

# ENVIRONMENTAL PRODUCT DECLARATION

in accordance with ISO 14025, ISO 21930 and EN 15804

Owner of the declaration:	Saint-Gobain Sweden AB, Scanspac
Program operator:	The Norwegian EPD Foundation
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## Dalapro Design


Saint-Gobain Sweden AB, Scanspac

**Dalapro**<sup>®</sup>

[www.epd-norge.no](http://www.epd-norge.no)



## General information

<p><b>Product:</b></p> <p>Dalapro Design</p>	<p><b>Owner of the declaration:</b></p> <p>Saint-Gobain Sweden AB, Scanspac          Contact person: Christian Nilsson          Phone: +46 (0)19-46 34 00          e-mail: info@dalapro.se</p>
<p><b>Program operator:</b></p> <p>The Norwegian EPD Foundation          Pb. 5250 Majorstuen, 0303 Oslo          Phone: +47 23 08 80 00          e-mail: <a href="mailto:post@epd-norge.no">post@epd-norge.no</a></p>	<p><b>Manufacturer:</b></p> <p>Saint-Gobain Sweden AB, Scanspac          Kemivägen 7 , SE-705 97 Glanshammar          Sweden</p>
<p><b>Declaration number:</b></p> <p>NEPD-2698-1397-EN</p>	<p><b>Place of production:</b></p> <p>Saint-Gobain Sweden AB, Scanspac          Kemivägen 7 , SE-705 97 Glanshammar          Sweden</p>
<p><b>ECO Platform reference number:</b></p>	<p><b>Management system:</b></p> <p>ISO 9001, ISO 14001</p>
<p><b>This declaration is based on Product Category Rules:</b></p> <p>CEN Standard EN 15804:2012+A1:2013 serves as core PCR.          NPCR 009:2018 Part B for Technical - Chemical products in the building and construction industry</p>	<p><b>Organisation no:</b></p> <p>556241-2592</p>
<p><b>Statement of liability:</b></p> <p>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 evidences.</p>	<p><b>Issue date:</b> 23.02.2021</p> <p><b>Valid to:</b> 23.02.2026</p>
<p><b>Declared unit:</b></p> <p>1 kg Dalapro Design</p>	<p><b>Year of study:</b></p> <p>2018</p>
<p><b>Declared unit with option:</b></p> <p>A1,A2,A3,A4</p>	<p><b>Comparability:</b></p> <p>EPD of construction products may not be comparable if they not comply with EN 15804 and seen in a building context.</p>
<p><b>Functional unit:</b></p>	<p><b>Development and verification of EPD:</b></p> <p>The declaration has been developed and verified using EPD tool lca.tools ver EPD2020.11, developed by LCA.no AS. The EPD tool is integrated into the company's environmental management system, and has been approved by EPD-Norway</p>
<p><b>General information on verification of EPD from EPD tools:</b></p> <p>Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Individual third party verification of each EPD is not required when the EPD tool is i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPDNorway, and iii) the process is reviewed annually. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools.</p>	<p>Developer of EPD:</p> <p>Ellinor Johansson</p> <p>Reviewer of company-specific input data and EPD:</p> <p>Christian Nilsson</p>
<p><b>Verification of EPD tool:</b></p> <p>Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPDNorway's procedures and guidelines for verification and approval of EPD tools.</p> <p>Anne Rønning, Norsus AS          (no signature required)</p>	<p><b>Approved:</b></p> <p>Sign</p>  <p>Håkon Hauan, CEO EPD-Norge</p>

## Product

### Product description:

Dalapro Design is a pigmented, ready-mixed hand filler with that is easy to work with, for indoor use, producing a vibrant surface with unique colour variations. Available in Calm Green, Concrete Grey and white. The white filler is available to tint in all colours. See separate product data sheet for Dalapro Design White Mix.

### MATERIAL CONSUMPTION

Consumption depends on the substrate. Allow approx. 1.5 litres of filler per square metre for the first application and approx. 0.5 litres per square metre for the second application.

### Product specification

Packaging: 10-litre plastic bucket

Materials	%
Filler Dolomite	40-50%
Water	30-50%
Filler Perlite	1-10%
Binder	1-5%
Thickener	0,5-5%
Additive	0,5-5%

### Technical data:

Binding agent: Latex co-polymer  
Solvent: Water  
Grain size: Max. 0.2 mm  
pH: Approx. 9  
Colour: White, Grey and Green

### Market:

Europe

### Reference service life, product

Filler has a limited shelf life and is date-marked. Unopened packaging can be kept in a dark place, free from frost, for up to 12 months. Packaging that has been opened must be sealed well and the content should be used within 1–2 weeks. Visit [dalapro.com](http://dalapro.com) for more information.

### Reference service life, building

Not part of the declaration.

## LCA: Calculation rules

### Declared unit:

1 kg Dalapro Design

### Cut-off criteria:

All major raw materials and all the essential energy is included. The production processes for raw materials and energy flows with very small amounts (less than 1%) are not included. These cut-off criteria do not apply for hazardous materials and substances.

### Data quality:

Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other LCA databases. The data quality of the raw materials in A1 is presented in the table below.

Materials	Source	Data quality	Year
Chemicals	Chemicals below cut-off	No data	0
Additives	ecoinvent 3.4	Database	2017
Cellulose Ether	ecoinvent 3.4	Database	2017
Filler	ecoinvent 3.4	Database	2017
Packaging	ecoinvent 3.4	Database	2017
Water	ecoinvent 3.4	Database	2017
Packaging	Modified ecoinvent 3.4	Database	2017

### Allocation:

The allocation is made in accordance with the provisions of EN 15804. Incoming energy and water and waste production in-house is allocated equally among all products through mass allocation. Effects of primary production of recycled materials is allocated to the main product in which the material was used. The recycling process and transportation of the material is allocated to this analysis.

System boundary:

A1



A2



A3



A4



Additional technical information:

Dalapro Design meets the CE-marking requirements in accordance with EN 15824. Manufactured in accordance with ISO 9001 and ISO 14001.

## LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD.

### Transport from production place to user (A4)

Type	Capacity utilisation (incl. return) %	Type of vehicle	Distance km	Fuel/Energy consumption	Unit	Value (l/t)
Truck	55,0 %	Truck, lorry over 32 tonnes, EURO 5	300	0,022823	l/tkm	6,85
Railway					l/tkm	
Boat					l/tkm	
Other Transportation					l/tkm	

### Assembly (A5)

	Unit	Value
Auxiliary	kg	
Water consumption	m <sup>3</sup>	
Electricity consumption	kWh	
Other energy carriers	MJ	
Material loss	kg	
Output materials for waste treatment	kg	
Dust in the air	kg	
VOC emissions	kg	

### Use (B1)

	Unit	Value

### Maintenance (B2)/Repair (B3)

	Unit	Value
Maintenance cycle*		
Auxiliary		
Other resources		
Water consumption	m <sup>3</sup>	
Electricity consumption	kWh	
Other energy carriers	MJ	
Material loss	kg	
VOC emissions	kg	

### Replacement (B4)/Refurbishment (B5)

	Unit	Value
Replacement cycle*		
Electricity consumption	kWh	
Replacement of worn parts		

\* Described above if relevant

### Operational energy (B6) and water consumption (B7)

	Unit	Value
Water consumption	m <sup>3</sup>	
Electricity consumption	kWh	
Other energy carriers	MJ	
Power output of equipment	kW	

### End of Life (C1, C2)

	Unit	Value
Hazardous waste disposed	kg	
Collected as mixed construction waste	kg	
Reuse	kg	
Recycling		
Energy recovery		
To landfill	kg	

### Transport to waste processing (C2)

Type	Capacity utilisation (incl. return) %	Type of vehicle	Distance km	Fuel/Energy consumption	Unit	Value (l/t)
Truck					l/tkm	
Railway					l/tkm	
Boat					l/tkm	
Other Transportation					l/tkm	

## LCA: Results

The LCA results are presented below for the declared unit defined on page 2 of the EPD document.

### System boundaries (X=included, MND=module not declared, MNR=module not relevant)

Product stage				Construction installation stage	User stage							End of life stage				Beyond the system boundaries
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND

### Environmental impact

Parameter	Unit	A1	A2	A3	A4
GWP	kg CO <sub>2</sub> -eq	2,32E-01	1,13E-02	4,41E-03	2,62E-02
ODP	kg CFC11 -eq	1,40E-08	1,46E-09	6,35E-10	5,10E-09
POCP	kg C <sub>2</sub> H <sub>4</sub> -eq	9,45E-05	3,84E-06	1,63E-06	4,23E-06
AP	kg SO <sub>2</sub> -eq	1,58E-03	1,06E-04	3,22E-05	8,51E-05
EP	kg PO <sub>4</sub> <sup>3-</sup> -eq	3,76E-04	1,11E-05	1,58E-05	1,43E-05
ADPM	kg Sb -eq	8,74E-07	9,96E-09	1,81E-08	5,91E-08
ADPE	MJ	4,84E+00	1,69E-01	4,15E-02	4,11E-01

GWP Global warming potential; ODP Depletion potential of the stratospheric ozone layer; POCP Formation potential of tropospheric photochemical oxidants; AP Acidification potential of land and water; EP Eutrophication potential; ADPM Abiotic depletion potential for non fossil resources; ADPE Abiotic depletion potential for fossil resources

Reading example: 9,0 E-03 = 9,0\*10<sup>-3</sup> = 0,009

\*INA Indicator Not Assessed

Resource use

Parameter	Unit	A1	A2	A3	A4
RPEE	MJ	1,34E+00	3,39E-03	2,61E-01	7,42E-03
RPEM	MJ	8,71E-01	0,00E+00	1,45E-04	0,00E+00
TPE	MJ	2,21E+00	3,39E-03	2,62E-01	7,42E-03
NRPE	MJ	5,59E+00	1,75E-01	4,40E-02	4,23E-01
NRPM	MJ	2,01E+00	0,00E+00	0,00E+00	0,00E+00
TRPE	MJ	7,61E+00	1,75E-01	4,40E-02	4,23E-01
SM	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
W	m <sup>3</sup>	2,66E-03	3,58E-05	4,85E-04	9,98E-05

RPEE Renewable primary energy resources used as energy carrier; RPEM Renewable primary energy resources used as raw materials; TPE Total use of renewable primary energy resources; NRPE Non renewable primary energy resources used as energy carrier; NRPM Non renewable primary energy resources used as materials; TRPE Total use of non renewable primary energy resources; SM Use of secondary materials; RSF Use of renewable secondary fuels; NRSF Use of non renewable secondary fuels; W Use of net fresh water

Reading example: 9,0 E-03 = 9,0\*10<sup>-3</sup> = 0,009

\*INA Indicator Not Assessed

End of life - Waste

Parameter	Unit	A1	A2	A3	A4
HW	kg	3,28E-06	9,70E-08	1,69E-04	2,25E-07
NHW	kg	9,91E-02	1,15E-02	6,97E-03	3,84E-02
RW	kg	INA*	INA*	INA*	INA*

HW Hazardous waste disposed; NHW Non hazardous waste disposed; RW Radioactive waste disposed

Reading example: 9,0 E-03 = 9,0\*10<sup>-3</sup> = 0,009

\*INA Indicator Not Assessed

End of life - Output flow

Parameter	Unit	A1	A2	A3	A4
CR	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MR	kg	0,00E+00	0,00E+00	7,61E-04	0,00E+00
MER	kg	0,00E+00	0,00E+00	9,79E-03	0,00E+00
EEE	MJ	INA*	INA*	INA*	INA*
ETE	MJ	INA*	INA*	INA*	INA*

CR Components for reuse; MR Materials for recycling; MER Materials for energy recovery; EEE Exported electric energy; ETE Exported thermal energy

Reading example: 9,0 E-03 = 9,0\*10<sup>-3</sup> = 0,009

\*INA Indicator Not Assessed

## Additional Norwegian requirements

### Greenhouse gas emissions from the use of electricity in the manufacturing phase

National production mix from import, low voltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity for the manufacturing process (A3).

Electricity mix	Data source	Amount	Unit
Renewable electricity with Guarantee of Origin from LOS (kWh)	Modified ecoinvent 3.4	60,20	g CO2-ekv/kWh

### Dangerous substances

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

### Indoor environment

## Bibliography

ISO 14025:2010 Environmental labels and declarations - Type III environmental declarations - Principles and procedures.

ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines.

EN 15804:2012+A1:2013 Environmental product declaration - Core rules for the product category of construction products.

ISO 21930:2017 Sustainability in buildings and civil engineering works. Core rules for environmental product declarations of construction products.





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Iversen et al., (2019) EPD generator for Saint-Gobain Weber and Scanspac - Background information and LCA data, LCA.no report number 05.18

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