



## ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025:2006 and  
EN 15804:2012+A2:2019

# Gyproc<sup>®</sup> Protect F Klima



<b>Program operator:</b>	The Norwegian EPD Foundation
<b>Product Category Rule:</b>	NPCR 010:2022 Part B for building boards (v.4)
<b>Declaration number:</b>	NEPD-5167-4476-EN
<b>Registration number:</b>	NEPD-5167-4476-EN
<b>Issue date:</b>	19.10.2023 (rev 17.07.2024)
<b>Valid to:</b>	19.10.2028
<b>Owner of declaration:</b>	Saint-Gobain Byggevarer AS, Gyproc

# General information

## Product name

Gyproc® Protect F Klima  
(GF 15 Klima, GFE 15 Klima)

## Program operator

The Norwegian EPD Foundation,  
Post Box 5250 Majorstuen, 0303 Oslo  
**Phone:** +47 23 08 80 80  
**E-mail:** [post@epd-norge.no](mailto:post@epd-norge.no)  
**Web:** [www.epd-norge.no](http://www.epd-norge.no)

## Declaration number:

NEPD-5167-4476-EN

## ECO Platform reference number

## Product Category Rules:

Core PCR: EN 15804:2012+A2:2019  
NPCR 010:2019 Part B for building boards

## Statement of liability

The owner of the declaration shall be liable for the underlying information and evidence. EPD Norway shall not be liable with respect to manufacturer information, life cycle assessment data and evidence.

## Declared unit

1 m<sup>2</sup> of manufactured plasterboard

## Functional unit

1 m<sup>2</sup> of installed Gyproc® Protect F Klima with a reference service life of 60 years

## Verification

Independent verification of calculation data, environmental data, and test of computer program was carried out by Martin Erlandsson.  
CEN Standard EN 15804:2012+A2:2019 serves as core PCR. Independent verification of the declaration and data has been done according to ISO 14025:2010



Martin Erlandsson, IVL

Independent verifier approved by EPD-Norge

Internal  External

## Owner of the declaration

Saint-Gobain Byggevarer AS, Gyproc

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**Phone:** +47 908 84 762

**E-mail:** [stian.gravnas@saint-gobain.com](mailto:stian.gravnas@saint-gobain.com)

**Manufacturer:** Saint-Gobain Byggevarer AS, Gyproc

**Place of production:** Fredrikstad, Norway

**Geographical use:** Norway and other Nordic countries

## Management system

NS-EN ISO 9001, NS-EN ISO 14001,  
NS-EN ISO 45001, NS-EN ISO 50001

**Organization number:** NO 940 198 178

**Issue date:** 19.10.2023 (rev 17.07.2024)

**Valid to:** 19.10.2028

**Year of study:** 2023 + 2024

## Comparability

EPD of construction products may not be comparable if they don't comply with EN 15804:2012+A2:2019 and seen in a building context, see also EN 15942.

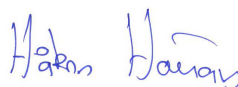
## The EPD has been worked out by

Malin Dalborg (Saint-Gobain Nordic) and Saint-Gobain LCA central team using GaBi version 10.6

*Malin Dalborg*

Company-specific data has been verified by Simen Kandola and Malin Dalborg Saint-Gobain Byggevarer AS, Gyproc

Approved by



Håkon Hauan

Managing Director of EPD-Norge

## Product information

### Product description and description of use

This Environmental Product Declaration (EPD®) describes the environmental impacts of 1m<sup>2</sup> of installed gypsum board Gyproc® Protect F Klima with a weight of 12,7 kg/m<sup>2</sup>.

Gyproc® Protect F Klima is a plasterboard primarily used in interior building applications where normal to high levels of fire resistance is required and for protection to structural steel. It can be used in light weight building systems of 1-3 layers on steel or timber framing where normal structural strength and sound insulation are specified.

Gyproc® Protect F Klima provides significantly improved fire protection properties compared to a standard gypsum board. It shrinks less during a fire and sustains its basic properties better due to a thicker core reinforced with glass fibers, minerals and other additives for dimensional stability and improved core cohesion at high temperatures.

**Thickness:** 15,4 mm

**Width :** 1200 mm (GF 15 Klima) and 900 mm (GFE 15 Klima)

**For more information:** [www.gyproc.no/produkter/gyproc-protect-f-klima-gf-15-klima](http://www.gyproc.no/produkter/gyproc-protect-f-klima-gf-15-klima)

To calculate the result for 1 kg of Gyproc® Protect F Klima, divide the result with the weight of the plasterboard: 12,7 kg/m (conversion factor 1/12,7 = 0,078)

### Technical data

Parameter	Value / Description
EN Classification	DFI-15,4 (EN 520:2004+A1:2009)
Reaction to fire	A2-s1, d0 (EN 520:2004+A1:2009)
Water vapour resistance factor, $\mu$	< 0,10 (EN 10456:2007)
Thermal conductivity	0,25 W/mK (EN 10456:2007)

### Product specification

Product components	Value / Description
Weight of 1 m <sup>2</sup> plasterboard	12,7 kg
Thickness	15,4 mm
Surfacing	Paper liner: 0,33 kg/m <sup>2</sup>
Packaging material	Gypsum Culls: 0,02 kg/kg PE film: 0,0006 kg/kg Paper label: 0,000009 kg/kg
Products used for installation	Jointing compounds: 0,33 kg/m <sup>2</sup> Jointing tape: 0,004 kg/m <sup>2</sup>

### Market

Gyproc® Protect F Klima is manufactured and sold in Norway. It can also be distributed to, and sold in, other countries like Sweden, Finland and Denmark.

### Reference Service Life (RSL), product

60 years. When installed correct, the product is assumed to have at least the same RSL as the building.

### Reference Service Life (RSL), building

60 years.

## LCA calculation information

Parameter	Value / Description
<b>Type of EPD</b>	Cradle to grave and module D
<b>Functional unit</b>	1 m <sup>2</sup> of installed board with a weight of 12,7 kg/m <sup>2</sup> and an expected average service life of 60 years. Note that the declared product and therefor the functional unit do not include any upper surface material like paint or likewise and therefore not potentially add as part of maintenance (B2).
<b>System boundaries</b>	Cradle to grave + Module D = A + B + C +D
<b>Cut-off rules</b>	All raw materials and additives and all energy has been included. The following has been excluded: Flows related to human activities such as employee transport The construction of plants, production of machines and transportation systems
<b>Allocations</b>	Allocation criteria are based on mass. The polluter pays principle as well as the modularity principle have been followed.
<b>Geographical coverage and time period</b>	Scope: Norway Data is collected from one production site Fredrikstad located in Norway The EPD has been revised in July 2024 to consider 12 month data of production. The production data are based on data from June 2023 – May 2024
<b>Data quality</b>	The data was collected from the specific manufacturing site Fredrikstad, using measurements, internal records and reporting documents. The manufacturing process at Fredrikstad has been fully electrified since March 2023. The production data are based on data from June 2023 – May 2024 and the difference compare to the version of the EPD published in 2023 is less than 3% for GWP-fossil/GWP-GHG
<b>Background data source</b>	Databases GaBi 2022 and ecoinvent v.3.8
<b>Software</b>	GaBi 10.6
<b>Product CPC code</b>	37530, Articles of plaster or of composition based on plaster

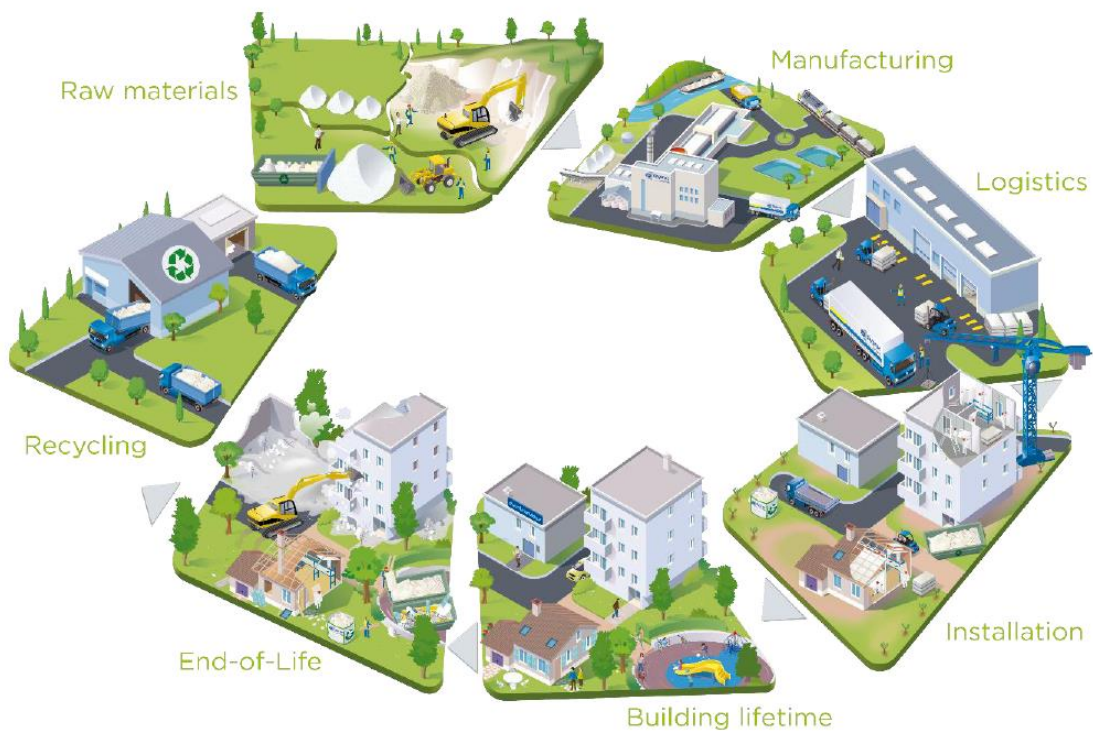
# LCA scope

The following stages and modules have been included for this product.

	PRODUCT STAGE			CONSTRUCTION STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARY
	Raw material supply	Transport	Manufacturing	Transport	Construction-Installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-recovery
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

(X=included. MND=module not declared)

# Life cycle stages



## A1-A3, Product stage

### A1, Raw materials supply

This module includes the extraction and transformation of raw materials and packaging.

### A2, Transport to the manufacturer

This module includes the transportation (truck, boat and rail) of raw materials and packaging to the manufacturing site. Calculations have been based on specific distances provided by the logistic department.

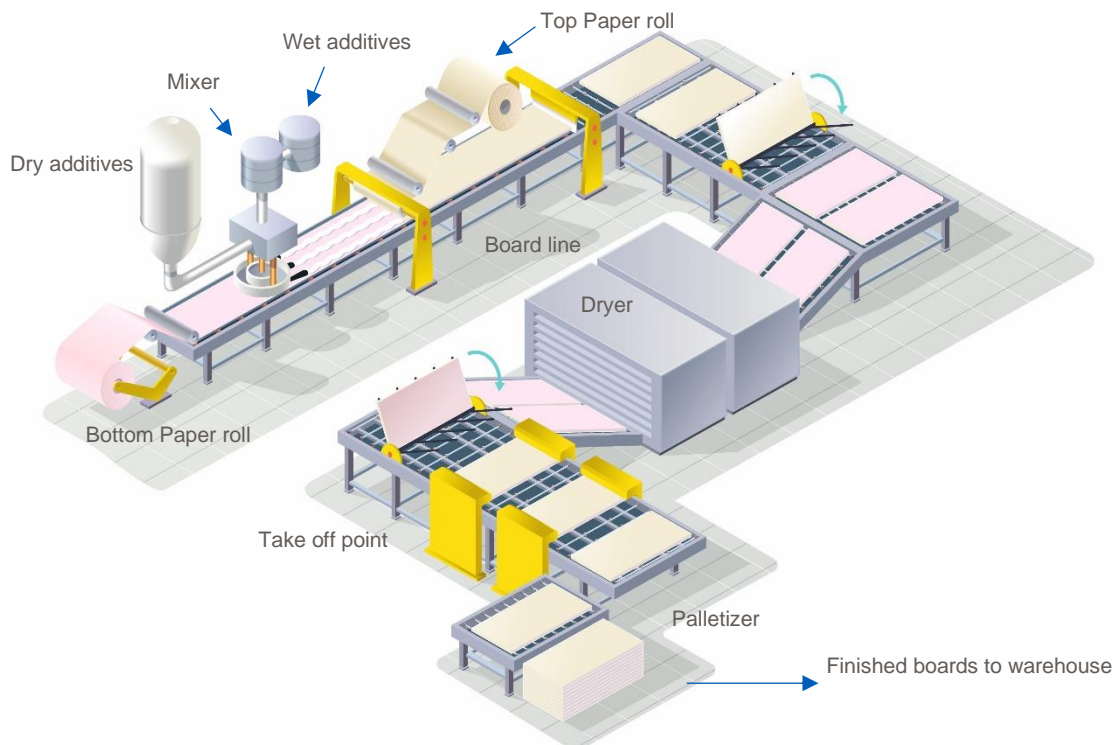
### A3, Manufacturing

This module includes the manufacturing of products and the processing of any waste arising during the manufacturing process.

During the manufacturing process, 100% renewable electricity bought with Guarantee of Origin (GO) has been used. The amount of electricity purchases with GO's correspond to 100% of the electricity consumed at the manufacturing site, leaving 0% to be covered by Norwegian National grid mix.

Parameter	Consumption covered (%)	Value, GWP total	Description
Electricity mix (Go's)	100%	0,00621 kg CO <sub>2</sub> eq. / kWh	100% Hydro power - Dataset Gabi EU-28: Electricity from hydro power and Guarantee of Origin certificate
Electricity mix (national mix)	0%	0,0329 kg CO <sub>2</sub> eq. / kWh	Dataset Gabi NO: Electricity grid mix

## Manufacturing process flow diagram



### Manufacturing in detail:

The raw materials are homogeneously mixed to form a gypsum slurry that is spread via multiple hose outlets onto a paper liner on a moving conveyor belt. A second paper liner is fed onto the production line from above to form the plasterboard. The plasterboard continues along the production line where it is finished, dried, and cut to size.

## A4-A5, Construction process stage

### A4, Transport to the building site

This module includes the transport from the manufacturing site to the building site. Transport is calculated based on a scenario with the parameters described in the following table.

Parameter	Value / Description
Fuel type and consumption of vehicle or vehicle type used for transport e.g. long distance truck, boat, etc.	Freight truck, maximum load weight of 30 t, real load of 22 t and consumption of 0.38 liters per km
Distance	300 km
Capacity utilization (including empty returns)	56% (30% empty returns)
Bulk density of transported products*	825 kg/m <sup>3</sup>
Volume capacity utilization factor	< 1

### A5, Installation in the building

This module includes the installation materials and the management and processing of waste generated during the installation. The parameters are presented in the following table.

Parameter	Value / Description
Ancillary materials for installation (specified by materials)	Jointing compound 0,33 kg/m <sup>2</sup> board, jointing tape 1,23 m/m <sup>2</sup> board.
Water used during installation	0,158 liters/m <sup>2</sup>
Other resource use	None
Quantitative description of energy type (regional mix) and consumption during the installation process	0,0 MJ/m <sup>2</sup> electricity
Scrap rate at installation	5% for plasterboard and ancillary materials 100% for packaging
Wastage of materials on the building site before waste processing, generated by the product's installation (specified by type)	Plasterboard: 0,64 kg (100% recycling) Jointing Compound: 0,0165 kg (100% landfill) Jointing Tape: 0,0002 kg (100% landfill) Gypsum culls: 0,02 kg (100% landfill) PE film: 0,0006 kg (50/50% incineration with/without recovery) Paper label: 0,000009 kg (50/50% incineration with/without recovery)
Output materials (specified by type) as results of waste processing at the building site e.g., of collection for recycling, for energy recovering, disposal (specified by route)	Plasterboard: 0,64 kg (100% recycling) Jointing Compound: 0 kg (recycling), 0,0165 kg (landfill) Jointing Tape: 0 kg (recycling), 0,0002 kg (landfill) PE film: 0,0003 kg (incineration w. recovery), 0,0003 kg (incineration no recovery) Paper label: 0,0000045 kg (incineration w. recovery), 0,0000045 kg (incineration no recovery) Gypsum culls: 0 kg (recycling), 0,02 kg (landfill)
Direct emissions to ambient air, soil, and water	None

The transport of packaging and product is modelled like transport in C2.

## B1-B7, Use stage (excluding potential savings)

**Description of the stage:** The use stage is divided into the following modules:

- B1, Use
- B2, Maintenance
- B3, Repair
- B4, Replacement
- B5, Refurbishment
- B6, Operational energy use
- B7, Operational water use

The product has a reference service life of 60 years. It is assumed that the product will last in situ with no requirements for maintenance, repair, replacement, or refurbishment throughout this period. Therefore, it has no impact at this stage.

## C1-C4, End of Life Stage

**Description of the stage:** This stage includes the following modules:

- C1, Deconstruction, demolition: The de-construction and/or dismantling of the product is considered part of the demolition of the entire building, but a small amount of energy has been located to the studied product.
- C2, Transport to waste processing
- C3, Waste processing for reuse, recovery and/or recycling
- C4, Disposal, including provision and all transport, provision of all materials, products and related energy and water use

Two End-of-life scenarios have been declared for the plasterboard and paper liner: 100% recycling and 100% landfill.

Parameter	Value / Description
Energy for de-construction/demolition	0,05 MJ/m <sup>2</sup> . The de-construction of the product is considered to be part of the demolition of the entire building
Collection process specified by type	<p><b>Plasterboard and paper liner:</b></p> <ul style="list-style-type: none"> <li>• Scenario 1: 100% recycling</li> <li>• Scenario 2: 100% landfill</li> </ul> <p><b>Both scenarios:</b> Other deconstruction waste is 100% collected with mixed deconstruction and demolition waste for landfill</p>
Recovery system specified by type	Scenario 1: 12,7 kg is recycled Scenario 2: 0 kg is recycled
Disposal specified by type	Scenario 1: 0,33 kg to landfill Scenario 2: 13,03 kg to landfill
Assumptions for scenario development (e.g. transportation)	Freight truck, maximum load weight of 27.9 t, real load of 24 t and consumption of 0.38 liters per km Distance to recycling facilities: 300 km Distance to landfill: 50 km Distance to incineration facilities: 50 km



## D, Reuse/recovery/recycling potential

Module D considers the benefits and loads beyond the system boundary resulting from recycling and energy recovery processes.

Module D includes:

- the benefits and loads from the net flows of recycled gypsum and paper liner leaving the product system and substituting primary materials
- the benefits from the net flows of energy related to packaging sent to incineration with energy recovery and substituting steam and electricity production

## LCA results

As specified in EN 15804:2012+A2:2019 and the Product-Category Rules, the environmental impacts are declared and reported using the baseline characterization factors from the ILCD EF 3.0. Specific data has been supplied by the plant, and generic data come from GaBi and ecoinvent databases.

All emissions to air, water, and soil, and all materials and energy used have been included.

The estimated impact results are only relative statements which do not indicate the end points of the impact categories, exceeding threshold values, safety margins or risks.

All figures refer to a declared unit of 1m<sup>2</sup> of installed gypsum board Gyproc® Protect F Klima with a weight of 12,7 kg/m<sup>2</sup> and a useful life of 60 years. It has been manufactured in Fredrikstad, Norway.

### Electricity








The main result presented is calculated with national electricity grid mix.

An additional set of results based on GO's can be found in "Additional Information".

### Transport to other countries

Information and conversion factors for transport to other countries can be found under "Additional Information".








## Environmental Impacts - National electricity grid mix

Environmental indicators		PRODUCT STAGE	CONSTRUCTION STAGE		USE STAGE						
		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use
	Climate Change (total) [kg CO <sub>2</sub> eq.] <sup>(a)</sup>	4,48E-01	2,35E-01	5,72E-01	0	0	0	0	0	0	0
	Climate Change (fossil) [kg CO <sub>2</sub> eq.]	1,09E+00	2,30E-01	1,33E-01	0	0	0	0	0	0	0
	Climate Change (biogenic) [kg CO <sub>2</sub> eq.]	-6,40E-01	2,96E-03	4,39E-01	0	0	0	0	0	0	0
	Climate Change (land use change) [kg CO <sub>2</sub> eq.]	1,02E-03	1,30E-03	1,68E-04	0	0	0	0	0	0	0
	Ozone depletion [kg CFC-11 eq.]	2,46E-08	1,39E-14	1,99E-09	0	0	0	0	0	0	0
	Acidification terrestrial and freshwater [Mole of H <sup>+</sup> eq.]	6,09E-03	2,91E-04	4,67E-04	0	0	0	0	0	0	0
	Eutrophication freshwater [kg P eq.]	3,63E-05	6,94E-07	9,83E-06	0	0	0	0	0	0	0
	Eutrophication marine [kg N eq.]	2,47E-03	1,06E-04	2,22E-04	0	0	0	0	0	0	0
	Eutrophication terrestrial [Mole of N eq.]	2,54E-02	1,23E-03	1,87E-03	0	0	0	0	0	0	0
	Photochemical ozone formation - human health [kg NMVOC eq.]	5,75E-03	2,57E-04	5,97E-04	0	0	0	0	0	0	0
	Resource use, mineral and metals [kg Sb eq.] <sup>1</sup>	1,54E-06	1,94E-08	1,05E-07	0	0	0	0	0	0	0
	Resource use, energy carriers [MJ] <sup>1</sup>	1,49E+01	3,11E+00	1,33E+00	0	0	0	0	0	0	0
	Water deprivation potential [m <sup>3</sup> world equiv.] <sup>1</sup>	5,67E-01	2,09E-03	6,77E-02	0	0	0	0	0	0	0

<sup>1</sup> Disclaimer 2: The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

<sup>(a)</sup> The total global warming potential (GWP-total) is the sum of GWP fossil, GWP biogenic and GWP land use change











## Environmental Impacts - National electricity grid mix

Environmental indicators		100% recycling					100% landfill				
		END OF LIFE STAGE				REUSE, RECOVERY, RECYCLING	END OF LIFE STAGE				REUSE, RECOVERY, RECYCLING
		C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
	Climate Change (total) [kg CO <sub>2</sub> eq.] <sup>(a)</sup>	5,26E-02	2,31E-01	7,28E-01	6,64E-03	5,05E-02	5,26E-02	3,93E-02	0,00E+00	1,02E+00	-3,46E-02
	Climate Change (fossil) [kg CO <sub>2</sub> eq.]	5,26E-02	2,27E-01	7,15E-02	5,07E-03	5,01E-02	5,26E-02	3,86E-02	0,00E+00	7,52E-02	-4,15E-02
	Climate Change (biogenic) [kg CO <sub>2</sub> eq.]	7,12E-05	2,92E-03	6,57E-01	1,56E-03	3,45E-04	7,12E-05	4,97E-04	0,00E+00	9,43E-01	5,72E-03
	Climate Change (land use change) [kg CO <sub>2</sub> eq.]	5,55E-06	1,28E-03	9,84E-05	1,46E-05	6,46E-05	5,55E-06	2,17E-04	0,00E+00	9,17E-05	1,15E-03
	Ozone depletion [kg CFC-11 eq.]	1,12E-08	1,37E-14	1,41E-08	1,88E-17	2,03E-10	1,12E-08	2,34E-15	0,00E+00	2,64E-08	1,88E-08
	Acidification terrestrial and freshwater [Mole of H+ eq.]	5,46E-04	2,82E-04	4,54E-04	3,64E-05	2,19E-04	5,46E-04	4,80E-05	0,00E+00	6,85E-04	8,06E-04
	Eutrophication freshwater [kg P eq.]	1,63E-06	6,83E-07	7,93E-06	8,71E-09	6,65E-06	1,63E-06	1,16E-07	0,00E+00	5,98E-06	1,75E-04
	Eutrophication marine [kg N eq.]	2,42E-04	1,02E-04	1,67E-04	9,36E-06	6,72E-05	2,42E-04	1,73E-05	0,00E+00	2,32E-04	2,99E-04
	Eutrophication terrestrial [Mole of N eq.]	2,65E-03	1,18E-03	1,74E-03	1,03E-04	6,23E-04	2,65E-03	2,02E-04	0,00E+00	2,54E-03	1,82E-03
	Photochemical ozone formation - human health [kg NMVOC eq.]	7,29E-04	2,49E-04	5,17E-04	2,83E-05	1,87E-04	7,29E-04	4,24E-05	0,00E+00	8,38E-04	5,98E-04
	Resource use, mineral and metals [kg Sb eq.] <sup>2</sup>	2,70E-08	1,91E-08	4,61E-07	4,55E-10	5,90E-08	2,70E-08	3,26E-09	0,00E+00	1,50E-07	1,01E-06
	Resource use, energy carriers [MJ] <sup>1</sup>	7,18E-01	3,06E+00	1,16E+00	6,65E-02	8,85E-01	7,18E-01	5,21E-01	0,00E+00	1,96E+00	9,39E-02
	Water deprivation potential [m <sup>3</sup> world equiv.] <sup>1</sup>	1,77E-03	2,05E-03	2,91E-02	5,31E-04	1,46E-02	1,77E-03	3,50E-04	0,00E+00	8,48E-02	1,26E-01

<sup>2</sup> Disclaimer 2: The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator











<sup>(a)</sup> The total global warming potential (GWP-total) is the sum of GWP fossil, GWP biogenic and GWP land use change

## Resources Use - National electricity grid mix

Resources Use indicators	PRODUCT STAGE	CONSTRUCTION STAGE		USE STAGE						
	A1 / A2 / A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use
 Use of renewable primary energy (PERE) [MJ]	4,79E+01	1,77E-01	2,55E+00	0	0	0	0	0	0	0
 Use of renewable primary energy resources used as raw materials (PERM) [MJ] *	5,72E+00	0	0	0	0	0	0	0	0	0
 Total use of renewable primary energy resources (PERT) [MJ]	5,37E+01	1,77E-01	2,55E+00	0	0	0	0	0	0	0
 Use of non-renewable primary energy (PENRE) [MJ]	1,47E+01	3,12E+00	1,32E+00	0	0	0	0	0	0	0
 Non-renewable primary energy resources used as raw materials (PENRM) [MJ] *	6,51E-01	0	-1,11E-01	0	0	0	0	0	0	0
 Total use of non-renewable primary energy resources (PENRT) [MJ]	1,53E+01	3,12E+00	1,21E+00	0	0	0	0	0	0	0
 Input of secondary material (SM) [kg]	1,66E+00	0	8,47E-02	0	0	0	0	0	0	0
 Use of renewable secondary fuels (RSF) [MJ]	2,299E-24	0	1,174E-25	0	0	0	0	0	0	0
 Use of non-renewable secondary fuels (NRSF) [MJ]	2,701E-23	0	1,379E-24	0	0	0	0	0	0	0
 Use of net fresh water (FW) [m³]	7,33E-02	2,00E-04	4,64E-03	0	0	0	0	0	0	0






\* For this study, both the product and its packaging are reported in the indicators "Use of renewable primary energy resources used as raw materials" ("PERM") and "Use of non-renewable primary energy resources used as raw materials" ("PENRM"). PERM and PENRM are reported as negative values when materials are recycled or recovered, but not when landfilled.

## Resources Use - National electricity grid mix

Resources Use indicators		100% recycling					100% landfill				
		END OF LIFE STAGE				REUSE, RECOVERY, RECYCLING	END OF LIFE STAGE				REUSE, RECOVERY, RECYCLING
		C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
	Use of renewable primary energy (PERE) [MJ]	4,06E-03	1,74E-01	1,78E-01	8,71E-03	2,60E-01	4,06E-03	2,96E-02	0	3,31E-02	1,25E+00
	Use of renewable primary energy resources used as raw materials (PERM) [MJ] *	0	0	-5,49E+00	0	0	0	0	0	0	0
	Total use of renewable primary energy resources (PERT) [MJ]	4,06E-03	1,74E-01	-5,32E+00	8,71E-03	2,60E-01	4,06E-03	2,96E-02	0	3,31E-02	1,25E+00
	Use of non-renewable primary energy (PENRE) [MJ]	7,18E-01	3,07E+00	1,16E+00	6,65E-02	8,87E-01	7,18E-01	5,22E-01	0	1,96E+00	9,22E-02
	Non-renewable primary energy resources used as raw materials (PENRM) [MJ] *	0	0	0	0	0	0	0	0	0	0
	Total use of non-renewable primary energy resources (PENRT) [MJ]	7,18E-01	3,07E+00	1,16E+00	6,65E-02	8,87E-01	7,18E-01	5,22E-01	0	1,96E+00	9,41E-02
	Input of secondary material (SM) [kg]	0	0	0	0	0	0	0	0	0	0
	Use of renewable secondary fuels (RSF) [MJ]	0	0	0	0	0	0	0	0	0	0
	Use of non-renewable secondary fuels (NRSF) [MJ]	0	0	0	0	0	0	0	0	0	0
	Use of net fresh water (FW) [m <sup>3</sup> ]	4,11E-05	1,97E-04	6,78E-04	1,68E-05	3,33E-04	4,11E-05	3,35E-05	0	1,98E-03	-1,37E-04

\* For this study, both the product and its packaging are reported in the indicators "Use of renewable primary energy resources used as raw materials" ("PERM") and "Use of non-renewable primary energy resources used as raw materials" ("PENRM"). PERM and PENRM are reported as negative values when materials are recycled or recovered, but not when landfilled.

## Waste Category & Output flows - National electricity grid mix

Waste Category & Output Flows	PRODUCT STAGE	CONSTRUCTION STAGE		USE STAGE						
	A1 / A2 / A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use
 Hazardous waste disposed (HWD) [kg]	9,24E-06	1,49E-11	6,09E-07	0	0	0	0	0	0	0
 Non-hazardous waste disposed (NHWD) [kg]	7,75E-02	4,47E-04	2,19E-01	0	0	0	0	0	0	0
 Radioactive waste disposed (RWD) [kg]	6,89E-04	3,84E-06	1,75E-05	0	0	0	0	0	0	0
 Components for re-use (CRU) [kg]	0	0	0	0	0	0	0	0	0	0
 Materials for Recycling (MFR) [kg]	3,45E-02	0	6,37E-01	0	0	0	0	0	0	0
 Material for Energy Recovery (MER) [kg]	0	0	0	0	0	0	0	0	0	0
 Exported electrical energy (EEE) [MJ]	0	0	2,47E-02	0	0	0	0	0	0	0
 Exported thermal energy (EET) [MJ]	0	0	4,40E-02	0	0	0	0	0	0	0

## Waste Category & Output flows - National electricity grid mix

Waste Category & Output Flows		100% recycling					100% landfill				
		END OF LIFE STAGE				REUSE, RECOVERY, RECYCLING	END OF LIFE STAGE				REUSE, RECOVERY, RECYCLING
		C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
	Hazardous waste disposed (HWD) [kg]	1,97E-06	1,47E-11	2,70E-06	1,01E-09	5,55E-08	1,97E-06	2,50E-12	0	2,75E-06	2,97E-06
	Non-hazardous waste disposed (NHWD) [kg]	4,12E-03	4,39E-04	6,61E-02	3,35E-01	-1,04E-04	4,12E-03	7,48E-05	0	1,30E+01	7,30E-02
	Radioactive waste disposed (RWD) [kg]	4,98E-06	3,78E-06	8,47E-06	7,57E-07	1,22E-04	4,98E-06	6,43E-07	0	1,34E-05	-6,90E-05
	Components for re-use (CRU) [kg]	0	0	0	0	0	0	0	0	0	0
	Materials for Recycling (MFR) [kg]	0	0	1,27E+01	0	0	0	0	0	0	0
	Material for Energy Recovery (MER) [kg]	0	0	0	0	0	0	0	0	0	0
	Exported electrical energy (EEE) [MJ]	0	0	0	0	0	0	0	0	0	0
	Exported thermal energy (EET) [MJ]	0	0	0	0	0	0	0	0	0	0

## Information on biogenic carbon content

Biogenic Carbon Content at factory gate		Value (express per FU)
 Biogenic carbon content in product [kg]		1,72E-01
 Biogenic carbon content in packaging [kg]		4,67E-05

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO<sub>2</sub>.

The biogenic carbon content in product mainly comes from maize starch, dextrose and paper liner.

The biogenic carbon content in the packaging is very low, and it mainly comes from the paper label.



## Additional Norwegian requirements

### Electricity information

The table below presents the information for the physical national grid mix:

Type of information	Description
Location	Electricity purchased by Saint-Gobain Construction Products Norway.
Share of electricity covered by Guarantee of Origin	0% of the energy consumption is covered by the GO
Energy sources for electricity	Share of energy sources: Hydro 95,19% Wind 2,64% Natural gas 1,76% Waste 0,23% Hard coal 0,12% Fuel oil 0,02% Biomass 0,01% Biogas 0,01%
Type of dataset	Cradle to gate from Gabi and ecoinvent databases
Source	Dataset Gabi NO: Electricity grid mix
CO <sub>2</sub> emission kg CO <sub>2</sub> eq. / kWh	0,0329 kg of CO <sub>2</sub> eq/kWh - Climate Change - total indicator

The table below presents the information for the renewable electricity based on Guarantee of Origin certificates (GOs):

Type of information	Description
Location	Electricity purchased by Saint-Gobain Construction Products Norway.
Share of electricity covered by Guarantee of Origin	100% of the energy consumption is covered by the GO
Energy sources for electricity	Share of energy sources: 100% Hydro power
Type of dataset	Cradle to gate from Gabi and ecoinvent databases
Source	Dataset Gabi EU-28: Electricity from hydro power
CO <sub>2</sub> emission kg CO <sub>2</sub> eq. / kWh	0,00621 kg of CO <sub>2</sub> eq/kWh - Climate Change - total indicator

## Additional impact indicator (GWP-IOBC / GWP-GHG)

Indicators	PRODUCT STAGE	CONSTRUCTION STAGE		USE STAGE							END OF LIFE STAGE				REUSE, RECOVERY, RECYCLING
	A1 / A2 / A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
<b>With National Electricity Grid Mix</b>															
GWP-IOBC* / GWP-GHG* [kg CO <sub>2</sub> eq.]	1,09E+00	2,32E-01	6,53E-01	0	0	0	0	0	0	0	100% recycling				
											5,26E-02	2,29E-01	8,18E-02	5,10E-03	5,05E-02
											100% landfill				
											5,26E-02	3,89E-02	0	4,49E-01	-3,46E-02
<b>With Electricity purchased with Guarantee of Origin</b>															
GWP-IOBC* / GWP-GHG* [kg CO <sub>2</sub> eq.]	8,64E-01	2,32E-01	6,41E-01	0	0	0	0	0	0	0	100% recycling				
											5,26E-02	2,29E-01	8,18E-02	5,10E-03	5,05E-02
											100% landfill				
											5,26E-02	3,89E-02	0	4,49E-01	-3,46E-02

\*The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product.

### Hazardous substances

The product contains no substances given by the REACH Candidate list or the Norwegian priority list.

### Indoor environment

Gyproc® Protect F Klima has a M1 classification and Danish Indoor Climate Label (emission class 1).

### Carbon footprint

The GWP-IOBC value can be found on page 16.








## Additional Information

### Transport to other countries

The results of stage A4 presented in the tables above refers to Norway. As the product is exported to other countries, conversion factors for each country have been provided. To get the impact for transport to these countries, the A4 figures shall be multiplied with the relevant factor.

Country	Transport and distance	Factor
Norway	Truck (300 km)	1,0
Denmark	Truck (600 km)	2,0
Finland	Truck (800 km), Ship (400 km)	2,9
Sweden	Truck (500 km)	1,7








## Environmental Impacts – 100 % renewable electricity with GO's

Environmental indicators		PRODUCT STAGE	CONSTRUCTION STAGE		USE STAGE						
		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use
	Climate Change (total) [kg CO <sub>2</sub> eq.] <sup>(a)</sup>	2,22E-01	2,35E-01	5,60E-01	0	0	0	0	0	0	0
	Climate Change (fossil) [kg CO <sub>2</sub> eq.]	8,61E-01	2,30E-01	1,22E-01	0	0	0	0	0	0	0
	Climate Change (biogenic) [kg CO <sub>2</sub> eq.]	-6,40E-01	2,96E-03	4,39E-01	0	0	0	0	0	0	0
	Climate Change (land use change) [kg CO <sub>2</sub> eq.]	1,00E-03	1,30E-03	1,67E-04	0	0	0	0	0	0	0
	Ozone depletion [kg CFC-11 eq.]	2,46E-08	1,39E-14	1,99E-09	0	0	0	0	0	0	0
	Acidification terrestrial and freshwater [Mole of H <sup>+</sup> eq.]	5,94E-03	2,91E-04	4,59E-04	0	0	0	0	0	0	0
	Eutrophication freshwater [kg P eq.]	3,57E-05	6,94E-07	9,80E-06	0	0	0	0	0	0	0
	Eutrophication marine [kg N eq.]	2,42E-03	1,06E-04	2,20E-04	0	0	0	0	0	0	0
	Eutrophication terrestrial [Mole of N eq.]	2,48E-02	1,23E-03	1,84E-03	0	0	0	0	0	0	0
	Photochemical ozone formation - human health [kg NMVOC eq.]	5,61E-03	2,57E-04	5,91E-04	0	0	0	0	0	0	0
	Resource use, mineral and metals [kg Sb eq.] <sup>3</sup>	1,54E-06	1,94E-08	1,05E-07	0	0	0	0	0	0	0
	Resource use, energy carriers [MJ] <sup>1</sup>	1,17E+01	3,11E+00	1,17E+00	0	0	0	0	0	0	0
	Water deprivation potential [m <sup>3</sup> world equiv.] <sup>1</sup>	7,98E-01	2,09E-03	7,95E-02	0	0	0	0	0	0	0

<sup>3</sup> Disclaimer 2: The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

<sup>(a)</sup> The total global warming potential (GWP-total) is the sum of GWP fossil, GWP biogenic and GWP land use change











## Environmental Impacts – 100 % renewable electricity with GO's

Environmental indicators		100% recycling					100% landfill				
		END OF LIFE STAGE				REUSE, RECOVERY, RECYCLING	END OF LIFE STAGE				REUSE, RECOVERY, RECYCLING
		C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
	Climate Change (total) [kg CO <sub>2</sub> eq.] <sup>(a)</sup>	5,26E-02	2,31E-01	7,28E-01	6,64E-03	5,05E-02	5,26E-02	3,93E-02	0,00E+00	1,02E+00	-3,46E-02
	Climate Change (fossil) [kg CO <sub>2</sub> eq.]	5,26E-02	2,27E-01	7,15E-02	5,07E-03	5,01E-02	5,26E-02	3,86E-02	0,00E+00	7,52E-02	-4,15E-02
	Climate Change (biogenic) [kg CO <sub>2</sub> eq.]	7,12E-05	2,92E-03	6,57E-01	1,56E-03	3,45E-04	7,12E-05	4,97E-04	0,00E+00	9,43E-01	5,72E-03
	Climate Change (land use change) [kg CO <sub>2</sub> eq.]	5,55E-06	1,28E-03	9,84E-05	1,46E-05	6,46E-05	5,55E-06	2,17E-04	0,00E+00	9,17E-05	1,15E-03
	Ozone depletion [kg CFC-11 eq.]	1,12E-08	1,37E-14	1,41E-08	1,88E-17	2,03E-10	1,12E-08	2,34E-15	0,00E+00	2,64E-08	1,88E-08
	Acidification terrestrial and freshwater [Mole of H <sup>+</sup> eq.]	5,46E-04	2,82E-04	4,54E-04	3,64E-05	2,19E-04	5,46E-04	4,80E-05	0,00E+00	6,85E-04	8,06E-04
	Eutrophication freshwater [kg P eq.]	1,63E-06	6,83E-07	7,93E-06	8,71E-09	6,65E-06	1,63E-06	1,16E-07	0,00E+00	5,98E-06	1,75E-04
	Eutrophication marine [kg N eq.]	2,42E-04	1,02E-04	1,67E-04	9,36E-06	6,72E-05	2,42E-04	1,73E-05	0,00E+00	2,32E-04	2,99E-04
	Eutrophication terrestrial [Mole of N eq.]	2,65E-03	1,18E-03	1,74E-03	1,03E-04	6,23E-04	2,65E-03	2,02E-04	0,00E+00	2,54E-03	1,82E-03
	Photochemical ozone formation - human health [kg NMVOC eq.]	7,29E-04	2,49E-04	5,17E-04	2,83E-05	1,87E-04	7,29E-04	4,24E-05	0,00E+00	8,38E-04	5,98E-04
	Resource use, mineral and metals [kg Sb eq.] <sup>4</sup>	2,70E-08	1,91E-08	4,61E-07	4,55E-10	5,90E-08	2,70E-08	3,26E-09	0,00E+00	1,50E-07	1,01E-06
	Resource use, energy carriers [MJ] <sup>1</sup>	7,18E-01	3,06E+00	1,16E+00	6,65E-02	8,85E-01	7,18E-01	5,21E-01	0,00E+00	1,96E+00	9,39E-02
	Water deprivation potential [m <sup>3</sup> world equiv.] <sup>1</sup>	1,77E-03	2,05E-03	2,91E-02	5,31E-04	1,46E-02	1,77E-03	3,50E-04	0,00E+00	8,48E-02	1,26E-01

<sup>4</sup> Disclaimer 2: The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator











<sup>(a)</sup> The total global warming potential (GWP-total) is the sum of GWP fossil, GWP biogenic and GWP land use change

## Resources Use – 100 % renewable electricity with GO's

Resources Use indicators	PRODUCT STAGE	CONSTRUCTION STAGE		USE STAGE						
	A1 / A2 / A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use
 Use of renewable primary energy (PERE) [MJ]	4,57E+01	1,77E-01	2,43E+00	0	0	0	0	0	0	0
 Use of renewable primary energy resources used as raw materials (PERM) [MJ] *	5,72E+00	0	0	0	0	0	0	0	0	0
 Total use of renewable primary energy resources (PERT) [MJ]	5,14E+01	1,77E-01	2,43E+00	0	0	0	0	0	0	0
 Use of non-renewable primary energy (PENRE) [MJ]	1,15E+01	3,12E+00	1,16E+00	0	0	0	0	0	0	0
 Non-renewable primary energy resources used as raw materials (PENRM) [MJ] *	6,51E-01	0	-1,11E-01	0	0	0	0	0	0	0
 Total use of non-renewable primary energy resources (PENRT) [MJ]	1,21E+01	3,12E+00	1,05E+00	0	0	0	0	0	0	0
 Input of secondary material (SM) [kg]	1,66E+00	0	8,47E-02	0	0	0	0	0	0	0
 Use of renewable secondary fuels (RSF) [MJ]	2,299E-24	0	1,174E-25	0	0	0	0	0	0	0
 Use of non-renewable secondary fuels (NRSF) [MJ]	2,701E-23	0	1,379E-24	0	0	0	0	0	0	0
 Use of net fresh water (FW) [m <sup>3</sup> ]	2,17E-02	2,00E-04	2,00E-03	0	0	0	0	0	0	0









\* For this study, both the product and its packaging are reported in the indicators "Use of renewable primary energy resources used as raw materials" ("PERM") and "Use of non-renewable primary energy resources used as raw materials" ("PENRM"). PERM and PENRM are reported as negative values when materials are recycled or recovered, but not when landfilled.

## Resources Use – 100 % renewable electricity with GO's









Resources Use indicators		100% recycling					100% landfill				
		END OF LIFE STAGE				REUSE, RECOVERY, RECYCLING	END OF LIFE STAGE				REUSE, RECOVERY, RECYCLING
		C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
	Use of renewable primary energy (PERE) [MJ]	4,06E-03	1,74E-01	1,78E-01	8,71E-03	2,60E-01	4,06E-03	2,96E-02	0	3,31E-02	1,25E+00
	Use of renewable primary energy resources used as raw materials (PERM) [MJ] *	0	0	-5,49E+00	0	0	0	0	0	0	0
	Total use of renewable primary energy resources (PERT) [MJ]	4,06E-03	1,74E-01	-5,32E+00	8,71E-03	2,60E-01	4,06E-03	2,96E-02	0	3,31E-02	1,25E+00
	Use of non-renewable primary energy (PENRE) [MJ]	7,18E-01	3,07E+00	1,16E+00	6,65E-02	8,87E-01	7,18E-01	5,22E-01	0	1,96E+00	9,22E-02
	Non-renewable primary energy resources used as raw materials (PENRM) [MJ] *	0	0	0	0	0	0	0	0	0	0
	Total use of non-renewable primary energy resources (PENRT) [MJ]	7,18E-01	3,07E+00	1,16E+00	6,65E-02	8,87E-01	7,18E-01	5,22E-01	0	1,96E+00	9,41E-02
	Input of secondary material (SM) [kg]	0	0	0	0	0	0	0	0	0	0
	Use of renewable secondary fuels (RSF) [MJ]	0	0	0	0	0	0	0	0	0	0
	Use of non-renewable secondary fuels (NRSF) [MJ]	0	0	0	0	0	0	0	0	0	0
	Use of net fresh water (FW) [m <sup>3</sup> ]	4,11E-05	1,97E-04	6,78E-04	1,68E-05	3,33E-04	4,11E-05	3,35E-05	0	1,98E-03	-1,37E-04

\* For this study, both the product and its packaging are reported in the indicators "Use of renewable primary energy resources used as raw materials" ("PERM") and "Use of non-renewable primary energy resources used as raw materials" ("PENRM"). PERM and PENRM are reported as negative values when materials are recycled or recovered, but not when landfilled.

## Waste Category & Output flows - 100 % renewable electricity with GO's

Waste Category & Output Flows	PRODUCT STAGE	CONSTRUCTION STAGE		USE STAGE						
	A1 / A2 / A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use
 Hazardous waste disposed (HWD) [kg]	9,24E-06	1,49E-11	6,09E-07	0	0	0	0	0	0	0
 Non-hazardous waste disposed (NHWD) [kg]	7,07E-02	4,47E-04	2,19E-01	0	0	0	0	0	0	0
 Radioactive waste disposed (RWD) [kg]	1,40E-04	3,84E-06	-1,05E-05	0	0	0	0	0	0	0
 Components for re-use (CRU) [kg]	0	0	0	0	0	0	0	0	0	0
 Materials for Recycling (MFR) [kg]	3,45E-02	0	6,37E-01	0	0	0	0	0	0	0
 Material for Energy Recovery (MER) [kg]	0	0	0	0	0	0	0	0	0	0
 Exported electrical energy (EEE) [MJ]	0	0	2,47E-02	0	0	0	0	0	0	0
 Exported thermal energy (EET) [MJ]	0	0	4,40E-02	0	0	0	0	0	0	0





## Waste Category & Output flows - 100% renewable electricity with GO's

Waste Category & Output Flows		100% recycling					100% landfill				
		END OF LIFE STAGE				REUSE, RECOVERY, RECYCLING	END OF LIFE STAGE				REUSE, RECOVERY, RECYCLING
		C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
	Hazardous waste disposed (HWD) [kg]	1,97E-06	1,47E-11	2,70E-06	1,01E-09	1,97E-06	1,97E-06	2,50E-12	0	2,75E-06	2,97E-06
	Non-hazardous waste disposed (NHWD) [kg]	4,12E-03	4,39E-04	6,61E-02	3,35E-01	4,12E-03	4,12E-03	7,48E-05	0	1,30E+01	7,30E-02
	Radioactive waste disposed (RWD) [kg]	4,98E-06	3,78E-06	8,47E-06	7,57E-07	4,98E-06	4,98E-06	6,43E-07	0	1,34E-05	-6,90E-05
	Components for re-use (CRU) [kg]	0	0	0	0	0	0	0	0	0	0
	Materials for Recycling (MFR) [kg]	0	0	1,27E+01	0	0	0	0	0	0	0
	Material for Energy Recovery (MER) [kg]	0	0	0	0	0	0	0	0	0	0
	Exported electrical energy (EEE) [MJ]	0	0	0	0	0	0	0	0	0	0
	Exported thermal energy (EET) [MJ]	0	0	0	0	0	0	0	0	0	0



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