59 |
| 313703 | 32 x 18 mm x 3-4 m | 4,61 |
| 313704 | 36 x 20 mm x 3-4 m | 5,77 |
| 313705 | 40 x 22 mm x 3-4 m | 7,05 |
| 313706 | 45 x 25 mm x 3-4 m | 9,01 |
| 313707 | 70 x 36 mm x 3-4 m | 20,20 |

6 Kaldformede produkter/tynnplater


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6 Kaldformede produkter/tynnplater

| Kaldformet C-profil S235JRC | |  | |
|---|-----------------------------|---|--------|
| iflg. EN 10025-2 Toleranser iflg. EN 10162 | | | |
| Varegruppe: 5640 | | | |
| Varenr. | Dimensjon | Kg/m | Kg/stk |
| 312665 | PU41- 26 (30x30x 8x2) x 6 m | 1,50 | 9,00 |
| 312666 | PU41-103 (80x40x15x3) x 6 m | 4,11 | 24,66 |
| 312667 | PU41-116 120x40x15x3) x 6 m | 5,07 | 30,42 |

| Kaldformet kanalstål S235JRC | |  | |
|--|-------------------------|---|--------|
| iflg. EN 10025-2 Toleranser iflg. EN 10048, EN 10051 og EN 10162 | | | |
| Varegruppe: 5643 | | | |
| Varenr. | Dimensjon | Kg/m | Kg/stk |
| 312633 | 15 x 15 x 1,5 mm x 6 m | 0,48 | 2,88 |
| 312634 | 20 x 20 x 2,0 mm x 6 m | 0,85 | 5,10 |
| 312635 | 25 x 25 x 2,0 mm x 6 m | 1,09 | 6,54 |
| 312636 | 30 x 30 x 2,0 mm x 6 m | 1,34 | 8,04 |
| 312637 | 30 x 30 x 3,0 mm x 6 m | 1,90 | 11,40 |
| 312638 | 40 x 20 x 2,0 mm x 6 m | 1,17 | 7,02 |
| 312639 | 40 x 40 x 2,0 mm x 6 m | 1,82 | 10,92 |
| 312640 | 40 x 40 x 3,0 mm x 6 m | 2,64 | 15,84 |
| 312641 | 50 x 30 x 3,0 mm x 6 m | 2,40 | 14,40 |
| 312642 | 50 x 40 x 3,0 mm x 6 m | 2,88 | 17,28 |
| 312643 | 50 x 50 x 3,0 mm x 6 m | 3,37 | 20,22 |
| 312644 | 50 x 50 x 4,0 mm x 6 m | 4,39 | 26,34 |
| 312645 | 60 x 30 x 3,0 mm x 6 m | 2,64 | 15,84 |
| 312646 | 60 x 40 x 3,0 mm x 6 m | 3,12 | 18,72 |
| 312647 | 70 x 30 x 3,0 mm x 6 m | 2,88 | 17,28 |
| 312648 | 70 x 40 x 4,0 mm x 6 m | 4,37 | 26,22 |
| 312649 | 80 x 40 x 3,0 mm x 6 m | 3,59 | 21,54 |
| 312650 | 80 x 40 x 4,0 mm x 6 m | 4,66 | 27,96 |
| 312651 | 80 x 50 x 4,0 mm x 6 m | 5,27 | 31,62 |
| 312652 | 100 x 50 x 3,0 mm x 6 m | 4,55 | 27,30 |
| 312653 | 100 x 50 x 4,0 mm x 6 m | 5,92 | 35,52 |
| 312654 | 100 x 50 x 6,0 mm x 6 m | 8,56 | 51,36 |
| 312655 | 100 x 60 x 6,0 mm x 6 m | 9,41 | 56,46 |
| 312656 | 120 x 50 x 4,0 mm x 6 m | 6,58 | 39,48 |

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-------------------------|-------|--------|
| 312657 | 120 x 60 x 6,0 mm x 6 m | 10,50 | 63,00 |
| 312658 | 140 x 60 x 4,0 mm x 6 m | 7,85 | 47,10 |
| 312659 | 140 x 60 x 6,0 mm x 6 m | 11,40 | 68,40 |
| 312660 | 160 x 50 x 4,0 mm x 6 m | 7,81 | 46,86 |
| 312661 | 160 x 60 x 5,0 mm x 6 m | 10,40 | 62,40 |
| 312662 | 160 x 60 x 6,0 mm x 6 m | 12,30 | 73,80 |
| 312663 | 180 x 60 x 5,0 mm x 6 m | 11,20 | 67,20 |
| 312664 | 200 x 80 x 6,0 mm x 6 m | 16,10 | 96,60 |

| Kaldformet vinkelstål S235JRC | |  | |
|---|-----------------------|---|--------|
| iflg. EN 10025-2 Toleranser iflg. EN 10162 | | | |
| Varegruppe: 5642 | | | |
| Varenr. | Dimensjon | Kg/m | Kg/stk |
| 312622 | 20 x 20 x 2 mm x 6 m | 0,59 | 3,54 |
| 312623 | 25 x 25 x 2 mm x 6 m | 0,75 | 4,50 |
| 312624 | 30 x 30 x 2 mm x 6 m | 0,91 | 5,46 |
| 312625 | 40 x 20 x 2 mm x 6 m | 0,91 | 5,46 |
| 312626 | 40 x 40 x 2 mm x 6 m | 1,22 | 7,32 |
| 312627 | 40 x 40 x 3 mm x 6 m | 1,80 | 10,80 |
| 312628 | 50 x 50 x 3 mm x 6 m | 2,28 | 13,68 |
| 312629 | 50 x 30 x 3 mm x 6 m | 1,80 | 10,80 |
| 312630 | 60 x 40 x 3 mm x 6 m | 2,28 | 13,68 |
| 312631 | 70 x 70 x 5 mm x 6 m | 5,23 | 31,38 |
| 312632 | 100 x 50 x 4 mm x 6 m | 4,59 | 27,54 |

| Kaldvalset coil DC01AM | |  | |
|---|----------------|---|--|
| iflg. NS-EN 10 130 Lett oljet. Levert med skårne kanter. Breddetoleranse +/- 0,5 mm Øvrige toleranser iflg. NS-EN 10 131 | | | |
| Varegruppe: 4010 | | | |
| Varenr. | Dimensjon | Kg/stk | |
| 315578 | 20,0 x 0,90 mm | 27 | |
| 315579 | 25,0 x 0,90 mm | 27 | |

Kaldvalsede stålplater DC01AM



DC01AM iflg. EN 10130
Prøverapport iflg. EN10204-2.2.
Toleranser iflg. EN 10131. Lett oljet.
I pakker a ca. 2000 kg
på langsgående og tverrgående trelabaner

Varegruppe: 4010

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|-----------------------|--------|-------------------|
| 33692 | 0,50 x 1000 x 2000 mm | 8,00 | 4,00 |
| 88588 | 0,70 x 1000 x 2000 mm | 11,20 | 5,60 |
| 93705 | 0,70 x 1250 x 2500 mm | 17,50 | 5,60 |
| 19750 | 0,90 x 1000 x 2000 mm | 14,40 | 7,20 |
| 311472 | 0,90 x 1250 x 2500 mm | 22,50 | 7,20 |
| 35069 | 1,00 x 1000 x 2000 mm | 16,00 | 8,00 |
| 82533 | 1,00 x 1250 x 2500 mm | 25,00 | 8,00 |
| 40319 | 1,00 x 1500 x 3000 mm | 36,00 | 8,00 |
| 60119 | 1,25 x 1000 x 2000 mm | 20,00 | 10,00 |
| 80311 | 1,25 x 1250 x 2500 mm | 31,20 | 10,00 |
| 315972 | 1,25 x 1250 x 3000 mm | 37,50 | 10,00 |
| 31872 | 1,25 x 1500 x 3000 mm | 45,00 | 10,00 |
| 78424 | 1,50 x 1000 x 2000 mm | 24,00 | 12,00 |
| 311473 | 1,50 x 1250 x 2000 mm | 30,00 | 12,00 |
| 53240 | 1,50 x 1250 x 2500 mm | 37,50 | 12,00 |
| 41116 | 1,50 x 1500 x 3000 mm | 54,00 | 12,00 |
| 47831 | 2,00 x 1000 x 2000 mm | 32,00 | 16,00 |
| 75961 | 2,00 x 1250 x 2500 mm | 50,00 | 16,00 |
| 49171 | 2,00 x 1500 x 3000 mm | 72,00 | 16,00 |
| 58582 | 2,50 x 1000 x 2000 mm | 40,00 | 20,00 |
| 68875 | 2,50 x 1250 x 2500 mm | 62,50 | 20,00 |
| 15047 | 3,00 x 1000 x 2000 mm | 48,00 | 24,00 |
| 24163 | 3,00 x 1250 x 2500 mm | 75,00 | 24,00 |
| 59156 | 3,00 x 1500 x 3000 mm | 108,00 | 24,00 |

Elektrolytisk galvaniserte stålplater DC01+ZE 25/25AP



iflg. EN DC01+ZE 25/25AP iflg. EN 10152.
Kromatert, sinkbelegg min. 2,5 µm (my) på
begge sider.
Toleranser iflg. EN 10131. I pakker a ca.
2000 kg
Prøverapport iflg. EN 10204-2.2. Produktet
skal oppfylle
EU direktiv 2002/95/EC RoHS

Varegruppe: 4510

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|-----------------------|--------|-------------------|
| 37465 | 0,70 x 1000 x 2000 mm | 11,20 | 5,60 |
| 311474 | 0,70 x 1250 x 2500 mm | 17,50 | 5,60 |
| 311475 | 0,90 x 1000 x 2000 mm | 14,40 | 7,20 |
| 311476 | 0,90 x 1250 x 2500 mm | 22,50 | 7,20 |
| 63719 | 1,00 x 1000 x 2000 mm | 16,00 | 8,00 |
| 56334 | 1,00 x 1250 x 2500 mm | 25,00 | 8,00 |
| 81604 | 1,25 x 1000 x 2000 mm | 20,00 | 10,00 |
| 76417 | 1,25 x 1250 x 2500 mm | 31,30 | 10,00 |
| 97676 | 1,50 x 1000 x 2000 mm | 24,00 | 12,00 |
| 86582 | 1,50 x 1250 x 2500 mm | 37,50 | 12,00 |
| 20760 | 2,00 x 1000 x 2000 mm | 32,00 | 16,00 |
| 46131 | 2,00 x 1250 x 2500 mm | 50,00 | 16,00 |

Varmgalvaniserte stålplater DX51D+Z275



DX51D+Z275 iflg. EN 10142. Sinkbelegg
275 g/m² tosidig kromatert, små sinkroser.
Toleranser iflg. EN 10143.
I pakker a ca. 2000 kg
OBS! Format 1250 x 2000 mm i pakker a
1000 kg.
Prøverapport iflg. EN 10204-2.2
Produktet skal oppfylle EU direktiv
2002/95/EC RoHS

Varegruppe: 4210

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|-----------------------|--------|-------------------|
| 311494 | 0,50 x 1000 x 2000 mm | 8,00 | 4,00 |
| 98682 | 0,60 x 1000 x 2000 mm | 9,60 | 4,80 |
| 311495 | 0,60 x 1250 x 2000 mm | 12,00 | 4,80 |
| 311496 | 0,60 x 1250 x 2500 mm | 15,00 | 4,80 |
| 311498 | 0,70 x 1000 x 2000 mm | 11,20 | 5,60 |
| 311497 | 0,70 x 1250 x 2000 mm | 14,00 | 5,60 |

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|-----------------------------|--------|-------------------|
| 15719 | 0,70 x 1250 x 2500 mm 1T PK | 17,50 | 5,60 |
| 311500 | 0,70 x 1250 x 3000 mm | 21,00 | 5,60 |
| 311499 | 0,70 x 1500 x 3000 mm | 25,20 | 5,60 |
| 29603 | 0,90 x 1000 x 2000 mm | 14,40 | 7,20 |
| 311501 | 0,90 x 1250 x 2000 mm | 18,00 | 7,20 |
| 21199 | 0,90 x 1250 x 2500 mm | 22,50 | 7,20 |
| 46322 | 1,00 x 1000 x 2000 mm | 16,00 | 8,00 |
| 33075 | 1,00 x 1250 x 2500 mm | 25,00 | 8,00 |
| 63923 | 1,25 x 1000 x 2000 mm | 20,00 | 10,00 |
| 311504 | 1,25 x 1250 x 2000 mm | 25,00 | 10,00 |
| 51624 | 1,25 x 1250 x 2500 mm | 31,30 | 10,00 |
| 76147 | 1,50 x 1000 x 2000 mm | 24,00 | 12,00 |
| 311508 | 1,50 x 1250 x 2200 mm | 33,00 | 12,00 |
| 64480 | 1,50 x 1250 x 2500 mm | 37,50 | 12,00 |
| 18423 | 2,00 x 1000 x 2000 mm | 32,00 | 16,00 |
| 311510 | 2,00 x 1250 x 2000 mm | 40,00 | 16,00 |
| 84499 | 2,00 x 1250 x 2500 mm | 50,00 | 16,00 |
| 91269 | 2,50 x 1000 x 2000 mm | 40,00 | 20,00 |
| 311511 | 2,50 x 1250 x 2500 mm | 62,50 | 20,00 |
| 90409 | 3,00 x 1000 x 2000 mm | 48,00 | 24,00 |
| 18172 | 3,00 x 1250 x 2500 mm | 75,00 | 24,00 |

ALUZINK, aluminium/ sinkbelagte stålplater i kval. DX51D+AZ.



Belegg av sink og aluminium 150 g/m²
tosidig. Prøverapport iflg. EN 10204-2.2.
Spaltet og klippet
Toleranser iflg. EN 10143
2002/95/EC RoHS

Varegruppe: 4410

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|--------------------------|--------|-------------------|
| 311479 | 0,50 x 1000 x 2000 mm | 8,0 | 4,0 |
| 64318 | 0,70 x 1000 x 2000 mm | 11,2 | 5,6 |
| 311480 | 0,70 x 1250 x 2000 mm | 14,0 | 5,6 |
| 311481 | 0,70 x 1250 x 2500 mm | 17,5 | 5,6 |
| 311482 | 0,90 x 1000 x 2000 mm | 14,4 | 7,2 |
| 311483 | 0,90 x 1250 x 2500 mm | 22,5 | 7,2 |
| 18122 | 1,00 x 1000 x 2000 mm | 16,0 | 8,0 |
| 311484 | 1,00 x 1000 x 2000 mm TV | 16,0 | 8,0 |
| 18303 | 1,00 x 1250 x 2500 mm | 25,0 | 8,0 |
| 311485 | 1,00 x 1250 x 2500 mm TV | 25,0 | 8,0 |
| 18486 | 1,25 x 1000 x 2000 mm | 20,0 | 10,0 |
| 18858 | 1,25 x 1250 x 2500 mm | 31,3 | 10,0 |
| 19047 | 1,50 x 1000 x 2000 mm | 24,0 | 12,0 |

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|-----------------------|--------|-------------------|
| 311488 | 1,50 x 1250 x 2000 mm | 30,0 | 12,0 |
| 19238 | 1,50 x 1250 x 2500 mm | 37,5 | 12,0 |
| 311490 | 1,50 x 1500 x 3000 mm | 54,0 | 12,0 |
| 76049 | 2,00 x 1000 x 2000 mm | 32,0 | 16,0 |
| 81768 | 2,00 x 1250 x 2500 mm | 50,0 | 16,0 |

ALUZINK, aluminium/ sinkbelagte - PLX stålbånd



Varenr 311477

iflg. EN 10215.
Belegg sink og aluminium
185 g/kvm tosidig.
Toleranser iflg. EN 10143.
Prøverapport iflg. EN 10204 - 2.2
Produktet skal oppfylle
EU direktiv 2002/95/EC RoHS



Varenr 311478

Varegruppe: 4417

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|--|--------|-------------------|
| 311477 | ALUZINK-PLX STÅLBÅND 0,60 x 670 mm | | 4,8 |
| 311478 | ALUZINK-PLATE AZ.185 0,60x1230x2000 | 12 | 4,8 |

Perforerte stålplater DC01



DC01AM iflg. EN 10130
for tykkelse 1,0 og 2,0 mm.
S235JR iflg. EN 10025-2
for tykkelse 6,0 og 8,0 mm.
Format 1000 x 2000 mm.

Varegruppe: 4004

| Varenr. | Dimensjon | Kg/stk |
|---------|---------------------------------|--------|
| 311460 | 0,7 mm M / 3 mm Ø HULL GALV | 7,80 |
| 311461 | 1,0 mm M / 3 mm Ø HULL | 10,80 |
| 311462 | 1,0 mm M / 3 mm Ø HULL GALV | 10,80 |
| 311465 | 1,0 mm M / 5 mm Ø HULL | 9,60 |
| 311467 | 1,0 mm M / 9,5 mm 4-KT HULL | 7,90 |
| 311464 | 1,0 mm M / 10 mm 4-KT HULL GALV | 5,00 |
| 311466 | 1,0 mm M / 10 mm Ø HULL | 7,00 |
| 311468 | 1,5 mm M / 5 mm Ø HULL | 14,30 |
| 311469 | 1,5 mm M / 10 mm Ø HULL | 14,40 |
| 311470 | 2,0 mm M / 5 mm Ø HULL | 20,70 |
| 311471 | 2,0 mm M / 10 mm Ø HULL | 14,00 |

Varmgalvaniserte coils DX51D+Z275



DX51D+Z275 iflg. EN 10142. Små sinkroser. Toleranser iflg. EN 10143. NB! For 1250 mm bredde må innvendig dia. være 610 mm. For andre bredder kan 508 mm dia godtas. Prøverapport iflg. EN 10204-2.2. Produktet skal oppfylle EU direktiv 2002/95/EC RoHS

Varegruppe: 4200

| Varenr. | Dimensjon | Kg/stk |
|---------|------------------------|--------|
| 311515 | 0,50 x 600 mm 500 kg | 500 |
| 311516 | 0,60 x 600 mm 500 kg | 500 |
| 311517 | 0,70 x 1000 mm 500 kg | 500 |
| 311520 | 0,90 x 1250 mm 1200 kg | 1200 |
| 315554 | 20 x 1 mm 27 kg | 27 |
| 315555 | 25 x 1 mm 7 kg | 7 |
| 315556 | 25 x 1 mm 5 kg | 5 |
| 315557 | 25 x 1 mm 27 kg | 27 |

PRELAQ PL 200 M LÆRPREGET



Plastisol, plastbelagte stålplater (200my) med lærpreg Pakker a 250 m²

Varegruppe: 4602

| Varenr. | Dimensjon | Kg/stk | Kg/m2 |
|---------|--------------------------------|--------|-------|
| 311527 | 015 SORT 0,50 x 1250 x 2000 mm | 10,25 | 4,10 |
| 311528 | 015 SORT 0,60 x 1250 x 2000 mm | 12,00 | 4,80 |
| 311529 | 015 SORT 0,60 x 1250 x 2500 mm | 15,00 | 4,80 |
| 311530 | 010 HVIT 0,60 x 1250 x 2000 mm | 12,00 | 4,80 |
| 311531 | 010 HVIT 0,60 x 1250 x 2500 mm | 15,00 | 4,80 |
| 311532 | 384 BRUN 0,60 x 1250 x 2000 mm | 12,00 | 4,80 |
| 311534 | 035 GGRÅ 0,60 x 1250 x 2000 mm | 12,00 | 4,80 |
| 311535 | 244 Z.GR 0,60 x 1250 x 2000 mm | 12,00 | 4,80 |
| 311536 | 244 Z.GR 0,60 x 1250 x 2500 mm | 15,00 | 4,80 |
| 311537 | 087 AGRÅ 0,60 x 1250 x 2000 mm | 12,00 | 4,80 |
| 311538 | 022 LGRÅ 0,60 x 1250 x 2000 mm | 12,00 | 4,80 |
| 311539 | 742 TRØD 0,60 x 1250 x 2000 mm | 12,00 | 4,80 |
| 311540 | 418 RØD 0,60 x 1250 x 2000 mm | 12,00 | 4,80 |
| 311541 | 418 RØD 0,60 x 1250 x 2500 mm | 15,00 | 4,80 |

PRELAQ COIL 200 M LÆRPREGET



Coil a 250m²

Varegruppe: 4606

| Varenr. | Dimensjon | Kg/stk | Kg/m2 |
|---------|-------------------------|--------|-------|
| 311570 | 0,15 SORT 0,6 x 1250 mm | 1680 | 4,8 |
| 311571 | 0,15 HVIT 0,6 x 1250 mm | 1680 | 4,8 |

PRELAQ GREENCOAT M/FOLIE



Pakker a 250 m²

Varegruppe: 4604

| Varenr. | Dimensjon | Kg/stk | Kg/m2 |
|---------|-------------------------------|--------|-------|
| 311542 | 015 SORT 0,60 x 1250 x 2000 | 12 | 4,8 |
| 311543 | 015 SORT 0,60 x 1250 x 2500 | 15 | 4,8 |
| 311544 | 001 HVIT 0,60 x 1250 x 2000 | 12 | 4,8 |
| 311545 | 001 HVIT 0,60 x 1250 x 2500 | 15 | 4,8 |
| 311546 | 742 T.RØD 0,60 x 1250 x 2000 | 12 | 4,8 |
| 311547 | 045 SØLV-M 0,60 x 1250 x 2000 | 12 | 4,8 |
| 311548 | 758 M.RØD 0,60 x 1250 x 2000 | 12 | 4,8 |
| 311549 | 244 Z-GRÅ 0,60 x 1250 x 2000 | 12 | 4,8 |
| 311550 | 244 Z-GRÅ 0,60 x 1250 x 2500 | 15 | 4,8 |
| 311551 | 087 ANTGRÅ 0,60 x 1250 x 2000 | 12 | 4,8 |
| 311552 | 044 SØLV-M 0,60 x 1250 x 2000 | 12 | 4,8 |
| 311553 | 434 BRUN 0,60 x 1250 x 2000 | 12 | 4,8 |

**COLORCOAT
HPS200 ULTRA**Pakker a 250 m²

Varegruppe: 4605

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|--|--------|-------------------|
| 311555 | HPS 200U 00E53 SORT 0,6 x 1250 x 2000 | 12 | 4,8 |
| 311556 | HPS 200U 00E53 SORT 0,6 x 1250 x 2500 | 15 | 4,8 |
| 311557 | HPS 200U 00E53 SORT 0,6 x 1250 x 3000 | 18 | 4,8 |
| 311558 | HPS 200U 08B29 mBRUN 0,6 x 1250 x 2500 | 15 | 4,8 |
| 311559 | HPS 200U 04C39 RBRUN 0,6 x 1250 x 2000 | 12 | 4,8 |
| 311560 | HPS 200U 04C39 RBRUN 0,6 x 1250 x 2500 | 15 | 4,8 |
| 311561 | HPS 200U 08B29 mBRUN 0,6 x 1250 x 2000 | 12 | 4,8 |
| 311562 | HPS 200U 00E55 HVIT 0,6 x 1250 x 2500 | 15 | 4,8 |
| 311563 | HPS 200U 00E55 HVIT 0,6 x 1250 x 2000 | 12 | 4,8 |
| 311564 | HPS 200U 10A05 L.GRÅ 0,6 x 1250 x 2000 | 12 | 4,8 |
| 311565 | HPS 200U 10A05 L.GRÅ 0,6 x 1250 x 2500 | 15 | 4,8 |
| 311566 | HPS 200U 18B25 m.GRÅ 0,6 x 1250 x 2000 | 12 | 4,8 |
| 311567 | HPS 200U 18B25 m.GRÅ 0,6 x 1250 x 2500 | 15 | 4,8 |
| 311568 | PRISMA 50 MY S MET. 0,6 x 1250 x 2000 | 12 | 4,8 |
| 311569 | PRISMA 50 MY OR MET 0,6 x 1250 x 2000 | 12 | 4,8 |
| 321575 | HPS 200U ANTRASITGRÅ 0,6 x 1250 x 2500 | 15 | 4,8 |

**COLORCOAT
HPS200 ULTRA
COIL**Pakker a 250 m²

Varegruppe: 4607

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|-------------------------------------|--------|-------------------|
| 311572 | CL HPS 200U 00E53 SORT 0,6 x 1250mm | 1200 | 4,8 |
| 311573 | CL HPS 200U 00E55 HVIT 0,6 x 1250mm | 1200 | 4,8 |
| 311574 | CL HPS 200U 10A05 LGRÅ 0,6 x 1250mm | 1200 | 4,8 |


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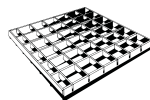

7 Gitterrister og strekkmetall

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| Kjøresterke press-inn gitterrister, varmforzinket..... | 54 |
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| Strekkmetall stål og aluminium..... | 56 |



7 Gitterrister

Fotskraperister varmforzinket



Type Press-Inn
Maskevidde 30x10 mm
Første mål i formatet angir bæreståll/gangretningen
*Andre formater på forespørsel
*Løse børster på forespørsel - kan ettermonteres
*Utførelse i rustfritt/rustfritt syrefast eller aluminium kan leveres på forespørsel

Varegruppe: 5731

| Varenr. | Dimensjon | Kg/stk |
|---------|-----------------------------|--------|
| 312937 | 400 x 600, 30x10, 25x2 mm | 7,33 |
| 312938 | 400 x 800, 30x10, 25x2 mm | 9,77 |
| 312939 | 600 x 1000, 30x10, 30x2 mm | 19,97 |
| 312940 | 600 x 1200, 30x10, 30x2 mm | 23,96 |
| 312941 | 700 x 900, 30x10, 30x2 mm | 20,96 |
| 312942 | 700 x 1000, 30x10, 30x2 mm | 23,30 |
| 312943 | 800 x 1000, 30x10, 30x2 mm | 26,62 |
| 312944 | 1000 x 1000, 30x10, 30x2 mm | 33,28 |
| 312945 | 1000 x 1200, 30x10, 30x2 mm | 39,94 |

Kjøresterke press-inn gitterrister varmforzinket

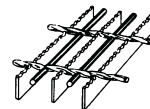


Maskevidde 30x30 mm
Første mål i formatet angir bærestållretningen
*Andre formater på forespørsel
*Utførelse i rustfritt/rustfritt syrefast eller aluminium kan leveres på forespørsel

Varegruppe: 5734

| Varenr. | Dimensjon | Kg/stk |
|---------|----------------------------|--------|
| 312955 | 300 x 1000, 30x30, 30x3 mm | 10,13 |
| 312956 | 300 x 1000, 30x30, 40x3 mm | 12,95 |
| 312957 | 400 x 1000, 30x30, 40x3 mm | 16,54 |
| 312958 | 500 x 1000, 30x30, 50x3 mm | 24,51 |

Offshore gitterrister med kulekrav ø15 mm



Type Press-sveiset
G = Varmgalvanisert utførelse (angitt vekt som varmgalvanisert)
U = Ubehandlet utførelse (angitt vekt som ubehandlet)
Første formatmål angir bærestållretningen
*Offshoretrinn med sparkekant og kulekrav ø15 mm på forespørsel

Varegruppe: 5736

| Varenr. | Dimensjon | Kg/stk |
|---------|-----------------------------------|--------|
| 312959 | 6100 x 1000, S38x101, 25x5 mm - U | 221,00 |
| 312960 | 6100 x 1000, S38x101, 30x5 mm - U | 253,00 |
| 312961 | 6100 x 1000, S38x101, 35x5 mm - U | 286,00 |
| 312962 | 6100 x 1000, S38x101, 50x5 mm - U | 359,00 |
| 312963 | 6100 x 1000, S38x101, 25x5 mm - G | 238,00 |
| 312964 | 6100 x 1000, S38x101, 30x5 mm - G | 272,00 |
| 312965 | 6100 x 1000, S38x101, 35x5 mm - G | 307,00 |
| 312966 | 6100 x 1000, S38x101, 50x5 mm - G | 385,00 |

Festedetaljer (universal) for gitterrister og innstøpningsvinkler



Vinkler med klør for innstøpning i betong

Varegruppe: 5733

| Varenr. | Dimensjon | Kg/stk |
|---|---|--------|
| 312947 | UNIVERSAL OVERDEL FZV, FESTEKLIPS RISTER | 0,05 |
| 312948 | UNIVERSAL UNDERDEL FZV, FESTEKLIPS RISTER | 0,07 |
| 312949 | RUSTFRI BOLT, M8 x 80 mm, DIN 7991 | 0,02 |
| 312950 | RUSTFRI MUTTER, M8, DIN 557 | 0,01 |
| Vinkler med klør for innstøpning i betong: | | |
| 312951 | VINKELSTÅL 30x30x4 m/KLØR x 3 m - FZV | 5,70 |
| 312952 | VINKELSTÅL 35x35x4 m/KLØR x 3 m - FZV | 6,80 |
| 312953 | VINKELSTÅL 45x45x5 m/KLØR x 3 m - FZV | 10,90 |
| 312954 | VINKELSTÅL 55x55x6 m/KLØR x 3 m - FZV | 16,00 |

Gitterstrinn varmforzinket



Type PS (pressveist): Maskevidde (lysåpning)
30 x 30 mm

Vridde tverrstål og perforert trappene

Type PI (press-inn): Maskevidde (lysåpning)
30 x 14 mm

* Type PI tilfredsstillende kravet til at $\varnothing 15$ mm kule ikke skal falle gjennom.

- Sagtannet tverrstål og perforert trappene

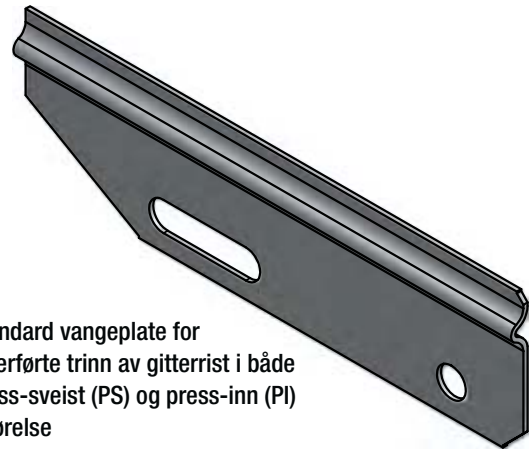
For begge typer gjelder på forespørsel:

- Repoer på forespørsel
- Leveres med sparkelist på forespørsel
- Leveres i rustfritt/rustfritt syrefast eller aluminium

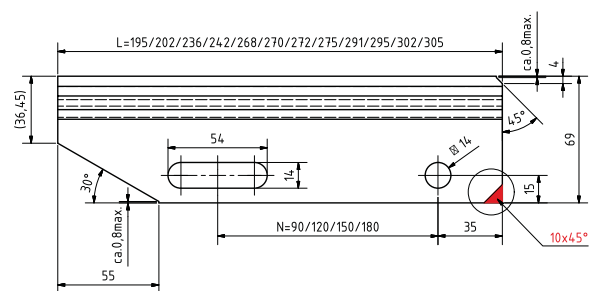
Varegruppe: 5737

| Varenr. | Dimensjon | Kg/stk |
|---------|---------------------------------|--------|
| 312967 | PS 500 x 170, 30x30, 25x2 mm | 2,60 |
| 312968 | PS 500 x 200, 30x30, 25x2 mm | 2,90 |
| 312970 | PS 600 x 240, 30x30, 30x2 mm | 3,50 |
| 312972 | PS 700 x 200, 30x30, 30x2 mm | 4,00 |
| 312973 | PS 700 x 240, 30x30, 30x2 mm | 4,20 |
| 312975 | PS 800 x 200, 30x30, 30x2 mm | 4,10 |
| 312976 | PS 800 x 240, 30x30, 30x2 mm | 4,50 |
| 312978 | PS 900 x 240, 30x30, 35x2 mm | 5,00 |
| 312979 | PS 900 x 270, 30x30, 35x2 mm | 5,50 |
| 312980 | PS 1000 x 240, 30x30, 35x2 mm | 5,50 |
| 312982 | PS 1000 x 270, 30x30, 35x2 mm | 6,00 |
| 312969 | PI 600 x 200, 30x14, 30x2 mm * | 4,00 |
| 312971 | PI 700 x 200, 30x14, 30x2 mm * | 5,00 |
| 312974 | PI 800 x 200, 30x14, 30x2 mm * | 5,10 |
| 312977 | PI 800 x 265, 30x14, 30x2 mm * | 8,00 |
| 312981 | PI 1000 x 265, 30x14, 35x2 mm * | 10,00 |
| 312983 | PI 1200 x 265, 30x14, 35x2 mm * | 12,00 |

Gitterstrinn

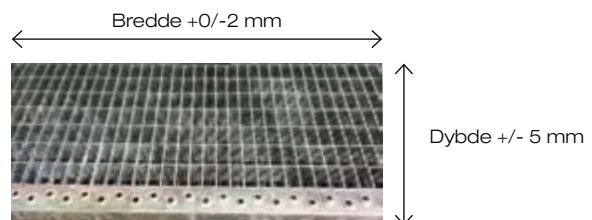


Standard vangeplate for
lagerførte trinn av gitterrist i både
press-sveist (PS) og press-inn (PI)
utførelse



Standard borbilde for trinn av gitterrist i både press-sveist
(PS) og press-inn (PI) utførelse

Toleranse



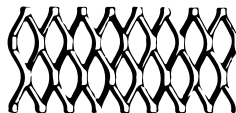
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Strekkmetall stål og aluminium



Formatet angis med maskenes lengderetning først (f.eks. 2500 x 1250)
Strekkmetall har størst bærevne i maskenes lengderetning

For vanlig strekkmetall angis maskestørrelsen mellom strengenes skjæringspunkter (senter / senter)

For flatvalset strekkmetall angis maskeåpning med største og minste innvendige diagonaler

Andre formater / utførelser på forespørsel

Varegruppe: 5710 – Stål

Varegruppe: 6016 – Aluminium

| Artikkel nr | Expanded Metal nr | Type | Format mm | Maskeåpning mm | Strenger B x T mm | Material | Vekt pr stk KG | Lysåpning Målt i % |
|-------------|-------------------|------------|-------------|----------------|-------------------|--------------|----------------|--------------------|
| 312904 | 2496 | Vanlig TS | 1000 x 2000 | 60,96 x 25,40 | 6,10 x 4,50 | Stål - galv. | 38,05 | 52 |
| 312905 | 2496 | Vanlig TS | 1000 x 2000 | 60,96 x 25,40 | 6,10 x 4,50 | Stål - ubh. | 34,59 | 52 |
| 312906 | 2496 | Vanlig TS | 1300 x 2000 | 60,96 x 25,40 | 6,10 x 4,50 | Stål - ubh. | 44,96 | 52 |
| 312909 | 2491 | Vanlig TS | 1000 x 2285 | 60,96 x 25,40 | 6,10 x 3,00 | Stål - ubh. | 25,81 | 52 |
| 312910 | 2491 | Vanlig TS | 1200 x 2285 | 60,96 x 25,40 | 6,10 x 3,00 | Stål - ubh. | 30,98 | 52 |
| | | | | | | | | |
| 312913 | 2074F | Flatvalset | 1000 x 2000 | 50,80 x 21,77 | 4,32 x 3,00 | Stål - galv. | 16,61 | 60 |
| 312914 | 2074F | Flatvalset | 1200 x 2000 | 50,80 x 21,77 | 4,32 x 3,00 | Stål - ubh. | 18,12 | 60 |
| 312915 | 2074F | Flatvalset | 1200 x 2000 | 50,80 x 21,77 | 4,32 x 3,00 | Stål - galv. | 19,93 | 60 |
| 312916 | 2074F | Flatvalset | 1200 x 2400 | 50,80 x 21,77 | 4,32 x 3,00 | Stål - ubh. | 21,74 | 60 |
| 312917 | 2074F | Flatvalset | 1200 x 2400 | 50,80 x 21,77 | 4,32 x 3,00 | Stål - galv. | 23,91 | 60 |
| 312918 | 3394F | Flatvalset | 1220 x 2440 | 85,73 x 39,32 | 4,75 x 2,50 | Stål - ubh. | 11,83 | 76 |
| | | | | | | | | |
| 312919 | 220 | Finmasket | 1250 x 1250 | 5,84 x 3,50 | 0,79 x 0,60 | Stål - ubh. | 3,30 | 55 |
| | | | | | | | | |
| 312921 | N0647F | Flatvalset | 2440 x 1220 | 38,10 x 16,93 | 2,13 x 1,20 | Stål - galv. | 7,63 | 75 |
| 312924 | 1280F | Flatvalset | 2440 x 1220 | 30,48 x 11,72 | 2,36 x 1,20 | Stål - ubh. | 10,84 | 60 |
| | | | | | | | | |
| 312927 | 1576 | Vanlig TS | 1000 x 2000 | 38,10 x 16,93 | 4,75 x 3,00 | Stål - ubh. | 26,40 | 44 |
| 312929 | 1576 | Vanlig TS | 1500 x 2000 | 38,10 x 16,93 | 4,75 x 3,00 | Stål - ubh. | 39,60 | 44 |
| | | | | | | | | |
| 312936 | N6664F | Flatvalset | 1250 x 2500 | 8 x 5,98 | 1,40 x 0,70 | Stål - galv. | 7,38 | 53 |
| | | | | | | | | |
| 313342 | 2496A | Vanlig TS | 2500 x 1250 | 60,96 x 25,4 | 5,82 x 4,70 | Aluminium | 18,46 | 54 |
| 313343 | 2496A | Vanlig TS | 1250 x 2800 | 60,96 x 25,4 | 5,82 x 4,70 | Aluminium | 20,67 | 54 |

8 Bygg og anleggsprodukter

Armeringsstål

| | |
|---------------------------------|----|
| Kamstål NS 3576-3 B500NC | 58 |
| Kamstål rustfritt LDX2101 | 58 |

Armeringsnett

| | |
|--------------------------------------|----|
| Armeringsnett NS 3576-4 B500NA | 58 |
|--------------------------------------|----|

Armeringstilbehør

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|--|----|
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| Armeringsstoler og vinkler | 60 |
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| Avstandskanal for mykt underlag | 60 |
| Formstag | 61 |
| Jernbindertråd | 61 |
| Ståltråd glødd i ringer på ca. 25 kg | 61 |
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| Vegghester | 62 |
| Vernehylser | 62 |

8 Bygg og anleggs- produkter

Kamstål NS 3576-3 B500NC. Kontrollsertifikat ihht EN 10204-3.1



Kamstål i rette lengder har to rekker med utstikkende kammer samt to langsgående ribber. Kammene kommer i tillegg til stålets diameter. Høyden på kammene er minimum kamhøyde i mm:

øk 8 øk 10 øk 12 øk 16 øk 20 øk 25 øk 32
0,4 0,5 0,6 0,8 1,0 1,2 1,6

Andre lengder samt kamstål øk 40 mm og coil lagerføres også, men det kan variere avdelingsvis.

Varegruppe: 2002

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|--------------|------|--------|
| 334113 | 8 mm x 6 m | 0,40 | 2,42 |
| 334113 | 8 mm x 12 m | 0,40 | 4,83 |
| 334114 | 10 mm x 6 m | 0,63 | 3,78 |
| 334114 | 10 mm x 12 m | 0,63 | 7,55 |
| 334115 | 12 mm x 6 m | 0,91 | 5,43 |
| 334115 | 12 mm x 12 m | 0,91 | 10,87 |
| 334116 | 16 mm x 6 m | 1,61 | 9,67 |
| 334116 | 16 mm x 12 m | 1,61 | 19,34 |
| 334117 | 20 mm x 6 m | 2,52 | 15,12 |
| 334117 | 20 mm x 12 m | 2,52 | 30,23 |
| 334118 | 25 mm x 6 m | 3,93 | 23,56 |
| 334118 | 25 mm x 12 m | 3,93 | 47,12 |
| 334119 | 32 mm x 6 m | 6,44 | 38,64 |
| 334119 | 32 mm x 12 m | 6,44 | 77,23 |

Kamstål rustfritt LDX2101



Lean Duplex 2101 – Korrosjonsmotstanden på LDX2101 er bedre enn for AISI 304L, tilsvarende 316L. Styrke tilsvarende B500C.

Varegruppe: 2001

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|------------|------|--------|
| 310077 | Ø6 x 6 m | 0,25 | 1,50 |
| 310078 | Ø8 x 6 m | 0,40 | 2,40 |
| 310079 | Ø10 x 6 m | 0,63 | 3,75 |
| 310080 | Ø12 x 6 m | 0,91 | 5,46 |
| 315262 | Ø12 x 12 m | 0,91 | 10,92 |
| 310081 | Ø16 x 6 m | 1,61 | 9,67 |
| 315263 | Ø16 x 12 m | 1,61 | 19,32 |
| 314256 | Ø20 x 6 m | 2,52 | 15,12 |
| 320645 | Ø20 x 12 m | 2,52 | 30,24 |
| 320646 | Ø25 x 6 m | 3,93 | 23,58 |
| 321267 | Ø25 x 12 m | 3,93 | 47,16 |
| 334151 | Ø32 x 6 m | 6,44 | 38,64 |

Armeringsnett NS 3576-4 B500NA



Armeringsnett har betegnelse etter om det er et pussnett (P) som ikke brukes som statisk armering, og nett der rutene er kvadratiske (K) og tråddiameter og tråddavstand er lik i begge retninger, eller om det er et nett der rutene er rektangulære (R) og tråddiameter og tråddiameter er ulik i begge retninger. Navnet på nettet er gitt etter armeringsarealet, dvs. antall mm² pr. m av lengde- og tverrtråder. Hvis nettet har betegnelsen S bak navnet, betyr det selvbyggernett som lagerføres i et mindre format.

Varegruppe: 2012

| Varenr. | Dimensjon | Stk pr bunt | Kg/stk |
|---------|------------------------------|-------------|--------|
| 310123 | B500NA K 335S 500 x 5000 mm | 58 | 14,62 |
| 310122 | B500NA K 131s 1200 x 2400 mm | 50 | 6,30 |
| 332488 | B500NA P 091s 1200 x 2400 mm | 204 | 4,50 |
| 310124 | B500NA P 091 2000 x 5000 mm | 70 | 14,20 |
| 310125 | B500NA K 131 2000 x 5000 mm | 50 | 21,00 |
| 334058 | B500NA K 189 2350 x 5000 mm | 40 | 35,00 |
| 310126 | B500NA K 189 2000 x 5000 mm | 40 | 30,20 |
| 310127 | B500NA K 257 2000 x 5000 mm | 30 | 41,10 |
| 310128 | B500NA P 283 2000 x 5000 mm | 25 | 44,40 |
| 310130 | B500NA K 335 2000 x 5000 mm | 20 | 53,70 |
| 310132 | B500NA K 402 2000 x 5000 mm | 20 | 66,00 |
| 310133 | B500NA K 503 2000 x 5000 mm | 20 | 79,00 |

 NORSK STÅL

Rullearmering

Spar tid på byggeplass - planlegg tidlig!



- Kamstål diameter 8 mm til 32 mm
- Lengde opptil 14 meter
- Senteravstand fra 50 – 300 mm
- Annenhvert jern kan veksles opp til 1 meter
- Kapplengde kan varieres.

Hva må du tenke på?

- Tidlig inn i fasen med ribben om å tenke rullenett
- Minst mulig oppstikk til hinder for rull
- Armeringstegninger
- Bøyelister PDF
- Snitt-tegninger
- Leveringstid er ca. 3 uker etter godkjente tegninger

www.norskstaal.no

Armeringsringer

Varegruppe: 2019

| Varenr. | Dimensjon |
|---------|-----------|
| 310184 | 20 mm |
| 310192 | 25 mm |
| 310189 | 30 mm |
| 310190 | 35 mm |
| 310191 | 50 mm |

Armeringsstoler og vinkler

Varegruppe: 2025

| Varenr. | Dimensjon | Kg/stk |
|---------|-----------------------------------|--------|
| 310140 | ARM.STOL 15/20 U/PL 100 | 100,00 |
| 310141 | ARM.STOL 25/30 U/PL 100 | 100,00 |
| 310155 | HJ.BESL.GALV. 50 x 50 x 5 mm | 25,20 |
| 310175 | ARM.STOL M/PLATE 70/80 | 0,04 |
| 310176 | ARM.STOL M/PL 25/30 | 0,02 |
| 310177 | ARM.STOL M/PLATE 30/40 | 0,02 |
| 310179 | ARM.STOL M/PLATE 40/50 | 0,03 |
| 310180 | ARM.STOL M/PLATE 50/60 | 0,04 |
| 310181 | ARM.STOL M/PLATE 15/20 | 0,03 |
| 310182 | ARM.STOL 25/30 PL 100ST | 100,00 |
| 310183 | ARM.STOL 40/50 PL 100ST | 100,00 |
| 310202 | ARM.STOL 15/20 mm | 0,01 |
| 310203 | ARM.STOL 25/30 mm | 0,02 |
| 310204 | ARM.STOL 30/40 mm | 0,02 |
| 310207 | ARMERINGSTOLER 40/50 mm | 0,03 |
| 310239 | ARM.VINKEL 10x500x500 | 0,62 |
| 310240 | ARM.VINKEL 12x600x600 | 1,07 |
| 312920 | STREKKMET 269 GA.RIBBE 2500 x 600 | 1,74 |
| 315803 | SØYLEARM 200/250 mm | 8,00 |

Avstandsholdere sterk type

Varegruppe: 2045

| Varenr. | Dimensjon | Kg/stk |
|---------|-----------|--------|
| 310253 | 50x2000 | 0,88 |
| 310254 | 60x2000 | 0,60 |
| 310255 | 80x2000 | 0,80 |
| 310256 | 100x2000 | 1,00 |
| 310257 | 120x2000 | 1,00 |
| 310258 | 140x2000 | 1,10 |
| 310259 | 160x2000 | 1,20 |
| 310260 | 180x2000 | 1,30 |
| 310261 | 200x2000 | 1,40 |
| 310262 | 250x2000 | 1,50 |

Avstandskanal for mykt underlag

Varegruppe: 2018

| Varenr. | Dimensjon |
|---------|-------------|
| 310211 | 15 mm x 2 m |
| 310212 | 25 mm x 2 m |
| 310213 | 30 mm x 2 m |
| 310214 | 35 mm x 2 m |
| 310208 | 40 mm x 2 m |
| 310209 | 50 mm x 2 m |
| 310210 | 60 mm x 2 m |

Formstag

Varegruppe: 2020

| Varenr. | Dimensjon |
|---------|------------------------|
| 310087 | 12,5-15-12,5 CM STD |
| 310088 | 12,5-20-12,5 CM STD |
| 310089 | 12,5-25-12,5 CM STD |
| 310090 | 22,5-15-22,5 CM STD |
| 310091 | 22,5-18-22,5 CM STD |
| 310092 | 22,5-20-22,5 CM STD |
| 310093 | 22,5-25-22,5 CM STD |
| 310094 | 22,5-30-22,5 CM STD |
| 310095 | 22,5-40-22,5 CM STD |
| 310096 | KILER FOR FORMSTAG |
| 310097 | 22,5-20-22,5 CM V.TETT |
| 310098 | 22,5-25-22,5 CM V.TETT |
| 315804 | 12,5-25-12,5 CM V.TETT |
| 315805 | 22,5-15-22,5 CM V.TETT |

Jernbindertråd

Varegruppe: 2029

| Varenr. | Dimensjon | Kg/stk |
|---------|--------------------------------|--------|
| 310134 | BINNETR 1,5mm x 0,6 m | 25,00 |
| 310135 | FORK.JERNB.TRÅD 1,50 mm á 200g | 25,00 |
| 310136 | FORK.JERNB.TRÅD 1,25 mm á 200g | 25,00 |
| 310137 | BINNETR 1,5 mm á 0,50 m | 25,00 |
| 310143 | TRÅD FOR B.MASKIN 0,8mm | 0,20 |

Ståltråd glødd i ringer på ca. 25 kg

1,00, 1,25 og 1,50 mm i 10 x 2,5 kgs bunter. På pall m/karm, kun en dimensjon pr. pall. Max 500 kg pr. pall.



Varegruppe: 6760

| Varenr. | Dimensjon | Kg/stk |
|---------|----------------------|--------|
| 312987 | 4,00 mm GALV | 25,00 |
| 312988 | 3,00 mm GALV | 25,00 |
| 312989 | 2,50 mm GALV | 25,00 |
| 312990 | 2,00 mm GALV | 25,00 |
| 312991 | 1,75 mm GALV | 25,00 |
| 312992 | 1,50 mm GALV | 25,00 |
| 312993 | 1,25 mm/10-DELT GALV | 25,00 |
| 312994 | 1,00 mm/10-DELT GALV | 25,00 |
| 315169 | 4,00 mm | 25,00 |
| 315200 | 5,00 mm | 25,00 |
| 315206 | 3,50 mm | 25,00 |
| 315208 | 3,00 mm | 25,00 |
| 315209 | 2,50 mm | 25,00 |
| 315249 | 2,00 mm | 25,00 |
| 315260 | 1,50 mm 10-DELT | 25,00 |
| 315261 | 1,25 mm 10-DELT | 25,00 |

OK stoler

Varegruppe: 2023

| Varenr. | Dimensjon | Kg/stk |
|---------|------------|--------|
| 310159 | H = 80 mm | 1,78 |
| 310160 | H = 100 mm | 1,82 |
| 310161 | H = 120 mm | 1,87 |
| 310162 | H = 140 mm | 1,92 |
| 310164 | H = 160 mm | 1,96 |
| 310165 | H = 170 mm | 1,99 |
| 310166 | H = 180 mm | 2,01 |

Skjøtejernskassetter

Varegruppe: 2036

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-------------------------------------|------|--------|
| 310065 | SKJØTEKASSETT E 75 10/150 x 1,25 m | 4,70 | 5,88 |
| 310066 | SKJØTEKASSETT E 55 10/200 x 1,25 m | 2,16 | 2,70 |
| 310067 | SKJØTEKASSETT E 85 12/150 x 1,25 m | 4,45 | 5,56 |
| 310068 | SKJØTEKASSETT D 115 10/150 x 1,25 m | 5,25 | 6,56 |
| 310069 | SKJØTEKASSETT D 145 10/150 x 1,25 m | 5,77 | 7,21 |
| 310070 | SKJØTEKASSETT D 115 10/200 x 1,25 m | 4,12 | 5,15 |
| 310071 | SKJØTEKASSETT D 145 10/200 x 1,25 m | 4,67 | 5,84 |
| 310072 | SKJØTEKASSETT D 165 12/150 x 1,25 m | 8,78 | 10,98 |
| 310073 | SKJØTEKASSETT D 145 12/200 x 1,25 m | 6,67 | 8,34 |
| 310074 | SKJØTEKASSETT D 165 12/200 x 1,25 m | 6,90 | 8,63 |
| 310075 | SKJØTEKASSETT D 145 12/150 x 1,25 m | 8,68 | 10,85 |
| 310076 | SKJØTEKASSETT D 115 12/150 x 1,25 m | 6,35 | 7,94 |

Samvirkeplater

COFRA PLUS 77,
0,75 galv. Z 275.

Varegruppe: 2037

| Varenr. | Dimensjon | Kg/stk |
|---------|---|--------|
| 310082 | 0,75 x 768 x 7200 x 5,53 m | 53,09 |
| 310083 | 0,75 x 768 x 10200 x 7,83 m | 75,17 |
| 310084 | 0,75 x 768 x 12200 x 9,37 m | 89,95 |
| 310085 | COFRA PLUS 77/0,75 GALV. Z275 TETTEB. 0,960 m | 0,10 |
| 310086 | COFRA PLUS 77/0,75 GALV. Z275 SKRUER 4,8x20 | 250,00 |

Sveiseplater enkle m/forankring

Varegruppe: 2039

| Varenr. | Dimensjon | Kg/stk |
|---------|-------------------------|--------|
| 310147 | 100 x 100 x 8, H = 70 | 1,00 |
| 310148 | 150 x 100 x 10, H = 70 | 1,50 |
| 310149 | 150 x 150 x 12, H = 160 | 2,70 |
| 310150 | 200 x 200 x 12, H = 160 | 5,00 |
| 310151 | 250 x 250 x 15, H = 160 | 7,10 |
| 310152 | 300 x 300 x 15, H = 165 | 11,90 |

Vegghester



Varegruppe: 2044

| Varenr. | Dimensjon | Kg/stk |
|---------|------------------------|--------|
| 310186 | TYPE MP 056 L 15 VEGGH | |
| 310187 | TYPE MP 056 L 20 VEGGH | |
| 310188 | TYPE MP 056 L 25 VEGGH | |
| 310225 | NETTHOLDER VEGG 200/30 | 0,10 |
| 310226 | NETTHOLDER VEGG 220/25 | 0,10 |

Vernehylser



Varegruppe: 2038

| Varenr. | Dimensjon |
|---------|----------------------|
| 310145 | BESK.HETTER 8-16 mm |
| 310146 | BESK.HETTER 16-32 mm |
| 325001 | ENDEPROPP 22 mm |


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anlegg



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9 Rustfritt og syrefast

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9 Rustfritt og syrefast

Rustfrie kaldvalsede stålplater 1.4301



ASTM A 480/240. EN 1.4301/AISI304
Finish 2B såfremt annet ikke er spesifisert (PVC/BA). Kaldvalset iflg. EN 10259
Kontrollsertifikat iflg. EN 10204 - 3.1 CE-merket

Varegruppe: 3211

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|--------------------------|--------|-------------------|
| 24660 | 2B 0,50 x 1000 x 2000 mm | 8,00 | 4,00 |
| 149444 | 2B 0,50 x 1250 x 2500 mm | 12,50 | 4,00 |
| 40678 | 2B 0,60 x 1000 x 2000 mm | 9,60 | 4,80 |
| 31143 | 2B 0,70 x 1000 x 2000 mm | 11,20 | 5,60 |
| 53450 | 2B 0,70 x 1250 x 2500 mm | 17,50 | 5,60 |
| 36240 | 2B 0,80 x 1000 x 2000 mm | 12,80 | 6,40 |
| 82002 | 2B 0,80 x 1250 x 2500 mm | 20,00 | 6,40 |
| 311088 | 2B 0,80 x 1500 x 3000 mm | 28,80 | 6,40 |
| 311089 | 2B 0,90 x 1000 x 2000 mm | 14,40 | 7,20 |
| 23035 | 2B 0,90 x 1250 x 2500 mm | 22,50 | 7,20 |
| 52119 | 2B 1,00 x 1000 x 2000 mm | 16,00 | 8,00 |
| 66056 | 2B 1,00 x 1250 x 2500 mm | 25,00 | 8,00 |
| 26658 | 2B 1,00 x 1500 x 3000 mm | 36,00 | 8,00 |
| 41564 | 2B 1,25 x 1000 x 2000 mm | 20,00 | 10,00 |
| 63195 | 2B 1,25 x 1250 x 2500 mm | 31,30 | 10,00 |
| 39379 | 2B 1,25 x 1500 x 3000 mm | 45,00 | 10,00 |
| 39591 | 2B 1,50 x 1000 x 2000 mm | 24,00 | 12,00 |
| 47246 | 2B 1,50 x 1250 x 2500 mm | 37,50 | 12,00 |
| 62850 | 2B 1,50 x 1500 x 3000 mm | 54,00 | 12,00 |
| 70799 | 2B 2,00 x 1000 x 2000 mm | 32,00 | 16,00 |
| 86991 | 2B 2,00 x 1250 x 2500 mm | 50,00 | 16,00 |
| 95234 | 2B 2,00 x 1500 x 3000 mm | 72,00 | 16,00 |
| 74663 | 2B 2,50 x 1000 x 2000 mm | 40,00 | 20,00 |
| 79281 | 2B 2,50 x 1250 x 2500 mm | 62,50 | 20,00 |
| 13576 | 2B 2,50 x 1500 x 3000 mm | 90,00 | 20,00 |
| 22015 | 2B 3,00 x 1000 x 2000 mm | 48,00 | 24,00 |
| 30552 | 2B 3,00 x 1250 x 2500 mm | 75,00 | 24,00 |
| 39187 | 2B 3,00 x 1500 x 3000 mm | 108,00 | 24,00 |
| 47647 | 2B 3,00 x 2000 x 4000 mm | 192 | 24,00 |
| 151154 | 2B 3,00 x 2000 x 6000 mm | 288 | 24,00 |
| 311096 | 2B 4,00 x 1000 x 2000 mm | 64,00 | 32,00 |
| 311097 | 2B 4,00 x 1250 x 2500 mm | 100,00 | 32,00 |
| 177532 | 2B 4,00 x 1500 x 3000 mm | 144,00 | 32,00 |
| 311098 | 2B 4,00 x 2000 x 4000 mm | 256,00 | 32,00 |
| 311099 | 2B 4,00 x 2000 x 6000 mm | 384,00 | 32,00 |
| 311100 | 2B 5,00 x 1000 x 2000 mm | 80,00 | 42,00 |

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|--------------------------------|--------|-------------------|
| 311101 | 2B 5,00 x 1250 x 2500 mm | 125,00 | 42,00 |
| 177533 | 2B 5,00 x 1500 x 3000 mm | 180,00 | 42,00 |
| 311102 | 2B 5,00 x 2000 x 6000 mm | 480,00 | 42,00 |
| 177534 | 2B 6,00 x 1500 x 3000 mm | 216,00 | 48,00 |
| 151160 | BA BLANK 0,5 x 1000 x 2000 mm | 8,00 | 4,00 |
| 96613 | BA BLANK 0,7 x 1000 x 2000 mm | 11,20 | 5,60 |
| 45225 | BA BLANK 0,8 x 1000 x 2000 mm | 12,80 | 6,40 |
| 16017 | BA BLANK 0,8 x 1250 x 2500 mm | 20,00 | 6,40 |
| 59669 | BA BLANK 1,0 x 1250 x 2500 mm | 25,00 | 8,00 |
| 74505 | BA BLANK 1,25 x 1000 x 2000 mm | 20,00 | 10,00 |
| 311113 | BA BLANK 1,25 x 1250 x 2500 mm | 31,25 | 10,00 |
| 43359 | BA BLANK 1,50 x 1250 x 2500 mm | 37,50 | 12,00 |

Rustfrie varmvalsede stålplater 1.4301



ASTM A 480/240
EN 1.4301/AISI 304
Finish No. 1
Varmvalset med toleranser iflg. EN 10 029-klasse A
Kontrollsertifikat iflg. EN 10204-3.1 CE-merket

Varegruppe: 3231

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|------------------------|--------|-------------------|
| 98335 | 5,00 x 1250 x 2500 mm | 125,00 | 40,00 |
| 151117 | 5,00 x 2000 x 6000 mm | 480,00 | 40,00 |
| 97360 | 6,00 x 1000 x 2000 mm | 96,00 | 48,00 |
| 22564 | 6,00 x 1250 x 2500 mm | 150,00 | 48,00 |
| 52887 | 6,00 x 1500 x 3000 mm | 216,00 | 48,00 |
| 151118 | 6,00 x 2000 x 6000 mm | 576,00 | 48,00 |
| 15652 | 8,00 x 1000 x 2000 mm | 128,00 | 64,00 |
| 89342 | 8,00 x 1250 x 2500 mm | 200,00 | 64,00 |
| 58218 | 8,00 x 1500 x 3000 mm | 288,00 | 64,00 |
| 311105 | 8,00 x 2000 x 6000 mm | 768,00 | 64,00 |
| 32528 | 10,00 x 1000 x 2000 mm | 160,00 | 80,00 |
| 64513 | 10,00 x 1250 x 2500 mm | 250,00 | 80,00 |
| 10538 | 10,00 x 1500 x 3000 mm | 360,00 | 80,00 |
| 311106 | 10,00 x 2000 x 6000 mm | 960,00 | 80,00 |
| 185697 | 12,00 x 1250 x 2500 mm | 300,00 | 96,00 |
| 311108 | 15,00 x 1250 x 2500 mm | 387,00 | 123,84 |
| 311109 | 15,00 x 1500 x 3000 mm | 558,00 | 123,84 |
| 311111 | 20,00 x 1250 x 2500 mm | 516,00 | 165,12 |
| 311112 | 25,00 x 1250 x 2500 mm | 645,00 | 206,40 |

Rustfrie slipte stålplater 1.4301



EN 1.4301, AISI 304
Finish 2K Nr. 4, 180-240 grit
Foliert
Kaldvalset, slipt iflg. NS-EN 10 259
Prøverapport iflg. EN 10 204-2.2 CE-merket

Varegruppe: 3213

| Varenr. | Dimensjon | Kg/stk |
|---------|-----------------------|--------|
| 311115 | 0,7 x 1000 x 2000 mm | 11,20 |
| 311116 | 0,7 x 1250 x 2500 mm | 17,60 |
| 311117 | 0,9 x 1000 x 2000 mm | 14,40 |
| 311119 | 0,9 x 1250 x 2500 mm | 22,50 |
| 311118 | 0,9 x 1500 x 3000 mm | 32,40 |
| 311120 | 1,0 x 1000 x 2000 mm | 16,00 |
| 311122 | 1,0 x 1250 x 2500 mm | 25,00 |
| 311123 | 1,0 x 1500 x 3000 mm | 36,00 |
| 311126 | 1,25 x 1000 x 2000 mm | 20,00 |
| 311127 | 1,25 x 1000 x 3000 mm | 30,40 |
| 311128 | 1,25 x 1250 x 2500 mm | 31,30 |
| 311129 | 1,25 x 1500 x 3000 mm | 45,00 |
| 311130 | 1,5 x 1000 x 2000 mm | 24,00 |
| 311131 | 1,5 x 1000 x 3000 mm | 36,00 |
| 311132 | 1,5 x 1250 x 2500 mm | 37,50 |
| 311133 | 1,5 x 1500 x 3000 mm | 54,00 |
| 311134 | 2,0 x 1000 x 2000 mm | 32,00 |
| 311135 | 2,0 x 1250 x 2500 mm | 50,00 |
| 311136 | 2,0 x 1500 x 3000 mm | 72,00 |
| 311137 | 3,0 x 1000 x 2000 mm | 48,00 |
| 311138 | 3,0 x 1250 x 2500 mm | 75,00 |
| 311139 | 3,0 x 1500 x 3000 mm | 108,00 |

Syrefaste kaldvalsedde stålplater 1.4404



ASTM A 480/240
EN 1.4404/AISI 316L
Finish 2B
Kaldvalset iflg. NS-EN 10 259
Kontrollsertifikat iflg EN 10204-3.1 CE-merket

Varegruppe: 3226

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|-----------------------|--------|-------------------|
| 150173 | 0,50 x 1000 x 2000 mm | 8,00 | 4,00 |
| 150174 | 0,70 x 1000 x 2000 mm | 11,20 | 5,60 |
| 151216 | 0,70 x 1250 x 2500 mm | 17,50 | 5,60 |
| 150175 | 0,80 x 1000 x 2000 mm | 12,80 | 6,40 |
| 311148 | 0,90 x 1000 x 2000 mm | 14,40 | 7,20 |
| 150176 | 1,00 x 1000 x 2000 mm | 16,00 | 8,00 |
| 150177 | 1,00 x 1250 x 2500 mm | 25,00 | 8,00 |
| 150178 | 1,00 x 1500 x 3000 mm | 36,00 | 8,00 |
| 150179 | 1,25 x 1000 x 2000 mm | 20,00 | 10,00 |
| 311149 | 1,25 x 1500 x 3000 mm | 45,00 | 10,00 |
| 150180 | 1,25 x 1250 x 2500 mm | 31,30 | 10,00 |
| 150194 | 1,50 x 1000 x 2000 mm | 24,00 | 12,00 |
| 150195 | 1,50 x 1250 x 2500 mm | 37,50 | 12,00 |
| 150196 | 1,50 x 1500 x 3000 mm | 54,00 | 12,00 |
| 150197 | 2,00 x 1000 x 2000 mm | 32,00 | 16,00 |
| 150198 | 2,00 x 1250 x 2500 mm | 50,00 | 16,00 |
| 150199 | 2,00 x 1500 x 3000 mm | 72,00 | 16,00 |
| 181202 | 2,00 x 2000 x 4000 mm | 128,00 | 16,00 |
| 150200 | 2,50 x 1000 x 2000 mm | 40,00 | 20,00 |
| 311150 | 2,50 x 1250 x 2500 mm | 62,50 | 20,00 |
| 150201 | 2,50 x 1500 x 3000 mm | 90,00 | 20,00 |
| 150212 | 3,00 x 1000 x 2000 mm | 48,00 | 24,00 |
| 150213 | 3,00 x 1250 x 2500 mm | 75,00 | 24,00 |
| 150214 | 3,00 x 1500 x 3000 mm | 108,00 | 24,00 |
| 180706 | 3,00 x 2000 x 4000 mm | 192,00 | 24,00 |
| 151199 | 3,00 x 2000 x 6000 mm | 288,00 | 24,00 |
| 311151 | 4,00 x 1000 x 2000 mm | 64,00 | 32,00 |
| 311152 | 4,00 x 1250 x 2500 mm | 100,00 | 32,00 |
| 311153 | 4,00 x 1500 x 3000 mm | 144,00 | 32,00 |
| 311154 | 4,00 x 2000 x 4000 mm | 256,00 | 32,00 |
| 311155 | 4,00 x 2000 x 6000 mm | 384,00 | 32,00 |
| 311156 | 5,00 x 1000 x 2000 mm | 80,00 | 40,00 |
| 311157 | 5,00 x 1250 x 2500 mm | 125,00 | 40,00 |
| 311158 | 5,00 x 1500 x 3000 mm | 180,00 | 40,00 |

Syrefaste varmvalsede stålplater 1.4404



ASTM A 480/240. EN 1.4404/AISI 316 L
Finish No. 1. Varmvalset med toleranser
iflg. EN 10 029-klasse A. Kontrollsertifikat
iflg. EN 10204 - 3.1 CE-merket

Varegruppe: 3236

| Varenr. | Dimensjon | Kg/stk | Kg/m2 |
|---------|---------------------|----------|--------|
| 181528 | 4 x 1250 x 2500 mm | 100,00 | 32,00 |
| 150215 | 4 x 1500 x 3000 mm | 144,00 | 32,00 |
| 181529 | 5 x 1250 x 2500 mm | 125,00 | 40,00 |
| 150216 | 5 x 1500 x 3000 mm | 180,00 | 40,00 |
| 311161 | 5 x 2000 x 6000 mm | 480,00 | 40,00 |
| 176461 | 6 x 1000 x 2000 mm | 96,00 | 48,00 |
| 181542 | 6 x 1250 x 2500 mm | 150,00 | 48,00 |
| 150217 | 6 x 1500 x 3000 mm | 216,00 | 48,00 |
| 311162 | 6 x 2000 x 6000 mm | 576,00 | 48,00 |
| 181562 | 8 x 1000 x 2000 mm | 128,00 | 64,00 |
| 181544 | 8 x 1250 x 2500 mm | 200,00 | 64,00 |
| 181563 | 8 x 1500 x 3000 mm | 288,00 | 64,00 |
| 311163 | 8 x 2000 x 6000 mm | 768,00 | 64,00 |
| 181564 | 10 x 1000 x 2000 mm | 160,00 | 80,00 |
| 181545 | 10 x 1250 x 2500 mm | 250,00 | 80,00 |
| 181565 | 10 x 1500 x 3000 mm | 360,00 | 80,00 |
| 311164 | 10 x 2000 x 6000 mm | 960,00 | 80,00 |
| 181547 | 12 x 1000 x 2000 mm | 192,00 | 96,00 |
| 166834 | 12 x 1250 x 2500 mm | 300,00 | 96,00 |
| 181548 | 12 x 1500 x 3000 mm | 432,00 | 96,00 |
| 311165 | 12 x 2000 x 6000 mm | 1 152,00 | 96,00 |
| 311166 | 15 x 1000 x 2000 mm | 248,00 | 124,00 |
| 311167 | 15 x 1250 x 2500 mm | 387,00 | 124,00 |
| 311168 | 15 x 1500 x 3000 mm | 558,00 | 124,00 |
| 333205 | 15 x 2000 x 6000 mm | 1 488,00 | 124,00 |
| 311169 | 16 x 1000 x 2000 mm | 264,00 | 132,00 |
| 311170 | 16 x 1250 x 2500 mm | 413,00 | 132,00 |
| 311171 | 16 x 1500 x 3000 mm | 594,00 | 132,00 |
| 311172 | 20 x 1000 x 2000 mm | 330,00 | 165,00 |
| 311173 | 20 x 1250 x 2500 mm | 516,00 | 165,00 |
| 311174 | 20 x 1500 x 3000 mm | 743,00 | 165,00 |
| 311175 | 20 x 2000 x 6000 mm | 1 982,00 | 165,17 |
| 311176 | 25 x 1000 x 2000 mm | 413,00 | 206,50 |
| 311177 | 25 x 1250 x 2500 mm | 645,00 | 206,50 |
| 311178 | 30 x 1000 x 2000 mm | 495,00 | 247,50 |
| 311179 | 30 x 1250 x 2500 mm | 774,00 | 247,50 |
| 311180 | 30 x 1500 x 3000 mm | 1 114,00 | 247,50 |
| 311181 | 30 x 2000 x 6000 mm | 2 974,00 | 247,83 |
| 311182 | 40 x 1500 x 3000 mm | 1 483,00 | 329,56 |
| 311183 | 50 x 1000 x 2000 mm | 826,00 | 413,00 |

Syrefaste tørrslipte stålplater 1.4404



ASTM A 480/240
EN 1.4404/AISI 316 L
Finish DP40, 180-240 grit
Kaldvalset, tørrslipt, foliert
Prøverapport iflg. EN 10204-2.2 CE-merket

Varegruppe: 3223

| Varenr. | Dimensjon | Kg/stk | Kg/m2 |
|---------|--------------------|--------|-------|
| 186141 | 1,25 x 1000 x 2000 | 20,00 | 10,00 |
| 178807 | 1,50 x 1250 x 2500 | 37,50 | 12,00 |
| 177548 | 2,00 x 1000 x 2000 | 32,00 | 16,00 |
| 178808 | 2,00 x 1250 x 2500 | 50,00 | 16,00 |

Duplex plater EDX 2304 / 1.4362



UNS S 32304 (EDX)/1.4362 / 32003-
AT12003
Kontrollsertifikat iflg EN-10204-3.1

Varegruppe: 3239

| Varenr. | Dimensjon | Kg/stk | Kg/m2 |
|---------|--------------------------------|----------|--------|
| 315505 | UNS S 32003 2,00 x 1000 x 2000 | 32,96 | 16,48 |
| 315508 | UNS S 32003 3,00 x 1000 x 2000 | 49,44 | 24,72 |
| 315528 | UNS S 32003 5,00 x 1250 x 4000 | 206,00 | 41,20 |
| 315529 | UNS S 32003 6,00 x 1250 x 4000 | 247,20 | 49,44 |
| 315530 | UNS S 32003 8,00 x 1500 x 4000 | 395,52 | 65,92 |
| 315531 | UNS S 32003 10,0 x 1500 x 4000 | 494,40 | 82,40 |
| 315534 | UNS S 32003 25,0 x 1500 x 4000 | 1 236,00 | 206,00 |
| 328529 | UNS S 32304 6,00 x 1500 x 3000 | 222,48 | 49,44 |
| 328530 | UNS S 32304 10,0 x 1500 x 3000 | 370,80 | 82,40 |
| 328531 | UNS S 32304 12,0 x 1500 x 3000 | 444,96 | 98,88 |
| 328532 | UNS S 32304 15,0 x 1500 x 3000 | 556,20 | 123,60 |
| 328533 | UNS S 32304 20,0 x 1500 x 3000 | 741,60 | 164,80 |

Syrefast kaldvalset coil 1.4404



EN 1.4404/AISI 316L
Finish 2B/2D
Innv. dia 508 mm
Kontrollsertifikat iflg. EN 10204-3.1

Varegruppe: 3222

| Varenr. | Dimensjon | Kg/stk |
|---------|-----------------------------|----------|
| 311192 | 2B 0,5 x 600 mm CA 250 kg | 250,00 |
| 311193 | 2B 0,5 x 1000 mm CA 1000 kg | 1 000,00 |
| 311194 | 2B 0,7 x 1000 mm CA 1000 kg | 1 000,00 |

Rustfritt rundstål 1.4301



EN 1.4301/AISI 304
Varmvalset med toleranser
iflg. DIN 1013.
Max. lengde 5 m.
Kontrollsertifikat iflg. EN 10204 - 3.1 CE-
merket

Varegruppe: 3311

| Varenr. | Dimensjon | Kg/m |
|---------|--------------------|-------|
| 311195 | 16 mm x Ø x 3-5 m | 1,61 |
| 311196 | 20 mm x Ø x 3-5 m | 2,51 |
| 311197 | 25 mm x Ø x 3-5 m | 3,93 |
| 311198 | 40 mm x Ø x 3-5 m | 10,10 |
| 311199 | 45 mm x Ø x 3-5 m | 12,70 |
| 311200 | 50 mm x Ø x 3-5 m | 15,70 |
| 311201 | 60 mm x Ø x 3-5 m | 22,60 |
| 311202 | 65 mm x Ø x 3-5 m | 26,60 |
| 311203 | 70 mm x Ø x 3-5 m | 30,80 |
| 311204 | 75 mm x Ø x 3-5 m | 34,70 |
| 311205 | 80 mm x Ø x 3-5 m | 40,20 |
| 311206 | 90 mm x Ø x 3-5 m | 50,90 |
| 311207 | 100 mm x Ø x 3-5 m | 62,90 |

Rustfritt rundstål 1.4301



EN 1.4301/AISI 304
Finish trukket
Toleranser iflg ISO h9/DIN 671
Lengder: 3-4 m.
Kontrollsertifikat iflg. EN 10204 -3.1 CE-
merket

Varegruppe: 3312

| Varenr. | Dimensjon | Kg/m |
|---------|-------------------|------|
| 125163 | 3 mm x Ø x 3-4 m | 0,06 |
| 29707 | 4 mm x Ø x 3-4 m | 0,10 |
| 48910 | 5 mm x Ø x 3-4 m | 0,15 |
| 11099 | 6 mm x Ø x 3-4 m | 0,23 |
| 11235 | 8 mm x Ø x 3-4 m | 0,40 |
| 11306 | 10 mm x Ø x 3-4 m | 0,63 |
| 11379 | 12 mm x Ø x 3-4 m | 0,91 |
| 11454 | 13 mm x Ø x 3-4 m | 1,06 |
| 11610 | 16 mm x Ø x 3-4 m | 1,61 |
| 11774 | 20 mm x Ø x 3-4 m | 2,51 |
| 177839 | 25 mm x Ø x 3-4 m | 3,93 |

Rustfritt rundstål 1.4301



EN 1.4301
Finish slipt
Toleranser iflg. ISO h9 og DIN 671
Lengder 3-4 m
Kontrollsertifikat iflg. EN 10204 - 3.1 CE-
merket

Varegruppe: 3316

| Varenr. | Dimensjon | Kg/m |
|---------|-------------------|-------|
| 13610 | 30 mm x Ø x 3-4 m | 5,60 |
| 23318 | 35 mm x Ø x 3-4 m | 7,70 |
| 13854 | 40 mm x Ø x 3-4 m | 10,10 |
| 13979 | 50 mm x Ø x 3-4 m | 15,70 |
| 311208 | 60 mm x Ø x 3-4 m | 22,20 |

Rustfritt automatstål rundt 1.4305



Trukket og polert
EN 1.4305, AISI 303
Toleranser iflg. ISO h9 og DIN 671
Merking: Sort ende
Kontrollsertifikat iflg. EN 10204 - 3.1 CE-
merket

Varegruppe: 3307

| Varenr. | Dimensjon | Kg/m |
|---------|-----------------------------|-------|
| 125182 | TRUKKET 5 mm x Ø x 3-3,5 m | 0,16 |
| 10463 | TRUKKET 6 mm x Ø x 3-3,5 m | 0,23 |
| 10506 | TRUKKET 8 mm x Ø x 3-3,5 m | 0,40 |
| 10598 | TRUKKET 10 mm x Ø x 3-3,5 m | 0,62 |
| 10647 | TRUKKET 12 mm x Ø x 3-3,5 m | 0,91 |
| 10751 | TRUKKET 14 mm x Ø x 3-3,5 m | 1,23 |
| 125183 | TRUKKET 15 mm x Ø x 3-3,5 m | 1,41 |
| 10806 | TRUKKET 16 mm x Ø x 3-3,5 m | 1,61 |
| 10863 | TRUKKET 18 mm x Ø x 3-3,5 m | 2,04 |
| 10922 | TRUKKET 20 mm x Ø x 3-3,5 m | 2,51 |
| 17765 | TRUKKET 25 mm x Ø x 3-3,5 m | 3,93 |
| 18485 | SLIPT 30 mm x Ø x 3-3,5 m | 5,60 |
| 10143 | SLIPT 50 mm x Ø x 3-3,5 m | 15,40 |

Rustfritt seigherdet akselstål 1.4418



EN 1.4418/SS2387/S165M
Slippt h9 eller skrellet h12 (se dimensjon)
Kontrollsertifikat iflg. EN 10204 - 3.1 CE-
merket

Varegruppe: 3363

| Varenr. | Dimensjon | Kg/m |
|---------|-----------------------|-------|
| 125283 | 20 mm x Ø x 5-6 m h9 | 2,51 |
| 125284 | 25 mm x Ø x 5-6 m h9 | 3,93 |
| 125287 | 30 mm x Ø x 5-6 m h9 | 5,60 |
| 125288 | 32 mm x Ø x 5-6 m h9 | 6,44 |
| 125289 | 35 mm x Ø x 5-6 m h9 | 7,70 |
| 125290 | 38 mm x Ø x 5-6 m h9 | 8,90 |
| 125291 | 40 mm x Ø x 5-6 m h9 | 10,10 |
| 125292 | 45 mm x Ø x 5-6 m h9 | 12,70 |
| 125293 | 50 mm x Ø x 5-6 m h9 | 15,70 |
| 125294 | 55 mm x Ø x 5-6 m h9 | 18,70 |
| 125297 | 60 mm x Ø x 5-6 m h9 | 22,60 |
| 125302 | 80 mm x Ø x 5-6 m h9 | 40,20 |
| 125303 | 90 mm x Ø x 5-6 m h9 | 50,00 |
| 125304 | 100 mm x Ø x 5-6 m h9 | 62,90 |

| Varenr. | Dimensjon | Kg/m |
|---------|-------------------------|--------|
| 332395 | 102 mm x Ø x 5-6 m h12 | 65,00 |
| 332401 | 112 mm x Ø x 5-6 m h12 | 77,00 |
| 332402 | 122 mm x Ø x 5-6 m h12 | 91,70 |
| 332403 | 132 mm x Ø x 5-6 m h12 | 107,40 |
| 332404 | 143 mm x Ø x 5-6 m h12 | 126,00 |
| 332405 | 153 mm x Ø x 5-6 m h12 | 145,00 |
| 332406 | 165 mm x Ø x 5-6 m h12 | 171,00 |
| 332407 | 184 mm x Ø x 5-6 m h12 | 209,00 |
| 332408 | 206 mm x Ø x 5-6 m h12 | 264,00 |
| 332409 | 51,2 mm x Ø x 5-6 m h12 | 16,20 |
| 332410 | 61,2 mm x Ø x 5-6 m h12 | 23,30 |
| 332411 | 66,2 mm x Ø x 5-6 m h12 | 27,00 |
| 332412 | 71,4 mm x Ø x 5-6 m h12 | 34,50 |
| 332413 | 76,4 mm x Ø x 5-6 m h12 | 36,00 |
| 332419 | 81,4 mm x Ø x 5-6 m h12 | 41,00 |
| 332420 | 86,4 mm x Ø x 5-6 m h12 | 46,00 |
| 332432 | 91,4 mm x Ø x 5-6 m h12 | 51,50 |

Rustfritt flattstål 1.4301



EN 1.4301/AISI 304
Klippet/slittet t.o.m. 10 mm.
Varmvalset f.o.m. 12 mm.
Toleranser: t.o.m. 10 mm
EN 10 051.
f.o.m. 12 mm iflg. NS-EN 10 058.
Max lgd. 5 m.
Kontrollsertifikat iflg. EN 10204 - 3.1 CE-
merket

Varegruppe: 3314

| Varenr. | Dimensjon | Kg/m |
|---------|-------------------|------|
| 311209 | 20 x 3 mm x 4-5 m | 0,48 |
| 311210 | 25 x 3 mm x 4-5 m | 0,60 |
| 311211 | 30 x 3 mm x 4-5 m | 0,72 |
| 311212 | 40 x 3 mm x 4-5 m | 0,96 |
| 311213 | 50 x 3 mm x 4-5 m | 1,20 |
| 311214 | 25 x 4 mm x 4-5 m | 0,80 |
| 311215 | 40 x 4 mm x 4-5 m | 1,26 |
| 311216 | 20 x 5 mm x 4-5 m | 0,80 |
| 311217 | 25 x 5 mm x 4-5 m | 1,00 |
| 311218 | 30 x 5 mm x 4-5 m | 1,20 |
| 311219 | 40 x 5 mm x 4-5 m | 1,60 |
| 311220 | 50 x 5 mm x 4-5 m | 2,00 |
| 311221 | 60 x 5 mm x 4-5 m | 2,35 |
| 311222 | 25 x 6 mm x 4-5 m | 1,20 |
| 311223 | 30 x 6 mm x 4-5 m | 1,44 |
| 311224 | 40 x 6 mm x 4-5 m | 1,92 |
| 311225 | 50 x 6 mm x 4-5 m | 2,40 |
| 311226 | 60 x 6 mm x 4-5 m | 2,88 |

| Varenr. | Dimensjon | Kg/m |
|---------|---------------------|-------|
| 311227 | 75 x 6 mm x 4-5 m | 3,60 |
| 311228 | 100 x 6 mm x 4-5 m | 4,71 |
| 311229 | 25 x 8 mm x 4-5 m | 1,60 |
| 311230 | 30 x 8 mm x 4-5 m | 1,92 |
| 311231 | 40 x 8 mm x 4-5 m | 2,56 |
| 311232 | 50 x 8 mm x 4-5 m | 3,20 |
| 311233 | 60 x 8 mm x 4-5 m | 3,84 |
| 311234 | 80 x 8 mm x 4-5 m | 5,12 |
| 311236 | 30 x 10 mm x 4-5 m | 2,40 |
| 311237 | 40 x 10 mm x 4-5 m | 3,20 |
| 311238 | 50 x 10 mm x 4-5 m | 4,00 |
| 311239 | 60 x 10 mm x 4-5 m | 4,80 |
| 311240 | 70 x 10 mm x 4-5 m | 5,60 |
| 311241 | 80 x 10 mm x 4-5 m | 6,41 |
| 311242 | 100 x 10 mm x 4-5 m | 8,01 |
| 311243 | 50 x 12 mm x 4-5 m | 4,80 |
| 311244 | 80 x 12 mm x 4-5 m | 7,54 |
| 311245 | 40 x 15 mm x 4-5 m | 4,80 |
| 311246 | 60 x 15 mm x 4-5 m | 7,20 |
| 311247 | 100 x 15 mm x 4-5 m | 12,02 |
| 311248 | 100 x 20 mm x 4-5 m | 16,00 |
| 315372 | 60 x 25 mm x 4-5 m | 12,00 |

Rustfritt vinkelstål 1.4301

EN 1.4301/AISI 304
Varmvalset med toleranser
iflg. EN 10 056-2
Max. lengde: 6 m.
Kontrollsertifikat iflg. EN 10204 - 3.1 CE-
merket



Varegruppe: 3315

| Varenr. | Dimensjon | Kg/m |
|---------|-----------------------------|-------|
| 311306 | 20 x 20 x 3 mm x 6-6,1 m | 0,99 |
| 311307 | 25 x 25 x 3 mm x 6-6,1 m | 1,14 |
| 311308 | 30 x 30 x 3 mm x 6-6,1 m | 1,39 |
| 311309 | 30 x 30 x 4 mm x 6-6,1 m | 1,82 |
| 311310 | 40 x 40 x 4 mm x 6-6,1 m | 2,47 |
| 311311 | 50 x 50 x 5 mm x 6-6,1 m | 3,85 |
| 311312 | 60 x 60 x 6 mm x 6-6,1 m | 5,53 |
| 311313 | 70 x 70 x 7 mm x 6-6,1 m | 7,53 |
| 311314 | 80 x 80 x 8 mm x 6-6,1 m | 9,85 |
| 311315 | 100 x 100 x 10 mm x 6-6,1 m | 15,40 |

Rustfritt firkantstål 1.4301

EN 1.4301/AISI 304. Varmvalset med
toleranser iflg. NS-EN 10 059
Kontrollsertifikat iflg. EN 10 204 -3.1.



Varegruppe: 3317

| Varenr. | Dimensjon | Kg/m |
|---------|--------------------------|------|
| 311249 | 40 mm x 4-KT x 3,5-4,5 m | 12,8 |

Syrefast rundstål 1.4404

EN 1.4404/AISI 316 L. Varmvalset med
toleranser iflg. NS-EN 10 060
Max. lengder: 5 m. Kontrollsertifikat iflg. EN
10204 - 3.1 CE-merket



Varegruppe: 3321

| Varenr. | Dimensjon | Kg/m |
|---------|--------------------|--------|
| 311325 | 20 mm x Ø x 3-5 m | 2,51 |
| 311326 | 25 mm x Ø x 3-5 m | 3,93 |
| 311327 | 28 mm x Ø x 3-5 m | 4,93 |
| 311328 | 30 mm x Ø x 3-5 m | 5,60 |
| 311329 | 32 mm x Ø x 3-5 m | 6,44 |
| 311330 | 35 mm x Ø x 3-5 m | 7,70 |
| 311331 | 38 mm x Ø x 3-5 m | 8,90 |
| 311332 | 40 mm x Ø x 3-5 m | 10,10 |
| 311333 | 45 mm x Ø x 3-5 m | 12,70 |
| 311334 | 50 mm x Ø x 3-5 m | 15,70 |
| 311335 | 55 mm x Ø x 3-5 m | 18,70 |
| 311336 | 60 mm x Ø x 3-5 m | 22,60 |
| 311337 | 65 mm x Ø x 3-5 m | 26,00 |
| 311338 | 70 mm x Ø x 3-5 m | 30,80 |
| 311339 | 75 mm x Ø x 3-5 m | 34,70 |
| 311340 | 80 mm x Ø x 3-5 m | 40,20 |
| 311341 | 85 mm x Ø x 3-5 m | 45,40 |
| 311342 | 90 mm x Ø x 3-5 m | 50,00 |
| 311343 | 100 mm x Ø x 3-5 m | 62,90 |
| 311344 | 110 mm x Ø x 3-5 m | 76,10 |
| 311345 | 120 mm x Ø x 3-5 m | 90,50 |
| 311346 | 130 mm x Ø x 3-5 m | 104,00 |
| 311347 | 150 mm x Ø x 3-5 m | 139,00 |
| 311348 | 160 mm x Ø x 3-5 m | 158,00 |
| 311349 | 180 mm x Ø x 3-5 m | 200,00 |
| 311350 | 200 mm x Ø x 3-5 m | 247,00 |
| 311351 | 225 mm x Ø x 3-5 m | 312,00 |
| 311352 | 250 mm x Ø x 3-5 m | 386,00 |

Syrefast rundtstål 1.4404



Trukket/Slipt utførelse
EN 1.4404, AISI 316L
Toleranser iflg. ISO h9 og DIN 671
Max lengde 3-4 m
Merking: Brun ende
Kontrollsertifikat iflg. EN 10204 - 3.1
CE-merket

Varegruppe: 3322

| Varenr. | Dimensjon | Kg/m |
|---------|-------------------|------|
| 51223 | 4 mm x Ø x 3-4 m | 0,10 |
| 62998 | 5 mm x Ø x 3-4 m | 0,16 |
| 10911 | 6 mm x Ø x 3-4 m | 0,23 |
| 11100 | 8 mm x Ø x 3-4 m | 0,40 |
| 11307 | 10 mm x Ø x 3-4 m | 0,63 |
| 11455 | 12 mm x Ø x 3-4 m | 0,91 |
| 11860 | 16 mm x Ø x 3-4 m | 1,61 |
| 14792 | 19 mm x Ø x 3-4 m | 2,23 |
| 12220 | 20 mm x Ø x 3-4 m | 2,51 |
| 177847 | 22 mm x Ø x 3-4 m | 2,98 |
| 177849 | 25 mm x Ø x 3-4 m | 3,93 |

Syrefast rundtstål 1.4404



Slipt h9. EN 1.4404
Kontrollsertifikat iflg. EN 10204 - 3.1

Varegruppe: 3326

| Varenr. | Dimensjon | Kg/m |
|---------|-------------------|------|
| 16422 | 30 mm x Ø x 3-4 m | 5,60 |
| 16746 | 35 mm x Ø x 3-4 m | 7,70 |
| 17418 | 40 mm x Ø x 3-4 m | 1,01 |

Syrefast firkantstål 1.4404



EN 1.4404/AISI 316L. Kaldformet med
toleranser iflg. NS-EN 10 278
Kontrollsertifikat iflg. EN 10204 - 3.1
CE-merket

Varegruppe: 3328

| Varenr. | Dimensjon | Kg/m |
|---------|--------------------------|------|
| 311250 | 20 mm x 4-KT x 3,5-4,5 m | 3,20 |

| Varenr. | Dimensjon | Kg/m |
|---------|--------------------------|-------|
| 311251 | 25 mm x 4-KT x 3,5-4,5 m | 5,00 |
| 311252 | 30 mm x 4-KT x 3,5-4,5 m | 7,21 |
| 311253 | 40 mm x 4-KT x 3,5-4,5 m | 12,80 |
| 311254 | 50 mm x 4-KT x 3,5-4,5 m | 20,00 |

Syrefast stang 6-kt 1.4404



EN 1.4404/AISI 316L
Kaldtrukket toleranse h11
Kontrollsertifikat iflg. EN 10204 - 3.1
CE-merket

Varegruppe: 3327

| Varenr. | Dimensjon | Kg/m |
|---------|--------------------------|------|
| 311255 | 17 mm x 6-KT x 3,5-4,5 m | 1,97 |
| 311256 | 22 mm x 6-KT x 3,5-4,5 m | 3,36 |
| 311257 | 27 mm x 6-KT x 3,5-4,5 m | 5,06 |

Syrefast flattstål 1.4404



EN 1.4404/AISI 316 L
Klippet/ slittet t.o.m. 10 mm
Varmvalset f.o.m. 12 mm
Toleranser: T.o.m. 10 mm
EN 10051
F.o.m. 12 mm iflg. NS-EN 10 058
Max lgd. 5 m.
Kontrollsertifikat iflg. EN 10204 - 3.1
CE-merket

Varegruppe: 3324

| Varenr. | Dimensjon | Kg/m |
|---------|-------------------|------|
| 311258 | 20 x 3 mm x 4-5 m | 0,48 |
| 311259 | 25 x 3 mm x 4-5 m | 0,60 |
| 311260 | 30 x 3 mm x 4-5 m | 0,72 |
| 311261 | 40 x 3 mm x 4-5 m | 0,96 |
| 311262 | 50 x 3 mm x 4-5 m | 1,20 |
| 311263 | 20 x 4 mm x 4-5 m | 0,63 |
| 311264 | 25 x 4 mm x 4-5 m | 0,80 |
| 311265 | 30 x 4 mm x 4-5 m | 0,95 |
| 311266 | 40 x 4 mm x 4-5 m | 1,26 |
| 311267 | 20 x 5 mm x 4-5 m | 0,80 |
| 311268 | 25 x 5 mm x 4-5 m | 1,00 |
| 311269 | 30 x 5 mm x 4-5 m | 1,20 |
| 311270 | 40 x 5 mm x 4-5 m | 1,60 |
| 311271 | 50 x 5 mm x 4-5 m | 2,00 |
| 311272 | 60 x 5 mm x 4-5 m | 2,35 |

| Varenr. | Dimensjon | Kg/m |
|---------|---------------------|-------|
| 311273 | 20 x 6 mm x 4-5 m | 0,95 |
| 311274 | 25 x 6 mm x 4-5 m | 1,17 |
| 311275 | 30 x 6 mm x 4-5 m | 1,44 |
| 311276 | 40 x 6 mm x 4-5 m | 1,92 |
| 311277 | 50 x 6 mm x 4-5 m | 2,40 |
| 311278 | 60 x 6 mm x 4-5 m | 2,88 |
| 311279 | 75 x 6 mm x 4-5 m | 3,60 |
| 311280 | 80 x 6 mm x 4-5 m | 3,84 |
| 311281 | 100 x 6 mm x 4-5 m | 4,80 |
| 311282 | 30 x 8 mm x 4-5 m | 1,92 |
| 311283 | 40 x 8 mm x 4-5 m | 2,56 |
| 311284 | 50 x 8 mm x 4-5 m | 3,20 |
| 311285 | 60 x 8 mm x 4-5 m | 3,77 |
| 311286 | 80 x 8 mm x 4-5 m | 5,10 |
| 311287 | 100 x 8 mm x 4-5 m | 6,28 |
| 311288 | 25 x 10 mm x 4-5 m | 2,00 |
| 311289 | 30 x 10 mm x 4-5 m | 2,40 |
| 311290 | 40 x 10 mm x 4-5 m | 3,20 |
| 311291 | 50 x 10 mm x 4-5 m | 4,00 |
| 311292 | 60 x 10 mm x 4-5 m | 4,80 |
| 311293 | 70 x 10 mm x 4-5 m | 5,50 |
| 311294 | 80 x 10 mm x 4-5 m | 6,41 |
| 311295 | 100 x 10 mm x 4-5 m | 8,01 |
| 311296 | 50 x 12 mm x 4-5 m | 4,71 |
| 311297 | 60 x 12 mm x 4-5 m | 5,65 |
| 311298 | 80 x 12 mm x 4-5 m | 7,54 |
| 311299 | 100 x 12 mm x 4-5 m | 9,61 |
| 311300 | 50 x 15 mm x 4-5 m | 6,01 |
| 311301 | 60 x 15 mm x 4-5 m | 7,20 |
| 311302 | 100 x 15 mm x 4-5 m | 12,02 |
| 311303 | 40 x 20 mm x 4-5 m | 6,41 |
| 311304 | 50 x 20 mm x 4-5 m | 8,01 |
| 311305 | 100 x 20 mm x 4-5 m | 15,70 |

| Varenr. | Dimensjon | Kg/m |
|---------|----------------------------|-------|
| 311319 | 40 x 40 x 4 x 6 - 6,1 m | 2,47 |
| 311320 | 50 x 50 x 5 x 6 - 6,1 m | 3,85 |
| 311321 | 60 x 60 x 6 x 6 - 6,1 m | 5,53 |
| 311322 | 70 x 70 x 7 x 6 - 6,1 m | 7,53 |
| 311323 | 80 x 80 x 8 x 6 - 6,1 m | 9,85 |
| 311324 | 100 x 100 x 10 x 6 - 6,1 m | 15,40 |
| 311353 | 100 x 50 x 8 mm x 6 m | 9,17 |
| 311354 | 150 x 75 x 10 mm x 6 m | 17,44 |

Duplex flatt 1.4362

UNS S 32304 (EDX) / 32003-ATI 2003
NORSOK M-650 D35 for utgangsmaterial
Kontrollsertifikat iflg. EN 10204-3.1

Varegruppe: 3329

| Varenr. | Dimensjon | Kg/m |
|---------|-------------------|------|
| 315535 | 80 x 10 mm x 4 m | 6,4 |
| 315536 | 80 x 15 mm x 4 m | 9,6 |
| 315537 | 80 x 20 mm x 4 m | 12,8 |
| 315538 | 100 x 10 mm x 4 m | 8,0 |
| 315539 | 100 x 15 mm x 4 m | 12,0 |
| 315540 | 100 x 20 mm x 4 m | 16,0 |
| 315541 | 150 x 10 mm x 4 m | 12,0 |
| 315542 | 150 x 15 mm x 4 m | 18,0 |
| 315543 | 150 x 20 mm x 4 m | 24,0 |
| 315544 | 175 x 10 mm x 4 m | 14,0 |
| 315545 | 175 x 15 mm x 4 m | 21,0 |
| 315546 | 175 x 20 mm x 4 m | 28,0 |
| 315547 | 200 x 10 mm x 4 m | 16,0 |
| 315549 | 200 x 20 mm x 4 m | 32,0 |

Syrefast vinkel 1.4404

EN 1.4404/AISI 316L
Likebenet, varmvalset
Ulikebenet, knekt kan forekomme
Max lengde 6 m.
Kontrollsertifikat iflg. EN 10204 - 3.1
CE-merket

Varegruppe: 3325

| Varenr. | Dimensjon | Kg/m |
|---------|-------------------------|------|
| 311316 | 20 x 20 x 3 x 6 - 6,1 m | 0,99 |
| 311317 | 25 x 25 x 3 x 6 - 6,1 m | 1,14 |
| 311318 | 30 x 30 x 3 x 6 - 6,1 m | 1,39 |

Duplex vinkel varmvalset 1.4362

UNS S 32304 (EDX) / (32003-ATI 2003)
NORSOK M650 YD37
Kontrollsertifikat EN 10204-3.1
Kaldformet vinkel kan forekomme

Varegruppe: 3339

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-------------------|-------|--------|
| 334129 | 50 x 50 x 5 mm | 3,85 | 23,10 |
| 334130 | 60 x 60 x 6 mm | 5,53 | 33,18 |
| 315512 | 80 x 80 x 8 mm | 9,85 | 59,10 |
| 315513 | 100 x 100 x 10 mm | 15,40 | 92,40 |

Rustfrie slipte dekorasjonsrør 1.4301



Sveiste og utv. slipt 240 grit
EN 1.4301/AISI 304

Varegruppe: 3116

| Varenr. | Dimensjon | Kg/m |
|---------|----------------------|------|
| 311370 | Ø19,0 x 1,2 mm x 6 m | 0,55 |
| 43575 | Ø25,0 x 1,5 mm x 6 m | 0,86 |
| 81700 | Ø25,0 x 2,0 mm x 6 m | 1,15 |
| 66544 | Ø32,0 x 1,5 mm x 6 m | 1,20 |
| 311371 | Ø42,4 x 2,0 mm x 6 m | 2,04 |
| 311372 | Ø44,5 x 2,0 mm x 6 m | 2,10 |
| 311373 | Ø48,3 x 2,0 mm x 6 m | 2,28 |
| 311374 | Ø50,8 x 1,5 mm x 6 m | 1,85 |
| 311375 | Ø63,5 x 1,5 mm x 6 m | 2,33 |

Syrefaste polerte dekorasjonsrør 1.4404



Sveiste, glødde og utv. polert
EN 1.4404/AISI 316L

Varegruppe: 3118

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|----------|----------------------|------|--------|
| 81375 | Ø25,0 x 1,5 mm x 6 m | 0,88 | 5,28 |
| 42846792 | Ø42,4 x 2,0 mm x 6 m | 2,04 | 12,24 |

Syrefaste sveiste rør 1.4404



EN 1.4404
EN 10217-7
Kontrollsertifikat iflg. EN 10204 - 3.1

Varegruppe: 3120

| Varenr. | Beskrivelse/dimensjon | Kg/m |
|---------|-----------------------|------|
| 315428 | Ø 12 x 1 mm x 6 m | 0,27 |

USE OUR STRENGTH

MATERIALS

Austenitic standard grades
EN 1.4307, EN 1.4571, EN 1.4404

Duplex grades
EN 1.4062, EN 1.4162, EN 1.4362, EN 1.4462

HOLLOW SECTIONS
Dimension range 20x20 – 300x300
Thickness range 1,2mm – 12mm

I-BEAMS
Height 100 – 600 mm
Flange width 100 – 300 mm
Web thickness 5 – 12 mm
Flange thickness 6 – 20 mm
Standard length 6 m

Stalatube Oy

Taivalkatu 7
15170 Lahti, Finland
Tel. +358 (0)3 882 190
Fax + 358 (0)3 882 1914
sales@stalatube.com

GatewayStainless AS

Ole Steens gate 10,
N-3015 Drammen, Norway
Tel. +47 45 25 10 10
fmh@gatewaystainless.com

STALA
TUBE

www.stalatube.com

Rustfrie konstruksjonsrør 1.4301



EN 1.4301/EN 1.4307/AISI 304
Toleranser iflg. EN 10219-2
Lengder a 6000 mm +/-50 mm
Kontrollsertifikat iflg. EN 10204 - 3.1

Varegruppe: 3115

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|---------------------------|-------|--------|
| 187759 | USL 20 x 20 x 1,5 x 6 m | 0,90 | 5,40 |
| 311380 | USL 20 x 20 x 2,0 x 6 m | 1,18 | 7,08 |
| 311381 | USL 25 x 25 x 1,2 x 6 m | 1,00 | 6,00 |
| 148045 | USL 25 x 25 x 1,5 x 6 m | 1,15 | 6,90 |
| 56174 | USL 25 x 25 x 2,0 x 6 m | 1,50 | 9,00 |
| 311382 | USL 30 x 30 x 1,2 x 6 m | 1,12 | 6,72 |
| 148062 | USL 30 x 30 x 2,0 x 6 m | 1,84 | 11,04 |
| 148064 | USL 35 x 35 x 1,5 x 6 m | 1,62 | 9,71 |
| 148066 | USL 35 x 35 x 2,0 x 6 m | 2,13 | 12,78 |
| 148067 | USL 40 x 40 x 1,5 x 6 m | 1,86 | 11,15 |
| 47657 | USL 40 x 40 x 2,0 x 6 m | 2,45 | 14,71 |
| 48654 | USL 50 x 50 x 3,0 x 6 m | 4,56 | 27,36 |
| 85921 | USL 60 x 60 x 3,0 x 6 m | 5,52 | 33,10 |
| 114519 | USL 60 x 60 x 4,0 x 6 m | 7,25 | 43,50 |
| 45810 | USL 80 x 80 x 3,0 x 6 m | 7,53 | 45,18 |
| 56481 | USL 100 x 100 x 3,0 x 6 m | 9,34 | 56,06 |
| 24145 | USL 100 x 100 x 4,0 x 6 m | 12,35 | 74,10 |
| 53891 | USL 40 x 20 x 2,0 x 6 m | 1,81 | 10,86 |
| 148192 | USL 50 x 25 x 1,5 x 6 m | 2,10 | 12,60 |
| 55193 | USL 60 x 40 x 2,0 x 6 m | 3,08 | 18,48 |
| 321835 | USL 60 x 40 x 3,0 x 6 m | 4,66 | 27,96 |
| 148196 | USL 60 x 40 x 4,0 x 6 m | 5,98 | 35,87 |
| 23838 | USL 80 x 40 x 3,0 x 6 m | 5,51 | 33,06 |
| 22875 | USL 100 x 40 x 3,0 x 6 m | 6,53 | 39,18 |
| 99669 | USL 100 x 50 x 3,0 x 6 m | 6,95 | 41,70 |

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------------------|-------|--------|
| 12945 | USL 100 x 50 x 5,0 x 6 m | 11,24 | 67,44 |
| 311379 | USL 120 x 60 x 3,0 x 6 m | 8,30 | 49,80 |
| 148209 | USL 120 x 80 x 3,0 x 6 m | 9,53 | 57,18 |
| 311376 | SL 20 x 20 x 1,20 mm x 6 m | 0,73 | 4,38 |
| 71181 | SL 25 x 25 x 1,20 mm x 6 m | 0,73 | 4,37 |
| 311377 | SL 30 x 30 x 1,20 mm x 6 m | 1,12 | 6,72 |
| 28731 | SL 30 x 30 x 2,00 mm x 6 m | 1,84 | 11,04 |
| 148120 | SL 35 x 35 x 2,00 mm x 6 m | 2,13 | 12,78 |
| 311378 | SL 40 x 40 x 1,20 mm x 6 m | 1,52 | 9,12 |
| 99723 | SL 40 x 40 x 1,50 mm x 6 m | 1,86 | 11,16 |
| 53821 | SL 40 x 40 x 2,00 mm x 6 m | 2,45 | 14,70 |
| 68768 | SL 50 x 50 x 1,50 mm x 6 m | 2,33 | 13,98 |
| 148123 | SL 50 x 50 x 3,00 mm x 6 m | 4,56 | 27,36 |
| 66070 | SL 60 x 60 x 3,00 mm x 6 m | 5,52 | 33,10 |
| 63726 | SL 30 x 20 x 1,5 mm x 6 m | 1,15 | 6,90 |
| 148158 | SL 40 x 20 x 1,2 mm x 6 m | 1,50 | 9,00 |
| 148161 | SL 50 x 25 x 1,5 mm x 6 m | 2,10 | 12,60 |
| 148162 | SL 50 x 25 x 2,0 mm x 6 m | 2,30 | 13,80 |
| 90886 | SL 60 x 40 x 2,0 mm x 6 m | 3,08 | 18,48 |
| 21407 | SL 80 x 40 x 2,0 mm x 6 m | 3,71 | 22,26 |

Syrefaste firkantrør 1.4571



EN 1.4571/AISI 316 Ti
Sveist og uslipt
Kontrollsertifikat EN 10204 - 3.1 med CE-merket

Varegruppe: 3125

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-----------------------|------|--------|
| 311383 | USL 25 x 25 x 2 x 6 m | 1,49 | 8,94 |
| 311384 | USL 30 x 30 x 2 x 6 m | 1,81 | 10,86 |
| 311385 | USL 40 x 40 x 2 x 6 m | 2,45 | 14,70 |

 NORSK STÅL

Best på logistikk

Vi har landsdekkende logistikk-løsninger

www.norskstaal.no

Syrefaste firkantrør 1.4404



EN 1.4404/AISI316L.

Sveist og uslipt

Kontrollsertifikat iflg. EN 10204 - 3.1 med
CE-merket

Varegruppe: 3126

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|---------------------|-------|--------|
| 322982 | 50 x 50 x 3 x 6 m | 4,56 | 27,36 |
| 322998 | 50 x 50 x 4 x 6 m | 5,96 | 35,76 |
| 322999 | 60 x 60 x 4 x 6 m | 7,25 | 43,50 |
| 323000 | 60 x 60 x 5 x 6 m | 8,94 | 53,64 |
| 323001 | 80 x 80 x 4 x 6 m | 9,82 | 58,92 |
| 323002 | 80 x 80 x 6 x 6 m | 13,92 | 83,52 |
| 323003 | 100 x 100 x 5 x 6 m | 15,34 | 92,04 |
| 323004 | 100 x 100 x 6 x 6 m | 17,76 | 106,56 |
| 323005 | 120 x 120 x 6 x 6 m | 21,60 | 129,60 |
| 323006 | 150 x 100 x 6 x 6 m | 22,56 | 135,36 |
| 323007 | 150 x 150 x 6 x 6 m | 27,36 | 164,16 |

Duplex HUP 1.4362/ EDX 2304



PREN 28 eller større

ASTM A240 UNS S32304 (EDX2304) / UNS
S32003 (ATI 2003)

NORSOK D35 m-650, rev. 4 for
utgangsmaterialet

Toleranse iflg. NS-EN 10219-2

Kontrollsertifikat iflg. EN 10204 - 3.1

Varegruppe: 3139

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|---------------------|-------|--------|
| 328470 | 60 x 60 x 4,0 x m | 7,26 | 43,56 |
| 315514 | 80 x 80 x 5,0 x m | 12,39 | 74,34 |
| 315523 | 100 x 100 x 6,0 x m | 18,24 | 109,44 |
| 315524 | 120 x 120 x 6,0 x m | 22,07 | 132,42 |
| 315527 | 150 x 150 x 6,0 x m | 27,81 | 166,86 |
| 328471 | 200 x 200 x 8,0 x m | 49,43 | 296,58 |
| 332767 | 250 x 250 x 8,0 x m | 62,23 | 373,38 |

The search for cleaner energy begins with long-lasting materials.

Wherever our partners are, we will be there with long lasting materials designed to meet the most extreme demands under the harshest conditions. Because the first step towards a world that lasts forever is making today's energy solutions as dependable and sustainable as possible.

outokumpu 
working towards a world that lasts forever

10 Aluminium

Plater

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10 Aluminium

Aluminiumplater EN AW 1050A/1200 H14/H24



F.o.m. 8 mm Tykkelse gjelder følgende:
Mekaniske verdier som valset.

Varegruppe: 6000

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|--------------------------|--------|-------------------|
| 313211 | 0,50 x 1000 x 2000 U PAP | 2,80 | 1,40 |
| 313212 | 0,70 x 1000 x 2000 | 3,82 | 1,96 |
| 313213 | 1,00 x 1000 x 2000 | 5,60 | 2,80 |
| 313214 | 1,00 x 1250 x 2500 | 8,75 | 2,80 |
| 313215 | 1,25 x 1000 x 2000 | 7,00 | 3,50 |
| 313216 | 1,25 x 1250 x 2500 | 10,95 | 3,50 |
| 313217 | 1,50 x 1000 x 2000 | 8,40 | 4,20 |
| 313218 | 1,50 x 1250 x 2500 | 13,13 | 4,20 |
| 313219 | 1,50 x 1500 x 3000 | 18,90 | 4,20 |
| 313220 | 2,00 x 1000 x 2000 | 11,20 | 5,60 |
| 313221 | 2,00 x 1250 x 2500 | 17,30 | 5,60 |
| 313222 | 2,00 x 1500 x 3000 | 25,20 | 5,60 |
| 313223 | 2,50 x 1000 x 2000 | 14,00 | 7,00 |
| 313224 | 2,50 x 1250 x 2500 | 21,88 | 7,00 |
| 313225 | 3,00 x 1000 x 2000 | 16,80 | 8,40 |
| 313226 | 3,00 x 1250 x 2500 | 26,25 | 8,40 |
| 313227 | 4,00 x 1000 x 2000 | 22,40 | 11,20 |
| 313228 | 4,00 x 1250 x 2500 | 35,00 | 11,20 |
| 313229 | 5,00 x 1000 x 2000 | 28,00 | 14,00 |

Aluminiumplater Stucco

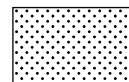


EN AW 1050A/1200 H14/H24

Varegruppe: 6002

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|-----------------------|--------|-------------------|
| 313204 | 0,75 x 1000 x 2000 mm | 4,20 | 2,10 |
| 313205 | 1,00 x 1000 x 2000 mm | 5,60 | 2,80 |

Aluminiumplater perforerte EN AW 5052/5754



Kontrollsertifikat iflg. EN 10204-3.1

Varegruppe: 6049

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|--------------------------|--------|-------------------|
| 313243 | 1,5 x 1000 x 2000 Ø 5 mm | 4,97 | 0,40 |

Aluminiumplater eloksalkvalitet EN AW 5005 H14



B57S. Without PVC
Kontrollsertifikat iflg. EN 10204-3.1 CE-
merket

Varegruppe: 6020

| Varenr. | Dimensjon | Kg/stk | Kg/m ² |
|---------|-------------------|--------|-------------------|
| 313234 | 2,0 x 1000 x 2000 | 11,2 | 5,6 |
| 313235 | 3,0 x 1000 x 2000 | 16,8 | 8,4 |

Aluminiumplater natureloksert EN AW 5005 H14



Natureloksert 10-15 my med folie
CE-merket

Varegruppe: 6100

| Varenr. | Dimensjon | Kg/stk |
|---------|--------------------|--------|
| 313236 | 1,00 x 1000 x 2000 | 5,60 |
| 313237 | 1,00 x 1250 x 2500 | 8,75 |
| 313238 | 1,25 x 1250 x 2500 | 10,95 |
| 313239 | 1,50 x 1000 x 2000 | 8,40 |
| 313240 | 1,50 x 1250 x 2500 | 13,13 |
| 313241 | 1,50 x 1250 x 3000 | 15,75 |
| 313242 | 2,00 x 1000 x 2000 | 11,20 |

Aluminium plate lakkert



Varegruppe: 6127

| Varenr. | Dimensjon | Kg/stk | Kg/m2 |
|---------|-----------------------------|--------|-------|
| 313184 | 1 x 1250 x 2500 SORT AC8301 | 8,75 | 2,80 |
| 313186 | 1 x 1250 x 2500 HVIT AC1371 | 8,75 | 2,80 |
| 313188 | 1 x 1250 x 2500 SØLV 9006 | 8,75 | 2,80 |

Aluminiumplate lakkert PROF 2000



Farge hvit RAL9016/AC1961
alt. RAL9010/AC18E3 PW/
baksidelakk.
Leveres med beskyttelsesfolie.
Pakker a ca.1000 kg

Varegruppe: 6129

| Varenr. | Dimensjon | Kg/stk | Kg/m2 |
|---------|---------------------------|--------|-------|
| 313200 | 1,5 x 1250 x 2500 mm 9010 | 13,13 | 4,20 |
| 313195 | 1,5 x 1250 x 2500 mm 9016 | 13,13 | 4,20 |
| 313197 | 2,0 x 1000 x 2000 mm 9016 | 11,20 | 5,60 |
| 313201 | 2,0 x 1250 x 2500 mm 9010 | 17,50 | 5,60 |
| 313198 | 2,0 x 1250 x 2500 mm 9016 | 17,50 | 5,60 |
| 313199 | 2,0 x 1500 x 3000 mm 9016 | 25,20 | 5,60 |

Aluminiumplater EN AW 5052/5754 H24/H34



Kontrollsertifikat iflg.
EN 10204-3.1 CE-merket

Varegruppe: 6021

| Varenr. | Dimensjon | Kg/stk |
|---------|-----------------------|--------|
| 313273 | 0,75 x 1000 x 2000 mm | 4,20 |
| 313274 | 1,00 x 1000 x 2000 mm | 5,60 |
| 313275 | 1,00 x 1250 x 2500 mm | 8,75 |
| 313276 | 1,00 x 1500 x 3000 mm | 12,60 |
| 313277 | 1,25 x 1000 x 2000 mm | 7,00 |
| 313278 | 1,25 x 1250 x 2500 mm | 10,95 |
| 313279 | 1,25 x 1500 x 3000 mm | 15,75 |
| 313280 | 1,50 x 1000 x 2000 mm | 8,40 |
| 313281 | 1,50 x 1250 x 2500 mm | 13,13 |
| 313282 | 1,50 x 1500 x 3000 mm | 18,90 |
| 313283 | 2,00 x 1000 x 2000 mm | 11,20 |
| 313285 | 2,00 x 1250 x 2500 mm | 17,50 |
| 313286 | 2,00 x 1500 x 3000 mm | 25,20 |

 **NORSK STÅL**



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Med vår nye foliemaskin kan vi foliebelegge alle plater
opptil 6 mm tykkelse og 1500 mm bredde.

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Aluminiumplater EN AW 5052/5754 H22/H32



Gjelder for tykkelser t.o.m. 6 mm
F.o.m. 8 mm gjelder følgende:
Tilstand O/H111
Kontrollsertifikat iflg.
EN 10204-3.1 CE-merket

Varegruppe: 6030

| Varenr. | Dimensjon | Kg/stk | Kg/m2 |
|---------|-----------------------|--------|-------|
| 313245 | 2,5 x 1000 x 2000 mm | 14,00 | 7,00 |
| 313246 | 2,5 x 1250 x 2500 mm | 21,90 | 7,00 |
| 313247 | 2,5 x 1500 x 3000 mm | 31,50 | 7,00 |
| 313248 | 3,0 x 1000 x 3000 mm | 25,20 | 8,40 |
| 313249 | 3,0 x 1000 x 2000 mm | 16,80 | 8,40 |
| 313250 | 3,0 x 1250 x 2500 mm | 26,25 | 8,40 |
| 313252 | 3,0 x 1250 x 3000 mm | 31,50 | 8,40 |
| 322935 | 3,0 x 1250 x 2500 mm | 26,25 | 8,40 |
| 313253 | 3,0 x 1500 x 3000 mm | 37,80 | 8,40 |
| 322936 | 3,0 x 1500 x 3000 mm | 37,80 | 8,40 |
| 313254 | 4,0 x 1000 x 2000 mm | 22,40 | 11,20 |
| 313255 | 4,0 x 1250 x 2500 mm | 35,00 | 11,20 |
| 313256 | 4,0 x 1500 x 3000 mm | 50,40 | 11,20 |
| 313257 | 5,0 x 1000 x 2000 mm | 28,00 | 14,00 |
| 313258 | 5,0 x 1250 x 2500 mm | 43,75 | 14,00 |
| 313259 | 5,0 x 1500 x 3000 mm | 63,00 | 14,00 |
| 313260 | 6,0 x 1000 x 2000 mm | 33,60 | 16,80 |
| 313261 | 6,0 x 1250 x 2500 mm | 52,50 | 16,80 |
| 313262 | 6,0 x 1500 x 3000 mm | 75,60 | 16,80 |
| 313263 | 8,0 x 1000 x 2000 mm | 44,80 | 22,40 |
| 321253 | 8,0 x 1270 x 2520 mm | 71,70 | 22,40 |
| 332585 | 8,0 x 1500 x 3000 mm | 100,80 | 22,40 |
| 313265 | 10,0 x 1000 x 2000 mm | 56,00 | 28,00 |
| 321254 | 10,0 x 1270 x 2520 mm | 89,60 | 28,00 |
| 332586 | 10,0 x 1500 x 3000 mm | 126,00 | 28,00 |
| 313267 | 12,0 x 1000 x 2000 mm | 67,20 | 33,60 |
| 313268 | 15,0 x 1000 x 2000 mm | 84,00 | 42,00 |
| 321255 | 15,0 x 1270 x 2520 mm | 134,40 | 42,00 |
| 332587 | 15,0 x 1500 x 3000 mm | 189,00 | 42,00 |
| 313270 | 20,0 x 1000 x 2000 mm | 112,00 | 56,00 |
| 321256 | 20,0 x 1270 x 2520 mm | 179,20 | 56,00 |
| 332588 | 20,0 x 1500 x 3000 mm | 252,00 | 56,00 |
| 313272 | 25,0 x 1000 x 2000 mm | 140,00 | 70,00 |

Aluminium skipsplater EN AW 5052/5754 H24/ H34



Kontrollsertifikat iflg.
EN 10204-3.2 - DNVGL CE merket

Varegruppe: 6024

| Varenr. | Dimensjon | Kg/stk |
|---------|--------------------|--------|
| 313306 | 4 x 2000 x 6000 mm | 134,4 |
| 313308 | 5 x 2000 x 6000 mm | 165,5 |
| 313310 | 6 x 2000 x 6000 mm | 198 |
| 313312 | 7 x 2000 x 6000 mm | 230,4 |
| 313314 | 8 x 2000 x 6000 mm | 264 |

Aluminium skipsplater EN AW 5083 H116/H321



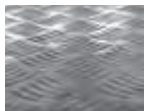
Kontrollsertifikat iflg. EN 10204-3.2 - DNVGL
CE-merket

Varegruppe: 6025

| Varenr. | Dimensjon | Kg/stk | Kg/m2 |
|---------|---------------------|--------|-------|
| 313316 | 3 x 2000 x 5000 mm | 84,00 | 8,40 |
| 313317 | 4 x 2000 x 5000 mm | 112,00 | 11,20 |
| 313318 | 5 x 2000 x 5000 mm | 138,00 | 13,80 |
| 313319 | 6 x 2000 x 5000 mm | 165,00 | 16,50 |
| 313320 | 7 x 2000 x 5000 mm | 192,00 | 19,20 |
| 313321 | 8 x 2000 x 5000 mm | 220,00 | 22,00 |
| 313322 | 10 x 2000 x 5000 mm | 275,00 | 27,50 |
| 313323 | 12 x 2000 x 5000 mm | 330,00 | 33,00 |
| 313324 | 15 x 2000 x 5000 mm | 413,00 | 41,30 |
| 313325 | 20 x 2000 x 5000 mm | 550,00 | 55,00 |
| 313326 | 25 x 2000 x 5000 mm | 687,00 | 68,70 |
| 313327 | 30 x 2000 x 5000 mm | 825,00 | 82,50 |

Aluminium dørkeplater EN AW 5052/5754, O/H111

Kontrollsertifikat iflg.
EN 10204-3.1 CE-merket



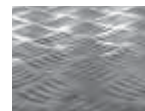
Varegruppe: 6040

| Varenr. | Dimensjon | Kg/stk | Kg/m2 |
|---------|-----------------------------|--------|-------|
| 313287 | 3 x 1000 x 3000 mm ONE BAR | 27,00 | 9,00 |
| 313288 | 3 x 1000 x 4000 mm ONE BAR | 36,00 | 9,00 |
| 313289 | 3 x 1250 x 2500 mm FIVE BAR | 27,30 | 8,74 |
| 313290 | 3 x 1500 x 3000 mm FIVE BAR | 38,00 | 8,44 |
| 313291 | 4 x 1000 x 2000 mm ONE BAR | 24,50 | 12,25 |
| 313292 | 4 x 1000 x 2000 mm FIVE BAR | 24,50 | 12,25 |
| 313293 | 4 x 1000 x 4000 mm ONE BAR | 49,50 | 12,38 |
| 313294 | 4 x 1000 x 4000 mm FIVE BAR | 49,50 | 12,38 |
| 313295 | 4 x 1250 x 2500 mm FIVE BAR | 36,40 | 11,65 |
| 313296 | 4 x 1500 x 3000 mm FIVE BAR | 52,50 | 11,67 |
| 313297 | 5 x 1000 x 2000 mm ONE BAR | 29,50 | 14,75 |
| 313298 | 5 x 1000 x 4000 mm ONE BAR | 59,00 | 14,75 |
| 313299 | 5 x 1000 x 4000 mm FIVE BAR | 59,00 | 29,50 |
| 313300 | 5 x 1250 x 2500 mm FIVE BAR | 46,83 | 14,99 |
| 313301 | 5 x 1500 x 3000 mm FIVE BAR | 67,50 | 15,00 |

| Varenr. | Dimensjon | Kg/stk | Kg/m2 |
|---------|-----------------------------|--------|-------|
| 313302 | 6 x 1000 x 4000 mm ONE BAR | 69,50 | 17,38 |
| 313303 | 6 x 1000 x 4000 mm FIVE BAR | 69,00 | 17,25 |
| 313304 | 7 x 1000 x 4000 mm ONE BAR | 79,00 | 19,75 |

Aluminium dørkeplater

Blank overflate EN AW 3003 H224
Kontrollsertifikat iflg. EN 10204-3.1



Varegruppe: 6045

| Varenr. | Dimensjon | Kg/stk |
|---------|-----------------------------|--------|
| 313333 | 4 x 1500 x 3000 mm FIVE BAR | 54,9 |

Aluminium Dørkeplater, Riskorn

EN AW 5754 H224



Varegruppe: 6042

| Varenr. | Dimensjon | Kg/stk |
|---------|----------------------------|--------|
| 121195 | 2 x 1250 x 2500 mm RISKORN | 18,70 |

AMAG
AUSTRIA METALL

**ALUMINIUM
FOR THE
BEST**

AUTOMOTIVE AEROSPACE MARINE GENERAL ENGINEERING

Aluminiumbånd

EN AW 1050A/1200 H14/H24
Indre diam: 508 mm.



Varegruppe: 6006

| Varenr. | Dimensjon | Kg/stk |
|---------|----------------|--------|
| 313140 | 1000 x 0,70 mm | 150 |
| 313142 | 1000 x 1,00 mm | 150 |
| 313143 | 1000 x 1,00 mm | 500 |

**Aluminiumbånd
Stucco**

EN AW 1050A/1200 H14/H24.
Indre dia: 508 mm.



Varegruppe: 6007

| Varenr. | Dimensjon | Kg/stk |
|---------|-----------------------|--------|
| 313144 | 600 x 0,75 mm 150 kg | 150 |
| 313145 | 1000 x 0,70 mm 150 kg | 150 |
| 313146 | 1000 x 0,70 mm 500 kg | 500 |
| 313147 | 1000 x 1,00 mm 150 kg | 150 |

**Aluminium bolt EN
AW 6082-T6**

Kontrollsertifikat iflg.
EN 10204-3.1 CE-merket



Varegruppe: 6300

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-----------------|------|--------|
| 332441 | 6 mm x Ø x 6 m | 0,1 | 0,6 |
| 332442 | 8 mm x Ø x 5 m | 0,14 | 0,7 |
| 332443 | 10 mm x Ø x 5 m | 0,21 | 1,05 |
| 332444 | 12 mm x Ø x 6 m | 0,31 | 1,86 |
| 332446 | 16 mm x Ø x 6 m | 0,55 | 3,3 |
| 313157 | 10 mm x Ø x 6 m | 0,21 | 1,26 |
| 313158 | 12 mm x Ø x 6 m | 0,31 | 1,86 |
| 313159 | 16 mm x Ø x 6 m | 0,55 | 3,3 |
| 332414 | 20 mm x Ø x 5 m | 0,86 | 4,3 |
| 313160 | 20 mm x Ø x 6 m | 0,86 | 5,16 |
| 313161 | 25 mm x Ø x 6 m | 1,34 | 8,04 |
| 313162 | 30 mm x Ø x 6 m | 1,93 | 11,58 |
| 313163 | 40 mm x Ø x 6 m | 3,52 | 21,12 |
| 313164 | 50 mm x Ø x 6 m | 5,5 | 33 |
| 313165 | 60 mm x Ø x 6 m | 7,92 | 47,52 |

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------------|-------|--------|
| 313166 | 70 mm x Ø x 6 m | 10,78 | 64,68 |
| 313167 | 80 mm x Ø x 6 m | 14,07 | 84,42 |
| 313168 | 100 mm x Ø x 3-3,5 m | 22 | |
| 313169 | 130 mm x Ø x 3-3,5 m | 37,15 | |
| 313170 | 150 mm x Ø x 3-3,5 m | 49,46 | |
| 313171 | 160 mm x Ø x 3-3,5 m | 56,3 | |
| 313172 | 170 mm x Ø x 3-3,5 m | 63,52 | |
| 313173 | 180 mm x Ø x 3-3,5 m | 71,2 | |
| 313174 | 200 mm x Ø x 3-3,5 m | 88 | |
| 313175 | 220 mm x Ø x 3-3,5 m | 106,4 | |
| 313176 | 230 mm x Ø x 3-3,5 m | 116,3 | |
| 313177 | 250 mm x Ø x 3-3,5 m | 137,4 | |
| 315363 | 300 mm x Ø x 3-3,5 m | 197,8 | |

**Aluminium firkant
EN AW 6082-T6**

Kontrollsertifikat iflg. EN 10204-3.1 med
CE-merking.



Varegruppe: 6302

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|--------------------|------|--------|
| 313178 | 20 mm x 4-KT x 6 m | 1,08 | 6,48 |
| 313179 | 25 mm x 4-KT x 6 m | 1,7 | 10,2 |
| 313180 | 30 mm x 4-KT x 6 m | 2,43 | 14,58 |
| 313181 | 40 mm x 4-KT x 6 m | 4,48 | 26,88 |
| 313182 | 50 mm x 4-KT x 6 m | 7 | 42 |

**Aluminium
strømskinner EN
AW 6060**

Ligger kun på lager i Harstad. Kontroll-
sertifikat iflg. NS-EN 10 204-3.1 CE-merket



Varegruppe: 6304

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-------------------|------|--------|
| 315380 | 30 x 10 mm x 6 m | 0,84 | 5,04 |
| 315381 | 40 x 10 mm x 6 m | 1,12 | 6,72 |
| 315382 | 50 x 10 mm x 6 m | 1,40 | 8,40 |
| 315383 | 60 x 10 mm x 6 m | 1,68 | 10,08 |
| 315384 | 80 x 10 mm x 6 m | 2,24 | 13,44 |
| 315385 | 100 x 10 mm x 6 m | 2,80 | 16,80 |

Aluminiumskinner EN AW 6082-T6

Kontrollsertifikat iflg. EN 10204-3.1
CE-merket

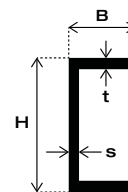
Varegruppe: 6305

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|--------------------------|------|--------|
| 313432 | 15 x 3 mm x 6 m | 0,13 | 0,78 |
| 313433 | 20 x 3 mm x 6 m | 0,17 | 1,02 |
| 332450 | 20 x 5 mm x 6 m | 0,28 | 1,68 |
| 313434 | 25 x 3 mm x 6 m | 0,21 | 1,26 |
| 313437 | 25 x 5 mm x 6 m | 0,35 | 2,10 |
| 313442 | 25 x 6 mm x 6 m | 0,42 | 2,52 |
| 313451 | 25 x 8 mm x 6 m | 0,56 | 3,36 |
| 315333 | 30 x 2 mm x 5 m | 0,17 | 0,85 |
| 313435 | 30 x 3 mm x 6 m | 0,26 | 1,56 |
| 313438 | 30 x 5 mm x 6 m | 0,42 | 2,52 |
| 313444 | 30 x 6 mm x 6 m | 0,51 | 3,06 |
| 313452 | 30 x 8 mm x 6 m | 0,68 | 4,08 |
| 313436 | 40 x 4 mm x 6 m | 0,45 | 2,70 |
| 313439 | 40 x 5 mm x 6 m | 0,56 | 3,36 |
| 313445 | 40 x 6 mm x 6 m | 0,68 | 4,08 |
| 313453 | 40 x 8 mm x 6 m | 0,90 | 5,40 |
| 313459 | 40 x 10 mm x 6 m | 1,12 | 6,72 |
| 313479 | 40 x 20 mm x 6 m | 2,24 | 13,44 |
| 313441 | 50 x 5 mm x 6 m | 0,70 | 4,20 |
| 313446 | 50 x 6 mm x 6 m | 0,84 | 5,04 |
| 313454 | 50 x 8 mm x 6 m mds-m03 | 1,12 | 6,72 |
| 313460 | 50 x 10 mm x 6 m | 1,40 | 8,40 |
| 313480 | 50 x 20 mm x 6 m | 2,80 | 16,80 |
| 313440 | 60 x 5 mm x 6 m | 0,84 | 5,04 |
| 313447 | 60 x 6 mm x 6 m | 1,01 | 6,06 |
| 313455 | 60 x 8 mm x 6 m mds-m03 | 1,35 | 8,10 |
| 313461 | 60 x 10 mm x 6 m | 1,68 | 10,08 |
| 313471 | 60 x 15 mm x 6 m | 2,52 | 15,12 |
| 313481 | 60 x 20 mm x 6 m | 3,35 | 20,10 |
| 313483 | 60 x 30 mm x 6 m | 5,04 | 30,24 |
| 313448 | 65 x 6 mm x 6 m | 1,10 | 6,60 |
| 313449 | 75 x 6 mm x 6 m | 1,26 | 7,56 |
| 313456 | 75 x 8 mm x 6 m | 1,68 | 10,08 |
| 313462 | 75 x 10 mm x 6 m | 2,10 | 12,60 |
| 313472 | 80 x 15 mm x 6 m | 3,36 | 20,16 |
| 313443 | 100 x 5 mm x 6 m | 1,36 | 8,16 |
| 313450 | 100 x 6 mm x 6 m | 1,62 | 9,72 |
| 313457 | 100 x 8 mm x 6 m mds-m03 | 2,24 | 13,44 |
| 313463 | 100 x 10mm x 6 m mds-m03 | 2,80 | 16,80 |
| 313468 | 100 x 12 mm x 6 m | 3,36 | 20,16 |
| 313473 | 100 x 15 mm x 6 m | 4,10 | 24,60 |
| 313477 | 100 x 20 mm x 6 m | 5,60 | 33,60 |
| 313458 | 120 x 8 mm x 6 m | 2,72 | 16,32 |

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|---------------------------|-------|--------|
| 313464 | 120 x 10 mm x 6 m | 3,36 | 20,16 |
| 313474 | 120 x 15 mm x 6 m | 5,04 | 30,24 |
| 313465 | 150 x 10 mm x 6 m mds-m03 | 4,20 | 25,20 |
| 313470 | 150 x 12 mm x 6 m | 5,04 | 30,24 |
| 313475 | 150 x 15mm x 6 m mds-m03 | 6,30 | 37,80 |
| 313478 | 150 x 20 mm x 6 m | 8,40 | 50,40 |
| 313466 | 200 x 10 mm x 6 m | 5,60 | 33,60 |
| 313476 | 200 x 15mm x 6 m mds-m03 | 8,40 | 50,40 |
| 313482 | 200 x 20 mm x 6 m | 11,20 | 67,20 |
| 313467 | 250 x 10 mm x 6 m | 7,00 | 42,00 |

Aluminium U-profil EN AW 6082-T6

Lengder a 6 m.
Kontrollsertifikat iflg. EN 10204-3.1
CE-merket



Varegruppe: 6309

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-----------------------------------|------|--------|
| 313349 | 20 x 20 x 20 x 2 mm x 6 m | 0,31 | 1,86 |
| 313350 | 20 x 30 x 20 x 3 mm x 6 m | 0,54 | 3,24 |
| 313351 | 30 x 40 x 30 x 3 mm x 6 m | 0,78 | 4,68 |
| 313352 | 35 x 50 x 35 x 4 x 3 mm x 6 m | 1,16 | 6,96 |
| 313354 | 40 x 75 x 40 x 5 x 4 mm x 6 m | 1,83 | 10,98 |
| 313353 | 45 x 50 x 45 x 5 mm x 6 m | 1,81 | 10,86 |
| 313355 | 50 x 75 x 50 x 7 x 6 mm x 6 m | 2,92 | 17,52 |
| 313356 | 50 x 100 x 50 x 8 x 6 mm x 6 m | 3,61 | 21,66 |
| 313357 | 60 x 140 x 60 x 7 x 7 mm x 6 m | 4,80 | 28,80 |
| 313359 | 60 x 200 x 60 x 8 x 4,5 mm x 6 m | 5,00 | 30,00 |
| 313358 | 65 x 125 x 65 x 9 x 6 mm x 6 m | 5,08 | 30,48 |
| 313360 | 100 x 200 x 100 x 5 mm x 6 m | 5,46 | 32,76 |
| 313361 | 100 x 220 x 100 x 10 x 6 mm x 6 m | 8,75 | 52,50 |

Aluminium T-profil EN AW 6082-T6

Kontrollsertifikat iflg. EN 10204-3.1
CE-merket



Varegruppe: 6299

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|----------------------|------|--------|
| 313344 | 30 x 30 x 3 mm x 6 m | 0,48 | 2,88 |
| 313345 | 40 x 40 x 4 mm x 6 m | 0,86 | 5,16 |
| 313346 | 50 x 50 x 5 mm x 6 m | 1,32 | 7,92 |
| 313347 | 50 x 50 x 6 mm x 6 m | 1,59 | 9,54 |
| 313348 | 60 x 60 x 6 mm x 6 m | 1,92 | 11,52 |

Aluminiumvinkel EN AW 6082-T6

Likebenet / Ulikebenet. Kontrollsertifikat iflg.
EN 10204-3.1 CE-merket



Varegruppe: 6307

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|---------------------------------|------|--------|
| 313485 | 15 x 15 x 2 mm x 6 m | 0,16 | 0,96 |
| 313486 | 20 x 20 x 2 mm x 6 m | 0,22 | 1,32 |
| 313487 | 20 x 20 x 3 mm x 6 m | 0,31 | 1,86 |
| 313488 | 25 x 25 x 3 mm x 6 m | 0,40 | 2,40 |
| 313489 | 30 x 30 x 3 mm x 6 m | 0,48 | 2,88 |
| 313490 | 30 x 30 x 5 mm x 6 m | 0,78 | 4,68 |
| 313491 | 40 x 40 x 4 mm x 6 m | 0,86 | 5,16 |
| 313492 | 40 x 40 x 5 mm x 6 m | 1,05 | 6,30 |
| 313493 | 50 x 50 x 5 mm x 6 m mds-m03 | 1,33 | 7,98 |
| 313494 | 50 x 50 x 6 mm x 6 m | 1,58 | 9,48 |
| 313495 | 60 x 60 x 6 mm x 6 m mds-m03 | 1,92 | 11,52 |
| 313496 | 65 x 65 x 6 mm x 6 m | 2,09 | 12,54 |
| 313497 | 65 x 65 x 8 mm x 6 m mds-m03 | 2,74 | 16,44 |
| 313498 | 75 x 75 x 9 mm x 6 m mds-m03 | 3,56 | 21,36 |
| 313499 | 100 x 100 x 10 mm x 6 m mds-m03 | 5,32 | 31,92 |
| 313500 | 40 x 20 x 2 mm x 6 m | 0,31 | 1,86 |
| 313501 | 40 x 25 x 2 mm x 6 m | 0,36 | 2,16 |
| 332436 | 50 x 30 x 4 mm x 6 m | 0,84 | 5,04 |
| 332438 | 50 x 40 x 4 mm x 6 m | 0,95 | 5,70 |
| 313502 | 50 x 40 x 5 mm x 6 m | 1,20 | 7,20 |
| 313503 | 60 x 30 x 5 mm x 6 m | 1,20 | 7,20 |
| 313504 | 60 x 40 x 5 mm x 6 m | 1,31 | 7,86 |
| 313505 | 65 x 50 x 6 mm x 6 m | 1,84 | 11,04 |
| 313506 | 75 x 50 x 6 mm x 6 m | 2,00 | 12,00 |
| 313507 | 75 x 50 x 7 mm x 6 m | 2,32 | 13,92 |
| 313508 | 75 x 50 x 8 mm x 6 m mds-m03 | 2,62 | 15,72 |
| 313509 | 100 x 50 x 6 mm x 6 m | 2,42 | 14,52 |
| 313510 | 100 x 50 x 7 mm x 6 m | 2,81 | 16,86 |
| 313511 | 100 x 50 x 8 mm x 6 m | 3,18 | 19,08 |
| 313512 | 100 x 65 x 6 mm x 6 m | 2,69 | 16,14 |
| 313513 | 100 x 65 x 8 mm x 6 m | 3,52 | 21,12 |
| 313514 | 100 x 65 x 9 mm x 6 m | 3,94 | 23,64 |
| 313515 | 100 x 75 x 8 mm x 6 m | 3,70 | 22,20 |
| 313516 | 125 x 75 x 9 mm x 6 m | 4,75 | 28,50 |
| 313517 | 130 x 65 x 8 mm x 6 m | 4,19 | 25,14 |
| 320623 | 130 x 65 x 10 mm x 6 m mds-m03 | 5,10 | 30,60 |
| 313519 | 130 x 75 x 9 mm x 6 m | 4,94 | 29,64 |
| 313518 | 150 x 75 x 9 mm x 6 m | 5,45 | 32,70 |
| 313520 | 150 x 100x10 mm x 6 m | 6,72 | 40,32 |
| 313521 | 200 x 100x10 mm x 6 m | 8,12 | 48,72 |

Aluminium bingeprofil EN AW 6082-T6

Kontrollsertifikat iflg. EN 10204-3.1
CE-merket



Varegruppe: 6311

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|---------------------|------|--------|
| 313335 | 5718 SIDEPROF x 7 m | 2,45 | 17,15 |

Aluminium båtfenderlist EN AW 6082-T6

Kontrollsertifikat iflg. EN 10204-3.1
CE-merket



Varegruppe: 6310

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|------------------------|------|--------|
| 313334 | 26 x 57,4 x 8 mm x 6 m | 1,55 | 9,30 |

Aluminium rør runde EN AW 6060-T6

Kontrollsertifikat iflg. EN 10204-3.1
CE-merket



Varegruppe: 6295

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-----------------------|-------|--------|
| 313373 | Ø 16 x 1,50 mm x 6 m | 0,19 | 1,14 |
| 313374 | Ø 20 x 2,00 mm x 6 m | 0,32 | 1,92 |
| 313375 | Ø 25 x 2,00 mm x 6 m | 0,40 | 2,40 |
| 313376 | Ø 25 x 3,50 mm x 6 m | 0,67 | 4,02 |
| 313377 | Ø 32 x 3,50 mm x 6 m | 0,88 | 5,28 |
| 313378 | Ø 40 x 3,50 mm x 6 m | 1,12 | 6,72 |
| 313379 | Ø 50 x 3,50 mm x 6 m | 1,43 | 8,58 |
| 313380 | Ø 60 x 5,00 mm x 6 m | 2,42 | 14,52 |
| 313381 | Ø 60 x 3,50 mm x 6 m | 1,74 | 10,44 |
| 313382 | Ø 65 x 3,50 mm x 6 m | 1,89 | 11,34 |
| 313383 | Ø 75 x 4,00 mm x 6 m | 2,50 | 15,00 |
| 313384 | Ø 90 x 4,00 mm x 6 m | 3,03 | 18,18 |
| 313385 | Ø 100 x 4,00 mm x 6 m | 3,29 | 19,74 |
| 313386 | Ø 125 x 4,00 mm x 6 m | 4,26 | 25,56 |
| 313387 | Ø 150 x 5,00 mm x 6 m | 6,32 | 37,92 |
| 313388 | Ø 150 x 8,00 mm x 5 m | 9,63 | 48,15 |
| 313389 | Ø 200 x 5,00 mm x 6 m | 8,58 | 51,48 |
| 313390 | Ø 250 x 5,00 mm x 6 m | 10,70 | 64,20 |

Aluminium rør runde EN AW 6082-T6



Kontrollsertifikat iflg. EN 10204-3.1
CE-merket

Varegruppe: 6296

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|------------------------------|-------|--------|
| 313362 | Ø 32 x 3,50 mm x 6 m mds-m03 | 0,88 | 5,28 |
| 313363 | Ø 40 x 3,50 mm x 6 m | 1,12 | 6,72 |
| 313364 | Ø 50 x 3,50 mm x 6 m | 1,43 | 8,58 |
| 313367 | Ø 50 x 10,00 mm x 6 m | 3,50 | 21,00 |
| 313365 | Ø 55 x 2,50 mm x 6 m | 1,16 | 6,96 |
| 313366 | Ø 60 x 3,50 mm x 6 m | 1,74 | 10,44 |
| 313368 | Ø 60 x 10,00 mm x 6 m | 4,25 | 25,50 |
| 313369 | Ø 80 x 10,00 mm x 6 m | 6,16 | 36,96 |
| 313370 | Ø 90 x 4,00 mm x 6 m | 3,03 | 18,18 |
| 313371 | Ø 100 x 10,00 mm x 6 m | 7,70 | 46,20 |
| 313372 | Ø 120 x 10,00 mm x 6 m | 9,40 | 56,40 |
| 318972 | Ø 300 x 10,00 mm x 5 m | 25,90 | 129,50 |
| 321279 | Ø 350 x 10,0 mm x 6 m | 30,40 | 182,40 |

Aluminium rør kvadratiske og rektangulære EN AW 6060 T6



Kontrollsertifikat iflg. EN 10204-3.1
CE-merket

Varegruppe: 6297

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-------------------------------|------|--------|
| 315364 | RETTHOLT 100 x 18 x 2,0 x 5 m | 1,25 | 7,85 |
| 313393 | 20 x 20 x 2,0 x 6 m | 0,40 | 2,40 |
| 313394 | 25 x 25 x 2,0 x 6 m | 0,52 | 3,12 |
| 313395 | 30 x 30 x 2,0 x 6 m | 0,63 | 3,78 |
| 313396 | 40 x 40 x 2,0 x 6 m | 0,85 | 5,10 |
| 313397 | 40 x 40 x 3,0 x 6 m | 1,21 | 7,26 |
| 313398 | 50 x 50 x 3,0 x 6 m | 1,58 | 9,48 |
| 332433 | 100 x 100 x 4,0 x 6 m | 1,21 | 7,26 |
| 313399 | 34 x 20 x 2,0 x 6 m | 0,56 | 3,36 |
| 313401 | 40 x 20 x 2,0 x 6 m | 0,63 | 3,78 |
| 313402 | 50 x 20 x 2,5 x 6 m | 0,91 | 5,46 |
| 313403 | 50 x 34 x 2,5 x 6 m | 1,11 | 6,66 |
| 313404 | 50 x 40 x 2,5 x 6 m | 1,19 | 7,14 |
| 332430 | 60 x 40 x 3,0 x 6 m | 1,60 | 9,60 |
| 313405 | 90 x 30 x 2,5 x 6 m | 1,61 | 9,66 |
| 332431 | 100 x 50 x 4,0 x 6 m | 3,10 | 18,60 |



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Aluminium rør kvadratiske og rektangulære EN AW 6082-T6



Kontrollsertifikat iflg. EN 10204-3.1
CE-merket

Varegruppe: 6287

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-----------------------------|-------|--------|
| 313416 | 40 x 40 x 2,5 x 6 m | 1,07 | 6,42 |
| 313417 | 40 x 40 x 4,0 x 6 m | 1,61 | 9,66 |
| 313418 | 50 x 50 x 4,0 x 6 m | 2,06 | 12,36 |
| 313419 | 57 x 57 x 6 x 4 x 6 m | 2,93 | 17,58 |
| 313423 | 80 x 80 x 5 x 6 m mds-m03 | 4,05 | 24,30 |
| 313425 | 100 x 100 x 4 x 6 m | 4,30 | 25,80 |
| 313426 | 100 x 100 x 5 x 6 m mds-m03 | 5,13 | 30,78 |
| 313427 | 100 x 100 x 12,5 x 6 m | 11,50 | 69,00 |
| 313429 | 150 x 150 x 5 x 6 m | 7,80 | 46,80 |
| 313420 | 60 x 30 x 2,5 x 6 m | 1,16 | 6,96 |
| 313421 | 80 x 40 x 3,0 x 6 m | 1,92 | 11,52 |
| 313422 | 80 x 50 x 4,0 x 6 m | 2,73 | 16,38 |
| 313424 | 100 x 50 x 5 x 6 m | 3,90 | 23,40 |
| 313428 | 150 x 100 x 5 x 6 m | 6,48 | 38,88 |
| 313430 | 200 x 100 x 5 x 6 m | 7,80 | 46,80 |

Aluminium-stål sveise-forbinder



Ultrald-testet
Stål: SS 2134
Alum.: SS 4007
Alum.: SS 4140
Kontrollsertifikat iflg. EN 10204-3.1

Varegruppe: 6380

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|------------------------|------|--------|
| 313337 | 28 x (20+3+10) x 3,8 M | 5,40 | 20,52 |

Aluminium bend 90 grader EN AW 5754/6060



Kontrollsertifikat iflg. EN 10204-3.1

Varegruppe: 6317

| Varenr. | Dimensjon | Kg/stk |
|---------|----------------|--------|
| 313406 | Ø 25 x 2,5 mm | 0,02 |
| 313407 | Ø 32 x 3,0 mm | 0,05 |
| 313408 | Ø 40 x 3,0 mm | 0,08 |
| 313409 | Ø 50 x 3,0 mm | 0,12 |
| 313410 | Ø 60 x 3,5 mm | 0,22 |
| 313411 | Ø 65 x 4,0 mm | 0,26 |
| 313412 | Ø 90 x 4,0 mm | 0,52 |
| 313413 | Ø 75 x 5,0 mm | 0,44 |
| 313414 | Ø 100 x 5,0 mm | 0,88 |
| 313415 | Ø 150 x 5,0 mm | 2,10 |

11 Metaller

Kobber

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11 Metaller

Kobberplater glødde

Hardhet: HV 40-65
Verksattest iflg. EN 10204-2.1



Varegruppe: 6635

| Varenr. | Dimensjon | Kg/stk |
|---------|-----------------------|--------|
| 313022 | 0,60 x 1000 x 2000 mm | 10,80 |
| 313023 | 0,70 x 1000 x 2000 mm | 12,60 |

Kobberplater 1/2 harde

Hardhet: 75-95
Verksattest iflg. EN 10204-2.1



Varegruppe: 6640

| Varenr. | Dimensjon | Kg/stk |
|---------|-----------------------|--------|
| 313025 | 0,56 x 1000 x 2000 mm | 10,10 |
| 38103 | 0,60 x 1000 x 2000 mm | 10,80 |
| 73767 | 0,70 x 1000 x 2000 mm | 12,60 |
| 21000 | 1,00 x 1000 x 2000 mm | 18,00 |
| 89472 | 1,50 x 1000 x 2000 mm | 27,00 |
| 313028 | 2,00 x 1000 x 2000 mm | 36,00 |
| 313030 | 3,00 x 1000 x 2000 mm | 53,90 |
| 313032 | 5,00 x 1000 x 2000 mm | 89,90 |

Kobberplater 1/2 harde

Nordic Green m/folie.



Varegruppe: 6630

| Varenr. | Dimensjon | Kg/stk |
|---------|-----------------------|--------|
| 313024 | 0,70 x 1000 x 2000 mm | 12,6 |

Kobberbånd 1/2 harde



Varegruppe: 6650

| Varenr. | Dimensjon | Kg/stk |
|---------|---------------|--------|
| 313021 | 0,70 x 670 mm | 125 |

Kobberbolt elektrolytisk



Verksattest iflg. EN 10204-2.1

Varegruppe: 6661

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-----------------|------|--------|
| 34562 | 10 mm x Ø x 4 m | 0,71 | 2,84 |
| 59562 | 12 mm x Ø x 4 m | 1,00 | 4,00 |
| 313012 | 15 mm x Ø x 4 m | 1,57 | 6,28 |
| 71339 | 20 mm x Ø x 4 m | 2,82 | 11,28 |

Kobberskinner elektrolytisk



Avrundede hjørner.
Verksattest iflg. EN 10204-2.1

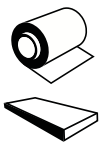
Varegruppe: 6660

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|------------------|------|--------|
| 67852 | 15 x 5 mm x 4 m | 0,67 | 2,68 |
| 92188 | 20 x 3 mm x 4 m | 0,54 | 2,16 |
| 55565 | 20 x 5 mm x 4 m | 0,90 | 3,60 |
| 19992 | 20 x 10 mm x 4 m | 1,80 | 7,20 |
| 313088 | 25 x 2 mm x 4 m | 0,45 | 1,80 |
| 84605 | 25 x 3 mm x 4 m | 0,67 | 2,68 |
| 57390 | 25 x 5 mm x 4 m | 1,12 | 4,48 |
| 54691 | 30 x 5 mm x 4 m | 1,35 | 5,40 |
| 82792 | 30 x 6 mm x 4 m | 1,62 | 6,48 |
| 80437 | 30 x 10 mm x 4 m | 2,70 | 10,80 |
| 31633 | 40 x 3 mm x 4 m | 1,08 | 4,32 |
| 61792 | 40 x 4 mm x 4 m | 1,44 | 5,76 |
| 11250 | 40 x 10 mm x 4 m | 3,60 | 14,40 |
| 11205 | 50 x 5 mm x 4 m | 2,25 | 9,00 |
| 18576 | 50 x 6 mm x 4 m | 2,70 | 10,80 |

| Varenr. | Dimensjon | Kg/m | Kg/stk |
|---------|-------------------|-------|--------|
| 39205 | 50 x 10 mm x 4 m | 4,49 | 17,96 |
| 51772 | 60 x 10 mm x 4 m | 5,39 | 21,56 |
| 16695 | 80 x 10 mm x 4 m | 7,19 | 28,76 |
| 34606 | 100 x 10 mm x 4 m | 8,99 | 35,96 |
| 13256 | 120 x 10 mm x 4 m | 10,80 | 43,20 |

Rheinzink blank

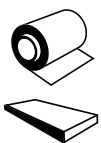
Varegruppe: 6811



| Varenr. | Dimensjon | Kg/stk |
|---------|-----------------------------|--------|
| 313134 | BD 0,7 x 670 mm 250KG BL | 250,00 |
| 313133 | BD 0,7 x 670 mm 100KG BL | 100,00 |
| 313129 | BLANK 0,70 x 1000 x 2000 mm | 10,08 |
| 313131 | BLANK 0,80 x 1000 x 2000 mm | 11,52 |
| 313130 | BLANK 0,70 x 1000 x 2500 mm | 12,65 |
| 313132 | BLANK 1,00 x 1000 x 2000 mm | 14,40 |

Rheinzink blågrå

Varegruppe: 6821



| Varenr. | Dimensjon | Kg/stk |
|---------|--------------------------|--------|
| 313122 | BD 0,70 x 670 mm 100 kg | 100,00 |
| 313123 | BD 0,70 x 670 mm 250 kg | 250,00 |
| 313124 | BD 0,70 x 1000 mm 500 kg | 500,00 |
| 313125 | 0,70 x 1000 x 2000 mm | 10,08 |
| 313126 | 0,70 x 1000 x 2500 mm | 12,65 |
| 313127 | 0,80 x 1000 x 2000 mm | 11,52 |
| 313128 | 1,00 x 1000 x 2000 mm | 14,40 |

Bly på rull



Varegruppe: 6810

| Varenr. | Dimensjon | Kg/stk |
|---------|------------------------------|--------|
| 312995 | CA. 50 kg 1,00 x 330 mm | 50,00 |
| 312996 | CA. 50 kg 1,00 x 1000 mm | 50,00 |
| 312997 | CA. 50 kg 1,50 x 1000 mm | 50,00 |
| 312998 | CA. 50 kg 2,00 x 1000 mm | 50,00 |
| 313007 | FARGET 1,0 x 1000 mm SLETT | 50,00 |
| 313006 | FARGET 1,00 x 250 mm SLETT | 50,00 |
| 313008 | FARGET 1,0 x 330 mm PLISSERT | 17,00 |
| 313001 | TINNB. 50 kg 1,00 x 1000 mm | 50,00 |
| 312999 | TINNB. 50 kg 1,00 x 200 mm | 50,00 |
| 313000 | TINNB. 50 kg 1,00 x 250 mm | 50,00 |
| 313004 | TINNB. 50 kg 1,25 x 1000 mm | 50,00 |
| 313002 | TINNB. 50 kg 1,25 x 200 mm | 50,00 |
| 313005 | TINNB. 50 kg 1,50 x 1000 mm | 50,00 |



Din samarbeids- partner på anleggsprosjekter

www.norskstaal.no

12 Tabeller og annen informasjon

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Norsk Stål påtar seg ikke ansvar for eventuelle feil i tabellverk og tekster.

Carbon Steel Comparison Table

| Europe | | Germany | France | Italy | Belgium | Sweden | U.K. | Canada | India | Japan | | International | USA |
|-------------------|-----------------|-------------|-------------|-----------|----------------|----------|---------|-----------|------------|----------|-----------|---------------|---------------------|
| EN 10025-2 (2004) | EN 10025 (1993) | DIN 17100 | NF A 35-501 | UNI 7070 | NBN21-101 | MNC 810E | BS 4360 | CSAG40-21 | IS | JIS 3101 | JIS 3106 | ISO 630 | ASTM |
| S185 | S185 | St33 | A 33 | Fe 320 | A 320 | 13 00-00 | | | | SS 330 | | | A283 A,B,C,D |
| | S235JR | St 37-2 | E24-2 | Fe 360 B | AE 235-B | 13 11-00 | | | | | | FE 310 | |
| | S235JRG1 | UST 37-2 | | | | | | | | | | | |
| S235JR | S235JRG2 | RSt 37-2 | E24-2 | Fe 360 B | AE 235-B | 13 12-00 | 40(A)B | 230 G | IS226 | SS400 | SM 400A | Fe 360 B | A284 gr. C, D |
| S235J0 | S235J0 | St37-3U | E 24-3 | Fe 360 C | AE 235-C | | 40C | | Fe 410-S | | SM400B | Fe 360C | |
| S235J2+N | S235J2G3 | St 37-3 N | E24-4 | Fe 360 D | AE 235-D | | 40D | | | | SM400C | Fe 360 D | |
| S235J2 | S235J2G4 | Fe E360 D2 | | | | | 40 EE | | | | | | A 36 |
| | | | | | AE 255 A,B,C,D | | | | | | | | |
| S275JR | S275JR | ST 44-2 | E 28-2 | Fe430B | AE 295-B | 14 12-00 | 43(A)B | 260W,WT | IS2062 | | | Fe 430B | A529 gr. 42,50 |
| S275J0 | S275J0 | St44-3U | E 28-3 | Fe 430 C | AE 295-C | | 43 C | | Fe410 WA | | | Fe 430C | |
| S275J2+N | S275J2G3 | St 44-3N | E 28-4 | Fe 430D | AE 295-D | 14 14-00 | 43 D | | Fe 410 WB | | | Fe 430D | A572 gr. 42,50 |
| S275J2 | S275J2G4 | Fe 430 D2 | | | AE 295-DD | 14 14-01 | 43EE | | Fe 410 WC | | | | |
| | | | | | | 26 32-00 | | 300W,WT | | | | | |
| | | | | | | 26 34-11 | | | | | | | A 573 gr. 58,65, 70 |
| | | | | | | 21 72-00 | | | | | | | |
| | | | | | | 21 74-01 | | | | | | | |
| S355JR | S355JR | | E 36-2 | Fe 510 B | AE 355-B | 21 32-01 | 50 B | 350 W, WT | IS 961 | SS490 | SM 490A | FE 510 B | A633 gr. A,C,D |
| S355J0 | S355J0 | St 52-3 U | E 36-3 | Fe 510C | AE 335-C | 21 34-01 | 50 C | | Fe 570 HT | | SS490B | Fe 510 C | |
| S355J2+N | S355J2G3 | St 52-3 N | | Fe 510D | AE 355 D | 21 35-01 | 50 D | | Fe 540 WHT | | SS 490 C | Fe 510D | |
| S355J2 | S355J2G4 | | | | | 26 42-00 | | | | | SS 490 YA | A 656 | A656 gr. 50 |
| S335K2+N | S335K2G3 | Fe 510 D D1 | E 36 -4 | Fe 510 DD | AE355-DD | 26 44-11 | 50 DD | | | | SS490 YB | | |
| S335K2 | S335K2G4 | Fe 510 DD2 | | | | | 50 EE | | | | SM 520 B | | A 709 |
| | | | | | | | | | | | SM 520 C | | gr.36,50,50 W |
| | | | | | | | | | | | | | A 808 |

Carbon Steel Comparison Table

| Europe | | | Germany | France | Italy | Sweden | U.K. |
|----------------------|----------------------|----------------------|------------|-------------|----------------|---------|---------|
| EN 10025-3 (2004) | EN 10025-4 (2004) | EN 10113-2 (1993) | DIN | NF A 36-201 | UNI | SS 14.. | BS 4360 |
| S275N | | S 275N | StE285 | | Fe E 275 kg N | | |
| S275NL | | S 275NL | TStE285 | | Fe E 275 KT N | | 43EE |
| S355N | | S 355 N | StE355 | E 355 R | Fe E 355 kg N | 2134-01 | |
| S355NL | | S 355 NL | TStE355 | E 355 FP | Fe E 355 KT N | 2135-01 | 50EE |
| S420N | | S420N | StE420 | E 420 R | | | |
| S420NL | | S420NL | TStE420 | E 420 FP | | | |
| S460N | | S460 N | StE460 | E 460 R | Fe E 460 kg N | | |
| S460NL | | S460 NL | TStE460 | E 460 FP | Fe E 460 KT N | | 55EE |
| | S275M | S275M | | | Fe E 275 kg TM | | |
| | S275ML | S275ML | | | Fe E 275 KT TM | | |
| | S355M | S355M | StE355 TM | | Fe E 355 kg TM | | |
| | S355ML | S355ML | TStE355 TM | | Fe E 355 KT TM | | |
| | S420M | S420M | StE420 TM | | | | |
| | S420ML | S420ML | TStE420 TM | | | | |
| | S460M | S460M | StE460 TM | | Fe E 460 kg TM | | |
| | S460ML | S460ML | TStE460 TM | | Fe E 460 KT TM | | |

Comparison Table Boiler Steels

| Material | EN 10028-2 | DIN 17155 | NFA 36-205 | UNI 5869 | BS 1501 | UNE 36087 | ASTM | JIS G3115 |
|------------------------------|------------|--------------|------------|--------------|---|--------------|-------------------------------|-----------|
| 1.0345 | P235GH | HI | A 37 CP | Fe 360 - 1KW | "161 Gr. 360 | | | |
| 164 Gr. 360" | A 37 RCI | "A 285 Gr. C | | | | | | |
| A 414 Gr. C A 516 Gr. 55" | SPV 24 | | | | | | | |
| 1.0425 | P265GH | HI | A 42 CP | Fe 410 - 1KW | 161 Gr. 400 / 164 Gr. 400 / 224 Gr. 400 | A 42 RCI | A 414 Gr. E / A 516 Gr. 60 | |
| 1.0481 | P295GH | 17 mn 4 | A 48 CP | Fe 460 - 1KW | 224 Gr. 490 | A 47 RCI | A 414 Gr. F / A 516 Gr. 65 | SPV 32 |
| 1.0473 | P355GH | 19 mn 6 | A 52 CP | Fe 510 - 1KW | | A 52 RCI | A 414 Gr. G | SPV 36 |
| 1.5415 | 16 mo3 | 15 mo 3 | 15 D3 | 15 mo 3 | 1503 - 243 B | 16 mo 3 | A 204 Gr. B | |
| 1.7335 | 13CrMo4-5 | 13CrMo 4 4 | 15 CD 4-05 | 14 CrMo 4.5 | 620 Gr. 27 | 14 CrMo 4.5 | A 387 Gr. 12 | |
| 1.738 | 10CrMo9-10 | 10CrMo 9 10 | 10 CD 9.10 | | 622 Gr. 31 | | A 387 Gr. 22 | |
| 1.7383 | 11CrMo9-10 | | | 12 CrMO 9.10 | | 12 CrMo 9.10 | | |

Comparison Table Fine Grain Structural Steels, Thermo Mechanically Rolled

| Material | EN 10025-4 | SEW 083 | NFA 36-201 | UNI 7382 | BS 4360 | UNE | ASTM | JIS |
|----------|------------|-------------|------------|---------------|---------|-----|--------------|-----|
| 1.8818 | S275M | StE 275 TM | | Fe E 275 kgTM | | | | |
| 1.8819 | S275ML | TStE 275 TM | | Fe E 275 KTTM | | | | |
| 1.8823 | S355M | StE 355 TM | E 355 R | Fe E 355 kgTM | | | A 572 Gr. C | |
| 1.8834 | S355ML | TStE 355 TM | E 355 FP | Fe E 355 KTTM | 50 EE | | A 633 Gr. C | |
| 1.8825 | S420M | StE 420 TM | E 420 R | | | | A 572 Gr. 60 | |
| 1.8836 | S420ML | TStE 420 TM | E 420 FP | | | | A 633 Gr. E | |
| 1.8827 | S460M | StE 460 TM | E 460 R | Fe E 460 kgTM | | | A 572 Gr. 65 | |
| 1.8838 | S460ML | TStE 460 TM | E 460 FP | Fe E 460 kgTM | 55 EE | | A 572 Gr. 65 | |

Comparison Table Fine Grain Structural Steels, Normalized Rolled

| Material | EN 10025-3 | SEW 083 | NFA 36-201 | UNI 7382 | BS 4360 | UNE | ASTM | JIS |
|--------------|------------|----------|------------|--------------|---------|-----------|--|----------|
| 1.049 | S275N | StE 285 | | Fe E 275 kgN | | | A 572 Gr. 42 | |
| 1.0491 | S275NL | TStE 285 | | Fe E 275 KTN | 43 EE | | A 633 Gr. A | |
| 1.0545 | S355N | StE 355 | E 355 R | Fe E 355 kgN | 50 E | AE 355 kg | A 572 Gr. 50 | |
| 1.0546 | S355NL | TStE 355 | E 355 FP | Fe E 355 KTN | 50 EE | AE 355 KT | "A 633 Gr. C, D | |
| A 537 Cl. 1" | | | | | | | | |
| 1.8902 | S420N | StE 420 | E 420 R | Fe E 420 kgN | | AE 420 kg | A 255 Gr. D | SM 490 A |
| 1.8912 | S420NL | TStE 420 | E 420 FP | | 50 F | | "A 633 Gr. E A 572 Gr. 60 A 738 Gr. C" | |

Comparison Table Engineering Steels

| Europe | | Belgium | Germany | France | Sweden | International | Italy | Japan |
|----------------------|--------------------|-------------|-----------|----------|-----------|---------------|----------|--------|
| EN 10025-2 (2004) | EN 10025 (1990) | NBNA21201 | DIN 17100 | NFA35501 | MNC 850 E | ISO 1052 | UNI 7070 | JISG |
| | | A 330-1,2 | | | | | | |
| | | A-360 1,2,3 | | | | | | |
| | | A-410 1,2,3 | | | | | | |
| E295 | Fe 490-2 | A 490-1,2 | St 50-2 | A 60-2 | 15 50-00 | Fe E 490 | Fe 490 | SS 500 |
| | | | | | 15 50-01 | 5 | | |
| E335 | Fe 590-2 | A 590-1,2 | St 60-2 | A 60-2 | 16 50-00 | Fe E 690 | Fe 590 | |
| | | | | | 16 50-01 | | | |
| E360 | Fe 690-2 | A 690-1,2 | St 70-2 | A 70-2 | 16 55-00 | Fe E 690 | Fe 690 | |
| | | | | | 16 65-01 | | | |

Comparison Table General Purpose Structural Steels

| Material | EN 10025-2 | DIN 17100 | NFA 35-501 | UNI 7070 | BS 4360 | UNE 36.080 | ASTM | JIS G3101 |
|---------------|------------|-----------|------------|----------|---------|-------------|-----------------------------|-----------|
| 1.0035 | S185 | St 33 | A 33 | Fe 320 | | A 310-0 | "A 283 B | |
| A 569 CQ" | SS 330 | | | | | | | |
| 1.0037 | S235JR | St 37-2 | E 24-2 | Fe 360 B | 40 A | | "A 283 C | |
| A 570 Gr. 33" | | | | | | | | |
| 1.0038 | S235JR | RSt 37-2 | E 24-2 NE | | 40 B | AE 235 B-FN | | |
| 1.0116 | S235J2+N | St 37-3 N | E 24-4 | Fe 360 D | 40 D | AE 235 D | | |
| 1.0117 | S235J2 | | | | | | | |
| 1.0044 | S275JR | St 44-2 | E 28-2 | Fe 430 B | 43 B | AE 275 B | "A 283 D | |
| A 36" | SS 400 | | | | | | | |
| 1.0143 | S275J0 | St 44-3 U | E 28-3 | Fe 430 C | 43 C | AE 275 C | A 578 Gr. 70 | |
| 1.0144 | S275J2+N | St 44-3 N | E 28-4 | Fe 430 D | 43 D | AE 275 D | A 633 Gr. A | |
| 1.0145 | S275J2 | | | | | | | |
| 1.0045 | S355JR | | E 36-2 | Fe 510 B | 50 B | AE 355 B | A 572 Gr. 50 A 678 Gr. A | SS 490 |
| 1.0553 | S355J0 | St 52-3 U | E 36-3 | Fe 510 C | 50 C | AE 355 C | A 441 | |
| 1.057 | S355J2+N | St 52-3 N | | Fe 510 D | 50 D | AE 355 D | | |
| 1.0577 | S355J2 | | | | | | | |
| 1.0595 | S355K2+N | | E 36-4 | | 50 DD | | | |
| 1.0596 | S355K2 | | | | | | | |
| 1.005 | E295 | St 50-2 | A 50-2 | Fe 490 | | A 490 | | SS 500 |
| 1.006 | E335 | St 60-2 | A 60-2 | Fe 590 | | A 590 | | |
| 1.007 | E360 | St 70-2 | A 70-2 | Fe 690 | | A 690 | | |

Comparison Table High Carbon Steels

| Material | EN 10083-2 | DIN 17200 | NFA 33-101 | UNI 7846 | BS 970 | UNE 36011 | SAE J 403-AISI | JIS G 4051 |
|----------|------------|-----------|------------|----------|----------|-----------|----------------|------------|
| 1.0501 | C35 | C 35 | AF55-C35 | C 35 | 070 M 36 | C 35 k | 1035 | S 35 C |
| 1.0511 | C40 | C 40 | AF60-C45 | C 40 | 070 M 40 | | 1038 / 1040 | S 40 C |
| 1.0503 | C45 | C 45 | AF65-C45 | C 45 | 070 M 46 | C 45 k | 1042 / 1045 | S 45 C |
| 1.054 | C50 | C 50 | | | 070 M 50 | | 1049 / 1050 | S 50 C |
| 1.0535 | C55 | C 55 | AF70-C55 | C 55 | 070 M 55 | C 55 k | 1055 | S 55 C |
| 1.0601 | C60 | C 60 | | | 070 M 60 | | 1060 | S 58 C |
| 1.0603 | 1 C 67 | C 67 | xC 68 | C 67 | 080A67 | | 1070 | |
| 1.0605 | 1 C 75 | C 75 | xC 75 | C 75 | 080A72 | | 1074 | |

Comparison Table High Strength Steels for Cold Forming, Normalized

| Material | EN 10149-3 | SEW 092 | BS 1149 |
|----------|------------|------------|----------|
| 1.0971 | S260NC | QStE 260 N | |
| | | | HR 40/30 |
| 1.0973 | S315NC | | |
| | | | HR 43/35 |
| 1.0977 | S355NC | | |
| | | | HR 46/40 |
| 1.0981 | S420NC | QStE 420 N | |
| | | | HR 50/45 |

Comparison Table Steel for Offshore Structure - Grade S355/API 2H and 2W - Chemical Compositions

| Grade | "Thickness (mm)" | Delivery condition" | C | P | S | Ni | Mo | Nb | CE (HW) | Pcm | Standard |
|------------------------|---|--------------------------|------------------|-------------------|----------------------|------------------------------|-----------------------|--------------------|---------------------------------------|-----------------------|---|
| S355G2+N | ≤ 25 | N | ≤ 0.20 | ≤ 0.035 | ≤ 0.030 | ≤ 0.50 | ≤ 0.10 | ≤ 0.060 | ≤ 0.43 | - | EN 10225 |
| S355G3+N | ≤ 40 | N | ≤ 0.18 | ≤ 0.030 | ≤ 0.025 | " | " | " | " | - | " |
| S355G5+M | ≤ 25 | TMCP | ≤ 0.14 | ≤ 0.035 | ≤ 0.030 | ≤ 0.30 | ≤ 0.20 | ≤ 0.060 | ≤ 0.43 | - | " |
| S355G6+M | ≤ 40 | TMCP | " | ≤ 0.030 | ≤ 0.025 | " | " | " | " | - | " |
| S355G7+N | ≤ 150 | N | ≤ 0.14 | ≤ 0.030 | ≤ 0.010 | ≤ 0.50 | ≤ 0.08 | ≤ 0.040 | ≤ 0.43 | ≤ 0.24 | " |
| S355G7+M | ≤ 100 | TMCP | " | " | " | " | " | " | " | " | " |
| S355G8+N | ≤ 150 | N | ≤ 0.14 | ≤ 0.030 | ≤ 0.007 *) | ≤ 0.50 | ≤ 0.08 | ≤ 0.040 | ≤ 0.43 | ≤ 0.24 | " |
| S355G8+M | ≤ 100 | TMCP | " | " | " | " | " | " | " | " | " |
| S355G9+N | ≤ 40 < 40 ≤ 150 | N " | ≤ 0.12 " | ≤ 0.030 " | ≤ 0.010 " | ≤ 0.70 ≤ 0.30 ≤ 0.70 | ≤ 0.08 " | ≤ 0.040 " | ≤ 0.43 " | ≤ 0.22 " | " " |
| S355G9+M | ≤ 40 < 40 ≤ 75 < 75 ≤ 100 | TMCP " " | TMCP " " | ≤ 0.030 " " | ≤ 0.010 " " | ≤ 0.70 < 0.30 ≤ 0.70 " | ≤ 0.08 " ≤ 0.20 | ≤ 0.030 " " | ≤ 0.41 " ≤ 0.42 | ≤ 0.21 " ≤ 0.22 | " " " |
| S355G10+N | ≤ 40 < 40 ≤ 150 | N " | ≤ 0.12 " | ≤ 0.015 " | ≤ 0.005 *) " | ≤ 0.70 " | ≤ 0.08 " | ≤ 0.040 " | ≤ 0.43 " | ≤ 0.22 " | " " |
| S355G10+M | ≤ 40 < 40 ≤ 75 < 75 ≤ 100 | TMCP " " | ≤ 0.12 " " | ≤ 0.015 " " | ≤ 0.005 *) " " | ≤ 0.70 < 0.30 ≤ 0.70 " | ≤ 0.08 " ≤ 0.20 | ≤ 0.040 " " | ≤ 0.41 " ≤ 0.42 | ≤ 0.21 " ≤ 0.22 | " " " |
| API211-50(T) | ≤ 50.8 < 50.8 ≤ 101.6 | ≤ 50.8 < 50.8 ≤ 101.6 | ≤ 0.18 " | ≤ 0.030 " | ≤ 0.010 " | " " | " " | 0.005-0.05 " | ≤ 0.43 ≤ 0.45 | " " | API 2H " |
| API2W-50(T) | ≤ 38.1 < 38.1 ≤ 88.9 < 88.9 ≤ 152.6 | TMCP " " | ≤ 0.16 " " | ≤ 0.030 " " | ≤ 0.010 " " | ≤ 0.75 " " | ≤ 0.08 " " | ≤ 0.030 " " | ≤ 0.39 ≤ 0.41 ≤ 0.43 | ≤ 0.23 " ≤ 0.24 | API 2W " " |
| 355EM | ≤ 40 < 40 ≤ 75 < 75 ≤ 150 | N/TMCP " " | ≤ 0.15 " " | ≤ 0.025 " " | ≤ 0.015 " " | ≤ 0.45 " " | ≤ 0.08 " " | ≤ 0.040 " " | ≤ 0.43 ≤ 0.44 ≤ 0.45 | - - - | BS7191 " " |
| 355EMZ | ≤ 40 < 40 ≤ 75 < 75 ≤ 150 | N/TMCP " " | ≤ 0.15 " " | ≤ 0.025 " " | ≤ 0.005 *) " " | ≤ 0.45 " " | ≤ 0.08 " " | ≤ 0.040 " " | ≤ 0.43 ≤ 0.44 ≤ 0.45 | - - - | BS7191 " " |
| E36/EH36 (max 100 mm)" | ≤ 50 < 50 ≤ 100 < 100 ≤ 150 | N/TMCP " " | ≤ 0.18 " " | ≤ 0.025 " " | ≤ 0.025 " " | ≤ 0.40 " " | ≤ 0.08 " " | ≤ 0.02 - 0.05 " | ≤ 0.38 *) ≤ 0.40 **) ≤ 0.41 **) | - - - | Ship NV-rules Mobile Offsh. units |

*) Low sulphur content, in order to fulfil the requirements on tensile test in through thickness direction. Verification, if corresponding option is required (EN 10225, option 13 or BS 7191, option B24).

**) For TMPC only

Grade S355N - Comparison of Tensile Strength

| | BS7191 | EN 10225 Norsok | | | API 2H | Shipbuilding rules LR/GL/NV |
|-------------|---------------------------|-----------------|-----------|---|-----------|-----------------------------|
| 355 N | 355EM / EMZ | S355G2+N | S355G3+N | S355G7+N S355G8+N S355G9+N S355G10+N | API 2H-50 | e. g. E 36 / EH 36 |
| Thick. [mm] | Tensile strength Rm [MPa] | | | | | |
| ≤ 25 | 460 – 620 | 470 – 630 | 470 – 630 | 470 – 630 | 483 – 620 | 490 – 620 |
| > 25 ≤ 40 | " | " | " | " | " | " |
| > 40 ≤ 100 | " | - | " | " | " | " |
| > 100 ≤ 150 | " | - | - | " | " | " |

Grade S355N - Comparison of Yield Strength

| | BS7191 | EN 10225 Norsok | | | API 2H | Shipbuilding rules LR/GL/NV |
|-------------|-------------------------|-----------------|----------|---|-----------|-----------------------------|
| 355 N | 355EM / EMZ | S355G2+N | S355G3+N | S355G7+N S355G8+N S355G9+N S355G10+N | API 2H-50 | e. g. E 36 / EH 36 |
| Thick. [mm] | Yield strength Rm [MPa] | | | | | |
| > 25 ≤ 40 | ≥ 345 | - | " | ≥ 345 | " | " |
| > 40 ≤ 63 | ≥ 340 | - | - | ≥ 335 | " | " |
| > 63 ≤ 80 | ≥ 325 | - | - | ≥ 325 | ≥ 325*) | " |
| > 80 ≤ 100 | ≥ 325 | - | - | " | " | " |
| > 100 ≤ 120 | ≥ 315 | - | - | " | " | " |
| > 120 ≤ 150 | ≥ 305 | - | - | ≥ 320 | " | " |

*) Rp0.2

Grade S355N - Comparison of Toughness

| | BS7191 | EN 10225 Norsok | | | API 2H | Shipbuilding rules LR/GL/NV |
|-----------------|---|-----------------|----------|---|-----------|-----------------------------|
| 355 N | 355EM / EMZ | S355G2+N | S355G3+N | S355G7+N S355G8+N S355G9+N S355G10+N | API 2H-50 | e. g. E 36 / EH 36 |
| | Minimum Impact Energy Av [Joule] - transverse (average/single) - at a test temperature of | | | | | |
| | -40 °C | -40 °C | -40 °C | -40 °C | -40 °C | -40 °C |
| Surface | 50 / 35 | 50 / 35 | 50 / 35 | 50 / 35 | - | - |
| All thickness | - | - | - | - | 41/34 | - |
| < 40 mm | - | - | - | - | - | 24/17 |
| < 50 mm | | | | | | |
| Quarter thick. | - | - | - | - | 41/34 | - |
| >40 | - | - | - | - | - | 27 /19 |
| > 50 < 70 | - | - | - | - | - | 34 / 24 |
| > 70 < 150 | | | | | | |
| Mid-thickness | - | - | - | - | - | - |
| All thicknesses | 50 / 35 | - | - | 50 / 35 | - | - |
| > 40 mm | | | | | | |

Grade 355 TMCP – Comparison of Tensile Strength

| | BS7191 | EN 10225 Norsok | | | API 2W | Shipbuilding rules LR/GL/NV |
|-------------|---------------------------|-----------------|-----------|---|-----------|-----------------------------|
| 355 N | 355EM / EMZ | S355G2+N | S355G3+N | S355G7+N S355G8+N S355G9+N S355G10+N | API 2W-50 | e. g. E 36 / EH 36 |
| Thick. [mm] | Tensile strength Rm [MPa] | | | | | |
| ≤ 25 | 460 - 620 | 470 - 610 | 470 - 610 | 470 - 630 | ≥ 483 | 490 - 620 |
| > 25 ≤ 40 | " | - | " | " | " | " |
| > 40 ≤ 100 | " | - | - | " | " | " |
| > 100 ≤ 150 | " | - | - | - | " | - |

Grade 355 TMCP – Comparison of Yield Strength

| | BS7191 | EN 10225 Norsok | | | API 2W | Shipbuilding rules LR/GL/NV etc. |
|-------------|-------------------------|-----------------|----------|---|--------------|----------------------------------|
| 355 N | 355EM / EMZ | S355G2+N | S355G3+N | S355G7+N S355G8+N S355G9+N S355G10+N | API 2W-50 | e. g. E 36 / EH 36 |
| Thick. [mm] | Yield strength Rm (Mpa) | | | | | |
| ≤ 25 | ≥ 355 | ≥ 355 | ≥ 355 | ≥ 355 | 345 - 551 *) | ≥ 355 |
| > 16 ≤ 20 | " | ≥ 345 | ≥ 345 | " | " | " |
| > 20 ≤ 25 | " | " | " | " | " | " |
| > 25 ≤ 40 | ≥ 345 | - | - | ≥ 345 | 345 - 517 *) | " |
| > 40 ≤ 63 | ≥ 340 | - | - | ≥ 335 | " | " |
| > 63 ≤ 80 | ≥ 325 | - | - | ≥ 325 | " | " |
| > 80 ≤ 100 | ≥ 325 | - | - | " | " | " |
| > 100 ≤ 120 | ≥ 315 | - | - | " | " | " |
| > 120 ≤ 150 | ≥ 305 | - | - | - | " | (DNVGL: ≤ 150 mm) |

Grade 355 TMCP – Comparison of Toughness

| | BS7191 | EN 10225 Norsok | | | API 2W | Shipbuilding rules LR/GL/NV etc |
|-----------------|---|-----------------|----------|---|-----------|---------------------------------|
| 355 N | 355EM / EMZ | S355G2+N | S355G3+N | S355G7+N S355G8+N S355G9+N S355G10+N | API 2W-50 | e. g. E 36 / EH 36 |
| | Minimum Impact Energy Av [Joule] - transverse (average/single) - at a test temperature of | | | | | |
| | -40 °C | -40 °C | -40 °C | -40 °C | -40 °C | -40 °C |
| Surface | | | | | | |
| All thickness | 50/35 | 50/35 | 50/35 | 50/35 | - | - |
| < 40 mm | - | - | - | - | 41/34 | - |
| < 50 mm | - | - | - | - | - | 24/17 |
| Quarter thick. | | | | | | |
| >40 | - | - | - | - | 41/34 | - |
| > 50 < 70 | - | - | - | - | - | 27/19 |
| > 70 < 150 | - | - | - | - | - | 34/24 |
| Mid-thickness | | | | | | |
| All thicknesses | - | - | - | - | - | - |
| > 40 mm | 50/35 | - | - | 50/35 | - | - |

355 N and TMCP – Comparison of Yield to Tensile Strength Ratios

| | BS7191 | EN 10225 Norsok | | | API 2W | Shipbuilding rules LR/GL/NV |
|-------------|-------------------|-----------------|----------|---|-----------|-----------------------------|
| 355 N | 355EM / EMZ | S355G2+N | S355G3+N | S355G7+N S355G8+N S355G9+N S355G10+N | API 2H-50 | e. g. E 36 / EH 36 |
| Thick. (mm) | "Tensile strength | | | | | |
| Rm (Mpa)" | | | | | | |
| ≤ 16 | Info | 0.87 | 0.87 | 0.87 | - | - |
| > 16 | " | 0.85 | 0.85 | 0.85 | - | - |

355 N and TMCP – Comparison of Yield to Tensile Strength Ratios

| 355 TMPC | 355EM/EMZ | S355G5+M | S355G6+M | 355G7+M 355G8+M 355G9+M S355G10+M | API 2W-50 | e.g. E 36 / EH 36 |
|-------------|-------------------|----------|----------|--|-----------|-------------------|
| Thick. (mm) | "Tensile strength | | | | | |
| Rm (Mpa)" | | | | | | |
| ≤ 16 | Info | 0.93 *) | 0.93 *) | 0.93 *) | - | - |
| > 16 | " | 0.90 | 0.90 | 0.90 | - | - |

420 / 450 / 460 TMCP - Comparison of Tensile Strength

| | BS 7191 | EN 10225 | | NORSOK (EN 10225) | | API 2W | Shipbuilding rules (e.g. NV) Mobile Offshore units | | |
|-------------|---------------------------|-----------------|-----------------|-------------------|-----------------|-----------|---|-----------|-----------|
| TMPC | 450EM/EMZ | S420G1/ G2+M | S460G1/ G2+M | S420G1/ G2+M | S460G1/ G2+M | API 2W-60 | E40 | E420 | E460 |
| Thick. (mm) | Tensile strength Rm (Mpa) | | | | | | | | |
| ≤ 16 | 550 - 620 | 500 - 660 | 540 - 700 | 500 - 660 | 550 - 700 | ≥ 518 | 510 - 650 | 530 - 680 | 570 - 620 |
| > 16 ≤ 20 | " | " | 530 - 690 | " | " | " | " | " | " |
| > 20 ≤ 25 | " | " | " | " | " | " | " | " | " |
| > 25 ≤ 40 | " | " | 520 - 680 | " | " | " | " | " | " |
| > 40 ≤ 63 | " | 480 - 640 | 515 - 675 | " | " | " | ≥ 50 mm | " | " |
| > 63 ≤ 75 | " | " | 505 - 665 | " | " | " | - | " | " |
| > 75 ≤ 80 | - | " | " | " | " | " | - | " | " |
| > 80 ≤ 100 | - | " | 500 - 660 | " | " | " | - | " | " |

420 / 450 / 460 TMCP - Comparison of Yield Strength

| | BS 7191 | EN 10225 | | NORSOK (EN 10225) | | API 2W | "Shipbuilding rules (e.g. NV) Mobile Offshore units" | | |
|-------------|---------------------------|-----------------|-----------------|-------------------|-----------------|--------------|---|-------|-------|
| TMPC | 450EM/EMZ | S420G1/ G2+M | S460G1/ G2+M | S420G1/ G2+M | S460G1/ G2+M | API 2W-60 | E40 | E420 | E460 |
| Thick. (mm) | Tensile strength Rm (Mpa) | | | | | | | | |
| ≤ 16 | ≥ 450 | ≥ 420 | ≥ 460 | ≥ 420 | ≥ 460 | 414 - 620 *) | ≥ 390 | ≥ 420 | ≥ 460 |
| > 16 ≤ 20 | ≥ 430 | ≥ 400 | ≥ 440 | " | " | " | " | " | " |
| > 20 ≤ 25 | " | " | " | " | " | " | " | " | " |
| > 25 ≤ 40 | ≥ 415 | " | ≥ 420 | " | " | 414 - 586 *) | " | " | " |
| > 40 ≤ 63 | " | ≥ 390 | ≥ 415 | " | " | " | ≤ 50 mm | " | " |
| > 63 ≤ 75 | " | ≥ 380 | ≥ 405 | " | " | " | " | " | " |
| > 75 ≤ 80 | - | " | " | " | " | " | " | " | " |
| > 80 ≤ 100 | - | " | ≥ 400 | " | " | " | " | " | " |

420 / 450 / 460 TMCP - Comparison of Toughness

| | BS 7191 | EN 10225 | | NORSOK (EN 10225) | | API 2 | "Shipbuilding rules (e.g. NV) Mobile Offshore units" | | |
|--|-----------|-----------------|-----------------|-------------------|-----------------|-----------|---|--------|--------|
| TMPC | 450EM/EMZ | S420G1/ G2+M | S460G1/ G2+M | S420G1/ G2+M | S460G1/ G2+M | API 2W-60 | E40 | E420 | E460 |
| Minimum Impact Energy A (Joule) - transverse (average/single) - at a test temperature of | | | | | | | | | |
| | - 40°C | - 40°C | - 40°C | - 40°C | - 40°C | - 40°C | - 40°C | - 40°C | - 40°C |
| Surface | | | | | | | | | |
| All Thick- nesses | 60/42 | 60/42 | 60/42 | 60/42 | 60/42 | - | - | - | - |
| ≤ 50 mm | - | - | - | - | - | - | 27/19 | 28/20 | 31/22 |
| Quarter thickn. | | | | | | | | | |
| > 50 mm | - | - | - | - | - | - | 27/19 | 28/20 | 31/22 |
| Mid. Thick- ness | | | | | | | | | |
| All Thick- nesses | | | | | | 41/43 | - | - | - |
| > 40 mm | 60/42 | 60/42 | 60/42 | 60/42 | 60/42 | - | - | - | - |

420 / 450 / 460 Q+T - Comparison of Tensile Strength

| | BS 7191 | EN 10225 | | NORSOK (EN 10225) | | API 2Y | Shipbuilding rules (e.g. NV) Mobile Offshore units | | |
|-------------|---------------------------|-----------------|-----------------|-------------------|-----------------|-----------|---|-----------|-----------|
| TMPC | 450EM/EMZ | S420G1/ G2+M | S460G1/ G2+M | S420G1/ G2+M | S460G1/ G2+M | API 2Y-60 | E40 | E420 | E460 |
| Thick. (mm) | Tensile strength Rm (Mpa) | | | | | | | | |
| ≤ 16 | 550 - 620 | 500 - 660 | 540 - 700 | 500 - 660 | 550 - 700 | ≥ 518 | 510 - 650 | 530 - 680 | 570 - 620 |
| > 16 ≤ 20 | " | " | 530 - 690 | " | " | " | " | " | " |
| > 20 ≤ 25 | " | " | " | " | " | " | " | " | " |
| > 25 ≤ 40 | " | " | 520 - 680 | " | " | " | " | " | " |
| > 40 ≤ 63 | " | 480 - 640 | 515 - 675 | " | " | " | " | " | " |
| > 63 ≤ 75 | " | " | 505 - 665 | " | " | " | " | " | " |
| > 75 ≤ 80 | - | " | " | " | " | " | " | " | " |
| > 80 ≤ 100 | - | " | 500 - 660 | " | " | " | " | " | " |

420 / 450 / 460 Q+T - Comparison of Yield Strength

| | BS 7191 | EN 10225 | | NORSOK (EN 10225) | | API 2Y | Shipbuilding rules (e.g. NV) Mobile Offshore units | | |
|-------------|---------------------------|-----------------|-----------------|-------------------|-----------------|--------------|---|-------|-------|
| TMPC | 450EM/EMZ | S420G1/ G2+M | S460G1/ G2+M | S420G1/ G2+M | S460G1/ G2+M | API 2Y-60 | E40 | E420 | E460 |
| Thick. (mm) | Tensile strength Rm (Mpa) | | | | | | | | |
| ≤ 16 | ≥ 450 | ≥ 420 | ≥ 460 | ≥ 420 | ≥ 460 | 414 - 620 *) | ≥ 390 | ≥ 420 | ≥ 460 |
| > 16 ≤ 20 | ≥ 430 | ≥ 400 | ≥ 440 | " | " | " | " | " | " |
| > 20 ≤ 25 | " | " | " | " | " | " | " | " | " |
| > 25 ≤ 40 | ≥ 415 | " | ≥ 420 | " | " | 414 - 586 *) | " | " | " |
| > 40 ≤ 63 | " | ≥ 390 | ≥ 415 | " | " | " | " | " | " |
| > 63 ≤ 75 | " | ≥ 380 | ≥ 405 | " | " | " | " | " | " |
| > 75 ≤ 80 | - | " | " | " | " | " | " | " | " |
| > 80 ≤ 100 | - | " | ≥ 400 | " | " | " | " | " | " |

420 / 450 / 460 TMCP - Comparison of Toughness

| | BS 7191 | EN 10225 | | NORSOK (EN 10225) | | API 2 | "Shipbuilding rules (e.g. NV) Mobile Offshore units" | | |
|--|-----------|-----------------|-----------------|-------------------|-----------------|-----------|---|--------|--------|
| TMPC | 450EM/EMZ | S420G1/ G2+M | S460G1/ G2+M | S420G1/ G2+M | S460G1/ G2+M | API 2W-60 | E40 | E420 | E460 |
| Minimum Impact Energy A (Joule) - transverse (average/single) - at a test temperature of | | | | | | | | | |
| | - 40°C | - 40°C | - 40°C | - 40°C | - 40°C | - 40°C | - 40°C | - 40°C | - 40°C |
| Surface | | | | | | | | | |
| All Thick- nesses | 60/42 | 60/42 | 60/42 | 60/42 | 60/42 | - | - | - | - |
| ≤ 50 mm | - | - | - | - | - | - | 27/19 | 28/20 | 31/22 |
| Quarter thickn. | | | | | | | | | |
| > 50 mm | - | - | - | - | - | - | 27/19 | 28/20 | 31/22 |
| Mid. Thick- ness | | | | | | | | | |
| All Thick- nesses | - | - | - | - | - | 41/43 | - | - | - |
| > 40 mm | 60/42 | 60/42 | 60/42 | 60/42 | 60/42 | - | - | - | - |

Table 1: Material Data Sheets for Structural Steel

| MDS No. | Rev. No. | Standard | Steel grade | Product type | Steel quality level |
|---------|----------|--|------------------------------|--|---------------------|
| Y01 | 5 | EN 10025- (all parts) EN 10210- (all parts) EN 10219- (all parts) | S235JR S235JRH S235JRH | Plates and sections Hot finished tubulars Cold formed tubulars | IV |
| Y02 | 4 | EN 10025- (all parts) EN 10210- (all parts) EN 10219- (all parts) | S275JR S275J0H S275J0H | Plates and sections Hot finished tubulars Cold formed tubulars | IV |
| Y04 | 2 | EN 10025- (all parts) EN 10210- (all parts) EN 10219- EN 10219- | S355J0 S355J0H S355J2H | Plates and sections Hot finished tubulars Cold formed tubulars | IV |
| Y05 | 3 | EN 10025- (all parts) | S355J2 S355K2 | Plates | III |
| | | EN 10025- (all parts) | S355J2 S355K2 | Plates and sections | III |
| Y06 | 3 | EN 10225 | S355G1+N | Hot finished seamless tubulars | III |
| Y07 | 3 | EN 10210- (all parts) | S355NH/S355K2H | Hot finished tubulars | III |
| Y08 | 3 | EN 10219 (all parts) | S355MLH | Cold formed tubulars | III |
| Y15 | 3 | EN 10025 (all parts) | S420ML | Plates and sections | III |
| Y16 | 3 | EN 10219 (all parts) | S420MLH | Cold formed tubulars | III |
| Y20 | 5 | EN 10225 | S355G10+N/G10+M | Plates | I |
| Y21 | 5 | EN 10225 | S355G12+N/G12+M | Rolled sections | I |
| Y22 | 5 | EN 10225 | S355G15+Q/G15+N | Seamless tubulars | I |
| Y25 | 5 | EN 10225 | S355G9+N/G9+M | Plates | II |
| Y26 | 5 | EN 10225 | S355G11+N/G11+M | Rolled sections | II |
| Y27 | 4 | EN 10225 | S355G14+Q/G14+N | Seamless tubulars | II |
| Y28 | 3 | EN 10225 | S355G13+N | Welded tubulars | II |
| Y30 | 5 | EN 10225 | S420G2+Q/G2+M | Plates | I |
| Y31 | 5 | EN 10225 | S420G4+M | Rolled sections | I |
| Y32 | 5 | EN 10225 | S420G6+Q | Seamless tubulars | I |
| Y35 | 4 | EN 10225 | S420G1+Q/G1+M | Plates | II |
| Y36 | 5 | EN 10225 | S420G3+M | Rolled sections | II |
| Y37 | 5 | EN 10225 | S420G6+Q | Seamless tubulars | II |
| Y40 | 5 | EN 10225 | S460G2+Q/G2+M | Plates | I |
| Y41 | 5 | EN 10225 | S460G4+M | Rolled sections | I |
| Y42 | 5 | EN 10225 | S460G6+Q | Seamless tubulars | I |
| Y45 | 5 | EN 10225 | S460G1+Q/G1+M | Plates | II |
| Y46 | 5 | EN 10225 | S460G3+M | Rolled sections | II |
| Y47 | 5 | EN 10225 | S460G6+Q | Seamless tubulars | II |
| Y50 | 5 | EN 10225 | S500G2+Q/G2+M ^a | Plates | I |
| Y51 | 5 | EN 10225 | S500G4+M ^a | Rolled sections | I |
| Y52 | 5 | EN 10225 | S500G6+Q ^a | Seamless tubulars | I |
| Y55 | 5 | EN 10225 | S500G1+Q/G1+M ^a | Plates | II |
| Y56 | 5 | EN 10225 | S500G3+M ^a | Rolled sections | II |
| Y57 | 5 | EN 10225 | S500G6+Q ^a | Seamless tubulars | II |

^a This steel grade designation is not included in EN 10225

NOTE All references in the MDS are to the relevant material standard unless otherwise specified.

Denne standard og etterfølgende standarder er forenklede utdrag av den originale NORSOK STANDARD M-120 Rev., Rev. 5, November 2008

| MATERIAL DATA SHEET | | MDS - Y01 Rev. 5 June 2007 | | |
|---|---|-----------------------------------|--|--|
| TYPE OF MATERIAL: Structural Steel | | | | |
| PRODUCT | STANDARD | GRADE | | |
| Plates and sections | EN 10025 | S235JR | | |
| Hot finished tubulars | EN 10210 | S235JRH | | |
| Cold formed tubulars | EN 10219 | S235JRH | | |
| SCOPE | This MDS specifies the selected options in the referred standard and modified requirements which shall supersede the corresponding requirements in the referred standard. These grades shall not be used for thicknesses above 25 mm. | | | |
| STEEL GRADE | The grades listed represent the minimum requirements for Y01. | | | |
| QUALIFICATION | | | | |
| HEAT TREATMENT/ DELIVERY CONDITION | | | | |
| CHEMICAL COMPOSITION | | | | |
| TENSILE TESTING | | | | |
| IMPACT TESTING | | | | |
| EXTENT OF TESTING | | | | |
| SURFACE CONDITION | The surface of the material shall comply to rust grade A or rust grade B or better according to ISO 8501-1. | | | |
| NON DESTRUCTIVE TESTING (NDT) | | | | |
| SURFACE PROTECTION | | | | |
| MARKING | | | | |
| CERTIFICATE | EN 10 204 Type 2.2 | | | |

Sveisbare konstruksjonsstål

- * Plater og profiler
- * Varmformede rør og hulprofiler
- * Kaldformede rør og hulprofiler

| MATERIAL DATA SHEET | | MDS - Y02 Rev. 4 June 2007 | | |
|---|---|-----------------------------------|--|--|
| TYPE OF MATERIAL: Structural Steel | | | | |
| PRODUCT | STANDARD | GRADE | | |
| Plates and sections | EN 10025 | S275JR | | |
| Hot finished tubulars | EN 10210 | S275J0H | | |
| Cold formed tubulars | EN 10219 | S275J0H | | |
| SCOPE | This MDS specifies the selected options in the referred standard and modified requirements which shall supersede the corresponding requirements in the referred standard. These grades shall not be used for thicknesses above 25 mm. | | | |
| STEEL GRADE | The grades listed represent the minimum requirements for Y02. | | | |
| QUALIFICATION | | | | |
| HEAT TREATMENT/ DELIVERY CONDITION | | | | |
| CHEMICAL COMPOSITION | | | | |
| TENSILE TESTING | | | | |
| IMPACT TESTING | | | | |
| EXTENT OF TESTING | | | | |
| SURFACE CONDITION | The surface of the material shall comply to rust grade A or rust grade B or better according to ISO 8501-1. | | | |
| NON DESTRUCTIVE TESTING (NDT) | | | | |
| SURFACE PROTECTION | | | | |
| MARKING | | | | |
| CERTIFICATE | EN 10 204 Type 2.2 | | | |

Sveisbare konstruksjonsstål

- * Plater og profiler
- * Varmformede rør og hulprofiler
- * Kaldformede rør og hulprofiler

| MATERIAL DATA SHEET | | MDS - Y04 Rev. 2 June 2007 | | |
|---|---|-----------------------------------|--|--|
| TYPE OF MATERIAL: Structural Steel | | | | |
| PRODUCT | STANDARD | GRADE | | |
| Plates and sections | EN 10025 | S355J0 | | |
| Hot finished tubulars | EN 10210 | S355J0H | | |
| Cold formed tubulars | EN 10219 | S355J2H | | |
| SCOPE | This MDS specifies the selected options in the referred standard and modified requirements which shall supersede the corresponding requirements in the referred standard. These grades shall not be used for thicknesses above 25 mm. | | | |
| STEEL GRADE | The grades listed represent the minimum requirements for Y04. | | | |
| QUALIFICATION | | | | |
| HEAT TREATMENT/ DELIVERY CONDITION | | | | |
| CHEMICAL COMPOSITION | | | | |
| TENSILE TESTING | | | | |
| IMPACT TESTING | | | | |
| EXTENT OF TESTING | | | | |
| SURFACE CONDITION | The surface of the material shall comply to rust grade A or rust grade B or better according to ISO 8501-1. | | | |
| NON DESTRUCTIVE TESTING (NDT) | | | | |
| SURFACE PROTECTION | | | | |
| MARKING | | | | |
| CERTIFICATE | EN 10 204 Type 2.2. For EN 10219 S355J2H Type 3.1. | | | |

Sveisbare konstruksjonsstål

- * Plater og profiler
- * Varmformede rør og hulprofiler
- * Kaldformede røre og hulprofiler

| MATERIAL DATA SHEET | | MDS - Y05 Rev. 3 June 2007 | | |
|---|--|-----------------------------------|--|--|
| TYPE OF MATERIAL: Structural Steel | | | | |
| PRODUCT | STANDARD | GRADE | | |
| Plates | EN 10025 | S355J2 | | |
| | | S355K2 | | |
| Sections | EN 10025 | S355J2 | | |
| | | S355K2 | | |
| SCOPE | This MDS specifies the selected options in the referred standard and modified requirements which shall supersede the corresponding requirements in the referred standard. The thickness is limited to 50 mm. | | | |
| QUALIFICATIONS | | | | |
| HEAT TREATMENT/ DELIVERY CONDITION | | | | |
| CHEMICAL COMPOSITION | C max. 0,16%, CEV max 0,43% | | | |
| TENSILE TESTING | | | | |
| IMPACT TESTING | Charpy V-notch energy requirement shall be minimum 40 J (average) | | | |
| EXTENT OF TESTING | | | | |
| SURFACE CONDITION | The surface of the material shall comply to rust grade A or rust grade B or better according to ISO 8501-1. | | | |
| NON DESTRUCTIVE TESTING (NDT) | | | | |
| SURFACE PROTECTION | | | | |
| MARKING | | | | |
| CERTIFICATE | EN 10 204 Type 3.1. | | | |

Sveisbare konstruksjonsstål

- * Plater og profiler

| MATERIAL DATA SHEET MDS - Y06 Rev. 3 June 2007 | | | | |
|---|--|--------------|--|--|
| TYPE OF MATERIAL: Structural Steel | | | | |
| PRODUCT | STANDARD | GRADE | | |
| Hot finished seamless tubulars | EN 10 225 | S355G1+N | | |
| SCOPE | This MDS specifies the selected options in the referred standard and modified requirements which shall supersede the corresponding requirements in the referred standard. The thickness is limited to 40 mm. | | | |
| QUALIFICATIONS | | | | |
| HEAT TREATMENT/ DELIVERY CONDITION | | | | |
| CHEMICAL COMPOSITION | C max. 0,16% Mn max. 0,43% Nb+V max. 0,10. | | | |
| TENSILE TESTING | | | | |
| IMPACT TESTING | | | | |
| EXTENT OF TESTING | | | | |
| SURFACE CONDITION | The surface of the material shall comply to rust grade A or rust grade B or better according to ISO 8501-1. | | | |
| NON DESTRUCTIVE TESTING (NDT) | | | | |
| SURFACE PROTECTION | | | | |
| MARKING | | | | |
| CERTIFICATE | EN 10 204 Type 3.1. | | | |

Sveisbart konstruksjonsstål

* Varmformede sømløse rør

| MATERIAL DATA SHEET MDS - Y07 Rev. 4 Nov. 2008 | | | | |
|---|--|-------------------|--|--|
| TYPE OF MATERIAL: Structural Steel | | | | |
| PRODUCT | STANDARD | GRADE | | |
| Hot finished tubulars seamless or welded | EN 10 210-1 | S355NH S355K2H | | |
| SCOPE | This MDS specifies the selected options in the referred standard and modified requirements which shall supersede the corresponding requirements in the referred standard. The thickness is limited to 40 mm. Welded hollow sections are limited to 20 mm wall thickness. | | | |
| QUALIFICATIONS | | | | |
| HEAT TREATMENT/ DELIVERY CONDITION | | | | |
| CHEMICAL COMPOSITION | Option 1.2 is required. C max. 0,16% and CEV max. 0,43 for all thicknesses | | | |
| TENSILE TESTING | | | | |
| IMPACT TESTING | | | | |
| EXTENT OF TESTING | | | | |
| SURFACE CONDITION | The surface of the material shall comply to rust grade A or rust grade B or better according to ISO 8501-1. | | | |
| NON DESTRUCTIVE TESTING (NDT) | <p>For thicknesses of 12 mm and above the NDT shall be UT and with acceptance criteria U3.</p> <p>The weld of the welded hollow section shall be subject to 10% magnetic testing (MT) of external surface and be free of any linear indication. In case of any findings, 100% of the sections with findings shall be examined. The 10% MT shall be carried out for thicknesses above 12 mm. The 10% MT shall be carried out on every section.</p> <p>If the involved parties require more severe defect tolerances for the structural application of the welded hollow section, more severe requirements to be agreed.</p> | | | |
| SURFACE PROTECTION | | | | |
| MARKING | | | | |
| CERTIFICATE | EN 10 204 Type 3.1. | | | |

Sveisbart konstruksjonsstål

* Varmformede rør og hulprofiler
sømløse eller sveisede

NORSOK Standard M-120 Edition 5, November 2008

Deviation Note vs MATERIAL DATA SHEET MDS - Y07 Rev.4 November 2008. This note covers products manufactured at both UK Mills in Corby and Hartlepool.

Tata Steel does not manufacture or supply material in accordance with MDS Y07.

However, we confirm that the EN10210 S355NH material, which we supply to Norsk Stål, complies with the requirements of MDS-Y07 except for:

i We do not conduct 10% MT of the weld area.

We understand that it was introduced because of concerns about defects in the weld area. We maintain that it is an inappropriate test for this type of defect because it will only detect OD surface breaking features and the test does not give an indication of depth and therefore cannot discriminate between defects and minor surface imperfections (e.g., roll marks) which are allowed by the specification. The weld seam UT to EN10246-8 with enhanced sensitivity that we perform (U3 compared to U5 for the standard product) is the appropriate test to detect weld area defects.

ii We do not guarantee that the surface shall comply to rust grade A or rust grade B or better according to ISO 8501-1.

Note that EN10210 S355NH is classified as fully killed fine grain steel and is delivered in the normalized rolled condition.

| MATERIAL DATA SHEET MDS - Y08 | | Rev. 3 June 2007 | |
|---|--|-------------------------|--|
| TYPE OF MATERIAL: Structural Steel | | | |
| PRODUCT | STANDARD | GRADE | |
| Cold formed tubulars | EN 10 219-1 | S355MLH | |
| SCOPE | This MDS specifies the selected options in the referred standard and modified requirements which shall supersede the corresponding requirements in the referred standard. The thickness is limited to 25 mm. | | |
| QUALIFICATIONS | | | |
| HEAT TREATMENT/ DELIVERY CONDITION | | | |
| CHEMICAL COMPOSITION | Option 1.4, C max 0,16%, CEV max. 0,43%, S max. 0,015, P max. 0,025 | | |
| TENSILE TESTING | | | |
| IMPACT TESTING | | | |
| EXTENT OF TESTING | | | |
| SURFACE CONDITION | The surface of the material shall comply to rust grade A or rust grade B or better according to ISO 8501-1. | | |
| NON DESTRUCTIVE TESTING (NDT) | | | |
| SURFACE PROTECTION | | | |
| MARKING | | | |
| CERTIFICATE | EN 10 204 Type 3.1. | | |

Sveisbart konstruksjonsstål

* Koldformede rør

| MATERIAL DATA SHEET MDS - Y20 | | Rev. 5 June 2007 | |
|--|--|-------------------------|--|
| TYPE OF MATERIAL: Structural Steel with documented through thickness properties | | | |
| PRODUCT | STANDARD | GRADE | |
| Plates | EN 10225 | S355G10+N/G10+M | |
| SCOPE | This MDS specifies the selected options in the referred standard and modified requirements which shall supersede the corresponding requirements in the referred standard. | | |
| QUALIFICATIONS | Base material information, shall be submitted with the bid/ be established prior to delivery. The documentation of base material shall cover both delivered and PWHT condition and shall include strain 25$t\leq 40\text{mm}$ 40$t\leq 63\text{mm}$ 63$t\leq 100\text{mm}$ 100$t\leq 150\text{mm}$ Other thickness ranges related to same chemistry and manufacturing process may apply. In such cases the CTOD testing shall be included for weldability testing for $t > 40\text{ mm}$ and shall meet a requirement of minimum | | |
| HEAT TREATMENT/ DELIVERY CONDITION | Quenched and tempered is also accepted. | | |
| CHEMICAL COMPOSITION | Option 6 | | |
| TENSILE TESTING | | | |
| IMPACT TESTING | | | |
| EXTENT OF TESTING | Option 13, Tensile testing and impact testing shall be carried out to the extent specified in the standard, except that each | | |
| SURFACE CONDITION | | | |
| NON DESTRUCTIVE TESTING (NDT) | | | |
| SURFACE PROTECTION | All surfaces shall receive a preliminary protective primer coat. Blast cleaning shall comply with ISO 8501-1 Sa 2½ and the surface shall remain at Sa 2½ until application of the primer. The primer shall consist of 1 coat zinc ethyl silicate primer with 15 microns. Measured on a plane polished steel or glass test plate the DFT shall be maximum 25 microns. | | |
| CERTIFICATE | EN 10 204 Type 3.1 | | |

Sveisbart konstruksjonsstål

* Plater

Dokumenterte krav til stålet i tykkelsesretning for platetykkelser $\geq 25\text{ mm}$ (Z 35)

| MATERIAL DATA SHEET MDS - Y22 Rev. 5 June 2007 | | | |
|--|--|-----------------|----------------------------|
| TYPE OF MATERIAL: Structural Steel with documented through thickness properties | | | |
| PRODUCT | STANDARD | GRADE | |
| Seamless tubulars (Seamless hollow sections) | EN 10 225 | S355G15+Q/G15+N | |
| SCOPE | This MDS specifies the selected options in the referred standard and modified requirements which shall supersede the corresponding requirements in the referred standard. | | |
| QUALIFICATIONS | <p>Base material information, shall be submitted with the bid / be established prior to delivery.</p> <p>The documentation of base material shall include typical tensile test results and Charpy V results at various thicknesses and for Charpy V also various temperatures.</p> <p>Weldability tests shall be documented according to Annex E, option 18.</p> <p>CTOD testing shall be included for weldability testing for thickness above 40 mm and shall meet a requirement of minimum 0,25 mm in as welded condition unless lower values have been accepted by the purchaser.</p> | | |
| HEAT TREATMENT/ DELIVERY CONDITION | | | |
| CHEMICAL COMPOSITION | Option 6 composition in Table 10 shall be modified as follows: Cmax: 0,16 % | | The chemical (option 7) |
| TENSILE TESTING | | | |
| IMPACT TESTING | | | |
| EXTENT OF TESTING | Option 13 | | |
| SURFACE CONDITION | | | |
| NON DESTRUCTIVE TESTING (NDT) | Option 22 | | |
| SURFACE PROTECTION | All surfaces shall receive a preliminary protective primer coat. Blast cleaning shall comply with ISO 8501-1 Sa 2 1/2 and the surface shall remain at Sa 2 1/2 until application of the primer. The primer shall consist of 1 coat zinc ethyl silicate primer with 15 microns. Measured on a plane polished steel or glass test plate the DFT shall be maximum 25 microns. | | |
| CERTIFICATE | EN 10 204 Type 3.1 | | |

Sveisbart konstruksjonsstål

- * Sømløse rør
- * Sømløse hulprofiler

| MATERIAL DATA SHEET MDS - Y26 Rev. 5 June 2007 | | | |
|---|---|-----------------|--|
| TYPE OF MATERIAL: Structural Steel | | | |
| PRODUCT | STANDARD | GRADE | |
| Rolled Sections | EN 10225 | S355G11+N/G11+M | |
| SCOPE | This MDS specifies the selected options in the referred standard and modified requirements which shall supersede the corresponding requirements in the referred standard. | | |
| QUALIFICATIONS | <p>Base material information, shall be submitted with the bid/ be established prior to delivery.</p> <p>The documentation of base material shall include typical tensile test results and Charpy V results at various</p> <p>CTOD testing shall be included for weldability testing for thickness above 40 mm and shall meet a requirement of minimum 0,25 mm in as welded condition unless lower values have been accepted by the purchaser.</p> | | |
| HEAT TREATMENT/ DELIVERY CONDITION | | | |
| CHEMICAL COMPOSITION | Option 6 and option 9 | | |
| TENSILE TESTING | | | |
| IMPACT TESTING | | | |
| EXTENT OF TESTING | | | |
| SURFACE CONDITION | | | |
| NON DESTRUCTIVE TESTING (NDT) | | | |
| SURFACE PROTECTION | All surfaces shall receive a preliminary protective primer coat. Blast cleaning shall comply with ISO 8501-1 Sa 2½ and the surface shall remain at Sa 2½ until application of the primer. The primer shall consist of 1 coat zinc ethyl silicate primer with 15 microns. Measured on a plane polished steel or glass test plate the DFT shall be maximum 25 microns. | | |
| CERTIFICATE | EN 10 204 Type 3.1 | | |

Sveisbart konstruksjonsstål

- * Valsede profiler

MATERIAL DATA SHEET MDS-Y27 Rev. 4 June 2007

TYPE OF MATERIAL: Structural steel

| PRODUCT | STANDARD | GRADE |
|---|--|------------------|
| Seamless tubulars (Seamless hollow sections) | EN 10225 | S355GI4 +Q/GI4+N |
| SCOPE | This MDS specifies the selected options in the referred standard and modified requirements which shall supersede the corresponding requirements in the referred standard. | |
| QUALIFICATIONS | <p>Base material information, shall be submitted with the bid/be established prior to delivery. The documentation of base material shall include typical tensile test results and Charpy V results at various thicknesses and for Charpy V also various temperatures.</p> <p>Weldability tests shall be documented according to Annex E, option 18. CTOD testing shall be included for weldability testing for thickness above 40 mm and shall meet a requirement of minimum 0,25 mm in as welded condition unless lower values have been accepted by the purchaser.</p> | |
| HEAT TREATMENT/ DELIVERY CONDITION | | |
| CHEMICAL COMPOSITION | <p>Option 6 The chemical composition in Table 10 shall be modified as follows: C max 0,16 % (option 7)</p> | |
| TENSILE TESTING | | |
| IMPACT TESTING | | |
| EXTENT OF TESTING | | |
| SURFACE CONDITION | | |
| NON DESTRUCTIVE TESTING (NDT) | The defect tolerances for ultrasonic testing shall be U2/C. | |
| SURFACE PROTECTION | <p>All surfaces shall receive a preliminary protective primer coat. Blast cleaning shall comply with ISO 8501-1 SA 2,5 and the surface shall remain at SA 2,5 until application of the primer. The primer shall consist of 1 coat zinc ethyl silicate primer with 15 microns. Measured on a plane polished steel or glass test plate the DFT shall be maximum 25 microns.</p> | |
| CERTIFICATE | EN 10 204 Type 3.1 | |

| MATERIAL DATA SHEET MDS - Y28 Rev. 3 June 2007 | | |
|--|---|--------------|
| TYPE OF MATERIAL: Structural Steel | | |
| PRODUCT | STANDARD | GRADE |
| Welded tubulars (welded hollow sections) | EN 10225 | SS355G13+N |
| SCOPE | This MDS is applicable for high frequency welded (electric resistance or induction) hollow sections up to and including 20 mm thickness. This MDS specifies the selected options in the referred standard and modified requirements which shall supersede the corresponding requirements in the referred standard. | |
| QUALIFICATIONS | Establishment of WPS, qualification of welding procedures and qualification of welding operators shall be in accordance with the NORSOK standard M-101, "Structural Steel Fabrication". With regard to Charpy impact testing the following modifications to NORSOK standard M-101 shall apply: * test temperature: -40°C * relevant notch positions, e.g.: fusion line (FL), FL+2 mm, FL+5mm * minimum average energy value: 36 J * minimum individual energy value: 26 J * microstructure examination Qualifications shall be carried out for each nominal thickness. Detailed requirements for the qualification of the high frequency welding process (electric resistance or induction) shall be defined and agreed. Base material information, with typical results from chemical composition and mechanical testing, shall be submitted with the bid / be established prior to delivery. | |
| HEAT TREATMENT/ DELIVERY CONDITION | | |
| CHEMICAL COMPOSITION | Option 6 | |
| TENSIL TESTING | | |
| IMPACT TESTING | | |
| EXTENT TESTING | | |
| SURFACE CONDITION | Option 23 shall apply. The internal weld bead shall be removed. | |
| NON DESTRUCTIVE TESTING (NDT) | The welded hollow section longitudinal welds shall be subject to 100% volumetric NDT and 10% surface NDT in accordance with the following requirements and acceptance criteria: * For thicknesses 10 mm and below, the volumetric NDT as per section 8.5.3.3 shall apply. * For thicknesses 12 mm and above, option 23 shall apply, but to acceptance criteria U2. * The weld og the welded hollow section shall be subject to 10% magnetic testing (MT) of external surface and be free of any linear indication. In case of any finding, 100% of the section with finding shall be examined. The 10% MT shall be carried out for all thicknesses. The 10% MT shall be carried out on every section. More severe defect tolerances for the structural application of the welded hollow section may be agreed case by case. | |
| SURFACE PROTECTION | All surfaces shall receive a preliminary protective primer coat. Blast cleaning shall comply with ISO 8501-1 Sa 2 1/2 and the surface shall remain at Sa 2 1/2 until application of the primer. The primer shall consist of 1 coat zinc ethyl silicate primer with 15 microns. Measured on a plane polished steel or glass test plate the DFT shall be maximum 25 microns. | |
| CERTIFICATE | EN 10 204 Type 3.1 | |

Konstruksjonsstål

* Sveisede rør
(Sveisede hulprofiler)

NORSOK Standard M-120 Edition 5, November 2008

Deviation Note vs. MATERIAL DATA SHEET MDS – Y28 Rev.5 November 2008. This note covers products manufactured at both UK Mills in Corby and Hartlepool. Tata Steel supplies against an internal MDS, which is **MDS-Y28 (Tata Modified). Rev03'

Tata Steel does not manufacture or supply material fully in accordance with MDS Y28.

However, we confirm that the EN10225 S355 G13+ N + Y28 Modified** material, which we supply to Norsk Stål, complies with the requirements of MDS-Y07 except for:

- i Weld line charpy impact testing to test temperature of -20°C notch position: fusion line (FL) and not -40°C
- ii Sizes up to 139.7mm OD x 4mm thick, 90x90x6.3 mm and 100x100x5.0mm and equivalent rectangles are offered EXCEPT Y: T ratio and Clause 9.2 d
- iii Corby
 - For all thicknesses
 - Weld area UT to EN10246-8 acceptance level U3 shall apply;
 - Weld area Eddy current testing to EN10246-3 using the segment coil technique (Reference: 3.7mm drilled hole).
- iv Hartlepool
 - for thicknesses 10 mm and below, the volumetric NDT as per section 8.5.3.3 shall apply;
 - for thicknesses of 12 mm and above, option 23 shall apply, but to acceptance criteria U2;
- v We do not conduct 10% MT of the weld area.

We understand that it was introduced because of concerns about defects in the weld area. We maintain that it is an inappropriate test for this type of defect because it will only detect OD surface breaking features and the test does not give an indication of depth and therefore cannot discriminate between defects and minor surface imperfections (e.g., roll marks) which are allowed by the specification. The weld seam UT to EN10246-8 with enhanced sensitivity that we perform (U3 compared to U5 for the standard product) is the appropriate test to detect weld area defects.

- vi Tata Steel Tubes will be delivered in a condition suitable for onward application of the surface protection which is to be carried

Note that EN10225 S355 G13 + N (Y28 Modified**) is classified as fully killed fine grain steel and is delivered in the normalised rolled condition.

| MATERIAL DATA SHEET MDS - Y30 Rev.5 June 2007 | | |
|--|---|---------------|
| TYPE OF MATERIAL: Structural steel with documented through thickness properties | | |
| PRODUCT | STANDARD | GRADE |
| Plates | EN 10225 | S420G2+Q/G2+M |
| SCOPE | This MDS specifies the selected options in the referred standard and modified requirements which shall supersede the corresponding requirements in the referred standard. | |
| QUALIFICATIONS | <p>Base material information, shall be submitted with the bid / be established prior to delivery</p> <p>The documentation of base material shall cover both delivered and PWHT condition and shall include strain ageing tests (see option 12), typical tensile test results for plates and weldability tests according to Annex E (option 18) within each of the following thickness ranges that are relevant for the order:</p> <p style="padding-left: 40px;">25 < t ≤ 40mm 40 < t ≤ 63mm 63 < t ≤ 100mm 100 < t ≤ 150mm</p> <p>Other thickness ranges related to same chemistry and manufacturing process may apply. In such cases the thickest material in the range shall be tested. The results from PWHT condition shall also meet the specified requirements.</p> <p>CTOD testing shall be included for weldability testing for t > 40 mm and shall meet a requirement of minimum 0,25 mm in a welded condition, and minimum 0,20 mm in PWHT condition unless lower values have been accepted by the purchaser. CTOD testing for thicknesses below 40 mm may be required on the basis of special design criteria.</p> | |
| HEAT TREATMENT/ DELIVERY CONDITION | | |
| CHEMICAL COMPOSITION | Option 6 and option 9 | |
| TENSILE TESTING | <p>Mechanical properties given in Table 5b shall be modified as follows:</p> <p style="padding-left: 40px;">Yield Strength: 420 - 40 Mpa (all thicknesses) Tensile Strength: 500-660 Mpa (all thicknesses)</p> | |
| IMPACT TESTING | | |
| EXTENT OF TESTING | Option 13, Tensile testing and impact testing shall be carried out to the extent specified in the standard, except that each nominal wall thickness shall be tested instead of "the same thickness range". | |
| SURFACE CONDITION | | |
| SURFACE PROTECTION | All surfaces shall receive a preliminary protective primer coat. Blast cleaning shall comply with ISO 8501-1 Sa 2 1/2 and the surface shall remain at Sa 2 1/2 until application of the primer. The primer shall consist of 1 coat zinc ethyl silicate primer with 15 microns. Measured on a plane polished steel or glass test plate the DFT shall be maximum 25 microns. | |
| CERTIFICATE | EN 10 204 Type 3.1 | |

MATERIAL DATA SHEET MDS-Y40 Rev. 5 June 2007

TYPE OF MATERIAL: Structural steel with documented through thickness properties

| PRODUCT | STANDARD | GRADE |
|---------------------------------------|---|---------------|
| Plates | EN 10225 | S460G2+Q/G2+M |
| SCOPE | This MDS specifies the selected options in the referred standard and modified requirements which shall supersede the corresponding requirements in the referred standard. | |
| QUALIFICATIONS | <p>Base material information, shall be submitted with the bid/be established prior to delivery.</p> <p>The documentation of base material shall cover both delivered and PWHT condition and shall include strain ageing tests (see option 12), typical tensile test results for plates and weldability tests according to Annex E (option 18) within each of the following thickness ranges that are relevant for the order: $25 < t \leq 40$ mm $40 < t \leq 63$ mm $63 < t \leq 100$ mm $100 < t \leq 150$ mm</p> <p>Other thickness ranges related to same chemistry and manufacturing process may apply. In such cases the thickest material in the range shall be tested. The results from PWHT condition shall also meet the specified requirements.</p> <p>CTOD testing shall be included for weldability testing for $t > 40$ mm and shall meet a requirement of minimum 0,25 mm in as welded condition, and minimum 0,20 mm in PWHT condition unless lower values have been accepted by the purchaser. CTOD testing for thicknesses below 40 mm may be required on the basis of special design criteria.</p> | |
| HEAT TREATMENT/ DELIVERY CONDITION | | |
| CHEMICAL COMPOSITION | Option 6 and option 9 | |
| TENSILE TESTING | <p>Mechanical properties given in Table 5C shall be modified as follows: Yield strength: 460 – 580 MPa (all thicknesses) Tensile strength: 550 – 700 MPa (all thicknesses)</p> | |
| IMPACT TESTING | | |
| EXTENT OF TESTING | <p>Option 13 Tensile testing and impact testing shall be carried out to the extent specified in the standard, except that each nominal wall thickness shall be tested instead of "the same thickness range".</p> | |
| SURFACE CONDITION | | |
| NON DESTRUCTIVE TESTING (NDT) | | |
| SURFACE PROTECTION | <p>All surfaces shall receive a preliminary protective primer coat. Blast cleaning shall comply with ISO 8501-1 Sa 2½ and the surface shall remain at Sa 2½ until application of the primer. The primer shall consist of 1 coat zinc ethyl silicate primer with 15 microns. Measured on a plane polished steel or glass test plate the DFT shall be maximum 25 microns.</p> | |
| CERTIFICATE | EN 10 204 Type 3.1 | |

| MATERIAL DATA SHEET MDS - Y50 | | Rev. 5 June 2007 |
|---|---|--------------------------|
| TYPE OF MATERIAL: Structural Steel with documented through thickness properties | | |
| PRODUCT | STANDARD | GRADE |
| Plates | EN 10225 | S500G2+Q/G2+M (see note) |
| SCOPE | This MDS specifies the selected options in the referred standard and modified requirements which shall supersede the corresponding requirements in the referred standard. | |
| STEEL GRADE | Grade S460G2+Q/G2+M shall be modified to Grade S500G2+Q/G2+M as specified by this MDS. | |
| QUALIFICATIONS | <p>Base material information, shall be submitted with the bid / be established prior to delivery.</p> <p>The documentation of base material shall cover both delivered and PWHT condition and shall include strain ageing tests (see option 12), typical tensile test result for plates and weldability tests according to Annex E (option 18) within each of the following thickness ranges that are relevant for the order:</p> <p style="padding-left: 40px;">25 < t ≤ 40mm 40 < t ≤ 63mm 63 < t ≤ 100mm 100 < t ≤ 150mm</p> <p>Other thickness ranges related to same chemistry and manufacturing process may apply. In such cases the thickest material in the range shall be tested. The results from PWHT condition shall also meet the specified requirements.</p> <p>CTOD testing shall be included for weldability testing for t > 40 mm and shall meet a requirement of</p> | |
| HEAT TREATMENT/ DELIVERY CONDITION | | |
| CHEMICAL COMPOSITION | Option 6 and option 9, Ni content minium 0,50% Other limits may be accepted after special agreement. | |
| TENSIL TESTING | <p>Mechanical properties given in Table 5c for Grade S460G2+Q/S460G2+M shall be modified as follows:</p> <p style="padding-left: 40px;">Yield strenght (min): 500-600 Mpa (thicknesses ≤ 75mm) Tensile strenght: 600-700 Mpa (thicknesses ≤ 75mm)</p> | |
| IMPACT TESTING | | |
| EXTENT OF TESTING | Option 13 Tensile testing and impact testing shall be carried out to the extent specified in the standard, except | |
| SURFACE CONDITION | | |
| NON DESTRUCTIVE TESTING (NDT) | | |
| SURFACE PROTECTION | All surfaces shall receive a preliminary protecticve primer coat. Blast cleaning shall compy with ISO 8501-1 Sa 2 1/2 and the surface shall remain at Sa 2 1/2 until application of the primer. The primer shall consist of 1 coat zinc ethyl silicate primer with 15 microns. Measured on a plane polished steel or glass test plate the DFT shall be maximum 25 microns. | |
| CERTIFICATE | EN 10 204 Type 3.1 | |

NS - EN 10029 Varmvalsede stålplater med en tykkelse på 3 mm eller mer

Toleranser på dimensjon og form

Tabell 1 - TYKKELSESTOLERANSER (alle mål i mm)

| Nominell tykkelse | Toleranser for nominell tykkelse | | | | | | | |
|-------------------|----------------------------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
| | Klasse A | | Klasse B | | Klasse C | | Klasse D | |
| | Nedre grense | Øvre grense | Nedre grense | Øvre grense | Nedre grense | Øvre grense | Nedre grense | Øvre grense |
| ≥ 3 < 5 | -0,3 | 0,7 | -0,3 | 0,7 | 0,0 | 1,0 | -0,5 | 0,5 |
| ≥ 5 < 8 | -0,4 | 0,8 | -0,3 | 0,9 | 0,0 | 1,2 | -0,6 | 0,6 |
| ≥ 8 < 15 | -0,5 | 0,9 | -0,3 | 1,1 | 0,0 | 1,4 | -0,7 | 0,7 |
| ≥ 15 < 25 | -0,6 | 1,0 | -0,3 | 1,3 | 0,0 | 1,6 | -0,8 | 0,8 |
| ≥ 25 < 40 | -0,7 | 1,3 | -0,3 | 1,7 | 0,0 | 2,0 | -1,0 | 1,0 |
| ≥ 40 < 80 | -0,9 | 1,7 | -0,3 | 2,3 | 0,0 | 2,6 | -1,3 | 1,3 |
| ≥ 80 < 150 | -1,1 | 2,1 | -0,3 | 2,9 | 0,0 | 3,2 | -1,6 | 1,6 |
| ≥ 150 ≤ 250 | -1,2 | 2,4 | -0,3 | 3,3 | 0,0 | 3,6 | -1,8 | 1,8 |
| ≥ 250 ≤ 400 | -1,3 | 3,5 | -0,3 | 4,5 | 0,0 | 4,8 | -2,4 | 2,4 |

Klasse A: nedre grense avhengig av nominell tykkelse.

Klasse B: for fastsatt nedre grense på - 0,3 mm.

Klasse C: nedre grense 0 mm.

Klasse D: for symmetrisk toleranse.

Tabell 2 - BREDDETOLERANSE (alle mål i mm)

| Nominell bredde | Nedre grense | Øvre grense |
|-----------------|--------------|-------------|
| < 40 | 0 | 20 |
| ≥ 40 < 150 | 0 | 25 |
| ≥ 150 ≤ 400 | 0 | 30 |

Tabell 3 - LENGDETOLERANSE (alle mål i mm)

| Nominell lengde | Nedre grense | Øvre grense |
|-----------------|--------------|-------------|
| < 4000 | 0 | 20 |
| ≥ 4000 < 6000 | 0 | 30 |
| ≥ 6000 < 8000 | 0 | 40 |
| ≥ 8000 < 10000 | 0 | 50 |
| ≥ 10000 < 15000 | 0 | 75 |
| ≥ 15000 < 20000 | 0 | 100 |

Tabell 4 - PLANHET, Normal planhetstoleranser, klasse N

| Nominell tykkelse | Ståltype L | | Ståltype H | |
|-------------------|------------|------|------------|------|
| | Målelengde | | | |
| | 1000 | 2000 | 1000 | 2000 |
| ≥ 3 < 5 | 9 | 14 | 12 | 17 |
| ≥ 5 < 8 | 8 | 12 | 11 | 15 |
| ≥ 8 < 15 | 7 | 11 | 10 | 14 |
| ≥ 15 < 25 | 7 | 10 | 10 | 13 |
| ≥ 25 < 40 | 6 | 9 | 9 | 12 |
| ≥ 40 < 250 | 5 | 8 | 8 | 11 |
| ≥ 250 < 400 | 6 | 9 | 9 | 13 |

Ståltype L: Produkter med spesifisert min flytegrense ≤ 460 N/mm², og som ikke er herdede eller seigherdede.

Ståltype H: Produkter med spesifisert min flytegrense > 460 N/mm² og < 700 N/mm² og alle herdede og seigherdede produkter.

Tabell 5 - Spesielle toleranser for planhet (klasse S)

| Nominell tykkelse | Ståltype L | | Ståltype H | |
|-------------------|------------|------|------------|------|
| | Målelengde | | | |
| | 1000 | 2000 | 1000 | 2000 |
| ≥ 3 < 5 | 5 | 10 | 7 | 14 |
| ≥ 5 < 8 | 5 | 10 | 7 | 13 |
| ≥ 8 < 15 | 3 | 6 | 7 | 12 |
| ≥ 15 < 25 | 3 | 6 | 7 | 11 |
| ≥ 25 < 40 | 3 | 6 | 7 | 11 |
| ≥ 40 < 250 | 3 | 6 | 6 | 10 |
| ≥ 250 < 400 | 4 | 7 | 7 | 11 |

NS - EN 10051 Varmvalsede coil og plater

Toleranser på dimensjon og form

tykkelse 2 - 2,5 mm / bredde 600 - 2200 mm

Tabell 1 - ANVENDELSESOMRÅDE

| Produkt | Tykkelse mm | Stål kvaliteter i hht (men ikke begrenset til) |
|--|----------------|---|
| Coil og plater f.o.m. 600 t.o.m. 2200 | ≤ 25 | EN 10025-2 til -6 EN 10028-2 til -6 EN 10083-2 og 3 EN 10084 EN 10085 EN 10111 EN 10120 EN 10149-2 og 3 EN 10207 prEN 10338 EN ISO 4957 |

Tabell 2 - TYKKELSESTOLERANSER for plater og coil egnet for kaldforming (alle mål i mm)

| Nominell tykkelse t | | Toleranser for en nominell bredde | | | |
|------------------------|---------|-----------------------------------|------------------|------------------|--------|
| | | ≤ 1200 | > 1200 ≤ 1500 | > 1500 ≤ 1800 | >1800 |
| ≤ 2,00 | ≤ 2,00 | ± 0,13 | ± 0,14 | ± 0,16 | - |
| > 2,00 | ≤ 2,50 | ± 0,14 | ± 0,16 | ± 0,17 | ± 0,19 |
| > 2,50 | ≤ 3,00 | ± 0,15 | ± 0,17 | ± 0,18 | ± 0,20 |
| > 3,00 | ≤ 4,00 | ± 0,17 | ± 0,18 | ± 0,20 | ± 0,20 |
| > 4,00 | ≤ 5,00 | ± 0,18 | ± 0,20 | ± 0,21 | ± 0,22 |
| > 5,00 | ≤ 6,00 | ± 0,20 | ± 0,21 | ± 0,22 | ± 0,23 |
| > 6,00 | ≤ 8,00 | ± 0,22 | ± 0,23 | ± 0,23 | ± 0,26 |
| > 8,00 | ≤ 11,00 | ± 0,24 | ± 0,25 | ± 0,25 | ± 0,28 |

Tabell 3 - TYKKELSESTOLERANSER for plater og coil med minimum flytegrense $R_e \leq 300$ MPa (kategori A) (alle mål i mm)

| Nominell tykkelse t | | Toleranser for en nominell bredde | | | |
|------------------------|---------|-----------------------------------|------------------|------------------|--------|
| | | ≤ 1200 | > 1200 ≤ 1500 | > 1500 ≤ 1800 | >1800 |
| ≤ 2,00 | ≤ 2,00 | ± 0,17 | ± 0,19 | ± 0,21 | - |
| > 2,00 | ≤ 2,50 | ± 0,18 | ± 0,21 | ± 0,23 | ± 0,25 |
| > 2,50 | ≤ 3,00 | ± 0,20 | ± 0,22 | ± 0,24 | ± 0,26 |
| > 3,00 | ≤ 4,00 | ± 0,22 | ± 0,24 | ± 0,26 | ± 0,27 |
| > 4,00 | ≤ 5,00 | ± 0,24 | ± 0,26 | ± 0,28 | ± 0,29 |
| > 5,00 | ≤ 6,00 | ± 0,26 | ± 0,28 | ± 0,29 | ± 0,31 |
| > 6,00 | ≤ 8,00 | ± 0,29 | ± 0,30 | ± 0,31 | ± 0,35 |
| > 8,00 | ≤ 10,00 | ± 0,32 | ± 0,33 | ± 0,34 | ± 0,40 |
| > 10,00 | ≤ 12,50 | ± 0,35 | ± 0,36 | ± 0,37 | ± 0,43 |
| > 12,50 | ≤ 15,00 | ± 0,37 | ± 0,38 | ± 0,40 | ± 0,46 |
| > 15,00 | ≤ 25,00 | ± 0,40 | ± 0,42 | ± 0,45 | ± 0,50 |

Tabell 4 - TYKKELSESTOLERANSER for plater og coil med minimum flytegrense $300 \text{ MPa} < R_e \leq 360 \text{ MPa}$ (kategori B) (alle mål i mm)

| Nominell tykkelse t | | Toleranser for en nominell bredde | | | |
|------------------------|---------|-----------------------------------|------------------|------------------|--------|
| | | ≤ 1200 | > 1200 ≤ 1500 | > 1500 ≤ 1800 | >1800 |
| ≤ 2,00 | ≤ 2,00 | ± 0,20 | ± 0,22 | ± 0,24 | - |
| > 2,00 | ≤ 2,50 | ± 0,21 | ± 0,24 | ± 0,26 | ± 0,29 |
| > 2,50 | ≤ 3,00 | ± 0,23 | ± 0,25 | ± 0,28 | ± 0,30 |
| > 3,00 | ≤ 4,00 | ± 0,25 | ± 0,28 | ± 0,30 | ± 0,31 |
| > 4,00 | ≤ 5,00 | ± 0,28 | ± 0,30 | ± 0,32 | ± 0,33 |
| > 5,00 | ≤ 6,00 | ± 0,30 | ± 0,32 | ± 0,33 | ± 0,36 |
| > 6,00 | ≤ 8,00 | ± 0,33 | ± 0,35 | ± 0,36 | ± 0,40 |
| > 8,00 | ≤ 10,00 | ± 0,37 | ± 0,38 | ± 0,39 | ± 0,46 |
| > 10,00 | ≤ 12,50 | ± 0,40 | ± 0,41 | ± 0,43 | ± 0,49 |
| > 12,50 | ≤ 15,00 | ± 0,43 | ± 0,44 | ± 0,46 | ± 0,53 |
| > 15,00 | ≤ 25,00 | ± 0,46 | ± 0,48 | ± 0,52 | ± 0,58 |

Tabell 5 - TYKKELSESTOLERANSER for plater og coil med minimum flytegrense 360 MPa < R_e ≤ 420 MPa (kategori C) (alle mål i mm)

| Nominell tykkelse t | | Toleranser for en nominell bredde | | | |
|------------------------|---------|-----------------------------------|------------------|------------------|--------|
| | | ≤ 1200 | > 1200 ≤ 1500 | > 1500 ≤ 1800 | >1800 |
| ≤ 2,00 | ≤ 2,00 | ± 0,22 | ± 0,25 | ± 0,27 | - |
| > 2,00 | ≤ 2,50 | ± 0,23 | ± 0,27 | ± 0,30 | ± 0,33 |
| > 2,50 | ≤ 3,00 | ± 0,26 | ± 0,29 | ± 0,31 | ± 0,34 |
| > 3,00 | ≤ 4,00 | ± 0,29 | ± 0,31 | ± 0,34 | ± 0,35 |
| > 4,00 | ≤ 5,00 | ± 0,31 | ± 0,34 | ± 0,36 | ± 0,38 |
| > 5,00 | ≤ 6,00 | ± 0,34 | ± 0,36 | ± 0,38 | ± 0,40 |
| > 6,00 | ≤ 8,00 | ± 0,38 | ± 0,39 | ± 0,40 | ± 0,46 |
| > 8,00 | ≤ 10,00 | ± 0,42 | ± 0,43 | ± 0,44 | ± 0,52 |
| > 10,00 | ≤ 12,50 | ± 0,46 | ± 0,47 | ± 0,48 | ± 0,56 |
| > 12,50 | ≤ 15,00 | ± 0,48 | ± 0,49 | ± 0,52 | ± 0,60 |
| > 15,00 | ≤ 25,00 | ± 0,52 | ± 0,55 | ± 0,59 | ± 0,65 |

Tabell 6 - TYKKELSESTOLERANSER for plater og coil med minimum flytegrense 420 MPa < R_e ≤ 900 MPa (kategori D) (alle mål i mm)

| Nominell tykkelse t | | Toleranser for en nominell bredde | | | |
|------------------------|---------|-----------------------------------|------------------|------------------|--------|
| | | ≤ 1200 | > 1200 ≤ 1500 | > 1500 ≤ 1800 | >1800 |
| ≤ 2,00 | ≤ 2,00 | ± 0,24 | ± 0,27 | ± 0,29 | - |
| > 2,00 | ≤ 2,50 | ± 0,25 | ± 0,29 | ± 0,32 | ± 0,35 |
| > 2,50 | ≤ 3,00 | ± 0,28 | ± 0,31 | ± 0,34 | ± 0,36 |
| > 3,00 | ≤ 4,00 | ± 0,31 | ± 0,34 | ± 0,36 | ± 0,38 |
| > 4,00 | ≤ 5,00 | ± 0,34 | ± 0,36 | ± 0,39 | ± 0,41 |
| > 5,00 | ≤ 6,00 | ± 0,36 | ± 0,39 | ± 0,41 | ± 0,43 |
| > 6,00 | ≤ 8,00 | ± 0,41 | ± 0,42 | ± 0,43 | ± 0,49 |
| > 8,00 | ≤ 10,00 | ± 0,45 | ± 0,46 | ± 0,48 | ± 0,56 |
| > 10,00 | ≤ 12,50 | ± 0,49 | ± 0,50 | ± 0,52 | ± 0,60 |
| > 12,50 | ≤ 15,00 | ± 0,52 | ± 0,53 | ± 0,56 | ± 0,64 |
| > 15,00 | ≤ 25,00 | ± 0,56 | ± 0,59 | ± 0,63 | ± 0,70 |

Tabell 7 - LENGDETOLERANSER (alle mål i mm)

| Nominell lengde l | | Toleranser | |
|-------------------|--------|--------------|-------------|
| | | Nedre grense | Øvre grense |
| ≥ 2000 | < 2000 | 0 | +10 |
| ≥ 8000 | < 8000 | 0 | 0,005 x l |
| | ≥ 8000 | 0 | + 40 |

Tabell 8 - BREDDETOLERANSER (alle mål i mm)

| Nominell bredde | | Toleranser | | | |
|-----------------|--------|--------------|-------------|--------------------|-------------|
| | | Valsekanter | | Trimmede kanter 1) | |
| | | Nedre grense | Øvre grense | Nedre grense | Øvre grense |
| ≤ 1200 | ≤ 1200 | 0 | +20 | 0 | +3 |
| > 1200 | ≤ 1850 | 0 | +20 | 0 | +5 |
| > 1850 | | 0 | +25 | 0 | +6 |

1) Toleranser for trimmede kanter viser til produkter med nominell tykkelse < 10 mm; for nominell tykkelse > 10 mm må man ved forespørsel og ordre fra verk, bli enig om øvre grenser.

Tabell 9 - PLANHETSTOLERANSER for plater og coil med minimum flytegrense Re ≤ 300 MPa (kategori A) (alle mål i mm)

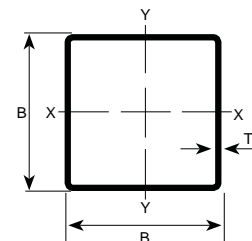
| Nominell tykkelse t | Toleranser på planhet av stål med normal deformering. | | |
|---------------------|---|-----------------------|-------------------------------|
| | Nominell bredde | Toleranser på planhet | Spesial toleranser på planhet |
| | | | |
| ≤ 2,00 | ≤ 1200 | 18 | 9 |
| | > 1200 ≤ 1500 | 20 | 10 |
| | > 1500 | 25 | 13 |
| >2,00 ≤ 25 | ≤ 1200 | 15 | 8 |
| | > 1200 ≤ 1500 | 18 | 9 |
| | > 1500 | 23 | 12 |

Tabell 10 - PLANHETSTOLERANSER for plater og coil med minimum flytegrense 300 MPa < Re ≤ 900 MPa (kategori B, C og D) (alle mål i mm)

| Nominell tykkelse t | Toleranser på planhet av stål med normal deformering. | | | |
|---------------------|---|------------------------------------|----|--|
| | Nominell bredde | Toleranser på planhet for kategori | | |
| | | B | C | D |
| ≤ 25 | ≤ 1200 | 18 | 23 | skal avtales ved inngåelse av forespørsel og ordre |
| | > 1200 ≤ 1500 | 23 | 30 | |
| | > 1500 | 28 | 38 | |

**Dimensjoner,
masse og
statiske verdier**

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Varmformede hulprofiler

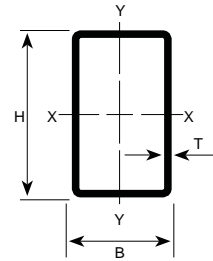
Kvadratiske

| Dimensjon | Tykkelse | Masse (7,85kg/ dm ³) | Tverrsnitts- areal | Annet arealmoment | Tregghetsradius | Elastisk tverrsnitts- modul | Plastisk tverrsnitts- modul | Torsjonskonstanter | | Utvendig overflate pr. m.lengde | Nominell lengde pr. tonn |
|-----------|-----------|--|-----------------------|----------------------|-----------------|------------------------------------|------------------------------------|-------------------------------------|--|---------------------------------------|--------------------------------|
| | | | | | | | | Annet arealmoment for torsjon | Elastisk tverrsnitts- areal for torsjon | | |
| BxB mm | T mm | M kg/m | A cm ² | I cm ⁴ | i cm | W _{el} cm ³ | W _{pl} cm ³ | I _t cm ⁴ | C _t cm ³ | A _s m ² /m | m |
| 40 x 40 | 3.0 | 3.41 | 4.34 | 9.78 | 1.50 | 4.89 | 5.97 | 15.7 | 7.10 | 0.152 | 293 |
| | 3.2 | 3.61 | 4.60 | 10.2 | 1.49 | 5.11 | 6.28 | 16.5 | 7.42 | 0.152 | 278 |
| | 4.0 | 4.39 | 5.59 | 11.8 | 1.45 | 5.91 | 7.44 | 19.5 | 8.54 | 0.150 | 227 |
| | 5.0 | 5.28 | 6.73 | 13.4 | 1.41 | 6.68 | 8.66 | 22.5 | 9.60 | 0.147 | 189 |
| 50 x 50 | 3.0 | 4.35 | 5.54 | 20.2 | 1.91 | 8.08 | 9.70 | 32.1 | 11.8 | 0.192 | 230 |
| | 3.2 | 4.62 | 5.88 | 21.2 | 1.90 | 8.49 | 10.2 | 33.8 | 12.4 | 0.192 | 217 |
| | 4.0 | 5.64 | 7.19 | 25.0 | 1.86 | 9.99 | 12.3 | 40.4 | 14.5 | 0.190 | 177 |
| | 5.0 | 6.85 | 8.73 | 28.9 | 1.82 | 11.6 | 14.5 | 47.6 | 16.7 | 0.187 | 146 |
| | 6.3 | 8.31 | 10.6 | 32.8 | 1.76 | 13.1 | 17.0 | 55.2 | 18.8 | 0.184 | 120 |
| 60 x 60 | 3.0 | 5.29 | 6.74 | 36.2 | 2.32 | 12.1 | 14.3 | 56.9 | 17.7 | 0.232 | 189 |
| | 3.2 | 5.62 | 7.16 | 38.2 | 2.31 | 12.7 | 15.2 | 60.2 | 18.6 | 0.232 | 178 |
| | 4.0 | 6.90 | 8.79 | 45.4 | 2.27 | 15.1 | 18.3 | 72.5 | 22.0 | 0.230 | 145 |
| | 5.0 | 8.42 | 10.7 | 53.3 | 2.23 | 17.8 | 21.9 | 86.4 | 25.7 | 0.227 | 119 |
| | 6.3 | 10.3 | 13.1 | 61.6 | 2.17 | 20.5 | 26.0 | 102 | 29.6 | 0.224 | 97.2 |
| | 8.0 | 12.5 | 16.0 | 69.7 | 2.09 | 23.2 | 30.4 | 118 | 33.4 | 0.219 | 79.9 |
| 70 x 70 | 3.6 | 7.40 | 9.42 | 68.6 | 2.70 | 19.6 | 23.3 | 108 | 28.7 | 0.271 | 135 |
| | 5.0 | 9.99 | 12.7 | 88.5 | 2.64 | 25.3 | 30.8 | 142 | 36.8 | 0.267 | 100 |
| | 6.3 | 12.3 | 15.6 | 104 | 2.58 | 29.7 | 36.9 | 169 | 42.9 | 0.264 | 81.5 |
| | 8.0 | 15.0 | 19.2 | 120 | 2.50 | 34.2 | 43.8 | 200 | 49.2 | 0.259 | 66.5 |
| 80 x 80 | 3.6 | 8.53 | 10.9 | 105 | 3.11 | 26.2 | 31.0 | 164 | 38.5 | 0.311 | 117 |
| | 4.0 | 9.41 | 12.0 | 114 | 3.09 | 28.6 | 34.0 | 180 | 41.9 | 0.310 | 106 |
| | 5.0 | 11.6 | 14.7 | 137 | 3.05 | 34.2 | 41.1 | 217 | 49.8 | 0.307 | 86.5 |
| | 6.3 | 14.2 | 18.1 | 162 | 2.99 | 40.5 | 49.7 | 262 | 58.7 | 0.304 | 70.2 |
| 90 x 90 | 8.0 | 17.5 | 22.4 | 189 | 2.91 | 47.3 | 59.5 | 312 | 68.3 | 0.299 | 57.0 |
| | 3.6 | 9.66 | 12.3 | 152 | 3.52 | 33.8 | 39.7 | 237 | 49.7 | 0.351 | 104 |
| | 4.0 | 10.7 | 13.6 | 166 | 3.50 | 37.0 | 43.6 | 260 | 54.2 | 0.350 | 93.7 |
| | 5.0 | 13.1 | 16.7 | 200 | 3.45 | 44.4 | 53.0 | 316 | 64.8 | 0.347 | 76.1 |
| 100 x 100 | 6.3 | 16.2 | 20.7 | 238 | 3.40 | 53.0 | 64.3 | 382 | 77.0 | 0.344 | 61.6 |
| | 8.0 | 20.1 | 25.6 | 281 | 3.32 | 62.6 | 77.6 | 459 | 90.5 | 0.339 | 49.9 |
| | 4.0 | 11.9 | 15.2 | 232 | 3.91 | 46.4 | 54.4 | 361 | 68.2 | 0.390 | 83.9 |
| | 5.0 | 14.7 | 18.7 | 279 | 3.86 | 55.9 | 66.4 | 439 | 81.8 | 0.387 | 68.0 |
| 120 x 120 | 6.3 | 18.2 | 23.2 | 336 | 3.80 | 67.1 | 80.9 | 534 | 97.8 | 0.384 | 54.9 |
| | 8.0 | 22.6 | 28.8 | 400 | 3.73 | 79.9 | 98.2 | 646 | 116 | 0.379 | 44.3 |
| | 10.0 | 27.4 | 34.9 | 462 | 3.64 | 92.4 | 116 | 761 | 133 | 0.374 | 36.5 |
| | 5.0 | 17.8 | 22.7 | 498 | 4.68 | 83.0 | 97.6 | 777 | 122 | 0.467 | 56.0 |
| 140 x 140 | 6.3 | 22.2 | 28.2 | 603 | 4.62 | 100 | 120 | 950 | 147 | 0.464 | 45.1 |
| | 8.0 | 27.6 | 35.2 | 726 | 4.55 | 121 | 146 | 1160 | 176 | 0.459 | 36.2 |
| | 10.0 | 33.7 | 42.9 | 852 | 4.46 | 142 | 175 | 1382 | 206 | 0.454 | 29.7 |
| | 12.5 | 40.9 | 52.1 | 982 | 4.34 | 164 | 207 | 1623 | 236 | 0.448 | 24.5 |
| 150 x 150 | 5.0 | 21.0 | 26.7 | 807 | 5.50 | 115 | 135 | 1253 | 170 | 0.547 | 47.7 |
| | 6.3 | 26.1 | 33.3 | 984 | 5.44 | 141 | 166 | 1540 | 206 | 0.544 | 38.3 |
| | 8.0 | 32.6 | 41.6 | 1195 | 5.36 | 171 | 204 | 1892 | 249 | 0.539 | 30.7 |
| | 10.0 | 40.0 | 50.9 | 1416 | 5.27 | 202 | 246 | 2272 | 294 | 0.534 | 25.0 |
| | 12.5 | 48.7 | 62.1 | 1653 | 5.16 | 236 | 293 | 2696 | 342 | 0.528 | 20.5 |
| | 16.0 | 65.2 | 83.0 | 2430 | 5.41 | 324 | 411 | 4026 | 467 | 0.559 | 15.3 |
| 160 x 160 | 5.0 | 24.1 | 30.7 | 1225 | 6.31 | 153 | 178 | 1892 | 226 | 0.627 | 41.5 |
| | 6.3 | 30.1 | 38.3 | 1499 | 6.26 | 187 | 220 | 2333 | 275 | 0.624 | 33.3 |
| | 8.0 | 37.6 | 48.0 | 1831 | 6.18 | 229 | 272 | 2880 | 335 | 0.619 | 26.6 |
| | 10.0 | 46.3 | 58.9 | 2186 | 6.09 | 273 | 329 | 3478 | 398 | 0.614 | 21.6 |
| | 12.5 | 56.6 | 72.1 | 2576 | 5.98 | 322 | 395 | 4158 | 467 | 0.608 | 17.7 |
| 180 x 180 | 6.3 | 34.0 | 43.3 | 2168 | 7.07 | 241 | 281 | 3361 | 355 | 0.704 | 29.4 |
| | 8.0 | 42.7 | 54.4 | 2661 | 7.00 | 296 | 349 | 4162 | 434 | 0.699 | 23.4 |
| | 10.0 | 52.5 | 66.9 | 3193 | 6.91 | 355 | 424 | 5048 | 518 | 0.694 | 19.0 |
| | 12.5 | 64.4 | 82.1 | 3790 | 6.80 | 421 | 511 | 6070 | 613 | 0.688 | 15.5 |
| | 16.0 | 80.2 | 102 | 4504 | 6.64 | 500 | 621 | 7343 | 724 | 0.679 | 12.5 |
| 200 x 200 | 5.0 | 30.4 | 38.7 | 2445 | 7.95 | 245 | 283 | 3756 | 362 | 0.787 | 32.9 |
| | 6.3 | 38.0 | 48.4 | 3011 | 7.89 | 301 | 350 | 4653 | 444 | 0.784 | 26.3 |
| | 8.0 | 47.7 | 60.8 | 3709 | 7.81 | 371 | 436 | 5778 | 545 | 0.779 | 21.0 |
| | 10.0 | 58.8 | 74.9 | 4471 | 7.72 | 447 | 531 | 7031 | 655 | 0.774 | 17.0 |
| | 12.5 | 72.3 | 92.1 | 5336 | 7.61 | 534 | 643 | 8491 | 778 | 0.768 | 13.8 |
| | 16.0 | 90.3 | 115 | 6394 | 7.46 | 639 | 785 | 10340 | 927 | 0.759 | 11.1 |
| 250 x 250 | 6.3 | 47.9 | 61.0 | 6014 | 9.93 | 481 | 556 | 9238 | 712 | 0.984 | 20.9 |
| | 8.0 | 60.3 | 76.8 | 7455 | 9.86 | 596 | 694 | 11525 | 880 | 0.979 | 16.6 |
| | 10.0 | 74.5 | 94.9 | 9055 | 9.77 | 724 | 851 | 14106 | 1065 | 0.974 | 13.4 |
| | 12.5 | 91.9 | 117 | 10915 | 9.66 | 873 | 1037 | 17164 | 1279 | 0.968 | 10.9 |
| | 16.0 | 115 | 147 | 13267 | 9.50 | 1061 | 1280 | 21138 | 1546 | 0.959 | 8.67 |
| 300 x 300 | 6.3 | 57.8 | 73.6 | 10547 | 12.0 | 703 | 809 | 16136 | 1043 | 1.18 | 17.3 |
| | 8.0 | 72.8 | 92.8 | 13128 | 11.9 | 875 | 1013 | 20194 | 1294 | 1.18 | 13.7 |
| | 10.0 | 90.2 | 115 | 16026 | 11.8 | 1068 | 1246 | 24807 | 1575 | 1.17 | 11.1 |
| | 12.5 | 112 | 142 | 19442 | 11.7 | 1296 | 1525 | 30333 | 1904 | 1.17 | 8.97 |
| | 16.0 | 141 | 179 | 23850 | 11.5 | 1590 | 1895 | 37622 | 2325 | 1.16 | 7.12 |
| | 350 x 350 | 8.0 | 85.4 | 109 | 21129 | 13.9 | 1207 | 1392 | 32384 | 1789 | 1.38 |
| 10.0 | | 106 | 135 | 25884 | 13.9 | 1479 | 1715 | 39886 | 2185 | 1.37 | 9.44 |
| 12.5 | | 131 | 167 | 31541 | 13.7 | 1802 | 2107 | 48934 | 2654 | 1.37 | 7.62 |
| 16.0 | | 166 | 211 | 38942 | 13.6 | 2225 | 2630 | 60990 | 3264 | 1.36 | 6.04 |
| 400 x 400 | 10.0 | 122 | 155 | 39128 | 15.9 | 1956 | 2260 | 60092 | 2895 | 1.57 | 8.22 |
| | 12.5 | 151 | 192 | 47839 | 15.8 | 2392 | 2782 | 73906 | 3530 | 1.57 | 6.63 |
| | 16.0 | 191 | 243 | 59344 | 15.6 | 2967 | 3484 | 92442 | 4362 | 1.56 | 5.24 |
| | 20.0 | 235 | 300 | 71535 | 15.4 | 3577 | 4247 | 112489 | 5237 | 1.55 | 4.25 |

Dimensjoner,
masse og
statiske verdier

Varmformede hulprofiler

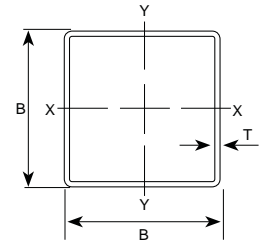
VF HUP
NS-EN 10210-2
Rektangulære



| Dimensjon | Tykkelse | Masse (7,85kg/dm ³) | Tvernsnittsareal | Annet arealmoment | | Treghetsradius | | Elastisk tvernsnittsmodul | | Plastisk tvernsnittsmodul | | Torsjonskonstanter | | Utvendig overflate pr. m.lengde | Nominell lengde pr. tonn |
|-----------|----------|---------------------------------|-------------------|---------------------------------|---------------------------------|--------------------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|--------------------------------|--------------------------------|----------------------------------|--------------------------|
| | | | | I _{xx} cm ⁴ | I _{yy} cm ⁴ | i _{xx} cm | i _{yy} cm | W _{elxx} cm ³ | W _{elyy} cm ³ | W _{plxx} cm ³ | W _{plyy} cm ³ | I _t cm ⁴ | C _t cm ³ | | |
| HxB mm | T mm | M kg/m | A cm ² | I _{xx} cm ⁴ | I _{yy} cm ⁴ | i _{xx} cm | i _{yy} cm | W _{elxx} cm ³ | W _{elyy} cm ³ | W _{plxx} cm ³ | W _{plyy} cm ³ | I _t cm ⁴ | C _t cm ³ | A _s m ² /m | m |
| 50 x 30 | 3.2 | 3.61 | 4.60 | 14.2 | 6.20 | 1.76 | 1.16 | 5.68 | 4.13 | 7.25 | 5.00 | 14.2 | 6.80 | 0.152 | 277 |
| 60 x 40 | 3.0 | 4.35 | 5.54 | 26.5 | 13.9 | 2.18 | 1.58 | 8.82 | 6.95 | 10.9 | 8.19 | 29.2 | 11.2 | 0.192 | 230 |
| | 4.0 | 5.64 | 7.19 | 32.8 | 17.0 | 2.14 | 1.54 | 10.9 | 8.52 | 13.8 | 10.3 | 36.7 | 13.7 | 0.190 | 177 |
| | 5.0 | 6.85 | 8.73 | 38.1 | 19.5 | 2.09 | 1.50 | 12.7 | 9.77 | 16.4 | 12.2 | 43.0 | 15.7 | 0.187 | 146 |
| 80 x 40 | 3.2 | 5.62 | 7.16 | 57.2 | 18.9 | 2.83 | 1.63 | 14.3 | 9.46 | 18.0 | 11.0 | 46.2 | 16.1 | 0.232 | 178 |
| | 4.0 | 6.90 | 8.79 | 68.2 | 22.2 | 2.79 | 1.59 | 17.1 | 11.1 | 21.8 | 13.2 | 55.2 | 18.9 | 0.230 | 145 |
| | 5.0 | 8.42 | 10.7 | 80.3 | 25.7 | 2.74 | 1.55 | 20.1 | 12.9 | 26.1 | 15.7 | 65.1 | 21.9 | 0.227 | 119 |
| | 6.3 | 10.3 | 13.1 | 93.3 | 29.2 | 2.67 | 1.49 | 23.3 | 14.6 | 31.1 | 18.4 | 75.6 | 24.8 | 0.224 | 97.2 |
| | 8.0 | 12.5 | 16.0 | 106 | 32.1 | 2.58 | 1.42 | 26.5 | 16.1 | 36.5 | 21.2 | 85.8 | 27.4 | 0.219 | 79.9 |
| 90 x 50 | 3.6 | 7.40 | 9.42 | 98.3 | 38.7 | 3.23 | 2.03 | 21.8 | 15.5 | 27.2 | 18.0 | 89.4 | 25.9 | 0.271 | 135 |
| | 5.0 | 9.99 | 12.7 | 127 | 49.2 | 3.16 | 1.97 | 28.3 | 19.7 | 36.0 | 23.5 | 116 | 32.9 | 0.267 | 100 |
| | 6.3 | 12.3 | 15.6 | 150 | 57.0 | 3.10 | 1.91 | 33.3 | 22.8 | 43.2 | 28.0 | 138 | 38.1 | 0.264 | 81.5 |
| 100 x 50 | 3.0 | 6.71 | 8.54 | 110 | 36.8 | 3.58 | 2.08 | 21.9 | 14.7 | 27.3 | 16.8 | 88.4 | 25.0 | 0.292 | 149 |
| | 3.2 | 7.13 | 9.08 | 116 | 38.8 | 3.57 | 2.07 | 23.2 | 15.5 | 28.9 | 17.7 | 93.4 | 26.4 | 0.929 | 140 |
| | 4.0 | 8.78 | 11.2 | 140 | 46.2 | 3.53 | 2.03 | 27.9 | 18.5 | 35.2 | 21.5 | 113 | 31.4 | 0.290 | 114 |
| | 5.0 | 10.8 | 13.7 | 167 | 54.3 | 3.48 | 1.99 | 33.3 | 21.7 | 42.6 | 25.8 | 135 | 36.9 | 0.287 | 92.8 |
| | 6.3 | 13.3 | 16.9 | 197 | 63.0 | 3.42 | 1.93 | 39.4 | 25.2 | 51.3 | 30.8 | 160 | 42.9 | 0.284 | 75.4 |
| | 8.0 | 16.3 | 20.8 | 230 | 71.7 | 3.33 | 1.86 | 46.0 | 28.7 | 61.4 | 36.3 | 186 | 48.9 | 0.279 | 61.4 |
| 100 x 60 | 3.6 | 8.53 | 10.9 | 145 | 64.8 | 3.65 | 2.44 | 28.9 | 21.6 | 35.6 | 24.9 | 142 | 35.6 | 0.311 | 117 |
| | 5.0 | 11.6 | 14.7 | 189 | 83.6 | 3.58 | 2.38 | 37.8 | 27.9 | 47.4 | 32.9 | 188 | 45.9 | 0.307 | 86.5 |
| | 6.3 | 14.2 | 18.1 | 225 | 98.1 | 3.52 | 2.33 | 45.0 | 32.7 | 57.3 | 39.5 | 224 | 53.8 | 0.304 | 70.2 |
| | 8.0 | 17.5 | 22.4 | 264 | 113 | 3.44 | 2.25 | 52.8 | 37.8 | 68.7 | 47.1 | 265 | 62.2 | 0.299 | 57.0 |
| 120 x 60 | 3.6 | 9.66 | 12.3 | 227 | 76.3 | 4.30 | 2.49 | 37.9 | 25.4 | 47.2 | 28.9 | 183 | 43.3 | 0.351 | 103 |
| | 5.0 | 13.1 | 16.7 | 299 | 98.8 | 4.23 | 2.43 | 49.9 | 32.9 | 63.1 | 38.4 | 242 | 56.0 | 0.347 | 76.1 |
| | 6.3 | 16.2 | 20.7 | 358 | 116 | 4.16 | 2.37 | 59.7 | 38.8 | 76.7 | 46.3 | 290 | 65.9 | 0.344 | 61.6 |
| | 8.0 | 20.1 | 25.6 | 425 | 135 | 4.08 | 2.30 | 70.8 | 45.0 | 92.7 | 55.4 | 344 | 76.6 | 0.339 | 49.9 |
| 120 x 80 | 5.0 | 14.7 | 18.7 | 365 | 193 | 4.42 | 3.21 | 60.9 | 48.2 | 74.6 | 56.1 | 401 | 77.9 | 0.387 | 68.0 |
| | 6.3 | 18.2 | 23.2 | 440 | 230 | 4.36 | 3.15 | 73.3 | 57.6 | 91.0 | 68.2 | 487 | 92.9 | 0.384 | 54.9 |
| | 8.0 | 22.6 | 28.8 | 525 | 273 | 4.27 | 3.08 | 87.5 | 68.1 | 111 | 82.6 | 587 | 110 | 0.379 | 44.3 |
| | 10.0 | 27.4 | 34.9 | 609 | 313 | 4.18 | 2.99 | 101.6 | 78.1 | 131 | 97.3 | 688 | 126 | 0.374 | 36.5 |
| 150 x 100 | 5.0 | 18.6 | 23.7 | 739 | 392 | 5.58 | 4.07 | 98.5 | 78.5 | 119 | 90.1 | 807 | 127 | 0.487 | 53.7 |
| | 6.3 | 23.1 | 29.5 | 898 | 474 | 5.52 | 4.01 | 120 | 94.8 | 147 | 110 | 986 | 153 | 0.484 | 43.2 |
| | 8.0 | 28.9 | 36.8 | 1087 | 569 | 5.44 | 3.94 | 145 | 114 | 180 | 135 | 1203 | 183 | 0.479 | 34.7 |
| | 10.0 | 35.3 | 44.9 | 1282 | 665 | 5.34 | 3.85 | 171 | 133 | 216 | 161 | 1432 | 214 | 0.474 | 28.4 |
| | 12.5 | 42.8 | 54.6 | 1488 | 763 | 5.22 | 3.74 | 198 | 153 | 256 | 190 | 1679 | 246 | 0.468 | 23.3 |
| 160 x 80 | 4.0 | 14.4 | 18.4 | 612 | 207 | 5.77 | 3.35 | 76.5 | 51.7 | 94.7 | 58.3 | 493 | 88.1 | 0.470 | 69.3 |
| | 5.0 | 17.8 | 22.7 | 744 | 249 | 5.72 | 3.31 | 93.0 | 62.3 | 116 | 71.1 | 600 | 106 | 0.467 | 56.0 |
| | 6.3 | 22.2 | 28.2 | 903 | 299 | 5.66 | 3.26 | 113 | 74.8 | 142 | 86.8 | 730 | 127 | 0.464 | 45.1 |
| | 8.0 | 27.6 | 35.2 | 1091 | 356 | 5.57 | 3.18 | 136 | 89.0 | 175 | 106 | 883 | 151 | 0.459 | 36.2 |
| | 10.0 | 33.7 | 42.9 | 1284 | 411 | 5.47 | 3.10 | 161 | 103 | 209 | 125 | 1041 | 175 | 0.454 | 29.7 |
| 200 x 100 | 5.0 | 22.6 | 28.7 | 1495 | 505 | 7.21 | 4.19 | 149 | 101 | 185 | 114 | 1204 | 172 | 0.587 | 44.3 |
| | 6.3 | 28.1 | 35.8 | 1829 | 613 | 7.15 | 4.14 | 183 | 123 | 228 | 140 | 1475 | 208 | 0.584 | 35.6 |
| | 8.0 | 35.1 | 44.8 | 2234 | 739 | 7.06 | 4.06 | 223 | 148 | 282 | 172 | 1804 | 251 | 0.579 | 28.5 |
| | 10.0 | 43.1 | 54.9 | 2664 | 869 | 6.96 | 3.98 | 266 | 174 | 341 | 206 | 2156 | 295 | 0.574 | 23.2 |
| | 12.5 | 52.7 | 67.1 | 3136 | 1004 | 6.84 | 3.87 | 314 | 201 | 408 | 245 | 2541 | 341 | 0.568 | 19.0 |
| 200 x 120 | 5.0 | 24.1 | 30.7 | 1685 | 762 | 7.40 | 4.98 | 168 | 127 | 205 | 144 | 1648 | 210 | 0.627 | 41.5 |
| | 6.3 | 30.1 | 38.3 | 2065 | 929 | 7.34 | 4.92 | 207 | 155 | 253 | 177 | 2028 | 255 | 0.624 | 33.3 |
| | 8.0 | 37.6 | 48.0 | 2529 | 1128 | 7.26 | 4.85 | 253 | 188 | 313 | 218 | 2495 | 310 | 0.619 | 26.6 |
| | 10.0 | 46.3 | 58.9 | 3026 | 1337 | 7.17 | 4.76 | 303 | 223 | 379 | 263 | 3001 | 367 | 0.614 | 21.6 |
| 200 x 150 | 8.0 | 41.4 | 52.8 | 2971 | 1894 | 7.50 | 5.99 | 297 | 253 | 359 | 294 | 3643 | 398 | 0.679 | 24.1 |
| | 10.0 | 51.0 | 64.9 | 3568 | 2264 | 7.41 | 5.91 | 357 | 302 | 436 | 356 | 4409 | 475 | 0.674 | 19.6 |
| 250 x 100 | 10.0 | 51.0 | 64.9 | 4733 | 1072 | 8.54 | 4.06 | 379 | 214 | 491 | 251 | 2908 | 376 | 0.674 | 19.6 |
| | 12.5 | 62.5 | 79.6 | 5622 | 1245 | 8.41 | 3.96 | 450 | 249 | 592 | 299 | 3436 | 438 | 0.668 | 16.0 |
| 250 x 150 | 5.0 | 30.4 | 38.7 | 3360 | 1527 | 9.31 | 6.28 | 269 | 204 | 324 | 228 | 3278 | 337 | 0.787 | 32.9 |
| | 6.3 | 38.0 | 48.4 | 4143 | 1874 | 9.25 | 6.22 | 331 | 250 | 402 | 283 | 4054 | 413 | 0.784 | 26.3 |
| | 8.0 | 47.7 | 60.8 | 5111 | 2298 | 9.17 | 6.15 | 409 | 306 | 501 | 350 | 5021 | 506 | 0.779 | 21.0 |
| | 10.0 | 58.8 | 74.9 | 6174 | 2755 | 9.08 | 6.06 | 494 | 367 | 611 | 426 | 6090 | 605 | 0.774 | 17.0 |
| | 12.5 | 72.3 | 92.1 | 7387 | 3265 | 8.96 | 5.96 | 591 | 435 | 740 | 514 | 7326 | 717 | 0.768 | 13.8 |
| | 16.0 | 90.3 | 115 | 8879 | 3873 | 8.79 | 5.80 | 710 | 516 | 906 | 625 | 8868 | 849 | 0.759 | 11.1 |
| 300 x 100 | 8.0 | 47.7 | 60.8 | 6305 | 1078 | 10.2 | 4.21 | 420 | 216 | 546 | 245 | 3069 | 387 | 0.779 | 21.0 |
| | 10.0 | 58.8 | 74.9 | 7613 | 1275 | 10.1 | 4.13 | 508 | 255 | 666 | 296 | 3676 | 458 | 0.774 | 17.0 |
| 300 x 200 | 6.3 | 47.9 | 61.0 | 7829 | 4193 | 11.3 | 8.29 | 522 | 419 | 624 | 472 | 8476 | 681 | 0.984 | 20.9 |
| | 8.0 | 60.3 | 76.8 | 9717 | 5184 | 11.3 | 8.22 | 648 | 518 | 779 | 589 | 10562 | 840 | 0.979 | 16.6 |
| | 10.0 | 74.5 | 94.9 | 11819 | 6278 | 11.2 | 8.13 | 788 | 628 | 956 | 721 | 12908 | 1015 | 0.974 | 13.4 |
| | 12.5 | 91.9 | 117 | 14273 | 7537 | 11.0 | 8.02 | 952 | 754 | 1165 | 877 | 15677 | 1217 | 0.968 | 10.9 |
| | 16.0 | 115 | 147 | 17390 | 9109 | 10.9 | 7.87 | 1159 | 911 | 1441 | 1080 | 19252 | 1468 | 0.959 | 8.67 |
| 400 x 200 | 8.0 | 72.8 | 92.8 | 19562 | 6660 | 14.5 | 8.47 | 978 | 666 | 1203 | 743 | 15735 | 1135 | 1.18 | 13.7 |
| | 10.0 | 90.2 | 115 | 23914 | 8084 | 14.4 | 8.39 | 1196 | 808 | 1480 | 911 | 19259 | 1376 | 1.17 | 11.1 |
| | 12.5 | 112 | 142 | 29063 | 9738 | 14.3 | 8.28 | 1453 | 974 | 1813 | 1111 | 23438 | 1656 | 1.17 | 8.97 |
| | 16.0 | 141 | 179 | 35738 | 11824 | 14.1 | 8.13 | 1787 | 1182 | 2256 | 1374 | 28871 | 2010 | 1.16 | 7.12 |
| 450 x 250 | 8.0 | 85.4 | 109 | 30082 | 12142 | 16.6 | 10.6 | 1337 | 971 | 1622 | 1081 | 27083 | 1629 | 1.38 | 11.7 |
| | 10.0 | 106 | 135 | 36895 | 14819 | 16.5 | 10.5 | 1640 | 1185 | 2000 | 1331 | 33284 | 1986 | 1.37 | 9.44 |
| | 12.5 | 131 | 167 | 45026 | 17973 | 16.4 | 10.4 | 2001 | 1438 | 2458 | 1631 | 40719 | 2406 | 1.37 | 7.62 |
| | 16.0 | 166 | 211 | 55705 | 22041 | 16.2 | 10.2 | 2476 | 1763 | 3070 | 2029 | 50545 | 2947 | 1.36 | 6.04 |
| 500 x 300 | 8.0 | 97.9 | 125 | 43728 | 19951 | 18.7 | 12.6 | 1749 | 1330 | 2100 | 1480 | 42563 | 2203 | 1.58 | 10.2 |
| | 10.0 | 122 | 155 | 53762 | 24439 | 18.6 | 12.6 | 2150 | 1629 | 2595 | 1826 | 52450 | 2696 | 1.57 | 8.22 |
| | 12.5 | 151 | 192 | 65813 | 29780 | 18.5 | 12.5 | 2633 | 1985 | 3196 | 2244 | 64389 | 3281 | 1.57 | 6.63 |
| | 16.0 | 191 | 243 | 81783 | 36768 | 18.3 | 12.3 | 3271 | 2451 | 4005 | 2804 | 80329 | 4044 | 1.56 | 5.24 |
| | 20.0 | 235 | 300 | 98777 | 44078 | 18.2 | 12.1 | 3951 | 2939 | 4885 | 3408 | 97447 | 4842 | 1.55 | 4.25 |

Dimensjoner,
masse og
statiske verdier

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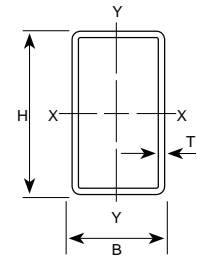
Kaldformede hulprofiler

Kvadratiske

| Dimensjon | Tykkelse | Masse (7,85kg/dm ³) | Tvernsnitts-areal | Annet arealmoment | Tregghetsradius | Elastisk tvernsnitts-modul | Plastisk tvernsnitts-modul | Torsjonskonstanter | | Utvendig overflate pr. m.lengde | Nominell lengde pr. tonn |
|-----------|----------|------------------------------------|----------------------|----------------------|-----------------|------------------------------------|------------------------------------|-----------------------------------|--|-------------------------------------|--------------------------|
| | | | | | | | | Annet arealmoment for torsjon | Elastisk tvernsnitts-areal for torsjon | | |
| BxB mm | T mm | M kg/m | A cm ² | I cm ⁴ | i cm | W _{el} cm ³ | W _{pl} cm ³ | I _t cm ⁴ | C _t cm ³ | A _s m ² /m | m |
| 25 x 25 | 2.0 | 1.36 | 1.74 | 1.48 | 0.924 | 1.19 | 1.47 | 2.53 | 1.80 | 0.093 | 733 |
| | 2.5 | 1.64 | 2.09 | 1.69 | 0.899 | 1.35 | 1.71 | 2.97 | 2.07 | 0.091 | 610 |
| | 3.0 | 1.89 | 2.41 | 1.84 | 0.874 | 1.47 | 1.91 | 3.33 | 2.27 | 0.090 | 529 |
| 30 x 30 | 2.0 | 1.68 | 2.14 | 2.72 | 1.13 | 1.81 | 2.21 | 4.54 | 2.75 | 0.113 | 596 |
| | 2.5 | 2.03 | 2.59 | 3.16 | 1.10 | 2.61 | 2.61 | 5.40 | 3.20 | 0.111 | 492 |
| | 3.0 | 2.36 | 3.01 | 3.50 | 1.08 | 2.34 | 2.96 | 6.15 | 3.58 | 0.110 | 423 |
| 40 x 40 | 2.0 | 2.31 | 2.94 | 6.94 | 1.54 | 3.47 | 4.13 | 11.3 | 5.23 | 0.153 | 434 |
| | 2.5 | 2.82 | 3.59 | 8.22 | 1.51 | 4.11 | 4.97 | 13.6 | 6.21 | 0.151 | 355 |
| | 3.0 | 3.30 | 4.21 | 9.32 | 1.49 | 4.66 | 5.72 | 15.8 | 7.07 | 0.150 | 303 |
| | 4.0 | 4.20 | 5.35 | 11.1 | 1.44 | 5.54 | 7.01 | 19.4 | 8.48 | 0.146 | 238 |
| 50 x 50 | 2.0 | 2.93 | 3.74 | 14.1 | 1.95 | 5.66 | 6.66 | 22.6 | 8.51 | 0.193 | 341 |
| | 2.5 | 3.60 | 4.59 | 16.9 | 1.92 | 6.78 | 8.07 | 27.5 | 10.2 | 0.191 | 278 |
| | 3.0 | 4.25 | 5.41 | 19.5 | 1.90 | 7.79 | 9.39 | 32.1 | 11.8 | 0.190 | 236 |
| | 4.0 | 5.45 | 6.95 | 23.7 | 1.85 | 9.49 | 11.70 | 40.4 | 14.4 | 0.186 | 183 |
| | 5.0 | 6.56 | 8.36 | 27.0 | 1.80 | 10.8 | 13.7 | 47.5 | 16.6 | 0.183 | 152 |
| 60 x 60 | 3.0 | 5.19 | 6.61 | 35.1 | 2.31 | 11.7 | 14.0 | 57.1 | 17.7 | 0.230 | 193 |
| | 4.0 | 6.71 | 8.55 | 43.6 | 2.26 | 14.5 | 17.6 | 72.6 | 22.0 | 0.226 | 149 |
| | 5.0 | 8.13 | 10.4 | 50.5 | 2.21 | 16.8 | 20.9 | 86.4 | 25.6 | 0.223 | 123 |
| 70 x 70 | 2.5 | 5.17 | 6.59 | 49.4 | 2.74 | 14.1 | 16.5 | 78.5 | 21.2 | 0.271 | 193 |
| | 3.0 | 6.13 | 7.81 | 57.5 | 2.71 | 16.4 | 19.4 | 92.4 | 24.7 | 0.270 | 163 |
| | 3.5 | 7.06 | 8.99 | 65.1 | 2.69 | 18.6 | 22.2 | 106 | 28.0 | 0.268 | 142 |
| | 4.0 | 7.97 | 10.1 | 72.1 | 2.67 | 20.6 | 24.8 | 119 | 31.1 | 0.266 | 126 |
| | 5.0 | 9.70 | 12.4 | 84.6 | 2.62 | 24.2 | 29.6 | 142 | 36.7 | 0.263 | 103 |
| 80 x 80 | 3.0 | 7.07 | 9.0 | 87.8 | 3.12 | 22.0 | 25.8 | 140 | 33.0 | 0.310 | 141 |
| | 3.5 | 8.16 | 10.4 | 99.8 | 3.10 | 25.0 | 29.5 | 161 | 37.6 | 0.308 | 123 |
| | 4.0 | 9.22 | 11.7 | 111 | 3.07 | 27.8 | 33.1 | 180 | 41.8 | 0.306 | 108 |
| | 5.0 | 11.3 | 14.4 | 131 | 3.03 | 32.9 | 39.7 | 218 | 49.7 | 0.303 | 88.7 |
| | 6.0 | 13.2 | 16.8 | 149 | 2.98 | 37.3 | 45.8 | 252 | 56.6 | 0.299 | 75.7 |
| | 90 x 90 | 3.0 | 8.01 | 10.2 | 127 | 3.53 | 28.3 | 33.0 | 201 | 42.5 | 0.350 |
| 3.5 | | 9.26 | 11.8 | 145 | 3.51 | 32.2 | 37.9 | 232 | 48.5 | 0.348 | 108 |
| 4.0 | | 10.5 | 13.3 | 162 | 3.48 | 36.0 | 42.6 | 261 | 54.2 | 0.346 | 95.4 |
| 5.0 | | 12.8 | 16.4 | 193 | 3.43 | 42.9 | 51.4 | 316 | 64.7 | 0.343 | 77.9 |
| 6.0 | | 15.1 | 19.2 | 220 | 3.39 | 49.0 | 59.5 | 368 | 74.2 | 0.339 | 66.2 |
| 100 x 100 | 3.0 | 8.96 | 11.4 | 177 | 3.94 | 35.4 | 41.2 | 279 | 53.2 | 0.390 | 112 |
| | 4.0 | 11.7 | 14.9 | 226 | 3.89 | 45.3 | 53.3 | 362 | 68.1 | 0.386 | 85.2 |
| | 5.0 | 14.4 | 18.4 | 271 | 3.84 | 54.2 | 64.6 | 441 | 81.7 | 0.383 | 69.4 |
| | 6.0 | 17.0 | 21.6 | 311 | 3.79 | 62.3 | 75.1 | 514 | 94.1 | 0.379 | 58.9 |
| | 8.0 | 21.4 | 27.2 | 366 | 3.67 | 73.2 | 91.1 | 645 | 114.0 | 0.366 | 46.8 |
| 120 x 120 | 4.0 | 14.2 | 18.1 | 402 | 4.71 | 67.0 | 78.3 | 637 | 101 | 0.466 | 70.2 |
| | 5.0 | 17.5 | 22.4 | 485 | 4.66 | 80.9 | 95.4 | 778 | 122 | 0.463 | 57.0 |
| | 6.0 | 20.7 | 26.4 | 562 | 4.61 | 93.7 | 112 | 913 | 141 | 0.459 | 48.2 |
| | 8.0 | 26.4 | 33.6 | 677 | 4.49 | 113 | 138 | 1163 | 175 | 0.446 | 37.9 |
| | 10.0 | 31.8 | 40.6 | 777 | 4.38 | 129 | 162 | 1376 | 203 | 0.437 | 31.4 |
| 140 x 140 | 4.0 | 16.8 | 21.3 | 652 | 5.52 | 93.1 | 108 | 1023 | 140 | 0.546 | 59.7 |
| | 5.0 | 20.7 | 26.4 | 791 | 5.48 | 113 | 132 | 1256 | 170 | 0.543 | 48.3 |
| | 6.0 | 24.5 | 31.2 | 920 | 5.43 | 131 | 155 | 1479 | 198 | 0.539 | 40.8 |
| | 8.0 | 31.4 | 40.0 | 1127 | 5.30 | 161 | 194 | 1901 | 248 | 0.526 | 31.8 |
| | 10.0 | 38.1 | 48.6 | 1312 | 5.20 | 187 | 230 | 2274 | 291 | 0.517 | 26.2 |
| 150 x 150 | 4.0 | 18.0 | 22.9 | 808 | 5.93 | 108 | 125 | 1265 | 162 | 0.586 | 55.5 |
| | 5.0 | 22.3 | 28.4 | 982 | 5.89 | 131 | 153 | 1554 | 197 | 0.583 | 44.9 |
| | 6.0 | 26.4 | 33.6 | 1146 | 5.84 | 153 | 180 | 1833 | 230 | 0.579 | 37.9 |
| | 8.0 | 33.9 | 43.2 | 1412 | 5.71 | 188 | 226 | 2364 | 289 | 0.566 | 29.5 |
| | 10.0 | 41.3 | 52.6 | 1653 | 5.61 | 220 | 269 | 2839 | 341 | 0.557 | 24.2 |
| 160 x 160 | 4.0 | 19.3 | 24.5 | 987 | 6.34 | 123 | 143 | 1541 | 185 | 0.626 | 51.9 |
| | 5.0 | 23.8 | 30.4 | 1202 | 6.29 | 150 | 175 | 1896 | 226 | 0.623 | 42.0 |
| | 6.0 | 28.3 | 36.0 | 1405 | 6.25 | 176 | 206 | 2239 | 264 | 0.619 | 35.4 |
| | 8.0 | 36.5 | 46.4 | 1741 | 6.12 | 218 | 260 | 2897 | 334 | 0.606 | 27.4 |
| | 10.0 | 44.4 | 56.6 | 2048 | 6.02 | 256 | 311 | 3490 | 395 | 0.597 | 22.5 |
| 180 x 180 | 5.0 | 27.0 | 34.4 | 1737 | 7.11 | 193 | 224 | 2724 | 290 | 0.703 | 37.1 |
| | 6.0 | 32.1 | 40.8 | 2037 | 7.06 | 226 | 264 | 3223 | 340 | 0.699 | 31.2 |
| | 8.0 | 41.5 | 52.8 | 2546 | 6.94 | 283 | 336 | 4189 | 432 | 0.686 | 24.1 |
| | 10.0 | 50.7 | 64.6 | 3017 | 6.84 | 335 | 404 | 5074 | 515 | 0.677 | 19.7 |
| | 12.0 | 58.5 | 74.5 | 3322 | 6.68 | 369 | 454 | 5865 | 584 | 0.658 | 17.1 |
| | 12.5 | 60.5 | 77.0 | 3406 | 6.65 | 378 | 467 | 6050 | 600 | 0.656 | 16.5 |
| 200 x 200 | 5.0 | 30.1 | 38.4 | 2410 | 7.93 | 241 | 279 | 3763 | 362 | 0.783 | 33.2 |
| | 6.0 | 35.8 | 45.6 | 2833 | 7.88 | 283 | 330 | 4459 | 426 | 0.779 | 27.9 |
| | 8.0 | 46.5 | 59.2 | 3566 | 7.76 | 357 | 421 | 5815 | 544 | 0.766 | 21.5 |
| | 10.0 | 57.0 | 72.6 | 4251 | 7.65 | 425 | 508 | 7072 | 651 | 0.757 | 17.6 |
| | 12.0 | 66.0 | 84.1 | 4730 | 7.50 | 473 | 576 | 8230 | 743 | 0.738 | 15.2 |
| | 12.5 | 68.3 | 87.0 | 4859 | 7.47 | 486 | 594 | 8502 | 765 | 0.736 | 14.6 |
| 250 x 250 | 6.0 | 45.2 | 57.6 | 5672 | 9.92 | 454 | 524 | 8843 | 681 | 0.979 | 22.1 |
| | 8.0 | 59.1 | 75.2 | 7229 | 9.80 | 578 | 676 | 11598 | 878 | 0.966 | 16.9 |
| | 10.0 | 72.7 | 92.6 | 8707 | 9.70 | 697 | 822 | 14197 | 1062 | 0.957 | 13.8 |
| | 12.0 | 84.8 | 108 | 9859 | 9.55 | 789 | 944 | 16691 | 1226 | 0.938 | 11.8 |
| | 12.5 | 88.0 | 112 | 10161 | 9.52 | 813 | 975 | 17283 | 1266 | 0.936 | 11.4 |
| 300 x 300 | 8.0 | 71.6 | 91.2 | 12801 | 11.8 | 853 | 991 | 20312 | 1293 | 1.17 | 14.0 |
| | 10.0 | 88.4 | 113 | 15519 | 11.7 | 1035 | 1211 | 24966 | 1572 | 1.16 | 11.3 |
| | 12.0 | 104 | 132 | 17767 | 11.6 | 1184 | 1402 | 29514 | 1829 | 1.138 | 9.65 |
| | 12.5 | 108 | 137 | 18348 | 11.6 | 1223 | 1451 | 30601 | 1892 | 1.14 | 9.3 |

Dimensjoner,
masse og
statistiske verdier

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NS-EN 10 219-2



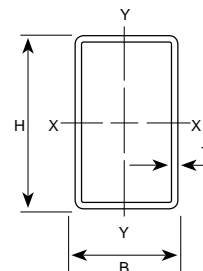
Kaldformedede hulprofiler

Rektangulære

| Dimensjon | Tykkelse | Masse (7,85kg/dm ³) | Tvernsnittsareal | Annet arealmoment | | Tregghetsradius | | Elastisk tvernsnittsmodul | | Plastisk tvernsnittsmodul | | Torsjonskonstanter | | Utvendig overflate pr. m.lengde | Nominell lengde pr. tonn |
|-----------|----------|---------------------------------|------------------|---------------------------------|---------------------------------|--------------------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------|
| | | | | I _{xx} cm ⁴ | I _{yy} cm ⁴ | I _{xx} cm | I _{yy} cm | W _{elxx} cm ³ | W _{elyy} cm ³ | W _{plxx} cm ³ | W _{plyy} cm ³ | I _t cm ⁴ | C _t cm ³ | | |
| 50 x 25 | 2.0 | 2.15 | 2.74 | 8.38 | 2.81 | 1.75 | 1.01 | 3.35 | 2.25 | 4.26 | 2.62 | 7.06 | 3.92 | 0.143 | 465 |
| | 2.5 | 2.62 | 3.34 | 9.89 | 3.28 | 1.72 | 0.99 | 3.95 | 2.62 | 5.11 | 3.12 | 8.43 | 4.60 | 0.141 | 382 |
| | 3.0 | 3.07 | 3.91 | 11.2 | 3.67 | 1.69 | 0.97 | 4.47 | 2.93 | 5.86 | 3.56 | 9.64 | 5.18 | 0.140 | 326 |
| 50 x 30 | 2.0 | 2.31 | 2.94 | 9.54 | 4.29 | 1.80 | 1.21 | 3.81 | 2.86 | 4.74 | 3.33 | 9.77 | 4.84 | 0.153 | 434 |
| | 2.5 | 2.82 | 3.59 | 11.3 | 5.05 | 1.77 | 1.19 | 4.52 | 3.37 | 5.70 | 3.98 | 11.7 | 5.72 | 0.151 | 355 |
| | 3.0 | 3.30 | 4.21 | 12.8 | 5.70 | 1.75 | 1.16 | 5.13 | 3.80 | 6.57 | 4.58 | 13.5 | 6.49 | 0.150 | 303 |
| | 4.0 | 4.20 | 5.35 | 15.3 | 6.69 | 1.69 | 1.12 | 6.10 | 4.46 | 8.05 | 5.58 | 16.5 | 7.71 | 0.146 | 238 |
| 60 x 30 | 3.0 | 3.77 | 4.81 | 20.5 | 6.80 | 2.06 | 1.19 | 6.83 | 4.53 | 8.82 | 5.39 | 17.5 | 7.95 | 0.170 | 265 |
| | 4.0 | 4.83 | 6.15 | 24.7 | 8.06 | 2.00 | 1.14 | 8.23 | 5.37 | 10.92 | 6.62 | 21.5 | 9.52 | 0.166 | 207 |
| 60 x 40 | 2.5 | 3.60 | 4.59 | 22.1 | 11.7 | 2.19 | 1.60 | 7.36 | 5.87 | 9.06 | 6.84 | 25.1 | 9.72 | 0.191 | 278 |
| | 3.0 | 4.25 | 5.41 | 25.4 | 13.4 | 2.17 | 1.58 | 8.46 | 6.72 | 10.5 | 7.94 | 29.3 | 11.2 | 0.190 | 236 |
| | 4.0 | 5.45 | 6.95 | 31.0 | 16.3 | 2.11 | 1.53 | 10.3 | 8.14 | 13.2 | 9.89 | 36.7 | 13.7 | 0.186 | 183 |
| 70 x 40 | 3.0 | 4.72 | 6.01 | 37.3 | 15.5 | 2.49 | 1.61 | 10.7 | 7.75 | 13.4 | 9.05 | 36.5 | 13.2 | 0.210 | 212 |
| | 4.0 | 6.08 | 7.75 | 46.0 | 18.9 | 2.44 | 1.56 | 13.1 | 9.44 | 16.8 | 11.3 | 45.8 | 16.2 | 0.206 | 164 |
| 70 x 50 | 3.0 | 5.19 | 6.61 | 44.1 | 26.1 | 2.58 | 1.99 | 12.6 | 10.4 | 15.4 | 12.2 | 53.6 | 17.1 | 0.230 | 193 |
| | 4.0 | 6.71 | 8.55 | 54.7 | 32.2 | 2.53 | 1.94 | 15.6 | 12.9 | 19.5 | 15.4 | 68.1 | 21.2 | 0.226 | 149 |
| 80 x 40 | 3.0 | 5.19 | 6.61 | 52.3 | 17.6 | 2.81 | 1.63 | 13.1 | 8.78 | 16.5 | 10.2 | 43.9 | 15.3 | 0.230 | 193 |
| | 4.0 | 6.71 | 8.55 | 64.8 | 21.5 | 2.75 | 1.59 | 16.2 | 10.7 | 20.9 | 12.8 | 55.2 | 18.8 | 0.226 | 149 |
| | 5.0 | 8.13 | 10.4 | 75.1 | 24.6 | 2.69 | 1.54 | 18.8 | 12.3 | 24.7 | 15.0 | 65.0 | 21.7 | 0.223 | 123 |
| 80 x 50 | 3.0 | 5.66 | 7.21 | 61.1 | 29.4 | 2.91 | 2.02 | 15.3 | 11.8 | 18.8 | 13.6 | 65.0 | 19.7 | 0.250 | 177 |
| | 4.0 | 7.34 | 9.35 | 76.4 | 36.5 | 2.86 | 1.98 | 19.1 | 14.6 | 24.0 | 17.2 | 82.7 | 24.6 | 0.246 | 136 |
| | 5.0 | 8.91 | 11.4 | 89.2 | 42.3 | 2.80 | 1.93 | 22.3 | 16.9 | 28.5 | 20.5 | 98.4 | 28.7 | 0.243 | 112 |
| 80 x 60 | 3.0 | 6.13 | 7.81 | 70.0 | 44.9 | 3.00 | 2.40 | 17.5 | 15.0 | 21.2 | 17.4 | 88.3 | 24.1 | 0.270 | 163 |
| | 4.0 | 7.97 | 10.1 | 87.9 | 56.1 | 2.94 | 2.35 | 22.0 | 18.7 | 27.0 | 22.1 | 113 | 30.3 | 0.266 | 126 |
| | 5.0 | 9.70 | 12.4 | 103 | 65.7 | 2.89 | 2.31 | 25.8 | 21.9 | 32.2 | 26.4 | 136 | 35.7 | 0.263 | 103 |
| 90 x 50 | 3.0 | 6.13 | 7.81 | 81.9 | 32.7 | 3.24 | 2.05 | 18.2 | 13.1 | 22.6 | 15.0 | 76.7 | 22.4 | 0.270 | 163 |
| | 3.5 | 7.06 | 8.99 | 92.7 | 36.9 | 3.21 | 2.03 | 20.6 | 14.8 | 25.8 | 17.1 | 87.5 | 25.3 | 0.268 | 142 |
| | 4.0 | 7.97 | 10.1 | 103 | 40.7 | 3.18 | 2.00 | 22.8 | 16.3 | 28.8 | 19.1 | 97.7 | 28.0 | 0.266 | 126 |
| | 5.0 | 9.70 | 12.4 | 121 | 47.4 | 3.12 | 1.96 | 26.8 | 18.9 | 34.4 | 22.7 | 116 | 32.7 | 0.263 | 103 |
| 100 x 40 | 3.0 | 6.13 | 7.81 | 92.3 | 21.7 | 3.44 | 1.67 | 18.5 | 10.8 | 23.7 | 12.4 | 59.0 | 19.4 | 0.270 | 163 |
| | 4.0 | 7.97 | 10.1 | 116 | 26.7 | 3.38 | 1.62 | 23.1 | 13.3 | 30.3 | 15.7 | 74.5 | 24.0 | 0.266 | 126 |
| | 5.0 | 9.70 | 12.4 | 136 | 30.8 | 3.31 | 1.58 | 27.1 | 15.4 | 36.1 | 18.5 | 87.9 | 27.9 | 0.263 | 103 |
| 100 x 50 | 3.0 | 6.60 | 8.41 | 106 | 36.1 | 3.56 | 2.07 | 21.3 | 14.4 | 26.7 | 16.4 | 88.6 | 25.0 | 0.290 | 152 |
| | 4.0 | 8.59 | 10.9 | 134 | 44.9 | 3.50 | 2.03 | 26.8 | 18.0 | 34.1 | 20.9 | 113 | 31.3 | 0.286 | 116 |
| | 5.0 | 10.5 | 13.4 | 158 | 52.5 | 3.44 | 1.98 | 31.6 | 21.0 | 40.8 | 25.0 | 135 | 36.8 | 0.283 | 95.4 |
| | 6.0 | 12.3 | 15.6 | 179 | 58.7 | 3.38 | 1.94 | 35.8 | 23.5 | 46.9 | 28.5 | 154 | 41.4 | 0.279 | 81.5 |
| 100 x 60 | 3.0 | 7.07 | 9.01 | 121 | 54.6 | 3.66 | 2.46 | 24.1 | 18.2 | 29.6 | 20.8 | 122 | 30.6 | 0.310 | 141 |
| | 3.5 | 8.16 | 10.4 | 137 | 61.9 | 3.63 | 2.44 | 27.4 | 20.6 | 33.8 | 23.8 | 139 | 34.8 | 0.306 | 123 |
| | 4.0 | 9.22 | 11.7 | 153 | 68.7 | 3.60 | 2.42 | 30.5 | 22.9 | 37.9 | 26.6 | 156 | 38.7 | 0.306 | 108 |
| | 5.0 | 11.3 | 14.4 | 181 | 80.8 | 3.55 | 2.37 | 36.2 | 26.9 | 45.6 | 31.9 | 188 | 45.8 | 0.303 | 88.7 |
| | 6.0 | 13.2 | 16.8 | 205 | 91.2 | 3.49 | 2.33 | 41.1 | 30.4 | 52.5 | 36.6 | 216 | 51.9 | 0.299 | 75.7 |
| 100 x 80 | 3.0 | 8.01 | 10.2 | 149 | 106 | 3.82 | 3.22 | 29.8 | 26.4 | 35.4 | 30.4 | 196 | 41.9 | 0.350 | 125 |
| | 4.0 | 10.5 | 13.3 | 189 | 134 | 3.77 | 3.17 | 37.9 | 33.5 | 45.6 | 39.2 | 254 | 53.4 | 0.346 | 95.4 |
| | 5.0 | 12.8 | 16.4 | 226 | 160 | 3.72 | 3.12 | 45.2 | 39.9 | 55.1 | 47.2 | 308 | 63.7 | 0.343 | 77.9 |
| 120 x 40 | 3.0 | 7.07 | 9.01 | 148 | 25.8 | 4.05 | 1.69 | 24.7 | 12.9 | 32.2 | 14.6 | 74.6 | 23.5 | 0.310 | 141 |
| | 4.0 | 9.22 | 11.7 | 187 | 31.9 | 3.99 | 1.65 | 31.1 | 15.9 | 41.2 | 18.5 | 94.2 | 29.2 | 0.306 | 108 |
| | 5.0 | 11.3 | 14.4 | 221 | 36.9 | 3.92 | 1.60 | 36.8 | 18.5 | 49.4 | 22.0 | 111 | 34.1 | 0.303 | 88.7 |
| 120 x 60 | 3.0 | 8.01 | 10.2 | 189 | 64.4 | 4.30 | 2.51 | 31.5 | 21.5 | 39.2 | 24.2 | 156 | 37.1 | 0.350 | 125 |
| | 3.5 | 9.26 | 11.8 | 216 | 73.1 | 4.28 | 2.49 | 35.9 | 24.4 | 44.9 | 27.7 | 179 | 42.2 | 0.348 | 108 |
| | 4.0 | 10.5 | 13.3 | 241 | 81.2 | 4.25 | 2.47 | 40.1 | 27.1 | 50.5 | 31.1 | 201 | 47.0 | 0.346 | 95.4 |
| | 5.0 | 12.8 | 16.4 | 287 | 96.0 | 4.19 | 2.42 | 47.8 | 32.0 | 60.9 | 37.4 | 242 | 55.8 | 0.343 | 77.9 |
| | 6.0 | 15.1 | 19.2 | 328 | 109 | 4.13 | 2.38 | 54.7 | 36.3 | 70.6 | 43.1 | 280 | 63.6 | 0.339 | 66.2 |
| 120 x 80 | 3.0 | 8.96 | 11.4 | 230 | 123 | 4.49 | 3.29 | 38.4 | 30.9 | 46.2 | 35.0 | 255 | 50.8 | 0.390 | 112 |
| | 4.0 | 11.7 | 14.9 | 295 | 157 | 4.44 | 3.24 | 49.1 | 39.3 | 59.8 | 45.2 | 331 | 64.9 | 0.386 | 85.2 |
| | 5.0 | 14.4 | 18.4 | 353 | 188 | 4.39 | 3.20 | 58.9 | 46.9 | 72.4 | 54.7 | 402 | 77.8 | 0.383 | 69.4 |
| | 6.0 | 17.0 | 21.6 | 406 | 215 | 4.33 | 3.15 | 67.7 | 53.8 | 84.3 | 63.5 | 469 | 89.4 | 0.379 | 58.9 |
| | 8.0 | 21.4 | 27.2 | 476 | 252 | 4.18 | 3.04 | 79.3 | 62.9 | 102 | 76.9 | 584 | 108 | 0.366 | 46.8 |
| 140 x 80 | 3.0 | 9.90 | 12.6 | 334 | 141 | 5.15 | 3.35 | 47.8 | 35.3 | 58.2 | 39.6 | 317 | 59.7 | 0.430 | 101 |
| | 4.0 | 13.0 | 16.5 | 430 | 180 | 5.10 | 3.30 | 61.4 | 45.1 | 75.5 | 51.3 | 412 | 76.5 | 0.426 | 77.0 |
| | 5.0 | 16.0 | 20.4 | 517 | 216 | 5.04 | 3.26 | 73.9 | 54.0 | 91.8 | 62.2 | 501 | 91.8 | 0.423 | 62.6 |
| | 6.0 | 18.9 | 24.0 | 597 | 248 | 4.98 | 3.21 | 85.3 | 62.0 | 107 | 72.4 | 584 | 106 | 0.419 | 53.0 |
| | 8.0 | 23.9 | 30.4 | 708 | 293 | 4.82 | 3.10 | 101 | 73.3 | 131 | 88.4 | 731 | 129 | 0.406 | 41.8 |
| | 10.0 | 28.7 | 36.6 | 804 | 330 | 4.69 | 3.01 | 115 | 82.6 | 152 | 103 | 851 | 147 | 0.397 | 34.8 |
| 150 x 100 | 4.0 | 14.9 | 18.9 | 595 | 319 | 5.60 | 4.10 | 79.3 | 63.7 | 95.7 | 72.5 | 662 | 105 | 0.486 | 67.2 |
| | 5.0 | 18.3 | 23.4 | 719 | 384 | 5.55 | 4.05 | 95.9 | 76.8 | 117 | 88.3 | 809 | 127 | 0.483 | 54.5 |
| | 6.0 | 21.7 | 27.6 | 835 | 444 | 5.50 | 4.01 | 111 | 88.8 | 137 | 103 | 948 | 147 | 0.479 | 46.1 |
| | 8.0 | 27.7 | 35.2 | 1008 | 536 | 5.35 | 3.90 | 134 | 107 | 169 | 128 | 1206 | 182 | 0.466 | 36.1 |
| | 10.0 | 33.4 | 42.6 | 1162 | 614 | 5.22 | 3.80 | 155 | 123 | 199 | 150 | 1426 | 211 | 0.457 | 29.9 |
| 160 x 80 | 5.0 | 17.5 | 22.4 | 722 | 244 | 5.68 | 3.30 | 90.2 | 61.0 | 113 | 69.7 | 601 | 106 | 0.463 | 57.0 |
| | 6.0 | 20.7 | 26.4 | 836 | 281 | 5.62 | 3.26 | 105 | 70.2 | 132 | 81.3 | 702 | 122 | 0.459 | 48.2 |
| | 8.0 | 26.4 | 33.6 | 1001 | 335 | 5.46 | 3.16 | 125 | 83.7 | 163 | 100 | 882 | 150 | 0.446 | 37.9 |
| 180 x 80 | 4.0 | 15.5 | 19.7 | 802 | 227 | 6.37 | 3.39 | 89.1 | 56.7 | 112 | 63.5 | 578 | 100 | 0.506 | 64.5 |
| | 5.0 | 19.1 | 24.4 | 971 | 272 | 6.31 | 3.34 | 108 | 68.1 | 137 | 77.2 | 704 | 120 | 0.503 | 52.3 |
| | 6.0 | 22.6 | 28.8 | | | | | | | | | | | | |

Dimensjoner,
masse og
statiske verdier

KF HUP
NS-EN 10 219-2
Rektangulære



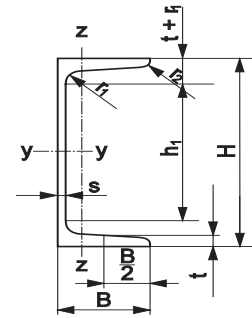
Kaldformedede hulprofiler





| Dimensjon | Tykkelse | Masse (7,85kg/dm ³) | Tverrsnittsareal | Annet arealmoment | | Tregghetsradius | | Elastisk tverrsnittsmodul | | Plastisk tverrsnittsmodul | | Torsjonskonstanter | | Utvendig overflate pr. m.lengde | Nominell lengde pr. tonn |
|-----------|----------|------------------------------------|----------------------|------------------------------------|------------------------------------|-----------------------|-----------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-----------------------------------|-----------------------------------|-------------------------------------|--------------------------|
| | | | | I _{xx} cm ⁴ | I _{xy} cm ⁴ | i _{xx} cm | i _{yy} cm | W _{elxx} cm ³ | W _{elyy} cm ³ | W _{plxx} cm ³ | W _{plyy} cm ³ | I _t cm ⁴ | C _t cm ³ | | |
| HxB mm | T mm | M kg/m | A cm ² | I _{xx} cm ⁴ | I _{xy} cm ⁴ | i _{xx} cm | i _{yy} cm | W _{elxx} cm ³ | W _{elyy} cm ³ | W _{plxx} cm ³ | W _{plyy} cm ³ | I _t cm ⁴ | C _t cm ³ | A _s m ² /m | m |
| 180 x 100 | 4.0 | 16.8 | 21.3 | 926 | 374 | 6.59 | 4.18 | 103 | 74.8 | 126 | 84.0 | 845 | 127 | 0.546 | 59.7 |
| | 5.0 | 20.7 | 26.4 | 1124 | 452 | 6.53 | 4.14 | 125 | 90.4 | 154 | 103 | 1045 | 154 | 0.543 | 48.3 |
| | 6.0 | 24.5 | 31.2 | 1310 | 524 | 6.48 | 4.10 | 146 | 105 | 181 | 120 | 1227 | 179 | 0.539 | 40.8 |
| | 8.0 | 31.4 | 40.0 | 1598 | 637 | 6.32 | 3.99 | 178 | 127 | 226 | 150 | 1565 | 222 | 0.526 | 31.8 |
| | 10.0 | 38.1 | 48.6 | 1859 | 736 | 6.19 | 3.89 | 207 | 147 | 268 | 177 | 1859 | 260 | 0.517 | 26.2 |
| 200 x 100 | 4.0 | 18.0 | 22.9 | 1200 | 411 | 7.23 | 4.23 | 120 | 82.2 | 148 | 91.7 | 985 | 142 | 0.586 | 55.5 |
| | 5.0 | 22.3 | 28.4 | 1459 | 497 | 7.17 | 4.19 | 146 | 99.4 | 181 | 112 | 1206 | 172 | 0.583 | 44.9 |
| | 6.0 | 26.4 | 33.6 | 1703 | 577 | 7.12 | 4.14 | 170 | 115 | 213 | 132 | 1417 | 200 | 0.579 | 37.9 |
| | 8.0 | 33.9 | 43.2 | 2091 | 705 | 6.95 | 4.04 | 209 | 141 | 267 | 165 | 1811 | 250 | 0.566 | 29.5 |
| | 10.0 | 41.3 | 52.6 | 2444 | 818 | 6.82 | 3.94 | 244 | 164 | 318 | 195 | 2154 | 292 | 0.557 | 24.2 |
| 200 x 120 | 4.0 | 19.3 | 24.5 | 1353 | 618 | 7.43 | 5.02 | 135 | 103 | 164 | 115 | 1345 | 172 | 0.626 | 51.9 |
| | 5.0 | 23.8 | 30.4 | 1649 | 750 | 7.37 | 4.97 | 165 | 125 | 201 | 141 | 1652 | 210 | 0.623 | 42.0 |
| | 6.0 | 28.3 | 36.0 | 1929 | 874 | 7.32 | 4.93 | 193 | 146 | 237 | 166 | 1947 | 245 | 0.619 | 35.4 |
| | 8.0 | 36.5 | 46.4 | 2386 | 1079 | 7.17 | 4.82 | 239 | 180 | 298 | 209 | 2507 | 308 | 0.606 | 27.4 |
| | 10.0 | 44.4 | 56.6 | 2806 | 1262 | 7.04 | 4.72 | 281 | 210 | 356 | 250 | 3007 | 364 | 0.597 | 22.5 |
| 200 x 150 | 4.0 | 21.2 | 26.9 | 1584 | 1021 | 7.67 | 6.16 | 158 | 136 | 187 | 154 | 1942 | 219 | 0.686 | 47.3 |
| | 5.0 | 26.2 | 33.4 | 1935 | 1245 | 7.62 | 6.11 | 193 | 166 | 230 | 189 | 2391 | 267 | 0.683 | 38.2 |
| | 6.0 | 31.1 | 39.6 | 2268 | 1457 | 7.56 | 6.06 | 227 | 194 | 271 | 223 | 2826 | 313 | 0.679 | 32.1 |
| | 8.0 | 40.2 | 51.2 | 2829 | 1816 | 7.43 | 5.95 | 283 | 242 | 344 | 283 | 3665 | 396 | 0.666 | 24.9 |
| | 10.0 | 49.1 | 62.6 | 3348 | 2143 | 7.31 | 5.85 | 335 | 286 | 413 | 339 | 4428 | 471 | 0.657 | 20.4 |
| 250 x 150 | 5.0 | 30.1 | 38.4 | 3304 | 1508 | 9.28 | 6.27 | 264 | 201 | 320 | 225 | 3285 | 337 | 0.783 | 33.2 |
| | 6.0 | 35.8 | 45.6 | 3886 | 1768 | 9.23 | 6.23 | 311 | 236 | 378 | 266 | 3886 | 396 | 0.779 | 27.9 |
| | 8.0 | 46.5 | 59.2 | 4886 | 2219 | 9.08 | 6.12 | 391 | 296 | 482 | 340 | 5050 | 504 | 0.766 | 21.5 |
| | 10.0 | 57.0 | 72.6 | 5825 | 2634 | 8.96 | 6.02 | 466 | 351 | 582 | 409 | 6121 | 602 | 0.757 | 17.6 |
| | 12.0 | 66.0 | 84.1 | 6458 | 2925 | 8.77 | 5.90 | 517 | 390 | 658 | 463 | 7088 | 684 | 0.738 | 15.2 |
| 300 x 100 | 5.0 | 35.8 | 45.6 | 4777 | 842 | 10.2 | 4.30 | 318 | 168 | 411 | 188 | 2403 | 306 | 0.779 | 27.9 |
| | 6.0 | 41.3 | 52.6 | 5633 | 1010 | 10.1 | 4.26 | 374 | 198 | 488 | 225 | 2855 | 364 | 0.775 | 23.1 |
| | 8.0 | 46.5 | 59.2 | 5978 | 1045 | 10.0 | 4.20 | 399 | 209 | 523 | 238 | 3080 | 385 | 0.766 | 21.5 |
| | 10.0 | 57.0 | 72.6 | 7106 | 1224 | 9.90 | 4.11 | 474 | 245 | 631 | 285 | 3681 | 455 | 0.757 | 17.6 |
| | 12.5 | 68.3 | 87.0 | 8010 | 1374 | 9.59 | 3.97 | 534 | 275 | 732 | 330 | 4292 | 521 | 0.736 | 14.6 |
| 300 x 200 | 6.0 | 45.2 | 57.6 | 7370 | 3962 | 11.3 | 8.29 | 491 | 396 | 588 | 446 | 8115 | 651 | 0.979 | 22.1 |
| | 8.0 | 59.1 | 75.2 | 9389 | 5042 | 11.2 | 8.19 | 626 | 504 | 757 | 574 | 10627 | 838 | 0.966 | 16.9 |
| | 10.0 | 72.7 | 92.6 | 11313 | 6058 | 11.1 | 8.09 | 754 | 606 | 921 | 698 | 12987 | 1012 | 0.957 | 13.8 |
| | 12.0 | 84.8 | 108 | 12788 | 6854 | 10.9 | 7.96 | 853 | 685 | 1056 | 801 | 15236 | 1167 | 0.938 | 11.8 |
| | 12.5 | 88.0 | 112 | 13179 | 7060 | 10.8 | 7.94 | 879 | 706 | 1091 | 828 | 15768 | 1204 | 0.936 | 11.4 |
| 400 x 200 | 8.0 | 71.6 | 91.2 | 18974 | 6517 | 14.4 | 8.45 | 949 | 652 | 1173 | 728 | 15820 | 1133 | 1.17 | 14.0 |
| | 10.0 | 88.4 | 113 | 23003 | 7864 | 14.3 | 8.36 | 1150 | 786 | 1434 | 888 | 19368 | 1373 | 1.16 | 11.3 |
| | 12.0 | 104 | 132 | 26248 | 8977 | 14.1 | 8.24 | 1312 | 898 | 1656 | 1027 | 22782 | 1591 | 1.14 | 9.6 |
| | 12.5 | 108 | 137 | 27100 | 9260 | 14.1 | 8.22 | 1355 | 926 | 1714 | 1062 | 23594 | 1644 | 1.14 | 9.30 |

Varmvalsede kanalstål, UNP

Statistiske verdier iflg NS 1911
Toleranser i flg NS-EN 10 279

Innvendig skrå flensflater:
8 % ved profiler med $h \leq 300$ mm
5% ved profiler med $h > 300$ mm

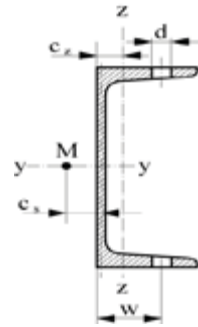


| Betegnelse | Masse kg/m ¹⁾ | Mål i mm | | | | | | | Tverrsnitt mm ² x10 ³ | Overflate | | I _t mm ⁴ x10 ³ | I _w mm ⁶ x10 ⁶ | Profilmoment i (m ⁻¹) A _m /V og A _p /V | | | |
|------------|--------------------------|----------|-----|------|------|------|------------------------------|-------------------|---|-------------------|---|---|---|---|---|---|--|
| | | H | B | s | t | r | h ₁ ²⁾ | m ² /m | | m ² /t |  | | |  |  |  | |
| UNP 30 | 4,27 | 30 | 33 | 5 | 7 | 3,5 | 1 | 0,544 | 0,174 | 40,7 | 9,12 | 4,36 | 320 | 232 | 259 | 171 | |
| UNP 40 | 4,87 | 40 | 35 | 5 | 7 | 3,5 | 11 | 0,621 | 0,199 | 40,9 | 10,0 | 11,9 | 320 | 242 | 264 | 185 | |
| UNP 50 | 5,59 | 50 | 38 | 5 | 7 | 3,5 | 20 | 0,712 | 0,232 | 41,5 | 11,2 | 27,8 | 326 | 247 | 272 | 194 | |
| UNP 60 | 5,07 | 60 | 30 | 6 | 6 | 3 | 29 | 0,646 | 0,215 | 42,4 | 9,39 | 21,9 | 333 | 279 | 286 | 232 | |
| UNP 65 | 7,09 | 65 | 42 | 5,5 | 7,5 | 4 | 33 | 0,903 | 0,273 | 38,5 | 16,1 | 77,3 | 302 | 237 | 256 | 190 | |
| UNP 80 | 8,64 | 80 | 45 | 6 | 8 | 4 | 46 | 1,10 | 0,312 | 36,1 | 21,6 | 168 | 284 | 227 | 244 | 186 | |
| UNP 100 | 10,6 | 100 | 50 | 6 | 8,5 | 4,5 | 64 | 1,35 | 0,372 | 35,1 | 28,1 | 414 | 277 | 223 | 239 | 186 | |
| UNP 120 | 13,4 | 120 | 55 | 7 | 9 | 4,5 | 82 | 1,70 | 0,434 | 32,4 | 41,5 | 900 | 253 | 206 | 220 | 174 | |
| UNP 140 | 16,0 | 140 | 60 | 7 | 10 | 5 | 98 | 2,04 | 0,489 | 30,6 | 56,8 | 1800 | 239 | 196 | 210 | 167 | |
| UNP 160 | 18,8 | 160 | 65 | 7,5 | 10,5 | 5,5 | 115 | 2,40 | 0,546 | 29,0 | 73,9 | 3260 | 227 | 187 | 200 | 160 | |
| UNP 180 | 22,0 | 180 | 70 | 8 | 11 | 5,5 | 133 | 2,80 | 0,611 | 27,8 | 95,5 | 5570 | 216 | 179 | 191 | 154 | |
| UNP 200 | 25,3 | 200 | 75 | 8,5 | 11,5 | 6 | 151 | 3,22 | 0,661 | 26,1 | 119 | 9070 | 205 | 171 | 182 | 148 | |
| UNP 220 | 29,4 | 220 | 80 | 9 | 12,5 | 6,5 | 167 | 3,74 | 0,718 | 24,4 | 160 | 14600 | 192 | 160 | 170 | 139 | |
| UNP 240 | 33,2 | 240 | 85 | 9,5 | 13 | 6,5 | 184 | 4,23 | 0,775 | 23,3 | 197 | 22100 | 183 | 154 | 163 | 134 | |
| UNP 260 | 37,9 | 260 | 90 | 10 | 14 | 7 | 200 | 4,83 | 0,834 | 22,0 | 255 | 33300 | 172 | 145 | 154 | 126 | |
| UNP 280 | 41,8 | 280 | 95 | 10 | 15 | 7,5 | 216 | 5,33 | 0,890 | 21,3 | 310 | 48500 | 167 | 140 | 149 | 123 | |
| UNP 300 | 46,2 | 300 | 100 | 10 | 16 | 8 | 232 | 5,88 | 0,950 | 20,6 | 374 | 69100 | 162 | 136 | 145 | 119 | |
| UNP 320 | 59,5 | 320 | 100 | 14 | 17,5 | 8,75 | 246 | 7,58 | 0,982 | 16,5 | 667 | 96100 | 130 | 111 | 117 | 98 | |
| UNP 350 | 60,6 | 350 | 100 | 14 | 16 | 8 | 282 | 7,73 | 1,05 | 17,3 | 612 | 114000 | 135 | 117 | 122 | 104 | |
| UNP 380 | 63,1 | 380 | 102 | 13,5 | 16 | 8 | 312 | 8,04 | 1,11 | 17,7 | 591 | 146000 | 139 | 120 | 126 | 107 | |
| UNP 400 | 71,8 | 400 | 110 | 14 | 18 | 9 | 324 | 9,15 | 1,18 | 16,5 | 816 | 221000 | 129 | 111 | 117 | 99 | |

1) Når partier ved levering fra lager ikke blir veid, brukes ved fakturering konvensjonell handelsvekt som er ca 2% høyere enn tabellverdiene.

2) Avrundet nedover

Varmvalsede kanalstål, UNP



| Betegnelse | For bøyningsakse | | | | | | | | c_z mm | c_s mm | Flenshull | | Klasser i.h.h.t NS-EN 1993-1-1 | | |
|------------|--|---|-------------|---|--|---|-------------|---|-------------|-------------|-----------|---------|-----------------------------------|------------|---|
| | y - y | | | | z - z | | | | | | Avst. | Diam. | Bare bøyning | Bare trykk | |
| | I_y mm ⁴ x10 ⁶ | $W_{el,y}$ mm ³ x10 ³ | i_y mm | $W_{pl,y}$ mm ³ x10 ³ | I_z mm ⁴ x10 ⁶ | $W_{el,z}$ mm ³ x10 ³ | i_z mm | $W_{pl,z}$ mm ³ x10 ³ | | | w mm | d mm | y-y akse | | |
| | | | | | | | | | | | | | S355 | S355 | |
| UNP 30 | 0,064 | 4,26 | 10,8 | 5,06 | 0,0533 | 2,68 | 9,9 | 4,57 | 13,1 | 12,6 | 20 | - | - | - | - |
| UNP 40 | 0,141 | 7,05 | 15,0 | 8,40 | 0,0668 | 3,08 | 10,4 | 4,55 | 13,3 | 13,4 | 20 | - | - | - | - |
| UNP 50 | 0,264 | 10,6 | 19,2 | 12,6 | 0,0912 | 3,75 | 11,3 | 6,96 | 13,7 | 14,5 | 20 | - | - | - | - |
| UNP 60 | 0,316 | 10,5 | 22,1 | 12,5 | 0,0451 | 2,16 | 8,4 | 4,27 | 9,1 | 8,9 | 18 | - | - | - | - |
| UNP 65 | 0,575 | 17,7 | 25,2 | 21,0 | 0,141 | 5,07 | 12,5 | 9,63 | 14,2 | 15,6 | 25 | - | - | - | - |
| UNP 80 | 1,060 | 26,5 | 31,0 | 31,8 | 0,194 | 6,36 | 13,3 | 12,2 | 14,5 | 16,2 | 25 | 13 | 1 | 1 | 1 |
| UNP 100 | 2,060 | 41,2 | 39,1 | 49,0 | 0,293 | 8,49 | 14,7 | 16,5 | 15,5 | 18,1 | 30 | 13 | 1 | 1 | 1 |
| UNP 120 | 3,640 | 60,7 | 46,2 | 72,6 | 0,432 | 11,1 | 15,9 | 21,5 | 16,0 | 18,8 | 30 | 17/13 | 1 | 1 | 1 |
| UNP 140 | 6,050 | 86,4 | 54,5 | 103 | 0,627 | 14,8 | 17,5 | 28,8 | 17,5 | 21,2 | 35 | 17 | 1 | 1 | 1 |
| UNP 160 | 9,250 | 116 | 62,1 | 138 | 0,853 | 18,3 | 18,9 | 35,8 | 18,4 | 22,5 | 35 | 21/17 | 1 | 1 | 1 |
| UNP 180 | 13,50 | 150 | 69,5 | 179 | 1,14 | 22,4 | 20,2 | 43,7 | 19,2 | 23,8 | 40 | 21 | 1 | 1 | 1 |
| UNP 200 | 19,10 | 191 | 77,0 | 228 | 1,48 | 27,0 | 21,4 | 52,7 | 20,1 | 25,1 | 40 | 23/21 | 1 | 1 | 1 |
| UNP 220 | 26,90 | 245 | 84,8 | 292 | 1,97 | 33,6 | 23,0 | 65,4 | 21,4 | 26,9 | 45 | 23 | 1 | 1 | 1 |
| UNP 240 | 36,00 | 300 | 92,2 | 358 | 2,48 | 39,6 | 24,2 | 76,8 | 22,3 | 28,1 | 45 | 25/23 | 1 | 1 | 1 |
| UNP 260 | 48,20 | 371 | 99,9 | 442 | 3,17 | 47,7 | 25,6 | 92,9 | 23,6 | 30,0 | 50 | 25 | 1 | 1 | 1 |
| UNP 280 | 62,80 | 448 | 109 | 532 | 3,99 | 57,2 | 27,4 | 111 | 25,3 | 32,4 | 50 | 25 | 1 | 1 | 1 |
| UNP 300 | 80,30 | 535 | 117 | 632 | 4,95 | 67,8 | 29,0 | 131 | 27,0 | 35,1 | 55 | 28 | 1 | 1 | 1 |
| UNP 320 | 108,7 | 679 | 121 | 826 | 5,97 | 80,6 | 28,1 | 153 | 26,0 | 31,0 | 57 | 28 | 1 | 1 | 1 |
| UNP 350 | 128,4 | 734 | 129 | 918 | 5,70 | 75,0 | 27,2 | 143 | 24,0 | 28,5 | 57 | 28 | 1 | 1 | 1 |
| UNP 380 | 157,6 | 829 | 140 | 1014 | 6,15 | 78,7 | 27,7 | 150 | 23,8 | 30,0 | 60 | 28 | 1 | 1 | 1 |
| UNP 400 | 203,5 | 1020 | 149 | 1236 | 8,46 | 102 | 30,4 | 194 | 26,5 | 33,6 | 60 | 28 | 1 | 1 | 1 |

I = annet arealmoment

W_{el} = tverrsnittsmul

i = treghetsradius

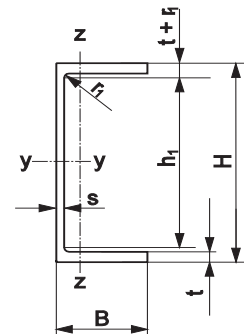
I_w = hvelvingsmotstand

I_t = annet arealmoment for torsjon

W_{pl} = plastisk tverrsnittsmul

Varmvalsede kanalstål med parallelle flenser, UPE

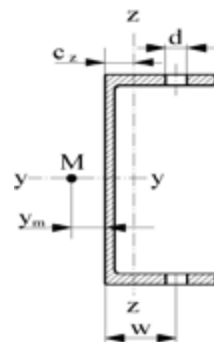
Dimensjoner etter DIN 1026-2
Toleranser iflg NS-EN 10279



| Betegnelse | Masse kg/m ¹ | Mål i mm | | | | | Tverr-snitt mm ² | Overflate m ² /m | I _t mm ⁴ x10 ³ | I _w mm ⁶ x10 ⁶ | Profilfaktor i (m ⁻¹) A _m /V og A _p /V | | | |
|----------------|----------------------------|----------|-----|------|------|----------------|--------------------------------|--------------------------------|---|---|---|-----|-----|-----|
| | | H | B | s | t | r ₁ | | | | | | | | |
| UPE 80 | 7,9 | 80 | 50 | 4 | 7 | 10 | 1010 | 0,343 | 14,7 | 238 | 341 | 258 | 291 | 209 |
| UPE 100 | 9,82 | 100 | 55 | 4,5 | 7,5 | 10 | 1250 | 0,402 | 20,1 | 569 | 322 | 248 | 278 | 204 |
| UPE 120 | 12,1 | 120 | 60 | 5 | 8 | 12 | 1540 | 0,46 | 29 | 1199 | 298 | 233 | 259 | 195 |
| UPE 140 | 14,5 | 140 | 65 | 5 | 9 | 12 | 1840 | 0,52 | 40,5 | 2340 | 282 | 223 | 247 | 187 |
| UPE 160 | 17 | 160 | 70 | 5,5 | 9,5 | 12 | 2170 | 0,579 | 52 | 4184 | 267 | 212 | 235 | 180 |
| UPE 180 | 19,7 | 180 | 75 | 5,5 | 10,5 | 12 | 2510 | 0,639 | 69,9 | 7165 | 254 | 203 | 224 | 173 |
| UPE 200 | 22,8 | 200 | 80 | 6 | 11 | 13 | 2900 | 0,697 | 88,9 | 11570 | 240 | 193 | 213 | 165 |
| UPE 220 | 26,6 | 220 | 85 | 6,5 | 12 | 13 | 3390 | 0,756 | 121 | 18460 | 223 | 180 | 198 | 155 |
| UPE 240 | 30,2 | 240 | 90 | 7 | 12,5 | 15 | 3850 | 0,813 | 151 | 27780 | 211 | 171 | 188 | 148 |
| UPE 270 | 35,2 | 270 | 95 | 7,5 | 13,5 | 15 | 4480 | 0,892 | 199 | 45570 | 199 | 163 | 178 | 142 |
| UPE 300 | 44,4 | 300 | 100 | 9,5 | 15 | 15 | 5660 | 0,968 | 315 | 75510 | 171 | 141 | 153 | 124 |
| UPE 330 | 53,2 | 330 | 105 | 11 | 16 | 18 | 6780 | 1,043 | 452 | 116400 | 154 | 128 | 138 | 113 |
| UPE 360 | 61,2 | 360 | 110 | 12 | 17 | 18 | 7790 | 1,121 | 585 | 172400 | 144 | 121 | 130 | 107 |
| UPE 400 | 72,2 | 400 | 115 | 13,5 | 18 | 18 | 9190 | 1,218 | 791 | 266400 | 132 | 112 | 120 | 100 |

1) Når partier ved levering fra lager ikke blir veid, brukes ved fakturering konvensjonell handelsvekt som er ca 2% høyere enn tabellverdiene.

Varmvalsede kanalstål med parallelle flenser, UPE



| Betegnelse | For bøyningsakse | | | | | | | | c _z mm | y _m mm | Flenshull | | Klasser i.h.h.t NS-EN 1993-1-1 | | | |
|------------|---|--|----------------------|--|---|--|----------------------|--|----------------------|----------------------|------------------|------------------|-----------------------------------|------|------------|------|
| | y - y | | | | z - z | | | | | | Avst. w mm | Diam. d mm | Bare bøyning y- y akse | | Bare trykk | |
| | I _y mm ⁴ x10 ³ | W _{el,y} mm ³ x10 ³ | i _y mm | W _{pl,y} mm ³ x10 ³ | I _z mm ⁴ x10 ³ | W _{el,z} mm ³ x10 ³ | i _z mm | W _{pl,z} mm ³ x10 ³ | | | | | S355 | S460 | S355 | S460 |
| | | | | | | | | | | | | | | | | |
| UPE 80 | 1070 | 26,8 | 32,6 | 31,2 | 254 | 7,98 | 15,9 | 14,1 | 18,17 | 37,1 | 30 | 13 | 1 | 1 | 1 | 1 |
| UPE 100 | 2070 | 41,4 | 40,7 | 48 | 382 | 10,6 | 17,5 | 18,9 | 19,06 | 39,3 | 35 | 13 | 1 | 2 | 1 | 2 |
| UPE 120 | 3640 | 60,6 | 48,6 | 70,3 | 554 | 13,8 | 19 | 24,8 | 19,83 | 41,2 | 35 | 17/13 | 1 | 2 | 1 | 2 |
| UPE 140 | 5990 | 85,6 | 57,1 | 98,8 | 787 | 18,2 | 20,7 | 32,6 | 21,73 | 45,4 | 40 | 17 | 1 | 2 | 1 | 2 |
| UPE 160 | 9110 | 114 | 64,8 | 132 | 1070 | 22,6 | 22,2 | 40,7 | 22,7 | 47,6 | 40 | 21/17 | 1 | 2 | 1 | 2 |
| UPE 180 | 13530 | 150 | 73,4 | 173 | 1440 | 28,6 | 23,9 | 51,3 | 24,68 | 51,9 | 45 | 21 | 1 | 1 | 1 | 2 |
| UPE 200 | 19090 | 191 | 81,1 | 220 | 1870 | 34,4 | 25,4 | 62,2 | 25,6 | 54,1 | 45 | 23/21 | 1 | 2 | 1 | 2 |
| UPE 220 | 26820 | 244 | 89 | 281 | 2460 | 42,5 | 27 | 76,9 | 27,03 | 57 | 50 | 23 | 1 | 1 | 1 | 2 |
| UPE 240 | 35990 | 300 | 96,7 | 347 | 3110 | 50,1 | 28,4 | 90,8 | 27,92 | 59,1 | 50 | 25/23 | 1 | 2 | 1 | 2 |
| UPE 270 | 52550 | 389 | 108 | 451 | 4010 | 60,7 | 29,9 | 110 | 28,93 | 61,4 | 55 | 25 | 1 | 1 | 2 | 3 |
| UPE 300 | 78230 | 522 | 118 | 613 | 5380 | 75,6 | 30,8 | 137 | 28,87 | 60,3 | 60 | 28 | 1 | 1 | 1 | 2 |
| UPE 330 | 110080 | 667 | 127 | 792 | 6810 | 89,7 | 31,7 | 162 | 29 | 60 | 65 | 28 | 1 | 1 | 1 | 2 |
| UPE 360 | 148250 | 824 | 138 | 982 | 8440 | 105 | 32,9 | 189 | 29,7 | 61,2 | 70 | 28 | 1 | 1 | 1 | 2 |
| UPE 400 | 209810 | 1049 | 151 | 1263 | 10450 | 123 | 33,7 | 221 | 29,77 | 60,6 | 75 | 28 | 1 | 1 | 1 | 2 |

I = annet arealmoment

W_{el} = tverrsnittsmodul

i = treghetsradius

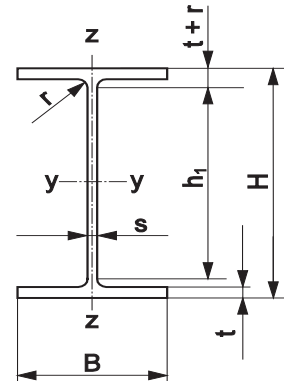
I_w = hvelvingsmotstand

I_t = annet arealmoment for torsjon

W_{pl} = plastisk tverrsnittsmodul

IPE-bjelker

Dimensjoner etter EURONORM 19
Statistiske verdier iflg NS-EN 10 034



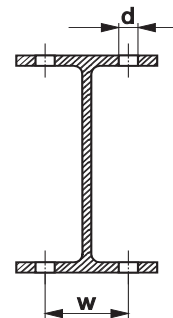
| Betegnelse | Masse kg/m ¹) | Mål i mm | | | | | | Tverrsnitt mm ² x10 ³ | Overflate | | Profilfaktor i (m ¹) A _m /V og A _p /V | | | |
|------------|------------------------------|----------|-----|------|------|----|------------------------------|---|-------------------|-------------------|--|-----|-----|-----|
| | | H | B | s | t | r | h ₁ ²⁾ | | m ² /m | m ² /t | | | | |
| IPE 80 | 6 | 80 | 46 | 3,8 | 5,2 | 5 | 59 | 0,764 | 0,328 | 54,8 | 430 | 329 | 370 | 269 |
| IPE 100 | 8,1 | 100 | 55 | 4,1 | 5,7 | 7 | 74 | 1,03 | 0,400 | 49,5 | 389 | 301 | 335 | 247 |
| IPE 120 | 10,4 | 120 | 64 | 4,4 | 6,3 | 7 | 93 | 1,32 | 0,475 | 45,6 | 359 | 278 | 310 | 230 |
| IPE 140 | 12,9 | 140 | 73 | 4,7 | 6,9 | 7 | 112 | 1,64 | 0,551 | 42,6 | 335 | 259 | 290 | 215 |
| IPE 160 | 15,8 | 160 | 82 | 5,0 | 7,4 | 9 | 127 | 2,01 | 0,623 | 39,4 | 309 | 240 | 268 | 200 |
| IPE 180 | 18,8 | 180 | 91 | 5,3 | 8,0 | 9 | 146 | 2,39 | 0,698 | 37,1 | 292 | 226 | 254 | 188 |
| IPE 200 | 22,4 | 200 | 100 | 5,6 | 8,5 | 12 | 159 | 2,85 | 0,768 | 34,3 | 269 | 210 | 234 | 175 |
| IPE 220 | 26,2 | 220 | 110 | 5,9 | 9,2 | 12 | 177 | 3,34 | 0,848 | 32,4 | 253 | 197 | 221 | 164 |
| IPE 240 | 30,7 | 240 | 120 | 6,2 | 9,8 | 15 | 190 | 3,91 | 0,922 | 30,0 | 235 | 184 | 204 | 153 |
| IPE 270 | 36,1 | 270 | 135 | 6,6 | 10,2 | 15 | 219 | 4,59 | 1,04 | 28,8 | 226 | 176 | 197 | 147 |
| IPE 300 | 42,2 | 300 | 150 | 7,1 | 10,7 | 15 | 248 | 5,38 | 1,16 | 27,5 | 215 | 167 | 187 | 139 |
| IPE 330 | 49,1 | 330 | 160 | 7,5 | 11,5 | 18 | 271 | 6,26 | 1,25 | 25,5 | 199 | 156 | 174 | 131 |
| IPE 360 | 57,1 | 360 | 170 | 8,0 | 12,7 | 18 | 298 | 7,27 | 1,35 | 23,6 | 185 | 145 | 162 | 122 |
| IPE 400 | 66,3 | 400 | 180 | 8,6 | 13,5 | 21 | 331 | 8,45 | 1,47 | 22,2 | 174 | 137 | 152 | 116 |
| IPE 450 | 77,6 | 450 | 190 | 9,4 | 14,6 | 21 | 378 | 9,88 | 1,61 | 20,7 | 163 | 129 | 143 | 110 |
| IPE 500 | 90,7 | 500 | 200 | 10,2 | 16,0 | 21 | 426 | 11,6 | 1,74 | 19,2 | 150 | 120 | 132 | 103 |
| IPE 550 | 106 | 550 | 210 | 11,1 | 17,2 | 24 | 467 | 13,4 | 1,88 | 17,7 | 140 | 113 | 124 | 97 |
| IPE 600 | 122 | 600 | 220 | 12,0 | 19,0 | 24 | 514 | 15,6 | 2,01 | 16,6 | 129 | 105 | 115 | 91 |

1) Når partier ved levering fra lager ikke blir veid, brukes ved fakturering konvensjonell handelsvekt som er ca 2% høyere enn tabellverdiene.

2) Avrundet nedover

IPE-bjelker

Dimensjoner etter EURONORM 19
 Statistiske verdier iflg NS-EN 10 034



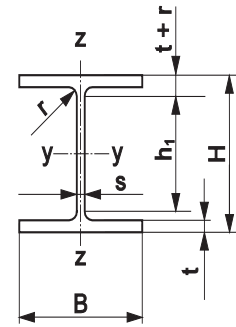
| Betegnelse | For bøyningsakse | | | | | | | | I_t mm ⁴ x10 ³ | I_w mm ⁶ x10 ⁹ | Flenshull | | Klasser i.h.h.t NS-EN 1993-1-1 | | | |
|----------------|--|---|-------------|---|--|---|-------------|---|--|--|------------------|------------------|-----------------------------------|------|------------|------|
| | y - y | | | | z - z | | | | | | Avst. w mm | Diam. d mm | Bare bøyning y- y akse | | Bare trykk | |
| | I_y mm ⁴ x10 ⁶ | $W_{el,y}$ mm ³ x10 ³ | i_y mm | $W_{pl,y}$ mm ³ x10 ³ | I_z mm ⁴ x10 ⁶ | $W_{el,z}$ mm ³ x10 ³ | i_z mm | $W_{pl,z}$ mm ³ x10 ³ | | | | | S355 | S460 | S355 | S460 |
| | | | | | | | | | | | | | | | | |
| IPE 80 | 0,801 | 20,0 | 32,4 | 23,2 | 0,085 | 3,69 | 10,5 | 5,50 | 7,0 | 0,118 | 26 | - | 1 | - | 1 | - |
| IPE 100 | 1,71 | 34,2 | 40,7 | 39,4 | 0,159 | 5,79 | 12,4 | 8,62 | 12,1 | 0,351 | 30 | - | 1 | - | 1 | - |
| IPE 120 | 3,18 | 53,0 | 49,0 | 60,8 | 0,277 | 8,65 | 14,5 | 12,9 | 17,4 | 0,890 | 36 | - | 1 | 1 | 1 | 1 |
| IPE 140 | 5,41 | 77,3 | 57,4 | 88,4 | 0,449 | 12,3 | 16,5 | 18,4 | 24,5 | 1,981 | 40 | - | 1 | 1 | 1 | 2 |
| IPE 160 | 8,69 | 109 | 65,8 | 124 | 0,683 | 16,7 | 18,4 | 24,9 | 36,2 | 3,959 | 44 | 13 | 1 | 1 | 1 | 2 |
| IPE 180 | 13,2 | 146 | 74,2 | 166 | 1,01 | 22,2 | 20,5 | 33,1 | 48,0 | 7,431 | 50 | 13 | 1 | 1 | 2 | 3 |
| IPE 200 | 19,4 | 194 | 82,1 | 220 | 1,42 | 28,5 | 22,4 | 42,5 | 70,2 | 12,99 | 56 | 13 | 1 | 1 | 2 | 3 |
| IPE 220 | 27,7 | 252 | 91,1 | 286 | 2,05 | 37,3 | 24,8 | 55,7 | 91,0 | 22,67 | 60 | 17 | 1 | 1 | 2 | 4 |
| IPE 240 | 38,9 | 324 | 99,7 | 366 | 2,84 | 47,3 | 26,9 | 70,6 | 129 | 37,39 | 68 | 17 | 1 | 1 | 2 | 4 |
| IPE 270 | 57,9 | 429 | 112 | 484 | 4,20 | 62,2 | 30,2 | 93,0 | 160 | 70,58 | 72 | 21/17 | 1 | 1 | 3 | 4 |
| IPE 300 | 83,6 | 557 | 125 | 628 | 6,04 | 80,5 | 33,5 | 120 | 202 | 125,9 | 80 | 23 | 1 | 1 | 4 | 4 |
| IPE 330 | 117,7 | 713 | 137 | 804 | 7,88 | 98,5 | 35,5 | 147 | 283 | 199,1 | 86 | 25/23 | 1 | 1 | 4 | 4 |
| IPE 360 | 162,7 | 904 | 150 | 1020 | 10,4 | 123 | 37,9 | 184 | 375 | 313,6 | 90 | 25 | 1 | 1 | 4 | 4 |
| IPE 400 | 231,3 | 1160 | 165 | 1308 | 13,2 | 146 | 39,5 | 219 | 514 | 490 | 96 | 28/25 | 1 | 1 | 4 | 4 |
| IPE 450 | 337,4 | 1500 | 185 | 1702 | 16,8 | 176 | 41,2 | 264 | 671 | 791 | 106 | 28 | 1 | 1 | 4 | 4 |
| IPE 500 | 482,0 | 1930 | 204 | 2200 | 21,4 | 214 | 43,1 | 320 | 897 | 1249 | 110 | 28 | 1 | 1 | 4 | 4 |
| IPE 550 | 671,2 | 2440 | 223 | 2780 | 26,7 | 254 | 44,5 | 379 | 1240 | 1884 | 116 | 28 | 1 | 1 | 4 | 4 |
| IPE 600 | 920,8 | 3070 | 243 | 3520 | 33,9 | 308 | 46,6 | 460 | 1660 | 2846 | 120 | 28 | 1 | 1 | 4 | 4 |

- I = annet arealmoment
- W_{el} = tverrsnittsmodul
- i = treghetsradius
- I_w = hvelvingsmotstand
- I_t = annet arealmoment for torsjon
- W_{pl} = plastisk tverrsnittsmodul

Varmvalsede HE-A-bjelker

Dimensjoner etter EURONORM 53

Statistiske verdier iflg NS-EN 10 034



| Betegnelse | Masse kg/m ¹ | Mål i mm | | | | | | Tverr-snitt mm ² x10 ³ | Overflate | | Profilfaktor i (m ⁻¹) A _m /V og A _p /V | | | | |
|------------|----------------------------|----------|-----|------|------|----|------------------------------|---|-------------------|-------------------|---|-----|-----|-----|-----|
| | | H | B | s | t | r | h ₁ ²⁾ | | m ² /m | m ² /t | | | | | |
| HE 100 A | 16,7 | 96 | 100 | 5 | 8 | 12 | 56 | 2,12 | 0,561 | 33,6 | | 265 | 184 | 217 | 137 |
| HE 120 A | 19,9 | 114 | 120 | 5 | 8 | 12 | 74 | 2,53 | 0,677 | 34,1 | | 267 | 185 | 220 | 137 |
| HE 140 A | 24,7 | 133 | 140 | 5,5 | 8,5 | 12 | 92 | 3,14 | 0,794 | 32,2 | | 252 | 173 | 208 | 129 |
| HE 160 A | 30,4 | 152 | 160 | 6 | 9 | 15 | 104 | 3,88 | 0,906 | 29,8 | | 230 | 160 | 189 | 119 |
| HE 180 A | 35,5 | 171 | 180 | 6 | 9,5 | 15 | 122 | 4,53 | 1,02 | 28,9 | | 225 | 155 | 185 | 115 |
| HE 200 A | 42,3 | 190 | 200 | 6,5 | 10 | 18 | 134 | 5,38 | 1,14 | 26,8 | | 211 | 145 | 174 | 107 |
| HE 220 A | 50,5 | 210 | 220 | 7 | 11 | 18 | 152 | 6,43 | 1,26 | 24,9 | | 196 | 133 | 161 | 99 |
| HE 240 A | 60,3 | 230 | 240 | 7,5 | 12 | 21 | 164 | 7,68 | 1,37 | 22,7 | | 178 | 122 | 147 | 91 |
| HE 260 A | 68,2 | 250 | 260 | 7,5 | 12,5 | 24 | 177 | 8,68 | 1,48 | 21,8 | | 170 | 117 | 140 | 87 |
| HE 280 A | 76,4 | 270 | 280 | 8 | 13 | 24 | 196 | 9,73 | 1,60 | 21,0 | | 164 | 113 | 135 | 84 |
| HE 300 A | 88,3 | 290 | 300 | 8,5 | 14 | 27 | 208 | 11,2 | 1,72 | 19,4 | | 152 | 104 | 126 | 78 |
| HE 320 A | 97,6 | 310 | 300 | 9 | 15,5 | 27 | 225 | 12,4 | 1,76 | 18,0 | | 141 | 98 | 117 | 74 |
| HE 340 A | 105 | 330 | 300 | 9,5 | 16,5 | 27 | 243 | 13,3 | 1,79 | 17,1 | | 134 | 94 | 111 | 71 |
| HE 360 A | 112 | 350 | 300 | 10 | 17,5 | 27 | 261 | 14,3 | 1,83 | 16,4 | | 128 | 91 | 107 | 70 |
| HE 400 A | 125 | 390 | 300 | 11 | 19 | 27 | 298 | 15,9 | 1,91 | 15,3 | | 120 | 86 | 101 | 67 |
| HE 450 A | 140 | 440 | 300 | 11,5 | 21 | 27 | 344 | 17,8 | 2,01 | 14,4 | | 112 | 83 | 96 | 66 |
| HE 500 A | 155 | 490 | 300 | 12 | 23 | 27 | 390 | 19,8 | 2,11 | 13,6 | | 106 | 80 | 91 | 64 |
| HE 550 A | 166 | 540 | 300 | 12,5 | 24 | 27 | 438 | 21,2 | 2,21 | 13,3 | | 104 | 79 | 90 | 65 |
| HE 600 A | 178 | 590 | 300 | 13 | 25 | 27 | 486 | 22,6 | 2,31 | 13,0 | | 102 | 78 | 88 | 65 |
| HE 650 A | 190 | 640 | 300 | 13,5 | 26 | 27 | 534 | 24,2 | 2,41 | 12,7 | | 99 | 77 | 87 | 65 |
| HE 700 A | 204 | 690 | 300 | 14,5 | 27 | 27 | 582 | 26,0 | 2,50 | 12,3 | | 96 | 76 | 84 | 64 |
| HE 800 A | 224 | 790 | 300 | 15 | 28 | 30 | 674 | 28,6 | 2,70 | 12,0 | | 94 | 76 | 83 | 65 |
| HE 900 A | 252 | 890 | 300 | 16 | 30 | 30 | 770 | 32,0 | 2,90 | 11,5 | | 90 | 74 | 81 | 64 |
| HE 1000 A | 272 | 990 | 300 | 16,5 | 31 | 30 | 868 | 34,7 | 3,10 | 11,4 | | 89 | 74 | 80 | 65 |

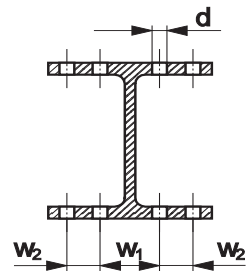
1) Når partier ved levering fra lager ikke blir veid, brukes ved fakturering konvensjonell handelsvekt som er ca 2% høyere enn tabellverdiene.

2) Avrundet nedover

Varmvalsede HE-A-bjelker

Dimensjoner etter EURONORM 53

Statistiske verdier iflg NS-EN 10 034

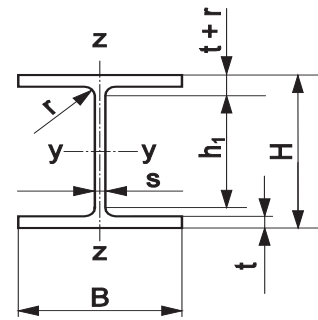


| Betegnelse | For bøyningssakse | | | | | | | | I_t mm ⁴ x10 ³ | I_w mm ⁶ x10 ⁹ | Flenshull | | | Klasser i.h.h.t EN 1993-1-1 | | | |
|------------|--|---|-------------|---|--|---|-------------|---|--|--|-------------|-------------|---------|--------------------------------|------|------------|------|
| | y - y | | | | z - z | | | | | | Avstand | | Diam. | Bare bøyning y-y akse | | Bare trykk | |
| | I_y mm ⁴ x10 ⁶ | $W_{el,y}$ mm ³ x10 ³ | i_y mm | $W_{pl,y}$ mm ³ x10 ³ | I_z mm ⁴ x10 ⁶ | $W_{el,z}$ mm ³ x10 ³ | i_z mm | $W_{pl,z}$ mm ³ x10 ³ | | | w_1 mm | w_2 mm | d mm | S355 | S460 | S355 | S460 |
| | | | | | | | | | | | | | | | | | |
| HE 100 A | 3,49 | 72,8 | 40,6 | 83 | 1,34 | 26,8 | 25,1 | 40,0 | 52,6 | 2,581 | 56 | - | 13 | 1 | 1 | 1 | 1 |
| HE 120 A | 6,06 | 106 | 48,9 | 119 | 2,31 | 38,5 | 30,2 | 57,6 | 60,2 | 6,472 | 66 | - | 17 | 1 | 2 | 1 | 2 |
| HE 140 A | 10,3 | 155 | 57,3 | 173 | 3,89 | 55,6 | 35,2 | 83,3 | 81,6 | 15,06 | 76 | - | 21 | 2 | 3 | 2 | 3 |
| HE 160 A | 16,7 | 220 | 65,7 | 246 | 6,16 | 76,9 | 39,8 | 115 | 123 | 31,41 | 86 | - | 23 | 2 | 3 | 2 | 3 |
| HE 180 A | 25,1 | 294 | 74,5 | 324 | 9,25 | 103 | 45,2 | 154 | 149 | 60,21 | 100 | - | 25 | 3 | 3 | 3 | 3 |
| HE 200 A | 36,9 | 389 | 82,8 | 430 | 13,4 | 134 | 49,8 | 200 | 211 | 108,0 | 110 | - | 25 | 3 | 3 | 3 | 3 |
| HE 220 A | 54,1 | 515 | 91,7 | 568 | 19,5 | 178 | 55,1 | 266 | 286 | 193,3 | 120 | - | 25 | 3 | 3 | 3 | 3 |
| HE 240 A | 77,6 | 675 | 101 | 744 | 27,7 | 231 | 60,0 | 346 | 417 | 328,5 | 94 | 35 | 25 | 3 | 3 | 3 | 3 |
| HE 260 A | 104,5 | 836 | 110 | 920 | 36,7 | 282 | 65,0 | 423 | 526 | 516,4 | 100 | 40 | 25 | 3 | 3 | 3 | 3 |
| HE 280 A | 136,7 | 1010 | 119 | 1112 | 47,6 | 340 | 70,0 | 510 | 624 | 785,4 | 110 | 45 | 25 | 3 | 4 | 3 | 4 |
| HE 300 A | 182,6 | 1260 | 127 | 1384 | 63,1 | 421 | 74,9 | 630 | 856 | 1200 | 120 | 45 | 28 | 3 | 3 | 3 | 3 |
| HE 320 A | 229,3 | 1480 | 136 | 1628 | 69,9 | 466 | 74,9 | 698 | 1080 | 1512 | 120 | 45 | 28 | 3 | 3 | 3 | 3 |
| HE 340 A | 276,9 | 1680 | 144 | 1850 | 74,4 | 496 | 74,6 | 743 | 1280 | 1824 | 120 | 45 | 28 | 3 | 3 | 3 | 3 |
| HE 360 A | 330,9 | 1890 | 152 | 2080 | 78,9 | 526 | 74,3 | 788 | 1490 | 2177 | 120 | 45 | 28 | 2 | 3 | 2 | 3 |
| HE 400 A | 450,7 | 2310 | 168 | 2560 | 85,6 | 571 | 73,4 | 855 | 1900 | 2942 | 120 | 45 | 28 | 1 | 3 | 2 | 3 |
| HE 450 A | 637,2 | 2900 | 189 | 3220 | 94,7 | 631 | 72,9 | 945 | 2450 | 4148 | 120 | 45 | 28 | 1 | 1 | 2 | 3 |
| HE 500 A | 869,7 | 3550 | 210 | 3940 | 103,7 | 691 | 72,4 | 1035 | 3100 | 5643 | 120 | 45 | 28 | 1 | 1 | 3 | 4 |
| HE 550 A | 1119 | 4150 | 230 | 4620 | 108,2 | 721 | 71,5 | 1080 | 3530 | 7189 | 120 | 45 | 28 | 1 | 1 | 4 | 4 |
| HE 600 A | 1412 | 4790 | 250 | 5360 | 112,7 | 751 | 70,5 | 1125 | 3990 | 8978 | 120 | 45 | 28 | 1 | 1 | 4 | 4 |
| HE 650 A | 1752 | 5470 | 269 | 6140 | 117,2 | 782 | 69,7 | 1170 | 4500 | 11027 | 120 | 45 | 28 | 1 | 1 | 4 | 4 |
| HE 700 A | 2153 | 6240 | 288 | 7040 | 121,8 | 812 | 68,4 | 1215 | 5150 | 13352 | 120 | 45 | 28 | 1 | 1 | 4 | 4 |
| HE 800 A | 3034 | 7680 | 326 | 8700 | 126,4 | 843 | 66,5 | 1260 | 5990 | 18290 | 130 | 40 | 28 | 1 | 1 | 4 | 4 |
| HE 900 A | 4221 | 9480 | 363 | 10820 | 135,5 | 903 | 65,0 | 1350 | 7390 | 24962 | 130 | 40 | 28 | 1 | 1 | 4 | 4 |
| HE 1000 A | 5538 | 11190 | 400 | 12820 | 140,0 | 934 | 63,5 | 1395 | 8250 | 32074 | 130 | 40 | 28 | 1 | 2 | 4 | 4 |

- I = annet arealmoment
- W_{el} = tverrsnittsmodul
- i = treghetsradius
- I_w = hvelvingsmotstand
- I_t = annet arealmoment for torsjon
- W_{pl} = plastisk tverrsnittsmodul

Varmvalsede HE-B-bjelker

Dimensjoner etter EURONORM 53
 Statistiske verdier iflg NS-EN 10 034



| Betegnelse | Masse kg/m ¹ | Mål i mm | | | | | | Tverr- snitt mm ² x10 ³ | Overflate | | Profilfaktor i (m ⁻¹) A _m /V og A _y /V | | | |
|------------|----------------------------|----------|-----|------|------|----|------------------------------|---|-------------------|-------------------|---|-----|-----|-----|
| | | H | B | s | t | r | h ₁ ²⁾ | | m ² /m | m ² /t | | | | |
| HE 100 B | 20,4 | 100 | 100 | 6 | 10 | 12 | 56 | 2,6 | 0,567 | 27,8 | 218 | 153 | 179 | 115 |
| HE 120 B | 26,7 | 120 | 120 | 6,5 | 11 | 12 | 74 | 3,4 | 0,686 | 25,7 | 201 | 141 | 166 | 105 |
| HE 140 B | 33,7 | 140 | 140 | 7 | 12 | 12 | 92 | 4,3 | 0,805 | 23,9 | 187 | 130 | 154 | 97 |
| HE 160 B | 42,6 | 160 | 160 | 8 | 13 | 15 | 104 | 5,43 | 0,918 | 21,5 | 169 | 117 | 139 | 88 |
| HE 180 B | 51,2 | 180 | 180 | 8,5 | 14 | 15 | 122 | 6,53 | 1,04 | 20,3 | 157 | 110 | 130 | 82 |
| HE 200 B | 61,3 | 200 | 200 | 9 | 15 | 18 | 134 | 7,81 | 1,15 | 18,8 | 147 | 102 | 121 | 76 |
| HE 220 B | 71,5 | 220 | 220 | 9,5 | 16 | 18 | 152 | 9,1 | 1,27 | 17,8 | 139 | 96 | 115 | 72 |
| HE 240 B | 83,2 | 240 | 240 | 10 | 17 | 21 | 164 | 10,6 | 1,38 | 16,6 | 130 | 90 | 107 | 67 |
| HE 260 B | 93 | 260 | 260 | 10 | 17,5 | 24 | 177 | 11,8 | 1,5 | 16,1 | 126 | 87 | 104 | 65 |
| HE 280 B | 103 | 280 | 280 | 10,5 | 18 | 24 | 196 | 13,1 | 1,62 | 15,7 | 123 | 85 | 102 | 63 |
| HE 300 B | 117 | 300 | 300 | 11 | 19 | 27 | 208 | 14,9 | 1,73 | 14,8 | 116 | 80 | 95 | 60 |
| HE 320 B | 127 | 320 | 300 | 11,5 | 20,5 | 27 | 225 | 16,1 | 1,77 | 13,9 | 109 | 76 | 91 | 58 |
| HE 340 B | 134 | 340 | 300 | 12 | 21,5 | 27 | 243 | 17,1 | 1,81 | 13,4 | 105 | 74 | 88 | 57 |
| HE 360 B | 142 | 360 | 300 | 12,5 | 22,5 | 27 | 261 | 18,1 | 1,85 | 13 | 102 | 73 | 85 | 56 |
| HE 400 B | 155 | 400 | 300 | 13,5 | 24 | 27 | 298 | 19,8 | 1,93 | 12,4 | 97 | 70 | 82 | 55 |
| HE 450 B | 171 | 450 | 300 | 14 | 26 | 27 | 344 | 21,8 | 2,03 | 11,8 | 91 | 68 | 77 | 55 |
| HE 500 B | 187 | 500 | 300 | 14,5 | 28 | 27 | 390 | 23,9 | 2,12 | 11,4 | 88 | 67 | 76 | 54 |
| HE 550 B | 199 | 550 | 300 | 15 | 29 | 27 | 438 | 25,4 | 2,22 | 11,2 | 87 | 66 | 75 | 55 |
| HE 600 B | 212 | 600 | 300 | 15,5 | 30 | 27 | 486 | 27 | 2,32 | 11 | 85 | 66 | 74 | 55 |
| HE 650 B | 225 | 650 | 300 | 16 | 31 | 27 | 534 | 28,6 | 2,42 | 10,8 | 84 | 66 | 74 | 55 |
| HE 700 B | 241 | 700 | 300 | 17 | 32 | 27 | 582 | 30,6 | 2,52 | 10,5 | 82 | 65 | 72 | 55 |
| HE 800 B | 262 | 800 | 300 | 17,5 | 33 | 30 | 674 | 33,4 | 2,71 | 10,3 | 81 | 65 | 72 | 56 |
| HE 900 B | 291 | 900 | 300 | 18,5 | 35 | 30 | 770 | 37,1 | 2,91 | 10 | 78 | 64 | 70 | 56 |
| HE 1000 B | 314 | 1000 | 300 | 19 | 36 | 30 | 868 | 40 | 3,11 | 9,9 | 77 | 65 | 70 | 57 |

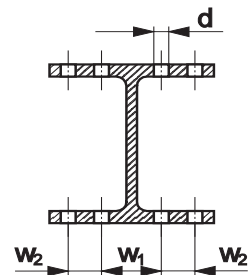
1) Når partier ved levering fra lager ikke blir veid, brukes ved fakturering konvensjonell handelsvekt som er ca 2% høyere enn tabellverdiene.

2) Avrundet nedover

Varmvalsede HE-B-bjelker

Dimensjoner etter EURONORM 53

Statistiske verdier iflg NS-EN 10 034



| Betegnelse | For bøyningsakse | | | | | | | | I_t mm ⁴ x10 ³ | I_w mm ⁶ x10 ⁹ | Flenshull | | | Klasser i.h.t NS-EN 1993-1-1 | | | |
|------------|--|---|-------------|---|--|---|-------------|---|--|--|-------------|-------------|---------|---------------------------------|------|------------|------|
| | y - y | | | | z - z | | | | | | Avstand | | Diam. | Bare bøyning y-y akse | | Bare trykk | |
| | I_y mm ⁴ x10 ⁶ | $W_{el,y}$ mm ³ x10 ³ | i_y mm | $W_{pl,y}$ mm ³ x10 ³ | I_z mm ⁴ x10 ⁶ | $W_{el,z}$ mm ³ x10 ³ | i_z mm | $W_{pl,z}$ mm ³ x10 ³ | | | w_1 mm | w_2 mm | d mm | S355 | S460 | S355 | S460 |
| | | | | | | | | | | | | | | | | | |
| HE 100 B | 4,5 | 88,9 | 41,6 | 104 | 1,67 | 33,5 | 25,3 | 50 | 92,9 | 3,375 | 56 | - | 13 | 1 | 1 | 1 | 1 |
| HE 120 B | 8,64 | 144 | 50,4 | 165 | 3,18 | 52,9 | 30,6 | 79,2 | 139 | 9,41 | 66 | - | 17 | 1 | 1 | 1 | 1 |
| HE 140 B | 15,1 | 216 | 59,3 | 246 | 5,5 | 78,5 | 35,8 | 118 | 201 | 22,48 | 76 | - | 21 | 1 | 1 | 1 | 1 |
| HE 160 B | 24,9 | 311 | 67,8 | 354 | 8,89 | 111 | 40,5 | 166 | 314 | 47,94 | 86 | - | 23 | 1 | 1 | 1 | 1 |
| HE 180 B | 38,3 | 426 | 76,6 | 482 | 13,6 | 151 | 45,7 | 227 | 423 | 93,75 | 100 | - | 25 | 1 | 1 | 1 | 1 |
| HE 200 B | 57 | 570 | 85,4 | 642 | 20 | 200 | 50,7 | 300 | 595 | 171,1 | 110 | - | 25 | 1 | 1 | 1 | 1 |
| HE 220 B | 80,9 | 736 | 94,3 | 828 | 28,4 | 258 | 55,9 | 387 | 768 | 295,4 | 120 | - | 25 | 1 | 1 | 1 | 1 |
| HE 240 B | 112,6 | 938 | 103 | 1054 | 39,2 | 327 | 60,8 | 490 | 1030 | 486,9 | 96 | 35 | 25 | 1 | 1 | 1 | 1 |
| HE 260 B | 149,2 | 1150 | 112 | 1282 | 51,3 | 395 | 65,8 | 592 | 1240 | 753,7 | 106 | 40 | 25 | 1 | 2 | 1 | 2 |
| HE 280 B | 192,7 | 1380 | 121 | 1534 | 65,9 | 471 | 70,9 | 706 | 1440 | 1130 | 110 | 45 | 25 | 1 | 2 | 1 | 2 |
| HE 300 B | 251,7 | 1680 | 130 | 1868 | 85,6 | 571 | 75,8 | 855 | 1860 | 1688 | 120 | 45 | 28 | 1 | 3 | 1 | 3 |
| HE 320 B | 308,2 | 1930 | 138 | 2140 | 92,4 | 616 | 75,7 | 923 | 2260 | 2069 | 120 | 45 | 28 | 1 | 2 | 1 | 2 |
| HE 340 B | 366,6 | 2160 | 146 | 2400 | 96,9 | 646 | 75,3 | 968 | 2580 | 2454 | 120 | 45 | 28 | 1 | 1 | 1 | 1 |
| HE 360 B | 431,9 | 2400 | 155 | 2680 | 101,4 | 676 | 74,9 | 1013 | 2930 | 2883 | 120 | 45 | 28 | 1 | 1 | 1 | 1 |
| HE 400 B | 576,8 | 2880 | 171 | 3240 | 108,2 | 721 | 74 | 1080 | 3570 | 3817 | 120 | 45 | 28 | 1 | 1 | 1 | 1 |
| HE 450 B | 798,9 | 3550 | 191 | 3980 | 117,2 | 781 | 73,3 | 1170 | 4420 | 5258 | 120 | 45 | 28 | 1 | 1 | 1 | 2 |
| HE 500 B | 1072 | 4290 | 212 | 4820 | 126,2 | 842 | 72,7 | 1260 | 5400 | 7018 | 120 | 45 | 28 | 1 | 1 | 2 | 2 |
| HE 550 B | 1367 | 4970 | 232 | 5600 | 130,8 | 872 | 71,7 | 1305 | 6020 | 8856 | 120 | 45 | 28 | 1 | 1 | 2 | 3 |
| HE 600 B | 1710 | 5700 | 252 | 6420 | 135,3 | 902 | 70,8 | 1350 | 6690 | 10965 | 120 | 45 | 28 | 1 | 1 | 3 | 4 |
| HE 650 B | 2106 | 6480 | 271 | 7320 | 139,8 | 932 | 69,9 | 1395 | 7410 | 13363 | 120 | 45 | 28 | 1 | 1 | 3 | 4 |
| HE 700 B | 2569 | 7340 | 290 | 8320 | 144,4 | 963 | 68,7 | 1440 | 8330 | 16064 | 126 | 45 | 28 | 1 | 1 | 4 | 4 |
| HE 800 B | 3591 | 8980 | 328 | 10220 | 149 | 994 | 66,8 | 1485 | 9490 | 21840 | 130 | 40 | 28 | 1 | 1 | 4 | 4 |
| HE 900 B | 4941 | 10980 | 365 | 12580 | 158,2 | 1050 | 65,3 | 1575 | 11400 | 29461 | 130 | 40 | 28 | 1 | 1 | 4 | 4 |
| HE 1000 B | 6447 | 12890 | 401 | 14860 | 162,8 | 1090 | 63,8 | 1620 | 12600 | 37637 | 130 | 40 | 28 | 1 | 1 | 4 | 4 |

I = annet arealmoment

W_{el} = tverrsnittsmodul

i = treghetsradius

I_w = hvelvingsmotstand

I_t = annet arealmoment for torsjon

W_{pl} = plastisk tverrsnittsmodul

Comparison Table for Point Load on Offshore Grating Steel Grade S235

| Bearing bar grating | Free span (bearing bar) | | | | | | | | |
|------------------------|-------------------------|-------|-------|------|-------|------|------|------|------|
| | Loading | 600 | 750 | 900 | 1050 | 1200 | 1350 | 1500 | 1650 |
| 25/5 S235 | D1 | 1,7 | 1,34 | 1,03 | 0,76 | 0,58 | 0,46 | 0,37 | 0,31 |
| | D2 | 3,19 | 2,46 | 1,79 | 1,3 | 0,99 | 0,78 | 0,63 | 0,52 |
| | D3 | 5,02 | 3,76 | 2,6 | 1,88 | 1,43 | 1,12 | 0,9 | 0,75 |
| 30/5 S235 | D1 | 2,55 | 2 | 1,65 | 1,38 | 1,06 | 0,84 | 0,68 | 0,56 |
| | D2 | 4,79 | 3,68 | 2,99 | 2,4 | 1,83 | 1,44 | 1,17 | 0,96 |
| | D3 | 7,53 | 5,65 | 4,52 | 3,47 | 2,63 | 2,07 | 1,67 | 1,37 |
| 35/5 S235 | D1 | 3,54 | 2,78 | 2,29 | 1,95 | 1,69 | 1,38 | 1,12 | 0,92 |
| | D2 | 6,69 | 5,15 | 4,18 | 3,52 | 3,03 | 2,39 | 1,93 | 1,59 |
| | D3 | 10,54 | 7,9 | 6,32 | 5,27 | 4,37 | 3,43 | 2,76 | 2,28 |
| 50/5 S235 | D1 | 7,45 | 5,85 | 4,82 | 4,1 | 3,56 | 3,15 | 2,83 | 2,56 |
| | D2 | 14,22 | 10,94 | 8,89 | 7,49 | 6,46 | 5,69 | 5,08 | 4,59 |
| | D3 | 22,5 | 16,88 | 13,5 | 11,25 | 9,64 | 8,44 | 7,5 | 6,75 |

D1: 100x100

D2: 200x200

D3: 300x300

* Loading is based on max load each (D1)100x100, (D2)200x200 or (D3)300x300

* Based on L/200 or max deflection 10mm. NTJ suggest to use loading with max deflection not bigger than 4mm, but this will give a much bigger reduction for the load!

* 1kN = 100 kg.

* Material/steel quality is S235

* c/c for grating type TR-OSPss is 28,2x101,6mm, and it has serrated cross bar.

* Cells marked whit shades, is not recommended for ordinary use!

IMPORTANT: This calculation is absolutely MAX load's with **safety/breaking factor = 1** and this is to be used as an indication.

We **DO NOT GUARANTEE** the correctness of the results or information given in this table!

Comparison Table for Point Load on Offshore Grating Steel Grade S355

| Bearing bar grating | Free span (bearing bar) | | | | | | | | |
|------------------------|-------------------------|-------|-------|-------|-------|-------|-------|------|------|
| | Loading | 600 | 750 | 900 | 1050 | 1200 | 1350 | 1500 | 1650 |
| 25/5 S355 | D1 | 2,33 | 1,49 | 1,03 | 0,76 | 0,58 | 0,46 | 0,37 | 0,31 |
| | D2 | 4,14 | 2,6 | 1,79 | 1,3 | 0,99 | 0,78 | 0,63 | 0,52 |
| | D3 | 6,23 | 3,83 | 2,6 | 1,88 | 1,43 | 1,12 | 0,9 | 0,75 |
| 30/5 S355 | D1 | 3,85 | 2,73 | 1,89 | 1,38 | 1,06 | 0,84 | 0,68 | 0,56 |
| | D2 | 7,23 | 4,78 | 3,29 | 2,4 | 1,83 | 1,44 | 1,17 | 0,96 |
| | D3 | 11,38 | 7,05 | 4,79 | 3,47 | 2,63 | 2,07 | 1,67 | 1,37 |
| 35/5 S355 | D1 | 5,35 | 4,2 | 3,11 | 2,28 | 1,75 | 1,38 | 1,12 | 0,92 |
| | D2 | 10,11 | 7,77 | 5,44 | 3,97 | 3,03 | 2,39 | 1,93 | 1,59 |
| | D3 | 15,92 | 11,69 | 7,94 | 5,75 | 4,37 | 3,43 | 2,76 | 2,28 |
| 50/5 S355 | D1 | 11,26 | 8,84 | 7,28 | 6,19 | 5,38 | 4,26 | 3,45 | 2,85 |
| | D2 | 21,49 | 16,53 | 13,43 | 11,31 | 9,46 | 7,45 | 6,03 | 4,97 |
| | D3 | 33,99 | 25,49 | 20,39 | 16,99 | 13,69 | 10,75 | 8,67 | 7,14 |

D1: 100x100

D2: 200x200

D3: 300x300

* Loading is based on max load each (D1)100x100, (D2)200x200 or (D3)300x300

* Based on L/200 or max deflection 10mm. NTJ suggest to use loading with max deflection not bigger than 4mm, but this will give a much bigger reduction for the load!

* 1kN = 100 kg.

* Material/steel quality is S355

* c/c for grating type TR-OSPss is 38,2x101,6mm, and it has serrated cross bar.

* Cells marked whit shades, is not recommended for ordinary use!

IMPORTANT: This calculation is absolutely MAX load's with **safety/breaking factor = 1** and this is to be used as an indication.

We **DO NOT GUARANTEE** the correctness of the results or information given in this table!

Tynnplater stål

| KALDVALSEDE | | | | | | |
|--------------------------------------|------------------------|--------------------------|------|--------|------|-------------|
| TREKKEGENSKAPER | BETEGNELSE | TIDLIGERE BETEGNELSER | | | | |
| | NS-EN 10130 2006 | NS-EN 10130 1991 | SS | DIN | BS | USA ASTM |
| Enklere pressing, knekking | DC 01 | Fe P01 | 1142 | St. 12 | Cr 4 | A 366 |
| Dyppressingskvalitet | DC 03 | Fe P03 | 1146 | St. 13 | Cr 2 | |
| Større krav til dyppressing | DC 04 | Fe P04 | 1147 | St. 14 | Cr 1 | |
| Overflatekvalitet | | | | | | |
| Handelsoverflate (små feil tillates) | A | A | 32 | 03 | GP | GP |
| Beste overflate (1 side feilfri) | B | B | 42 | 05 | FF | FF |
| Overflateutseende | Symbol | Overflatejevnhhet | | | | |
| Blank | b | Ra ≤ 4 µm | | | | |
| Halvblank | g | Ra ≤ 9 µm | | | | |
| Normal | m | 0,6 µm < Ra ≤ 1,9 µm | | | | |
| Rå | r | Ra > 1,6 µm | | | | |

| VARMGALVANISERTE | | | | |
|-------------------------------------|---------------------|-----------------------|---------------------|------------------------------|
| TREKKEGENSKAPER | BETEGNELSE | TIDLIGERE BETEGNELSER | | SINKBELEGG |
| | NS-EN 10327 2004 | NS-EN 10142 1995 | NS-EN 10142 1990 | |
| Handelskvalitet | Dx51D+Z275 | Dx51D+Z275 | FeP02GZ275 | 275 g/m ² 2 sider |
| Dyppressingskvalitet | Dx54D+Z275 | Dx54D+Z275 | FeP02GZ275 | 275 g/m ² 2 sider |
| Overflateutførelse | Symbol | | | |
| Normalt rosemønster, ettervalset | N | | | |
| Redusert rosemønster (småmønstreet) | M | | | |

| ELEKTROLYTISK GALVANISERTE | | | | |
|----------------------------|---------------------|-----------------------|--|-----------------|
| TREKKEGENSKAPER | NY BETEGNELSE | TIDLIGERE BETEGNELSER | | SINKBELEGG |
| | NS-EN 10152 2003 | 1994 | | |
| Handelskvalitet | DC01+ZE 25/25 AP | FeP01ZE 25/25 AP | | 2,5 µ pr 1 side |
| Dyptrekkskvalitet | DC04+ZE 25/25 AP | FeP04ZE 25/25 AP | | 2,5 µ pr 1 side |
| Overflateutførelse | | | | |
| - Handelsoverflate | A | | | |
| - Fosfatert | P | | | |

| ALUZINK, ALUMINIUM OG SINKBELAGTE | | | | |
|-----------------------------------|------------------------------|-----------------------|---------------------------------|------------------------------|
| TREKKEGENSKAPER | NY BETEGNELSE | TIDLIGERE BETEGNELSER | | SSAB ALUZINK |
| | NS-EN 10327 2004 | NS-EN 10215 1995 | | |
| - Handelskvalitet | Dx51D+AZ | Dx51D+AZ | FeP01AZ150 | B 500 |
| - Dyptrekkskvalitet | Dx54D+AZ | Dx54D+AZ | FeP06AZ150 | F36 A |
| Belegg sink og aluminium | 185 g/m ² 2 sider | | 150 g/m ² på 2 sider | 150 g/m ² 2 sider |
| FARGEBELAGTE | Betegnelse | Belegg | | |
| Prelaq, slette | Handelskvalitet Plastisol | 175 µ pr 1 side | | |
| Prelaq med lærpreg | Handelskvalitet Plastisol | 200 µ pr 1 side | | |
| Prelaq Green coat | Handelskvalitet Polyester | 36 µ pr 1 side | | |
| Colorcoat HPS | Handelskvalitet Plastisol | 200 µ pr 1 side | | |

| MATERIAL DATA SHEET MDS S01 Rev. 5 | | | | |
|--|---|-------|--------------------|-------------|
| TYPE OF MATERIAL: Austenitic Stainless Steel, Type 316 | | | | |
| PRODUCT | STANDARD | GRADE | ACCEPT. CLASS | SUPPL. REQ. |
| Wrought fittings | ASTM A 403 | WP316 | W/S/WX | - |
| Welded pipes | ASTM A 358 | 316 | Class 1, 3, 4 or 5 | - |
| Seaml. & welded pipe | ASTM A 312 | TP316 | - | - |
| Forgings | ASTM A 182 | F316 | - | - |
| Plates | ASTM A 240 | 316 | - | - |
| Tubes | ASTM A 269 | 316 | - | - |
| Bars | ASTM A 479 | 316 | - | - |
| SCOPE | This MDS specifies the selected options in the referred standard and additional requirements which shall be added or supersede the corresponding requirements on the referred standard. | | | |
| MANUFACTURING PROCESS | Fittings and forgings: During heat treatment components shall be placed in such a way as to ensure free circulation around each component during the heat treatment process including possible quenching operation. | | | |
| CHEMICAL COMPOSITION | All products: C ≤ 0,035% Welded pipes and plates to A 240: S ≤ 0,015% | | | |
| TENSILE TESTING | Grade 316L is acceptable with: $R_{p0.2} \geq 205$ MPa; $R_M \geq 515$ MPa; A > 35% | | | |
| TEST SAMPLING | <p>Samples for production testing shall realistically reflect the properties in the actual component.</p> <p>Plates: Tensile test specimens shall be sampled in transverse direction and shall be located in mid-thickness for thickness (t) ≤ 40 mm and in location t/4 for thicknesses (t) > 40 mm. ref. ASTM E 8.</p> <p>Bars A479: Test location shall be:</p> <ul style="list-style-type: none"> - For bars having section thickness, T ≤ 50 mm, the test specimens shall be taken in longitudinal direction at mid thickness and its mid length shall be at least 50 mm from any second surface. - For bars having section thickness, T > 50 mm, the test specimen shall be taken in longitudinal direction at least 1/4 T from the nearest surface and at least T or 100 mm, whichever is less, from any second surface. | | | |
| NON DESTRUCTIVE TESTING | Welded tubes to A 269: Non-destructive electric testing is required All products: NDT operators shall be qualified in accordance with ISO 9712 or equivalent. | | | |
| SURFACE FINISH | All products: White pickled or bright annealed. Machined surfaces do not require pickling. Tubes to A 269: According to the standard. | | | |
| REPAIR OF DEFECTS | Weld repair of base material is not acceptable. | | | |
| MARKING | The product shall be marked to ensure full traceability to melt and heat treatment lot. | | | |
| CERTIFICATION | <p>The material manufacturer shall have a quality system certified in accordance with ISO 9001 and the system shall have undergone a specific assessment for the relevant materials.</p> <p>The material certificate shall be issued in accordance with EN 10204 Type 3.1, and shall include the heat treatment condition.</p> | | | |

| Material Data Sheet | | MDS – D35 | | Rev. 01 |
|--|---|--------------------------|----------------------|--------------------|
| TYPE OF MATERIAL: Ferritic/Austenitic stainless steel, type lean duplex | | | | Page 1 of 1 |
| PRODUCT | STANDARD | GRADE | ACCEPT. CLASS | SUPPL. REQ. |
| Plates, coil, and strip | ASTM A 240 | UNS S32003 UNS S32304 | | S1 |
| 1. Scope | This MDS specifies the selected options in the referred standard and additional requirements which shall be added or supersede the corresponding requirements in the referred standard. Other UNS numbers may be proposed subject to written acceptance. | | | |
| 2. Steel Making | The steel melt shall be refined with AOD or equivalent. | | | |
| 3. Heat Treatment | Solution annealing followed by water quenching. Alternatively, for coils, solution annealing followed by a cooling method sufficiently rapid to avoid intermetallic phases and precipitates (e.g. air cooling). Plates shall be placed in such a way as to ensure free circulation of heating and cooling media around each plate during the heat treatment process including quenching. | | | |
| 4. Chemical Composition | PRE (% Cr + 3.3% Mo + 16% N) ≥ 28.0 | | | |
| 5. Tensile Properties | R _{p0.2} ≥ 450 MPa | | | |
| 5. Micrographic Examination | The test specimen shall cover the near surfaces and mid-thickness area. The specimen shall be suitably etched. The ferrite content shall be determined by point counting according to ASTM E 562 or by image analysis according to ASTM E 1245. The relative accuracy shall be less than 20 %. The ferrite content shall be within 35 – 55 %. The microstructure shall be examined and shall be free from detrimental intermetallic phases and precipitations at 400 to 500 X magnification. | | | |
| 6. Impact Testing | Charpy V-notch testing according to ASTM A370 at -46°C is required for thickness ≥ 6 mm. The minimum absorbed energy shall be 45J average and 35J single. Reduction factors for sub-size specimens shall be: 7.5mm – 5/6 and 5mm – 2/3. | | | |
| 7. Extent of Testing | Impact test, tensile test, hardness test and micrographic examination shall be carried out for each heat, nominal thickness and heat treatment load. For heat treatment in continuous furnace a heat treatment load is defined as all plates heat treated continuously in the same furnace, of the same heat and nominal thickness. | | | |
| 8. Test Sampling | Samples for production testing shall realistically reflect the properties in the actual components. Tensile test specimens shall be sampled from mid-thickness position in transverse direction, ref. ASTM E8. Impact specimens shall be sampled from mid-thickness position in transverse direction. For coils, a complete set of tests shall be carried out at both ends of the coil. | | | |
| 9. Surface Finish | White pickled. | | | |
| 10. Repair of Defects | Weld repair is not acceptable | | | |
| 11. Dimensional Tolerances | Tolerances for plates: - Thickness tolerances according to EN10029 Class B. - Flatness tolerances according to EN10029 Class N. | | | |
| 12. Marking | The component shall be marked to ensure full traceability to melt and heat treatment lot. | | | |
| 13. Certification | The material manufacturer shall have a quality system certified in accordance with ISO 9001 and the system shall have undergone a specific assessment for the relevant materials. The material certificate shall be in accordance with EN 10204 Type 3.1, and shall include the following information: - Steel manufacturer, melting and refining practice. - Heat treatment condition. Solution annealing temp. and holding time shall be stated. | | | |

MATERIAL DATA SHEET MDS D45 Rev. 5

TYPE OF MATERIAL: Ferritic / Austenitic Stainless Steel, Type 22Cr duplex

| PRODUCT | STANDARD | GRADE | ACCEPT. CLASS | SUPPL. REQ. |
|--------------------------|---|--------------------------|---------------|-------------|
| Plates | AS T M A 240 | UNS S31803 UNS S32205 | - | S1 |
| SCOPE | This MDS specifies the selected options in the referred standard and additional requirements which shall be added or supersede the corresponding requirements in the referred standard. | | | |
| QUALIFICATION | Manufacturers and the manufacturing process used for manufacturing of product to this MDS shall be qualified in accordance with NORSOK Standard M-650 . | | | |
| MANUFACTURING PROCESS | The manufacturing of products according to this MDS shall be carried out according to the M-650 qualified Manufacturing Procedure. | | | |
| STEEL MAKING | The steel melt shall be refined with AOD or equivalent. | | | |
| HEAT TREATMENT | The plates shall be solution annealed followed by water quenching. Plates shall be placed in such a way as to ensure free circulation of heating and cooling media around each plate during the heat treatment process including quenching | | | |
| CHEMICAL COMPOSITION | UNS S 31803: N = 0, 14 - 0,20 % | | | |
| MICROGRAPHIC EXAMINATION | <p><i>General</i> The test specimen shall cover the near surfaces and mid-thickness area. The specimen shall be polished and etched in 20 % NaOH etching solution or another etching agent qualified by the M-650 qualification program.</p> <p><i>Intermetallic phases and nitride precipitates</i> The microstructure shall be examined and shall be free from detrimental intermetallic phases and precipitations at 400 to 500 X magnification. Any presence of intermetallic phases and/or precipitates shall be reported. In case intermetallic phases and/or precipitations are detected the acceptance of product shall be based upon the corrosion and Charpy V-notch test results.</p> <p><i>Ferrite content</i> The ferrite content shall be determined by point counting according to ASTM E 562 or by image analysis according to ASTM E 1245. The relative accuracy shall be less than 20 %. The ferrite content shall be within 35 - 55 %.</p> | | | |
| IMPACT TESTING | Charpy V-notch testing according to ASTM A 370 at - 46°C is required for the thickness ≥ 6 mm. The minimum absorbed energy shall be 45 J average and 35 J single. Reduction factors for sub-size specimens shall be: 7,5 mm - 5/6 and 5 mm - 2/3. | | | |
| CORROSION TEST | Corrosion test according to ASTM G 48 Method A is required. Test temperature shall be 25°C and the exposure time 24 hours. The test shall expose the external and internal surfaces and a cross section surface in full wall thickness. Cut edges shall be prepared according to ASTM G 48. The complete specimen shall be pickled before weighed and tested. Pickling may be performed for 5 minutes at 60°C in a solution of 20 % HNO ₃ + 5 % HF. The acceptance criteria are: - No pitting 20 X magnification. The weight loss shall be less than 4,0 g/m ² | | | |
| EXTENT OF TESTING | Impact test, tensile test, corrosion test, hardness test and micrographic examination shall be carried out for each heat, nominal thickness and heat treatment load. For heat treatment in continuous furnace a heat treatment load is defined as all plates heat treated continuously in the same furnace, of the same heat and nominal thickness. For coils a complete set of tests shall be carried out at both ends of the coil. | | | |
| TEST SAMPLING | Samples for production testing shall realistically reflect the properties in the actual components. Tensile test specimens shall be sampled in transverse direction and shall be located in midthickness for thickness (t) ≤ 40 mm and in location t/4 for thicknesses (t) > 40 mm, ref. ASTM E 8. Impact specimens shall be taken at mid-thickness position in transverse direction. For coils a complete set of tests shall be carried out at both ends of the coil. | | | |
| SURFACE FINISH | White pickled. | | | |
| REPAIR OF DEFECTS | Weld repair is not acceptable. | | | |
| MARKING | The component shall be marked to ensure full traceability to melt and heat treatment lot. | | | |
| CERTIFICATION | <p>The material manufacturer shall have a quality system certified in accordance with ISO 9001 and the system shall have undergone a specific assessment for the relevant materials.</p> <p>The material certificate shall be in accordance with EN 10204 Type 3.1, and shall include the following information:</p> <ul style="list-style-type: none"> - NORSOK M-650 Manufacturing Summary identification or QTR no. used; - steel manufacturer; - steel melting and refining practice; - heat treatment condition, solution annealing temperature, holding time and quench medium shall be stated. | | | |

| MATERIAL DATA SHEET MDS D55 Rev. 5 | | | | |
|---|---|--|---------------|------------|
| TYPE OF MATERIAL: Ferritic/Austenitic Stainless Steel, Type 25Cr duplex | | | | |
| PRODUCT | STANDARD | GRADE | ACCEPT. CLASS | SUPL. REQ. |
| Plates | AS T M A 240 | UNS S32550 UNS S32750 UNS S32760 | - | - |
| SCOPE | This MDS specifies the selected options in the referred standard and additional requirements which shall be added or supersede the corresponding requirements in the referred standard. This MDS is based on the mechanical properties of UNS S32760. | | | |
| QUALIFICATION | Manufacturers and the manufacturing process used for manufacturing of product to this MDS shall be qualified in accordance with NORSOK Standard M-650 . | | | |
| MANUFACTURING PROCESS | The manufacturing of products according to this MDS shall be carried out according to the M-650 qualified manufacturing procedure . | | | |
| STEEL MAKING | The steel melt shall be refined with AOD or equivalent. | | | |
| HEAT TREATMENT | Solution annealing followed by water quenching. Plates shall be placed in such a way as to ensure free circulation of heating and cooling media around each plate during the heat treatment process including quenching. | | | |
| CHEMICAL COMPOSITION | C ≤ 0,03 % PREN= (%Cr+ 3,3 % Mo+ 16 % N) ≥ 40,0 | | | |
| TENSILE TESTING | Rp ₀₂ ≥ 750MPa; A ≥ 25% | | | |
| MICROGRAPHIC EXAMINATION | <p><i>General:</i> The test specimen shall cover areas near both surfaces and mid thickness of the plate. The specimen shall be polished and etched in 20 % NaOH etching solution or another etching agent qualified by the M-650 qualification program.</p> <p><i>Intermetallic phases and precipitates :</i> The microstructure shall be examined and shall be free from detrimental intermetallic phases and at 400 to 500 X magnification. Any presence of intermetallic phases and/or precipitates shall be reported. In case intermetallic phases and/or precipitations are detected the acceptance of product shall be based upon the corrosion and Charpy V-notch test results.</p> <p><i>Ferrite content:</i> The ferrite content shall be determined by point counting according to ASTM E 562 or by image analysis according to ASTM E 1245. The relative accuracy shall be less than 20 %. The ferrite content shall be within 35 - 55 %.</p> | | | |
| IMPACT TESTING | Charpy V-notch testing according to ASTM A 370 at -46 °C is required for thickness ≥ 6 mm. The minimum absorbed energy shall be 45 J average 35 J single. Reduction factors for subsize specimens shall be: 7,5 mm - 5/6 and 5 mm - 2/3. | | | |
| CORROSION TEST | Corrosion test according to ASTM G 48 Method A is required. Test temperature shall be 50 °C and the exposure time 24 hours. The test shall expose both surfaces and a cross section in full wall thickness. Cut edges shall be prepared according to ASTM G 48. The complete specimen shall be pickled before being weighed and tested. Pickling may be performed for 5 minutes at 60°C in a solution of 20 % HNO ₃ + 5 % HF. The acceptance criteria are: - No pitting at 20 X magnification. - The weight loss shall be less than 4,0 g/m ² | | | |
| EXTENT OF TESTING | Impact test, tensile test, hardness test, corrosion test and micrographic examination shall be carried out for each heat, nominal thickness and heat treatment load. For heat treatment in continuous furnace a heat treatment load is defined as all plates heat treated continuously in the same furnace, of the same heat and nominal thickness. For coils a complete set of tests shall be carried out at both ends of the coil. | | | |
| TEST SAMPLING | Samples for production testing shall realistically reflect the properties in the actual components. Tensile test specimens shall be sampled in transverse direction and shall be located in midthickness for thickness (t) ≤ 40mm and in location t/4 for thicknesses (t) > 40 mm, ref. ASTM E 8. Impact specimens shall be taken from mid-thickness position in transverse direction For coils a complete set of tests shall be carried out at both ends of the coil. | | | |
| SURFACE FINISH | White pickled. | | | |
| REPAIR OF DEFECTS | Weld repair is not acceptable. | | | |
| MARKING | The component shall be marked to ensure full traceability to melt and heat treatment lot. | | | |
| CERTIFICATION | The material manufacturer shall have a quality system certified in accordance with ISO 9001 and the system shall have undergone a specific assessment for the relevant materials. The material certificate shall be in accordance with EN 10204 Type 3.1, and shall include the following information: - NORSOK M-650 Manufacturing Summary identification or QTR no. used; - steel manufacturer of the starting material; - steel melting practice and refining method; - heat treatment condition, solution annealing temperature, holding time and quench medium shall be stated. | | | |

| Material Data Sheet | | | | |
|---|---|--------------|----------------------|--------------------|
| NORSK STÅL MDS – YD36 | | | | REV. 01 |
| TYPE OF MATERIAL: FERRITIC/AUSTENITIC STAINLESS STEEL, TYPE LEAN DUPLEX | | | | |
| PRODUCT | STANDARD | GRADE | ACCEPT. CLASS | SUPPL. REQ. |
| Angle bars | ASTM A276 | UNS S32304 | - | - |
| | | | | Page 1 of 1 |
| 1. Scope | This MDS is applicable for hot rolled angle bars | | | |
| 2. Manufacturing Process | The manufacturing process used for angle bar production shall be documented. | | | |
| 3. Steel Making | The steel melt shall be refined with AOD | | | |
| 4. Heat Treatment | Solution annealing followed by water quenching. Alternatively, solution annealing followed by a cooling method (e.g. air cooling) satisfactory rapid to ensure no detrimental intermetallic phases. Bars shall not be bundled together during heat treatment but have sufficient spacing to allow convection of air. The cooling method shall be the same condition as used for the qualification testing. | | | |
| 5. Chemical Composition | PREN (%Cr + 3.3%Mo + 16%N) ≥ 28 | | | |
| 6. Impact Testing | Charpy V-notch testing is required according to ASTM A370 at -46°C. The minimum absorbed energy shall be 45J average and 35J single. Reduction factors for sub-size specimens shall be: 7.5mm -5/6 and 5mm – 2/3 | | | |
| 7. Micrographic Examination | The micrographic examination shall cover the near surfaces and mid-thickness area. The ferrite content shall be determined according to ASTM E562 or equivalent and shall be within 35%-55%. The microstructure, as examined at 400x to 500x magnification on a suitably etched specimen. | | | |
| 8. Extent of Testing | Impact test, tensile test, hardness test and micrographic examination shall be carried out for each heat, nominal thickness and heat treatment load. For heat treatment in continuous furnace a heat treatment load is defined as all angles heat treated continuously in the same furnace, of the same heat and nominal thickness. | | | |
| 9. Test Sampling | Samples for production testing shall realistically reflect the properties in the actual components. The sample shall be taken from mid-thickness. The axis of the notch on the impact test pieces should be longitudinal to the outside surface of the section. | | | |
| 10. Dimensional Tolerances | Tolerances shall be as follows: Angle bars to EN 10056 – 2 | | | |
| 11. Surface | White pickled and dull. No bright, shiny or polished surface. Surface quality according to EN 10088-3 | | | |
| 12. Repair of Defects | Weld repair is not acceptable | | | |
| 13. Marking | The component shall be marked to ensure full traceability to melt and heat treatment lot. | | | |
| 14. Certification | The material manufacturer shall have a quality system certified in accordance with ISO 9001 and the system shall have undergone a specific assessment for the relevant materials. The material certificate shall be in accordance with EN 10204 Type 3.1, and shall include the following information: - Steel manufacturer, melting and refining practice. - Heat treatment condition, including material temperature as well as cooling method. - PREN value - Reference to MDS No. YD36 - Reference to ASTM A484 minimum process annealing temperature 980°C | | | |

| Material Data Sheet | | MDS – YD37 | | Rev. 01 |
|--|--|--------------------------|----------------------|--------------------|
| TYPE OF MATERIAL: Ferritic/Austenitic stainless steel, type lean duplex | | | | Page 1 of 1 |
| PRODUCT | STANDARD | GRADE | ACCEPT. CLASS | SUPPL. REQ. |
| Angles and hollow sections | ASTM A240 | UNS S32003 UNS S32304 | | |
| 1. Scope | This MDS is applicable for both welded and cold worked sections and profiles. This MDS specifies the selected options in the referred standard and additional requirements which shall be added or supersede the corresponding requirements in the referred standard. | | | |
| 2. Steel Material | The steel material shall comply with MDS D35. | | | |
| 3. Forming | The sections shall be in the cold worked condition. The minimum bending radius shall be 2x the thickness. | | | |
| 4. Welding | The welding method shall include use of filler material. Welding procedures shall be established and qualified in accordance with NORSOK M-601 as specified for 22Cr duplex SS, with the following clarification: - Charpy V-notch test temperature shall be -46°C. | | | |
| 5. Non Destructive Testing (NDT) | The welded sections shall be 100% visually inspected. Acceptance criteria shall be according to ISO 5817, quality level C. Penetrant testing according to ASME V Article 6 shall be carried out on the complete weld area of 10% of the hollow sections after calibration. Acceptance criteria shall be according to ASME VIII, Div. 1 Appendix 8. NDT operators shall be qualified in accordance with ISO 9712 or equivalent. | | | |
| 6. Surface Finish | White pickled and dull. Not bright, shiny or polished surface. | | | |
| 7. Repair of Defects | Weld repair of base material is not acceptable. For repair of welds, the same requirements to qualification of WPS as for production welding shall apply. | | | |
| 8. Dimensional Tolerances | Tolerances shall be as follows: Hollow sections to EN 10219-2 Angle bar to EN10056-2 Flat bar to EN 10058 | | | |
| 9. Marking | The component shall be marked to ensure full traceability to melt and heat treatment lot. | | | |
| 10. Certification | EN 10204 type 3.1 material certificate of original plate material shall be attached. | | | |

Comparison Table Stainless Steel Chemical Composition

| Standard of Country | | | | | Chemical Composition | | | | | | | |
|---------------------|--------|--------------------|--------|------------|----------------------|--------|--------|-------|-------|-------------|-------------|-----------|
| USA | German | | UK | Japan | C Max | Si Max | Mn Max | P max | S Max | Ni | Cr | Mo |
| AISI | W-Nr | DIN KURZNAME | BS | JIS | | | | | | | | |
| 301 | 14310 | x12Cr Ni 177 | 301S21 | SUS 301 | 0.15 | 1 | 2 | 0.045 | 0.03 | 6.00-8.00 | 16.00-18.00 | - |
| 304 | 14301 | xDCr Ni 189 | 304S16 | SUS304 | 0.08 | 1 | 2 | 0.045 | 0.03 | 8.00-10.50 | 18.00-20.00 | - |
| 304L | 14306 | x3Cr Ni 89 | 304S12 | SUS 304L | 0.03 | 1 | 2 | 0.045 | 0.03 | 9.00-13.00 | 18.00-20.00 | - |
| 305 | 14303 | x5Cr Ni 1911 | 305S19 | SUS 305 | 0.12 | 1 | 2 | 0.045 | 0.03 | 10.50-13.00 | 17.00-19.00 | - |
| 310S | 14841 | x 15 Cr Ni Si 2520 | 310S24 | SUS 310S | 0.08 | 01.mai | 2 | 0.045 | 0.03 | 19.00-22.00 | 24.00-26.00 | - |
| 316 | 14401 | x15 Cr Ni Mo 1810 | 306S16 | SUS 316 | 0.08 | 1 | 2 | 0.045 | 0.03 | 10.00-14.00 | 16.00-18.00 | 2.00-3.00 |
| 316L | 14435 | x15 Cr Ni Mo 1812 | 306S12 | SUS 316 L | 0.03 | 1 | 2 | 0.045 | 0.03 | 12.00-15.00 | 16.00-18.00 | 2.00-3.00 |
| 430 | 14016 | x8Cr 17 | 430S17 | SUS 430 | 0.12 | 0.75 | 1 | 0.04 | 0.03 | 0.6 | 16.00-18.00 | - |
| 434 | 14113 | - | - | SUS 434 | 0.12 | 1 | 1 | 0.04 | 0.03 | 0.6 | 16.00-18.00 | 0.75-1.25 |
| 410 | 14006 | x10 Cr 13 | 410S21 | SUS 410 | 0.15 | 1 | 1 | 0.04 | 0.03 | 0.6 | 11.50-13.50 | - |
| 420 | 14021 | x 20 Cr 13 | 420S29 | SUS 420 J1 | 0.16-0.25 | 1 | 1 | 0.04 | 0.03 | 0.6 | 12.00-14.00 | - |
| 420 | 14034 | x 40 Cr 13 | 420S45 | SUS 420 J2 | 0.26 - 0.40 | 1 | 1 | 0.04 | 0.03 | 0.6 | 12.00-14.00 | - |

Comparison Table Stainless Steels Mechanical Properties

| Standard of Country | | | | | Mechanical Properties | | | | | | | |
|---------------------|--------|--------------------|--------|------------|-----------------------|-------------------|---------------------|------------|----------------|-----|----|-------------------|
| USA | German | | UK | Japan | Tensile test (min) | | | | Hardness (Max) | | | |
| AISI | W-Nr | DIN KURZNAME | BS | JIS | Y/S | T/S | | Elongation | HB | HRB | Hv | |
| | | | | | kg/mm ² | N/mm ² | kgf/mm ² | | | | | N/mm ² |
| 301 | 14310 | x12Cr Ni 177 | 301S21 | SUS 301 | 21 | 206 | 53 | 520 | 40 | 187 | 90 | 200 |
| 304 | 14301 | xDCr Ni 189 | 304S16 | SUS304 | 21 | 206 | 53 | 520 | 40 | 187 | 90 | 200 |
| 304L | 14306 | x3Cr Ni 89 | 304S12 | SUS 304L | 18 | 177 | 49 | 481 | 40 | 187 | 90 | 200 |
| 305 | 14303 | x5Cr Ni 1911 | 305S19 | SUS 305 | 18 | 177 | 49 | 481 | 40 | 187 | 90 | 200 |
| 310S | 14841 | x 15 Cr Ni Si 2520 | 310S24 | SUS 310S | 21 | 206 | 53 | 520 | 40 | 187 | 90 | 200 |
| 316 | 14401 | x15 Cr Ni Mo 1810 | 306S16 | SUS 316 | 21 | 206 | 53 | 520 | 40 | 187 | 90 | 200 |
| 316L | 14435 | x15 Cr Ni Mo 1812 | 306S12 | SUS 316 L | 18 | 177 | 49 | 481 | 40 | 187 | 90 | 200 |
| 430 | 14016 | x8Cr 17 | 430S17 | SUS 430 | 21 | 206 | 46 | 451 | 22 | 183 | 88 | 200 |
| 434 | 14113 | - | - | SUS 434 | 21 | 206 | 46 | 451 | 22 | 183 | 88 | 200 |
| 410 | 14006 | x10 Cr 13 | 410S21 | SUS 410 | 21 | 206 | 45 | 441 | 20 | 200 | 93 | 210 |
| 420 | 14021 | x 20 Cr 13 | 420S29 | SUS 420 J1 | 23 | 226 | 53 | 520 | 18 | 223 | 97 | 234 |
| 420 | 14034 | x 40 Cr 13 | 420S45 | SUS 420 J2 | 23 | 226 | 55 | 539 | 18 | 235 | 99 | 247 |

Comparison Table Stainless Steels

| U.S.A. | GERMANY | | FRANCE | JAPAN | ITALY | SWEDEN | U.K. | U.E. | SPAIN | RUSSIA |
|----------|-----------------------------------|----------------------------|---------------------|------------|-------------------|--------|------------------|-----------------------|-----------------------|------------------------------|
| AISI | DIN 17006 | W.N. 17007 | AFNOR | JIS | UNI | SIS | BSI | EURONORM | UNE | GOST |
| 201 | | | | SUS 201 | | | | | | |
| 301 | x 12 CrNi 17 7 | jan.10 | Z 12 CN 17-07 | SUS 301 | x 12 CrNi 1707 | 23 31 | 301S21 | x 12 CrNi 17 7 | x 12 CrNi 17-07 | |
| 302 | x 5 CrNi 18 7 | jan.19 | Z 10 CN 18-09 | SUS 302 | x 10 CrNi 1809 | 23 31 | 302S25 | x 10 CrNi 18 9 | x 10 CrNi 18-09 | 12KH18N9 |
| 303 | x 10 CrNiS 18 9 | 1.4305 | Z 10 CNF 18-09 | SUS 303 | x 10 CrNiS 1809 | 23 46 | 303S21 | x 10 CrNiS 18 9 | x 10 CrNiS 18-09 | |
| 303 Se | | | Z 10 CNF 18-09 | SUS 303 Se | x 10 CrNiS 1809 | | 303S41 | | x 10 CrNiS 18-09 | 12KH18N10E |
| 304 | x 5 CrNi 18 10 x 5 CrNi 18 12 | 1.4301 1.4303 | Z 6 CN 18-09 | SUS 304 | x 5 CrNi 1810 | 23 32 | 304S15 304S16 | x 6 CrNi 18 10 | x 6 CrNi 19-10 | 08KH18N10 06KH18N11 |
| 304 N | | | | SUS 304N1 | x 5 CrNiN 1810 | | | | | |
| 304 H | | | | SUS F 304H | x 8 CrNi 1910 | | | | x 6 CrNi 19-10 | |
| 304 L | x 2 CrNi 18 11 | 1.4306 | Z 2 CN 18-10 | SUS 304L | x 2 CrNi 1911 | 23 52 | 304S11 | x 3 CrNi 18 10 | x 2 CrNi 19-10 | 03KH18N11 |
| | x 2 CrNiN 18 10 | 1.4311 | Z 2 CN 18-10-Az | SUS 304LN | x 2 CrNiN 1811 | 23 71 | | | | |
| 305 | | | Z 8 CN 18-12 | SUS 305 | x 8 CrNi 1812 | 23 33 | 305S19 | x 8 CrNi 18 12 | x 8 CrNi 18-12 | |
| | | | Z 6 CNU 18-10 | SUS xM7 | | | | x 6 CrNiCu 18 10 4 Kd | | |
| 309 | x 15 CrNiSi 20 12 | 1.4828 | Z 15 CN 24-13 | SUH 309 | x 16 CrNi 2314 | | 309S24 | x 15 CrNi 23 13 | | |
| 309 S | | | | SUS 309S | x 6 CrNi 2314 | | | x 6 CrNi 22 13 | | |
| 310 | x 12 CrNi 25 21 | 1.4845 | | SUH 310 | x 22 CrNi 2520 | | 310S24 | | | 20KH23N18 |
| 310 S | x 12 CrNi 25 20 | 1.4842 | Z 12 CN 25-20 | SUS 310S | x 5 CrNi 2520 | 23 61 | | x 6 CrNi 25 20 | | 10KH23N18 |
| 314 | x 15 CrNiSi 25 20 | 1.4841 | Z 12 CNS 25-20 | | x 16 CrNiSi 2520 | | | x 15 CrNiSi 25 20 | | 20KH25N20S2 |
| 316 | x 5 CrNiMo 17 12 2 | 1.4401 | Z 6 CND 17-11 | SUS 316 | x 5 CrNiMo 1712 | 23 47 | 316S31 | x 6 CrNiMo 17 12 2 | x 6 CrNiMo 17-12-03 | |
| 316 | x 5 CrNiMo 17 13 3 | 1.4436 | Z 6 CND 17-12 | SUS 316 | x 5 CrNiMo 1713 | 23 43 | 316S33 | x 6 CrNiMo 17 13 3 | x 6 CrNiMo 17-12-03 | |
| 316 F | x 12 CrNiMoS 18 11 | 1.4427 | | | | | | | | |
| 316 N | | | | SUS 316N | | | | | | |
| 316 H | | | | SUS F 316H | x 8 CrNiMo 1712 | | | | x 5 CrNiMo 17-12 | |
| 316 H | | | | | x 8 CrNiMo 1713 | | | | x 6 CrNiMo 17-12-03 | |
| 316 L | x 2 CrNiMo 17 13 2 | 1.4404 | Z 2 CND 17-12 | SUS 316L | x 2 CrNiMo 1712 | 23 48 | 316S11 | x 3 CrNiMo 17 12 2 | x 2 CrNiMo 17-12-03 | 03KH17N14M2 |
| | x 2 CrNiMoN 17 12 2 | 1.4406 | Z 2 CND 17-12-Az | SUS 316LN | x 2 CrNiMoN 1712 | | | | | |
| 316 L | x 2 CrNiMo 18 14 3 | 1.4435 | Z 2 CND 17-13 | | x 2 CrNiMo 1713 | 23 53 | 316S13 | x 3 CrNiMo 17 13 3 | x 2 CrNiMo 17-12-03 | 03KH16N15 m3 |
| | x 2 CrNiMoN 17 13 3 | 1.4429 | Z 2 CND 17-13-Az | | x 2 CrNiMoN 1713 | 23 75 | | | | |
| | x 6 CrNiMoTi 17 12 2 | 1.4571 | Z 6 CNDT 17-12 | | x 6 CrNiMoTi 1712 | 23 50 | 320S31 | x 6 CrNiMoTi 17 12 2 | x 6 CrNiMoTi 17-12-03 | 08KH17N13M2T 10KH17N13M2T |
| | x 10 CrNiMoTi 18 12 | 1.4573 | | | x 6 CrNiMoTi 1713 | | 320S33 | x 6 CrNiMoTi 17 13 3 | x 6 CrNiMoTi 17-12-03 | 08KH17N13M2T 10KH17N13M2T |
| | x 6 CrNiMoNb 17 12 2 | 1.4580 | Z 6 CNDNb 17-12 | | x 6 CrNiMoNb 1712 | | | x 6 CrNiMoNb 17 12 2 | | 08KH16N13M2B |
| | x 10 CrNiMoNb 18 12 | 1.4583 | | | x 6 CrNiMoNb 1713 | | | x 6 CrNiMoNb 17 13 3 | | 09KH16N15 m3B |
| 317 | | | | SUS 317 | x 5 CrNiMo 1815 | 23 66 | 317S16 | | | |
| 317 L | x 2 CrNiMo 18 16 4 | 1.4438 | Z 2 CND 19-15 | SUS 317L | x 2 CrNiMo 1815 | 23 67 | 317S12 | x 3 CrNiMo 18 16 4 | | |
| 317 L | x 2 CrNiMo 18 16 4 | 1.4438 | Z 2 CND 19-15 | SUS 317L | x 2 CrNiMo 1816 | 23 67 | 317S12 | x 3 CrNiMo 18 16 4 | | |
| 330 | x 12 NiCrSi 36 16 | jan.64 | Z 12NCS 35-16 | SUH 330 | | | | | | |
| 321 | x 6 CrNiTi 18 10 x 12 CrNiTi 18 9 | 1.4541 1.4878 | Z 6 CNT 18-10 | SUS 321 | x 6 CrNiTi 1811 | 23 37 | 321S31 | x 6 CrNiTi 18 10 | x 6 CrNiTi 18-11 | 08KH18N10T |
| 321 H | | | | SUS 321H | x 8 CrNiTi 1811 | | 321S20 | | x 7 CrNiTi 18-11 | 12KH18N10T |
| 329 | x 8 CrNiMo 27 5 | 1.4460 | | SUS 329J1 | | 23 24 | | | | |
| 347 | x 6 CrNiNb 18 10 | 1.4550 | Z 6 CNNb 18-10 | SUS 347 | x 6 CrNiNb 1811 | 23 38 | 347S31 | x 6 CrNiNb 18 10 | x 6 CrNiNb 18-11 | 08KH18N12B |
| 347 H | | | | SUS F 347H | x 8 CrNiNb 1811 | | | | x 7 CrNiNb 18-11 | |
| 904L | | 1.4939 | Z 12 CNDV 12-02 | | | | | | | |
| | | | | | | | | | | |
| | x 20 CrNiSi 25 4 | 1.4821 | | | | | | | | |
| UNS31803 | x 2 CrNiMoN 22 5 | 1.4462 | | | | | | | | |
| UNS32760 | x 3 CrNiMoN 25 7 | jan.01 | Z 3 CND 25-06Az | | | | | | | |
| 403 | x 6 Cr 13 x 10 Cr 13 x 15 Cr 13 | 1.4000 1.4006 1.4024 | Z 12 C 13 | SUS 403 | x 12 Cr 13 | 23 02 | 403S17 | x 10 Cr 13 x 12 Cr 13 | x 6 Cr 13 | 12Kh13 |
| 405 | x 6 CrAl 13 | 1.4002 | Z 6 CA 13 | SUS 405 | x 6 CrAl 13 | | 405S17 | x 6 CrAl 13 | x 6 CrAl 13 | |
| | x 10 CrAl 7 | 1.4713 | Z 8 CA 7 | | | | | x 10 CrAl 7 | | |
| | x 10 CrAl 13 | 1.4724 | | | x 10 CrAl 12 | | | | | 10Kh13SYu |
| | x 10 CrAl 18 | 1.4742 | | | | | | x 10 CrSiAl 18 | | 15Kh18SYu |
| 409 | x 6 CrTi 12 | 1.4512 | Z 6 CT 12 | SUH 409 | x 6 CrTi 12 | | 409S19 | x 5 CrTi 12 | | |
| | | | | | x 2 CrTi 12 | | | | | |
| 410 | x 6 Cr 13 x 10 Cr 13 x 15 Cr 13 | 1.4000 1.4006 1.4024 | Z 10 C 13 Z 12 C 13 | SUS 410 | x 12 Cr 13 | 23 02 | 410S21 | x 12 Cr 13 | x 12 Cr 13 | 12Kh13 |
| 410 S | x 6 Cr 13 | 1.4000 | Z 6 C 13 | SUS 410S | x 6 Cr 13 | 23 01 | 403S17 | x 6 Cr 13 | | 08Kh13 |
| 414 | | | | | | | | | | |

These are austenitic grades

These are ferritic-austenitic grades (otherwise known as Duplex and Superduplex)

These are ferritic grades



**Norges ledende
lagerholder og distributør
av stål, aluminium,
rustfritt og metaller!**

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| | | EN Standard | | Retningsgivende analyser | | | | | |
|--------------------------------------|--------------|-----------------------|---|--|-----------|-----------|-----------|-----------|-----------|
| | | NS EN 10 088 | | C max | Cr | Ni | Mo | Andre | |
| | | Nummer | Betegnelse | | | | | | |
| Generelt bruksområde vedr. korrosjon | Austenittisk | 1.4307 | x 2 Cr Ni 18-9 | 0,03 | 17,0-19,0 | 8,0-10,0 | - | - | |
| | | 1.4311 | x 2 Cr Ni N 18-10 | 0,03 | 17,0-19,0 | 8,0-11,0 | - | N | |
| | | 1.4301 | x 5 Cr Ni 18-10 | 0,05 | 17,0-19,0 | 8,0-10,0 | - | - | |
| | | 1.4541 | x 6 Cr Ni Ti 18-10 | 0,08 | 17,0-19,0 | 9,0-12,0 | - | Ti | |
| | | 1.4401 | x 5 Cr Ni Mo 17-12-2 | 0,05 | 16,5-18,5 | 10,0-13,0 | 2-2,5 | - | |
| | | 1.4404 | x 2 Cr Ni Mo 17-12-2 | 0,03 | 16,5-18,5 | 10,0-13,0 | 2-2,5 | - | |
| | | 1.4571 | x 6 Cr Ni Mo Ti 17-12-2 | 0,08 | 16,5-18,5 | 10,5-14,0 | 2-2,5 | Ti | |
| | | 1.4432 | x 2 Cr Ni Mo 17-12-3 | 0,03 | 16,5-18,0 | 10,5-13,0 | 2,5-3 | - | |
| | Duplex | 1.4162 | x 2 Cr Ni N 22-5-2 | 0,04 | 21,0-22,0 | 1,35-1,70 | 0,1-0,8 | Cu, N, Mn | |
| | | 1.4362 | x 2 Cr Ni N 23-4 | 0,03 | 23,0 | 4,0 | - | N | |
| 1.4460 | | x 3 Cr Ni Mo N 27-5-2 | 0,03 | 24,0-27,0 | 4,5-7,0 | 1,3-2,0 | N | | |
| Andre | 1.4418 | x 4 Cr Ni Mo 16-5-1 | 0,05 | 15,0-17,0 | 4,0-6,0 | 0,8-1,5 | - | | |
| Utsatt bruksområde vedr. korrosjon | Austenittisk | 1.4435 | x 2 Cr Ni Mo 18-4-3 | 0,03 | 17,0-19,0 | 12,5-15,0 | 2,5-3,0 | - | |
| | | 1.4429 | x 2 Cr Ni Mo N 17-13-3 | 0,03 | 16,5-18,5 | 9,5-13,0 | 2,5-3,0 | N | |
| | | 1.4436 | x 3 Cr Ni Mo 17-13-3 | 0,03 | 16,0-18,5 | 10,5-13,0 | 2,5-3,0 | - | |
| | | 1.4438 | x 2 Cr Ni Mo 18-15-4 | 0,03 | 17,5-19,5 | 13,5-17,0 | 3,0-4,0 | - | |
| | | 1.4539 | x 1 Ni Cr Mo Cu 25-20-5 | 0,02 | 19,0-21,0 | 24,0-26,0 | 4,0-5,0 | Cu | |
| | | 1.4547 | x 1 Cr Ni Mo Cu N 20-18-7 | 0,02 | 19,5-20,5 | 17,5-18,5 | 6,0-6,5 | Cu, N | |
| | Duplex | 1.4410 | x 2 Cr Ni Mo N 25-7-4 x 2 Cr Ni Mo N 22-5-3 | 0,03 | 24,0-26,0 | 6,0-8,0 | 3,0-4,5 | N | |
| | | 1.4462 | | 0,03 | 21,0-23,0 | 4,5-6,5 | 2,5-3,5 | N | |
| | Varmefast | Austenittisk | 1.4835 | x 9 Cr Ni Si N Ce 21-11-2 x 8 Cr Ni 25-21 *) | 0,12 | 20,0-22,0 | 10,0-12,0 | - | Si, N, Ce |
| | | | 1.4845 | | 0,08 | 24,0-26,0 | 19,0-22,0 | - | - |
| 1.4841 | | | x 15 Cr Ni Si 25-21 *) | 0,20 | 24,0-26,0 | 19,0-22,0 | - | - | |
| Automat | Austenittisk | 4305 | x 8 Cr Ni S 18-9 | 0,10 | 17,0-19,0 | 8,0-10,0 | 0,6 | S | |
| | | Duplex | UNS S32003 | 0,03 | 19,5-22,5 | 3,0-4,0 | 1,5-2,0 | N, Mn | |

Verdiene i tabellen er basert på tilgjengelige standarder, og ovennevnte opplysninger må betraktes som retningsgivende.

* EN 10 095

| | | Nasjonale rustfrie standarder | | | Mekaniske standarder | | | | Øvrige bemerkninger |
|--------------------------------------|--------------|--|--|--------------------------------------|--|--|--|--|--|
| | | Svensk SS | USA AISI (UNS) | Andre | Min. Re 0,2 N/mm | Rm N/mm | A5 % | Skalnings-temperatur | |
| Generelt bruksområde vedr. korrosjon | Austenittisk | 2352 2371 2333 2337 2347 2348 2350 2343 | 304 L 304 LN 304 321 316 316 L 316 Ti 316 L | - - - - - - - - | 190 270 210 210 220 210 220 200 | 480-680 550- 750 500-700 510-710 510-710 490- 690 510-710 500-700 | 40 35 40 35 40 40 35 30 | 850°C 850°C 850°C 850°C 850°C 850°C 850°C 850°C | Sveisbar Sveisbar Sveisbar Sveisbar Sveisbar Sveisbar Sveisbar Sveisbar |
| | Duplex | 2327 2324 | S32101 S 32304 329 | LDX2101 SAF2304 - | 450 400 450 | 650-800 600- 820 600-800 | 30 25 20 | 1000°C 1070°C | Sveisbar Sveisbar Sveisbar |
| | Andre | 2387 | - | - | 620 | 830-1030 | 15 | 850°C | Sveisbar |
| Utsatt bruksområde vedr. korrosjon | Austenittisk | 2353 2375 2343 2367 2562 2378 | 316 L 316 LN 316 317 L N 08904 S 31254 | - - - - 904 L 254 SOM | 210 290 220 220 220 300 | 490-690 580- 780 510-710 490-690 500- 750 650-850 | 40 35 40 35 35 35 | 850°C 850°C 850°C 850°C 1000°C 1000°C | Sveisbar Sveisbar Sveisbar Sveisbar Sveisbar (Sveisbar) |
| | Duplex | 2377 | S31803 | SAF2205 | 480 | 680-880 | 25 | - | (Sveisbar) |
| Varmefast | Austenittisk | 2361 - | 310 S - | - - | - 230 | max. 780 550-750 | - 28 | 1150°C 1150°C | Sveisbar Sveisbar |
| Automat | Austenittisk | 2346 | 303 | - | 210 | 490-780 | 35 | 850°C | Sveisbar |
| | Duplex | | 532003 | AT120030 | min. 450-485 | min. 655-695 | min. 25 | 1000°C | Sveisbar |

| MATERIAL DATA SHEET MDS M01 Rev. 1 | | | |
|--|---|--|---------------|
| TYPE OF MATERIAL: Aluminum alloys | | | |
| PRODUCT | STANDARD | ALLOY | TEMPER |
| Sheet , strip and plate for offshore structural applications | EN 485 | EN AW -5052 -5454 -5754 -5083 | - - |
| SCOPE | This MDS specifies the selected options in the referred standard and additional requirements which shall be added to or supersede the corresponding requirements in the referred standard. | | |
| CHEMICAL COMPOSITION | Chemical analysis shall be carried out for each melt and in accordance with EN 485-1. Iron content shall be modified to maximum 0,40 % Fe. | | |
| TENSILE TESTING | The minimum elongation shall be as specified in the standard , but not less than 8 % for thickness ≥ 2 mm. | | |
| NON DESTRUCTIVE TESTING | Visual inspection shall verify the surface finish and quality. | | |
| SURFACE FINISH | Surface defects shall not encroach on the minimum dimensions of the product and shall not exceed the following limitations: - for thickness 2-20 mm the maximum imperfection depth shall be 0,3 mm - for thickness > 20 mm the maximum imperfection depth shall be 0,5 mm The total area of defects shall not exceed 5 % of the surface. | | |
| REPAIR OF DEFECTS | Repair welding is not permitted. | | |
| MARKING | Identification marking shall be done for traceability with the certificate (ID no.) | | |
| CERTIFICATION | Inspection certificate to EN 10204 3.1 shall contain ID no. and all test results. | | |
| PACKING | Packing shall be such that, under usual transport conditions , the product condition complies with the standard and this MDS upon receipt. EN 485-1 shall be used as guidelines. | | |

MATERIAL DATA SHEET MDS M03 Rev. 1

TYPE OF MATERIAL: Aluminum alloys

| PRODUCT | STANDARD | ALLOY | TEMPER |
|--|---|-------------------------------|-----------------------------|
| Wrought products - extruded rod/bar , tube and profile . | EN 755 | EN AW-6005A -6063 -6082 | T6 T5/T6/T66 T4/T5/T6 |
| SCOPE | This MOS specifies the selected options in the referred standard and additional requirements which shall be added to or supersede the corresponding requirements in the referred standard. | | |
| CHEMICAL COMPOSITION | Chemical analysis shall be carried out for each melt and in accordance with EN 755-1. | | |
| DIMENSIONAL TOLERANCES | According to product standard/purchase order. | | |
| NON DESTRUCTIVE TESTING | Visual inspection shall verify the surface finish and quality. | | |
| SURFACE FINISH | Surface defects shall not encroach on the minimum dimensions of the product and shall not exceed the following limitations: - for thickness 2-20 mm the maximum imperfection depth shall be 0,3 mm - for thickness > 20 mm the maximum imperfection depth shall be 0,5 mm The total area of defects shall not exceed 5 % of the surface. | | |
| REPAIR OF DEFECTS | Unacceptable defects may be repaired to meet the requirements of this MDS. Repair welding is not permitted. | | |
| MARKING | Identification marking shall be done for traceability with the certificate (ID no.) | | |
| CERTIFICATION | Inspection certificate to EN 10204 3.1 shall contain ID no. and all test results. | | |
| PACKING | Packing shall be such that, under usual transport conditions, the product condition complies with the standard and this MDS upon receipt. EN 755-1 shall be used as guidelines. | | |

| TILSTANDBETEGNELSER | |
|----------------------------|--|
| Beregning etter EN | |
| | Leveringstilstand |
| F | Ubehandlet (som fabrikkert) |
| O | Mykgjødet |
| H12 | Kvarthard |
| H22 | Kvarthard, anløpt og avspenningsglødet |
| H14 | Halvhard |
| H24 | Halvhard, anløpt og avspenningsglødet |
| H16 | Trekvarthard |
| H26 | Trekvarthard, anløpt og avspenningsglødet |
| H18 | Hard |
| H28 | Hard, anløpt og avspenningsglødet |
| H32 | Kvarthard, stabilisert |
| H34 | Halvhard, stabilisert |
| H36 | Trekvarthard, stabilisert |
| H38 | Hard, stabilisert |
| T1 | Avkjølt fra varmebehandlingstemperatur og kaldutherdet |
| T3 | Innherdet, hardbearbeidet og kaldutherdet |
| T4 | Innherdet og kaldutherdet |
| T5 | Avkjølt fra varmebehandlingstemperatur og varmeutherdet |
| T6 | Innherdet og varmeutherdet |
| T8 | Innherdet, hardbearbeidet og varmeutherdet |
| T9 | Innherdet, varmeutherdet og hardbearbeidet |
| T10 | Avkjølt fra varmebehandlingstemperatur, varmetherdet og hardbearbeidet |
| H angir | kaldbearbeidet materiale |
| <u>1. siffer</u> | |
| H ₁ | Bare kaldbearbeidet |
| H ₂ | Kaldarbeidet og delvis tilbakeglødet (anløpt) |
| H ₃ | Kaldbearbeidet og stabilisert |
| <u>2. siffer</u> | Reduksjonsgrad siste valsestikk |
| -2 | 15-20% |
| -4 | 30-35% |
| -6 | 55 % |
| -8 | 75 % |
| -9 | 90 % |

Mekaniske minimumsverdier - Aluminium

| Legering | Tilstand Min. | Stekkfasthet RM N/mm ² Min. | Flytegrense RP0,2 N/mm ² Min. | Forlengelse A5 |
|----------|------------------|--|--|-------------------|
| 1050A | 0 | 65 | 20 | 35 |
| | H14 | 105 | 85 | 6 |
| 1200 | 0 | 70 | 25 | 35 |
| | H 14 | 115 | 95 | 6 |
| 5005 | H 34 | 145 | 110 | 5 |
| 5052 | H 22/ H 32 | 220 | 130 | 7 |
| | H 24 / H 34 | 230 | 150 | 6 |
| 5083 | H 116 / H 321 | 305 | 215 | 10 |
| 5754 | H 22 / H 32 | 220 | 130 | 10 |
| | H 14 | 240 | 190 | 4 |
| | H 24 / H 34 | 240 | 160 | 6 |
| 6060 | T 6 | 215 | 160 | 10 |
| 6082 | T 6 | 295 | 255 | 8 |

Mekaniske minimumsverdier - Skipsplater

DNV

| | 5754-H24/34 | 5083-H116/321 |
|------------------------|-----------------------|-----------------------|
| Strekfasthet Rm min | 240 N/mm ² | 305 N/mm ² |
| Flytegrense Rp0,2 min. | 165 N/mm ² | 215 N/mm ² |
| Forlengelse A5 % min. | 10 % | 10 % |

Kjemiske sammensetninger - Aluminium

| Legering EN AW | Si | Fe | Cu | Mn | Mg | Cr | Zn | Al |
|----------------|--------------|-----------|-------------|-----------|------------|-------------|------------|------|
| 1070A | 0,2 | 0,25 | 0,03 | 0,03 | 0,03 | - | 0,07 | 99,7 |
| 1050 A | 0,25 | 0,4 | 0,05 | 0,05 | 0,05 | - | 0,07 | 99,5 |
| 1350 | 0,1 | 0,4 | 0,05 | 0,01 | - | 0,01 | 0,05 | 99,5 |
| 1200 | 1,00 Si + Fe | | 0,05 | 0,05 | - | - | 0,1 | 99 |
| 3003 | 0,6 | 0,7 | 0,05 - 0,20 | 1,0 - 1,5 | - | - | 0,1 | Rest |
| 3105 | 0,6 | 0,7 | 0,3 | 0,3 - 0,8 | 0,2 - 0,8 | 0,2 | 0,4 | " |
| 5005 | 0,3 | 0,7 | 0,2 | 0,2 | 0,5 - 1,1 | 0,1 | 0,25 | " |
| 5052 | 0,25 | 0,4 | 0,1 | 0,1 | 2,2 - 2,8 | 0,15 - 0,35 | 0,1 | " |
| 5754 | 0,4 | 0,4 | 0,1 | 0,5 | 2,6 - 3,8 | 0,3 | 0,2 | " |
| 5083 | 0,4 | 0,4 | 0,1 | 0,4 - 1,0 | 4,0 - 4,9 | 0,05 - 0,25 | 0,25 | " |
| 6060 | 0,3 - 0,6 | 0,1 - 0,3 | 0,0 - 0,1 | 0,0 - 0,1 | 0,35 - 0,6 | 0,0 - 0,05 | 0,0 - 0,15 | " |
| 6082 | 0,7 - 1,3 | 0,0 - 0,5 | 0,0 - 0,1 | 0,4 - 1,0 | 0,6 - 1,2 | 0,0 - 0,25 | 0,0 - 0,25 | " |

Kaldvalsede plater - dimensjonstoleranser - EN 485-4

Tykkelsestoleranser

| Platetykkelse mm | | Tykkelsestoleranser for oppgitte bredde mm | | |
|---------------------|--------|---|-------------|-------------|
| over | t.o.m. | -1000 | 1001 - 1250 | 1251 - 1600 |
| | + 0,04 | + 0,06 | + 0,07 | |
| 0,6 | 0,8 | + 0,04 | + 0,07 | + 0,08 |
| 0,8 | 1,0 | + 0,05 | + 0,08 | + 0,09 |
| 1,0 | 1,2 | + 0,05 | + 0,09 | + 0,10 |
| 1,2 | 1,5 | + 0,07 | + 0,11 | + 0,12 |
| 1,5 | 1,8 | + 0,08 | + 0,12 | + 0,13 |
| 1,8 | 2,0 | + 0,09 | + 0,13 | + 0,14 |
| 2,0 | 2,5 | + 0,10 | + 0,14 | + 0,15 |
| 2,5 | 3,0 | + 0,11 | + 0,15 | + 0,17 |
| 3,0 | 3,5 | + 0,12 | + 0,17 | + 0,19 |
| 3,5 | 4,0 | + 0,15 | + 0,20 | + 0,22 |
| 4,0 | 5,0 | + 0,18 | + 0,22 | + 0,24 |
| 5,0 | 6,0 | + 0,20 | + 0,24 | + 0,25 |

Breddetoleranse

| Platetykkelse mm | | Lengdetol. for oppgitte lgd. mm | |
|---------------------|--------|------------------------------------|-----------|
| fra | t.o.m. | 501-1250 | 1251-2000 |
| 0,5 | 3,0 | -0 + 3 | -0 + 4 |
| 3,0 | 6,0 | -0 + 4 | -0 + 5 |

Lengdetoleranse

| Platetykkelse mm | | Lengdetol. For oppgitte lgd. mm | |
|---------------------|--------|------------------------------------|-------------|
| fra | t.o.m. | -1000 | 1001 - 2000 |
| 0,5 | 3,0 | -0 + 3 | -0 + 4 |
| 3,0 | 6,0 | -0 + 4 | -0 + 6 |

Varmvalsede plater - dimensjonstoleranser - EN 483-3

Tykkelsestoleranser

| Platetykkelse mm | | Tykkelsestoleranser for oppgitte bredde mm | | |
|---------------------|--------|---|------------|--|
| fra | t.o.m. | t.o.m 1250 | 1250 -1600 | |
| 8 | 10 | + 0,45 | + 0,50 | |
| 10 | 15 | + 0,50 | + 0,60 | |
| 15 | 20 | + 0,60 | + 0,70 | |
| 20 | 30 | + ,065 | + 0,75 | |

Bredde- og lengdetoleranse

| Platetykkelse mm | | Tykkelsestoleranser for oppgitt bredde og lengde mm | | | |
|---------------------|-------|--|-----------|-----------|-------------|
| fra | t.o.m | t.o.m. 1000 | 1001-2000 | 2001-3000 | 3001 t.o.m. |
| 8 | 12 | -0 + 6 | -0 + 8 | -0 + 10 | -0 + 12 |
| 12 | 30 | -0 + 7 | -0 + 9 | -0 + 12 | -0 + 14 |

Tekniske data metaller

| | Tilstand | Legeringselement % | | | | | |
|--------------------|----------|--------------------|-------|-------|------|----|----|
| | | Cu | Zn | Pb | Sn | SB | As |
| Loddetinn | | | | 50,00 | | | |
| RZ-sinplater | | 0,13 | 99,70 | | | | |
| Blyblokker | | | | 99,97 | | | |
| Kobberplate/bånd | Halvhard | 99,50 | | | | | |
| Kobberplate/bånd | Glødd | 99,50 | | | | | |
| Kobberskinner/bolt | Halvhard | 99,90 | | | | | |
| Messingplate | Halvhard | 63,00 | 37,00 | | | | |
| Messingbolt | Hard | 58,00 | 39,00 | 3,00 | | | |
| Fosforbronseplate | Fjærhard | 93,50 | | | 6,00 | | |
| Blyplate/bånd | | | | 99,90 | | | |

| | Strekkefasthet N/mm ² | | Rm- maks | Flytegrense N/mm ² | | Rp0,2- maks | Fortengelse A5 min. | Hardhet HV min. | Smeltepunkt °C | Egenvekt gr/cm ³ | Elektr. motstand mm ² /m | Norsk std. NS | Tysk std. DIN |
|--------------------|----------------------------------|-----|----------|-------------------------------|--|-------------|---------------------|-----------------|----------------|-----------------------------|-------------------------------------|---------------|---------------|
| | min. | | | min. | | | | | | | | | |
| Loddetinn | | 160 | | | | | | | | | | | |
| RZ-sinplater | | | | 120 | | | 30 | 40 | 418 | 7,2 | | | |
| Blyblokker | | | | | | | | | 327 | 11,3 | | | |
| Kobberplate/bånd | 240 | | 300 | 180 | | 250 | 8 | 65 | 1083 | 8,9 | | 16015 | |
| Kobberplate/bånd | 220 | | 260 | 40 | | 120 | 33 | 40 | 1083 | 8,9 | | 16015 | |
| Kobberskinner/bolt | 250 | | 290 | 180 | | 250 | 10 | 75 | 1083 | 8,9 | | | |
| Messingplate | 360 | | 440 | 240 | | 360 | 20 | 60 | 900 | 8,4 | | | |
| Messingbolt | 400 | | 550 | 160 | | 420 | 8-35 | 100 | 880 | 8,5 | | 16130 | CuZn39Pb3 |
| Fosforbronseplate | 670 | | 770 | 630 | | 730 | 5 | 200 | 950 | 8,8 | | 16306 | |
| Blyplate/bånd | | | | | | | | 5 | 327 | 11,3 | | | |

METALLISKE MATERIALER - INSPEKSJONSDOKUMENTER NS-EN 10 204 (UTDRAG AV NS-EN 10 204, BEARBEIDET AV NORSK STÅL AS)

| NS-EN 10 204 2. utgave 2005 Referanse | Type dokument Betegnelser | Dokument-type kontroll og prøving | Dokumentinnhold | Dokument gjort gyldig av |
|---|------------------------------|---|--|--|
| Type 2.1 | Verksattest | | Uten prøvningsresultater Erklæring/bekreftelse om samsvar med bestilling/ordre | Produsenten |
| Type 2.2 | Prøverapport | Kontrolldokumenter basert på ikke-spesifikk kontroll | Med prøvningsresultater Erklæring om samsvar med bestilling/ordre, med angivelse av prøvningsresultater fra ikke-spesifikk kontroll. Kontrollen behøver ikke nødvendigvis gjøres på produkter fra den aktuelle leveransen | Produsenten |
| Type 3.1 | Kontroll- sertifikat 3.1 | Kontrolldokumenter basert på spesifikk kontroll | Med prøvningsresultater Erklæring om samsvar med bestilling/ordre, med angivelse av prøvningsresultater fra spesifikk kontroll. | Produsentens autoriserte kontrollrepresentant som er uavhengig av produksjons- avdelingen |
| Type 3.2 | Kontroll- sertifikat 3.2 | | | Produsentens autoriserte kontrollrepresentant som er uavhengig av produksjons- avdelingen, og av enten kjøpers autoriserte kontrollrepresentant eller av kontrollør som er angitt i offentlige forskrifter |

Dokumentet ovenfor erstatter EN 10 204: 1991

Hovedendringene:

- Type 2.3 av den tidligere utgivelsen er fjernet
- Type 3.1 erstatter type 3.1.B av tidligere utgivelse
- Type 3.2 erstatter typene 3.1.A, 3.1.C og kontrollrapport 3.2 av tidligere utgivelse
- Nye definisjoner: "produsenter", "mellomledd", "produktspesifikasjon"

KORRESPONDERENDE BETEGNELSER AV TYPE DOKUMENT

| EN 10 204, 2.utg 2005 Referanse | Norsk versjon | Engelsk versjon | Tysk versjon | Fransk versjon |
|------------------------------------|---------------------------|---|------------------------|--|
| Type 2.1 | Verksattest | Declaration of compliance with the order | Werkssbescheinigung | Attestation de conformité à la commande |
| Type 2.2 | Prøverapport | Test report | Werkzeugeugnis | Relevé de contrôle |
| Type 3.1 | Kontrollsertifikat 3.1 | Inspection certificate 3.1 | Abnahmeprüfzeugnis 3.1 | Certificat de réception 3.1 |
| Type 3.2 | Kontrollsertifikat 3.2 | Inspection certificate 3.2 | Abnahmeprüfzeugnis 3.2 | Certificat de réception 3.2 |

Incoterms



| | | Seller | Carrier | Port | Ship | Port | Terminal | Named Place | Buyer |
|--------------------------------|-----|--|---------|------|------|------|----------|-------------|-------|
| All transport types | ExW | RISKS COSTS Ex Works | | | | | | | |
| | FCA | RISKS COSTS Free Carrier | | | | | | | |
| | CPT | RISKS COSTS Carriage Paid To | | | | | | | |
| | CIP | RISKS COSTS Carriage and Insurance Paid To | | | | | | | |
| | DAT | RISKS COSTS Delivered At Terminal | | | | | | | |
| | DAP | RISKS COSTS Delivered At Place | | | | | | | |
| | DDP | RISKS COSTS Delivered Duty Paid | | | | | | | |
| Sea and inland water transport | FAS | RISKS COSTS Free Alongside Ship | | | | | | | |
| | FOB | RISKS COSTS Free on Board | | | | | | | |
| | CFR | RISKS COSTS Cost and Freight | | | | | | | |
| | CIF | RISKS COSTS Cost, Insurance and Freight | | | | | | | |



Risks

The possibility that an event may occur which could cause loss or damage to the goods is a "risk". Buyers and/or sellers can protect themselves against risks by transport-insurance.



Costs

Covers all costs except costs of documents. Sales and purchase contracts should clearly state which costs on transfer of the goods are for account of buyer and/or seller.

INCOTERMS 2010 are internationally accepted commercial terms defining the respective roles of the buyer and seller in the arrangement of transportation and other responsibilities and clarify when the ownership of the merchandise takes place. They are used in conjunction with a sales agreement or other method of transacting the sale.

ExW - Ex Works -- Title and risk pass to buyer including payment of all transportation and insurance cost from the seller's door. Used for any mode of transportation.

FCA - Free Carrier -- Title and risk pass to buyer including transportation and insurance cost when the seller delivers goods cleared for export to the carrier. Seller is obligated to load the goods on the Buyer's collecting vehicle; it is the Buyer's obligation to receive the Seller's arriving vehicle unloaded.

FAS - Free alongside Ship -- Title and risk pass to buyer including payment of all transportation and insurance cost once delivered alongside ship by the seller. Used for sea or inland waterway transportation. The export clearance obligation rests with the seller.

FOB - Free On Board and risk pass to buyer including payment of all transportation and insurance cost once delivered on board the ship by the seller. Used for sea or inland waterway transportation.

CFR - Cost and Freight -- Title, risk and insurance cost pass to buyer when delivered on board the ship by seller who pays the transportation cost to the destination port. Used for sea or inland waterway transportation.

CIF - Cost, Insurance and Freight -- Title and risk pass to buyer when delivered on board the ship by seller who pays transportation and insurance cost to destination port. Used for sea or inland waterway transportation.

CPT - Carriage Paid to -- Title, risk and insurance cost pass to buyer when delivered to carrier by seller who pays transportation



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by the International Chamber of Commerce (ICC)

cost to destination. Used for any mode of transportation.

CIP - Carriage and Insurance Paid To -- Title and risk pass to buyer when delivered to carrier by seller who pays transportation and insurance cost to destination. Used for any mode of transportation.

DAF - Delivered at Frontier -- Title, risk and responsibility for import clearance pass to buyer when delivered to named border point by seller. Used for any mode of transportation.

DES - Delivered Ex Ship -- Title, risk, responsibility for vessel discharge and import clearance pass to buyer when seller delivers goods on board the ship to destination port. Used for sea or inland waterway transportation.

DEQ - Delivered Ex Quay (Duty Paid) -- Title and risk pass to buyer when delivered on board the ship at the destination point by the seller who delivers goods on dock at destination point cleared for import. Used for sea or inland waterway transportation.

DDU - Delivered Duty Unpaid -- Title, risk and responsibility of import clearance pass to buyer when seller delivers goods to named destination point. Used for any mode of transportation. Buyer is obligated for import clearance.

DDU - Delivered Duty Unpaid -- Seller fulfills his obligation when goods have been made available at the named place in the country of importation.

DDP - Delivered Duty Paid -- Title and risk pass to buyer when seller delivers goods to named destination point cleared for import. Used for any mode of transportation.

Note: ExW, CPT, CIP, DAF, DDU and DDP are commonly used for any mode of transportation. FAS, FOB, CFR, CIF, DES, and DEQ are used for sea and inland waterway.

Salgsbetingelser for Norsk Stål AS

Gjelder fra 1. april 2016

- Anvendelse**

Disse generelle salgsbetingelser får anvendelse ved ethvert salg, med mindre noe annet er skriftlig avtalt mellom partene.
- Tilbud og produktinformasjon**
 - Når ikke annet er angitt, skal skriftlig tilbud være bindende mot aksept innen 14 dager fra tilbudets dato.
 - Alle illustrasjoner, tegninger og oppgaver over priser og tekniske opplysninger i kataloger, brosjyrer og annet reklamemateriell er veiledende. Slike oppgaver er bare bindende i den grad avtalen uttrykkelig henviser til dem.
 - Avtalen er sluttet ved selgerens skriftlige ordrebekreftelse eller påbegynt levering. Ordrebekreftelsen er vedtatt dersom kjøperen ikke straks gjør innsigelser.
 - Avtalen skal omfatte alle beskrivelser, sertifikater og dokumenter som er nødvendig for godkjenning eller vedlikehold av varen.
- Kvalitet**
 - Hvis ikke annet er avtalt, har kjøperen risikoen for at de tekniske data og varen i sin helhet passer til hans behov. Er imidlertid behovet kjent for selger, plikter selger å gi beskjed til kjøper hvis han er kjent med eller burde være kjent med at varen ikke passer hans behov.
 - Siste utgave av angitt standard gjelder i original og uavkortet stand.
- Kvantum**
 - Med mindre annet angis i bestillingen, avgjør ordrebekreftelsen om levering skal skje etter vekt, stykk eller lengdeangivelse.
 - Med mindre annet er særskilt avtalt, kan det leverte kvantum ved verkslevering avvike i henhold til kutyme i bransjen.
- Handelstermer**
 - Handelstermer skal tolkes i overensstemmelse med de regler som er utarbeidet av Det Internasjonale Handelskammer (Incoterms), og som gjaldt på det tidspunktet avtalen ble inngått.
 - Eventuell forsikring tegnes i overensstemmelse med disse regler.
- Betalingsbetingelser**
 - Hvis selgeren forlanger det, må kjøperen ved avtaleinngåelse stille tilfredsstillende garanti for riktig betaling.
 - Kjøperens reklamasjon p.g.a. uvesentlige mangler fritar han ikke for betaling.
 - Kjøperen har ikke rett til å motregne fra andre kontraktsforhold dersom kravet er omvistet.
 - Ved oversittelse av betalingsfristen skal kjøper betale forsinkelsesrente med den til enhver tid gjeldende forsinkelsesrente i henhold til Lov 17.12.1976 nr. 100 (lov om renter ved forsinket betaling m.m.).
- Fakturering**

Fakturaen dateres den dag varen sendes fra selgerens lager. Ved verksleveranser kan fakturaen dateres tidligst ved risikoens overgang i henhold til de avtalte handelstermer.
- Verkslevering**

Dersom kjøperen ved verkslevering ikke spesifiserer innen avtalt tid, har selgeren rett til, etter forutgående varsling, å heve avtalen og/eller kreve erstatning for dokumenterte utgifter/tapt fortjeneste, dersom ordren ikke kan opprettholdes ved angjeldende verk.
- Salgspant**

Selger har salgspant i de leverte varer inntil kjøpesum, inkludert renter og omkostninger, er fullt ut betalt.
- Leveringstid og risikoovergang**
 - Avtalte handelstermer fortolkes i henhold til de ved avtalens inngåelse gjeldende Incoterms. Er ingen slik leveringsklausul spesielt avtalt, anses levering skjedd "Ex Works".
 - Angis leveringstid til et visst tidsrom, regnes leveringstiden fra den dag da avtalen ble sluttet.
 - Selger velger transportveg, som er vanlig i bransjen.
 - Endrings- og tilleggsarbeider, som er bestilt av kjøperen, kan forlenge leveringstiden i den utstrekning dette er nødvendig p.g.a. forberedelse og utførelse av vedkommende arbeid.
- Forsinkelse**
 - Finner selgeren eller kjøperen at han ikke kan overholde avtalt tidspunkt for levering, respektivt mottagelse av varen, eller fremstår forsinkelser som sannsynlig, skal han uten opphold gi den annen part underretning om dette og samtidig angi tidspunkt for når levering vil kunne fullføres. Dersom forsinkelsen av levering (dellevering) skyldes selgerens forhold, og forsinkelsen medfører en vesentlig ulempe for kjøper som selger forstod eller burde ha forstått, kan denne gjennom skriftlig melding til selgeren heve avtalen hva angår den forsinkede vare. Dersom selgeren har varslet om forsinkelsen, skal kjøper utøve sin hevingsrett så snart som mulig, ellers skal leveringstidspunkt angitt i varslet, anses som nytt avtalt leveringstidspunkt.
- Fritaksgrunner (force majeure)**
 - Følgende omstendigheter skal betraktes som fritakelsesgrunner, dersom de hindrer avtalens oppfyllelse eller gjør oppfyllelsen urimelig tyngende: arbeidskonflikt og enhver annen omstendighet, når partene ikke kan råde over den, for eksempel brann, krig, mobilisering eller uforutsette militære innkallelser av tilsvarende omfang, revisjon, beslag, valutarestriksjoner, opphør, oppløp, knapphet på transportmidler, alminnelig vareknapphet, innskrenkning i tilførselen av drivkraft, samt mangler ved leveranse fra underleverandør eller forsinkelse av slike leveranser som følger av slik omstendighet som omtales i dette punkt. Omstendigheter som nevnt, som inntråd før avtalens inngåelse, er bare fritakelsesgrunner dersom deres virkning på avtalens oppfyllelse da ikke kunne forutsettes.
 - Det påligger den part som ønsker å påberope seg slik omstendighet som omhandles under punkt 12.1, uten opphold skriftlig å underrette den annen part, såvel om hindringens inntredelse som dens opphør. Ved force majeure hos kjøperen skal denne dekke de utgifter som selgeren pådrar seg for å sikre og beskytte varen.
 - Uansett hva som ellers måtte være bestemt i disse salgsbetingelser, kan enhver av partene heve avtalen ved skriftlig meddelelse til den annen part, dersom avtalens oppfyllelse vil bli hindret i mer enn 6 måneder av en begivenhet som nevnt i punkt 12.1.
- Avbestilling**
 - Kjøperen har rett til å avbestille dersom selgeren kan avbestille overfor sin leverandør. Hvis kjøper avbestiller varen og/eller tjenester, må han betale alle omkostninger ved avbestilling samt erstatning for selgerens tapte fortjeneste og annet direkte dokumenterte tap som selgeren måtte lide.
 - Lagervare kan kun avbestilles uten vederlag hvis dette kan skje uten ulempe eller omkostninger for selger.
- Undersøkelsesplikt og reklamasjon**
 - Kjøperen har en generell undersøkelsesplikt i henhold til det som er vanlig i bransjen.
 - Eventuelle feil ved varen skal reklameres skriftlig med angivelse av manglens art og omfang så snart som mulig etter mottakelsen av varen, eller når mangelen oppdages senere, eller burde vært oppdaget, senest innen ett år etter mottakelsen av varen. Eventuelle feil i varen som skyldes transportskader, skal imidlertid reklameres straks også direkte til transportør og etter den fremgangsmåte som er foreskrevet i forbindelse med transporten.
 - Hvis ikke kjøperen reklamerer i henhold til foranstående, mister han enhver rett til å gjøre mangelen gjeldende.
 - Reklamasjoner vedrørende sertifikat skal skje straks etter mottakelsen av sertifikatet.
- Manglende levering**
 - Foreligger det mangler ved varen eller arbeidet, har selgeren valget mellom å avhjelpe mangelen eller foreta omlevering.
 - Retten til å påberope seg mangler bortfaller hvis mangelen blir avhjulpet av andre enn selgeren uten dennes skriftlige samtykke, hvis ikke en forsinkelse vil innebære ytterligere skade.
 - Avhjelper selgeren mangelen innen rimelig tid, har kjøperen ikke anledning til å heve kjøpet. Krav om å heve kjøpet må fremsettes skriftlig straks det er konstatert at mangelen ikke vil eller kan bli avhjulpet.
 - Selgeren er ikke forpliktet til å betale noen form for erstatning eller prisavslag hvis en kontraktsmessig mangel blir avhjulpet.
 - Selgeren har ikke i noe tilfelle erstatningsansvar utover fakturaverdien. Selgeren har intet ansvar for skade eller tap som måtte oppstå for kjøperen som er en følge av varens videre anvendelse eller for annet konsekvensansvar.
- Retur**
 - Varen kan kun returneres etter forutgående avtale mellom kjøper og selger. Dersom årsaken til retur ikke skyldes feil fra selgers side, blir returomkostningene fratrukket i kreditnota. Det er kjøpers ansvar å merke returnerte varer med returnummer mottatt av selger.
 - Det er vilkår for retur av varen at varen er uskadet, og for fabrikkemballerte varers vedkommende at disse er i original og ubrutt emballasje.
 - I tilfelle retur skal kjøper, for å dekke selgers kostnader, betale 20 % av avtalt vederlag.
- Verkenes salgsbetingelser**

Skal det gjelde betingelser utover dette ved verksleveranser, skal det avtales særskilt.
- Tvister**

Ethvert tilbud om salg er basert på norsk lov. I tilfelle søksmål er selgerens vending vedtatt av begge parter.



Nye Vakåsvei 80
Postboks 123
1378 Nesbru
Tlf. 66 84 28 00
firmapost@norskstaal.no

www.norskstaal.no