

THERMORY®

Our Benchmark thermo-pine products undergo intense thermal modification. It makes the pine more durable (Class 2) and stable while emphasizing its warm golden-brown color and characteristic knot pattern.



To suit every taste and style, Benchmark thermo-pine has three grades available: Natur, Rustic and Country.



All our boards are graded by the better face.



Like any other wood, the surface of Thermory products turns naturally gray over time. This process starts immediately after the products

are installed and takes from a few months to a few years, depending on the intensity of UV radiation. To reduce discoloration or restore dark color, Thermory boards can be protected by coating them with a UV-resistant pigmented finish (wax, stain, paint, mineral oil, etc.).



Regular finishing prevents wood from cracking, ensures water and dirt repellency and creates a visually even tone.

Grading rules

Thermo-Pine

We can offer our thermo-pine products with the Nordic Swan Ecolabel. Wood carrying this Ecolabel comes from responsibly managed forests, is chemical free and offers great durability in outdoor conditions.



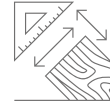
DISTINCTIVE KNOTS



THERMALLY MODIFIED WOOD



DURABILITY



DIMENSIONAL STABILITY



ECO-FRIENDLY / CHEMICAL-FREE PROCESS



CLASS 2



BENCHMARK
by THERMORY®



GRADED BY
THE BETTER FACE

| | |
|---------------------------|--|
| HIT&MISS | |
| FEED-ROLLER MARKS | |
| WANE | |
| MECHANICAL DEFECTS | |
| SURFACE CHECKS | |
| SHAKES | |
| END SPLITS | |
| RING SHAKE | |
| SOUND KNOTS | |
| KNOT HOLE | |
| BARK KNOTS | |
| DEAD KNOTS | |
| BLACK KNOTS | |
| UN SOUND KNOTS | |

GRADE: **NATUR** ↓

| Better face | Back face |
|--|---|
| not allowed | max 1/2 of the width of the board/ not allowed for PaCS profiles |
| not allowed | unlimited |
| not allowed | max 1/3 of the width and 1/5 of the thickness of the board |
| not allowed | unlimited |
| max 100 mm long | unlimited |
| not allowed | unlimited |
| max length = width of the board | unlimited |
| not allowed | unlimited |
| visual grading, not measured, has to maintain the integrity of the board | unlimited |
| not allowed | unlimited if not through the board |
| sound, Ø up to 1/3 of the width of the board, bark not over half of the diameter | unlimited |
| up to Ø 15 mm | unlimited |
| Ø up to 1/5 of the width of the board | unlimited |
| not allowed | unlimited |

GRADE: **COUNTRY** ↓
Limited availability

| Better face | Back face |
|---------------------------------------|-----------|
| allowed up to 300 mm from both ends | unlimited |
| allowed up to 300 mm from both ends | unlimited |
| allowed up to 300 mm from both ends | unlimited |
| allowed up to 300 mm from both ends | unlimited |
| unlimited | unlimited |
| allowed up to 300 mm from both ends | unlimited |
| allowed up to 300 mm from both ends | unlimited |
| unlimited | unlimited |
| up to Ø 20 mm allowed in whole length | unlimited |
| if not disturbing visually | unlimited |
| unlimited | unlimited |
| unlimited | unlimited |
| if not disturbing visually | unlimited |

GRADED BY
THE BETTER FACE

| | |
|-----------------------------------|--|
| BROKEN KNOTS | |
| KNOT SHAKE | |
| PIN KNOTS | |
| SPIKE KNOTS | |
| EDGE & ARRIS KNOTS | |
| BROKEN EDGE KNOT | |
| KNOT CLUSTER | |
| PARTIALLY INTERGROWN KNOTS | |
| RESIN POCKET | |
| SCAR | |
| PITH | |
| SLOPE OF GRAIN | |
| ROT / MOULD / BLUE STAIN | |
| INSECT HOLES | |

GRADE: **NATUR** ↓

| Better face | Back face |
|---|-----------|
| if not disturbing visually, evaluated from a distance min 1,5 m, up to 1/10 of the width of the board | unlimited |
| decking: up to 3 mm wide and 50 mm long/ cladding: up to 5 mm wide and 50 mm long | unlimited |
| unlimited | |
| ∅ up to 1/2 of the width of the board | unlimited |
| unlimited | |
| limited to 1/10 of the width | unlimited |
| visual grading, not measured, has to maintain the integrity of the board | unlimited |
| bark up to 1/2 of the diameter | unlimited |
| allowed up to 300 mm ² | unlimited |
| allowed up to 300 mm ² | unlimited |
| max 1/5 of the length of the board | unlimited |
| unlimited | |
| not allowed | |
| not allowed | unlimited |

GRADE: **COUNTRY** ↓
Limited availability

| Better face | Back face |
|--------------------------------------|-----------|
| allowed up to 1/5 of the board width | unlimited |
| unlimited | |
| unlimited | |
| unlimited | |
| unlimited | |
| unlimited | |
| unlimited | |
| unlimited | |
| allowed in reasonable amount | unlimited |
| unlimited | |
| unlimited | |
| not allowed | |
| not allowed | unlimited |

GRADED BY
THE BETTER FACE

**SPRING,
CROOK**



BOW



TWIST



CUP



TOLERANCES

GRADE: **NATUR** ↓

GRADE: **COUNTRY** ↓
Limited availability

Better face

Back face

Better face

Back face

allowed up to 7.5 mm per linear meter

allowed up to 2 mm per linear meter

allowed up to 5% of board
width per linear meter, has to be
reversible during installation

allowed up to 1% of the width of the board

thickness: +/- 0.5 mm
width: + 0.5/-1 mm
length: +/- 2 mm per linear meter

Last updated: August 2021.
All previous versions are null and void.

Up to 5% of the volume can be of lower grade.

All defects that are allowed on the back face and not limited by size are tolerated to the extent that does not jeopardize the integrity, usability and visual wholeness of the installed product.

GRADE: **RUSTIC** → **85% NATUR & 15% COUNTRY**