

## ENVIRONMENTAL PRODUCT DECLARATION

in accordance with ISO 14025, ISO 21930 and EN 15804

Owner of the declaration:	Hunton Fiber AS
Program operator:	The Norwegian EPD Foundation
Publisher:	The Norwegian EPD Foundation
Declaration number:	NEPD-2287-1041-EN
Registration number:	NEPD-2287-1041-EN
ECO Platform reference number:	-
Issue date:	06.07.2020 - Rev. 10.11.2023
Valid to:	06.07.2025

### Hunton Nativo® Yood Øbre Insulation Board

Hunton Fiber AS

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



## General information

**Product:**

Hunton Nativo® Wood Fibre Insulation Board

**Program operator:**

The Norwegian EPD Foundation  
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**Declaration number:**

NEPD-2287-1041-ØP

**ECO Platform reference number:**
**This declaration is based on Product Category Rules**

CEN Standard EN 15804 serves as core PCR  
 NPCR 012 Insulation materials v.2 (06/2018).

**Statement of liability**

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

**Declared unit:**
**Declared unit with option:**
**Functional unit:**

1 m<sup>2</sup> wood fibre insulation installed in a thickness of 110 mm and a thermal resistance of R<sub>M</sub> 5 m<sup>2</sup> K/W from cradle-to-grave with a reference lifecycle of 100 years.

**Verification**

Independent verification of declaration and data in accordance with ISO 14025:2010

 internal

 external

Third party verifier



Christopher Skaar, PhD

Independent verified approved by EPD Porwa®

**Owner of the declaration:**

Hunton Fiber AS  
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**Manufacturer:**

Hunton Fiber AS

**Place of production:**

Gjøvik, Norge

**Management system:**

ISO 50001:2011  
 ISO 9001:2015  
 PEFC ST 2002:2013

**Org. no.:**

964 014 256

**Issue date:**

06.07.2020 - Rev. 10.11.2023

**Valid to:**

06.07.2025

**Year of study:**

2015-2020  
 Updated 2023

**Comparability:**

EPD of construction products may not be comparable if they do not comply with EN 15804 and are used in a building context.

**The EPD has been worked out by and updated by:**

Lars G. F. Tellnes      Maciej Biedacha  
 Østfoldforskning AS      NORSUS AS




Approved



Håkon Hauan  
 (Managing Director of EPD Porwa®)

## Product

### Product description:

Hunton Nativo® Wood Fibre Insulation Board is produced by defibration of wood chips which are then mixed with additives for structure and fire resistance. Used for thermal insulation of walls, roofs and ceilings in buildings.

### Product specification:

Applies to all dimensions of wood fibre insulation boards.

### Technical data:

Wood fibre insulation board has a thermal conductivity of (23°C/50 % RH) 0.038 W/mK at a density of 50 kg/m<sup>3</sup>. Thermal conductivity has been tested in accordance with EN 13171, which is also the harmonised standard the product is produced in compliance with.

### Market area:

Nordics, scenarios in LCA have been calculated based on use in Norway.

Materials	kg	%
Wood fibre, dry weight	1,54	81,2 %
Water	0,15	8,0 %
Amonium phosphate	0,15	8,1 %
Polyolefin fibre	0,05	2,7 %
Total for product	1,90	100,0 %
Wooden packaging	0,11	
Plastic packaging	0,03	
Total, with packaging	2,04	

### Lifecycle:

Reference lifecycle is the same as that of the construction, usually set to 100 years. This is based on UBT (FÖX) for the product and the assumptions therein.

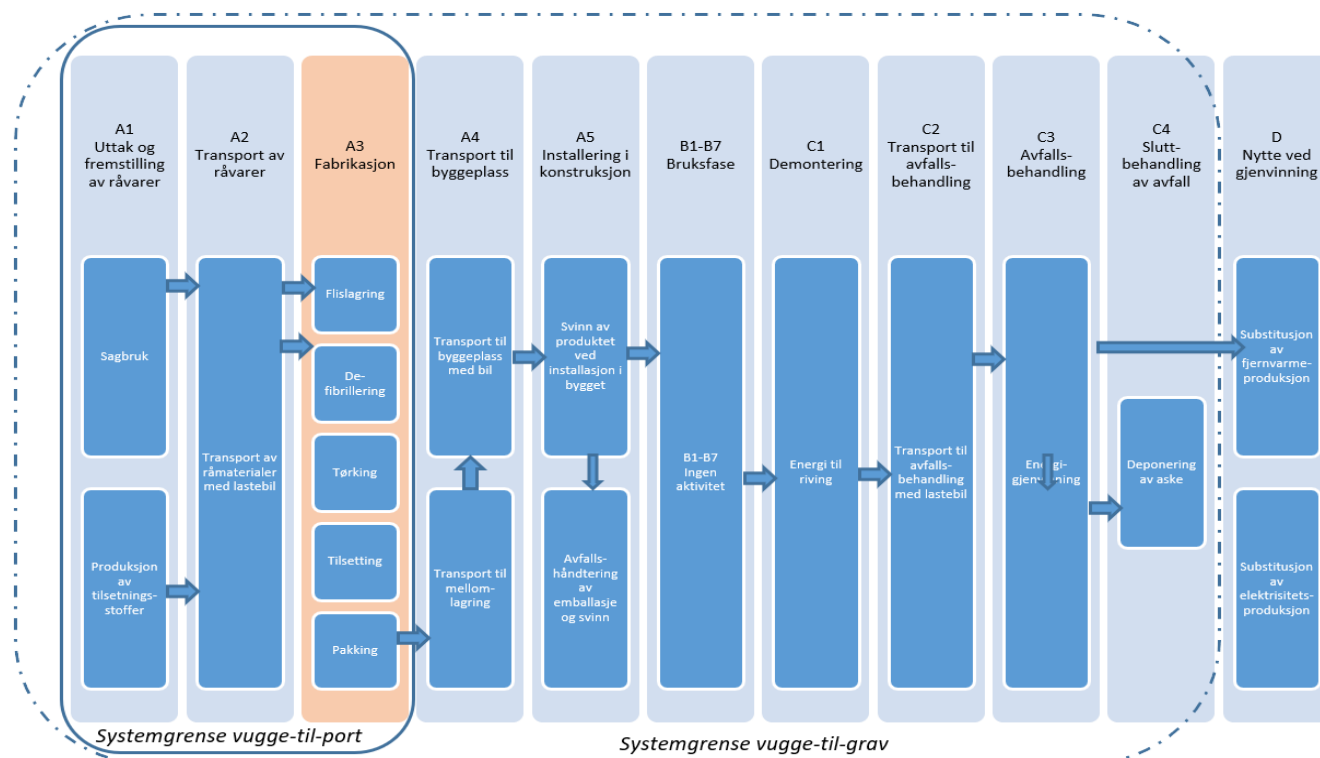
## LCA: Calculation rules

### Functional unit:

1 m<sup>2</sup> wood fibre insulation installed in a thickness of 38 mm and a thermal resistance of R<sub>M</sub> 1 Km<sup>2</sup>/W from cradle to grave with a reference lifecycle of 100 years.

### System boundary:

Flowchart for the entire lifecycle (A1-ECI) with system boundaries has been shown in the diagram below. Module Ö has also been included outside the lifecycle with energy and material substitution from recycling, and is elaborated upon under the scenarios.



**Data quality:**

Data for the production of wood fibre insulation is based on half a year of production in 2019. For the raw material wood chips, it is based on ecoinvent and updated with Norwegian data. The remaining data is based on ecoinvent v3.5, but adjusted to improve representativity. Ecoinvent v3.5 was launched in 2018, and no data is older than 10 years. All energy consumption in database figures are assumed not used as raw material.

**Cut-off criteria:**

All important raw materials and all significant energy consumption have been included. The production process for the raw materials and energy flows involved as very small amounts (<1%) have not been included. These cut-off criteria do not apply for hazardous materials and substances.

**Allocation:**

Allocation has been made in accordance with provisions of EN 15804. Electricity consumption in production has been allocated by specific energy consumption for the various products, while remaining energy consumption, water, waste and internal transport have been allocated by mass across products. Impact on the primary production of recycled materials has been allocated to the main product where the material was used. In the value chain for timber, economic allocation has been used.

**Calculation of biogenic carbon content:**

Absorbance and release of carbon dioxide from biological origin has been calculated based on NS-EN 16485:2014. This method is based on the principle of modularity in EN 15804:2012, where release must be counted in the lifecycle module where it actually happens. The amount of carbon dioxide has been calculated in accordance with NS-EN 16449:2014. The net contribution to GWP from biogenic carbon is shown for each module on page 8. Timber comes from sustainable forestry and features PEFC certified traceability.

## LCA: Scenarios and other technical information

The following information describes the scenarios for the modules in the EPD.

Two transport scenarios for transport in module A4 have been assessed in this EPD. The first scenario assumes a transport distance of 250 km with a large truck to an intermediate storage. Further, it is assumed a transport distance of 50 km with a medium-sized truck. The second scenario assumes transport directly to a construction site, with a distance of 300 km.

**Transport from production location to user (A4)**

Type	Capacity utilisation incl. return (%)	Vehicle type	Distance, km	Fuel/Energy consumption	Unit
Car	41,6	EURO6, >32 tonnes	250	0,054	l/tkm
Car	40,4	EURO6, 16-32 tonnes	50	0,078	l/tkm
Car	41,6	EURO6, >32 tonnes	300	0,054	l/tkm

In the construction phase, wastage of 2 % has been assumed, as well as some electricity for installation. Waste management of the packaging is also included.

**Construction phase (A5)**

	Unit	Value
Auxiliary materials	m <sup>3</sup>	0
Auxiliary materials	kg	0
Auxiliary materials	kg	0
Water consumption	m <sup>3</sup>	0
Electricity consumption	MJ	0,04
Other energy sources	MJ	0
Material loss	kg	0,038
Materials from waste management	kg	0,14
Dust in the air	kg	0

There are no LCA-related environmental impacts during use.

**Installed products in use (B1)**

	Unit	Value
Relevant emissions during use	kg	0

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

	Unit	Value
Maintenance frequency*	p	0
Auxiliary materials	kg	0
Other resources	kg	0
Water consumption	kg	0
Electricity consumption	MJ	0
Other energy sources	MJ	0
Material loss	kg	0

### Replacement (B4)/Renovation (B5)

	Unit	Value
Replacement frequency*	year	60
Elektrisitetsforbruk	kWh	0
Replacement of worn parts	0	0

\* Xalue or RUS (Reference Uerçice Site

Vhe proãuct has no energy or water consumption in operationE

Vhe proãuct can ãe sorteã as mixeã wooã waste at the construction site anã manageã with energy recoçeryE

### Energy (B6) and water (B7) consumption in operation

	Unit	Xalue
Water consumption	m <sup>3</sup>	0
Electricity consumption	kWh	0
Other energy sources	MJ	0
Peating effect of the equipment	kW	0

### End of Life (C1, C3, C4)

	Unit	Xalue
Pa: arãous waste	kg	0
Mixeã waste	kg	1,90
Recycling	kg	0
Recirculation	kg	0
Ønergy recoçery	kg	1,90
Ør waste ãeosit	kg	0

Vhe transport of wooã waste is ãaseã on the açerage ãistance for CEE in Þorway anã ma\es up í í \ m C Raaãal et al E CEE DE

### Transport to waste management (C2)

Type	Capacity utilisation, incl. return (%)	Vehicle type	Distance, km	Fuel/Energy consumption	Value (l/t)
Car		Unspecified	85	0,027 l/tkm	2,3

The gains from exported energy from energy recovery in municipal waste facilities have been calculated with replacement of Norwegian electricity mix and Norwegian district heating mix. Data for electricity mix is the same as that used in A1-A3, and district heating mix is based on the 2017 production.

### Benefits and loads beyond the system boundaries (D)

	Unit	Value
Substitution of electrical energy	MJ	2,4
Substitution of thermal energy	MJ	19,6
Substitution of raw materials	kg	0

## LCA: Results

The results for global warming in the various modules return a large contribution from absorbance and release of biogenic carbon. The net contribution from biogenic carbon in each module is shown on page 8.

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### System boundaries (X = included, MND = Module Not Declared, MNR = Module Not Relevant)

Product stage			Construction installation stage		Use stage							End of life stage				Benefits and loads beyond the system boundary
Raw materials	Transport	Manufacture	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Renovation	Operational energy consumption	Operational water consumption	Disassembly	Transport	Waste management	Waste for final processing	
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

### Environmental impact

Parameter	Unit	A1-A3	A4*	A4**	A5	B1-B7
GWP	kg CO <sub>2</sub> -equiv.	-2,43E+00	1,55E-01	1,46E-01	1,81E-01	0,00E+00
ODP	kg CFC11-equiv.	3,89E-08	2,89E-09	2,74E-09	-2,23E-10	0,00E+00
POCP	kg C <sub>2</sub> H <sub>4</sub> -equiv.	3,97E-04	2,36E-05	2,24E-05	8,44E-06	0,00E+00
AP	kg SO <sub>2</sub> -equiv.	8,28E-03	3,02E-04	2,91E-04	1,89E-04	0,00E+00
EP	kg PO <sub>4</sub> <sup>3-</sup> -equiv.	5,10E-04	4,24E-05	4,13E-05	1,63E-05	0,00E+00
ADPM	kg Sb-equiv.	5,06E-06	4,55E-07	4,13E-07	1,33E-07	0,00E+00
ADPE	MJ	1,05E+01	2,30E+00	2,20E+00	2,34E-01	0,00E+00

### Environmental impact

Parameter	Unit	C1	C2	C3	C4	D
GWP	kg CO <sub>2</sub> -equiv.	2,59E-04	2,05E-02	3,00E+00	2,93E-04	-2,04E-01
ODP	kg CFC11-equiv.	8,89E-12	3,85E-09	1,51E-09	1,01E-10	-2,33E-08
POCP	kg C <sub>2</sub> H <sub>4</sub> -equiv.	7,30E-08	2,69E-06	6,36E-06	8,27E-08	-2,73E-04
AP	kg SO <sub>2</sub> -equiv.	1,63E-06	7,90E-05	1,91E-04	1,99E-06	-1,28E-03
EP	kg PO <sub>4</sub> <sup>3-</sup> -equiv.	1,53E-07	1,39E-05	5,11E-05	3,63E-07	-3,95E-04
ADPM	kg Sb-equiv.	3,06E-08	6,84E-08	5,58E-08	4,31E-10	-1,45E-06
ADPE	MJ	1,80E-03	3,12E-01	2,02E-01	9,46E-03	-2,39E+00

\*Transport scenario , it@inter{ ediate stora\* e.

\*\*Transport scenario directly to construction site.

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 Cãiotic depletion potential -ãr -ãossil resources

### Resource use

Parameter	Unit	A1-A3	A4*	A4**	A5	B1-B7
RPEE	MJ	2,78E+01	3,44E-02	3,23E-02	2,94E+00	0,00E+00
RPEM	MJ	3,13E+01	0,00E+00	0,00E+00	-1,75E+00	0,00E+00
TPE	MJ	5,91E+01	3,44E-02	3,23E-02	1,19E+00	0,00E+00
NRPE	MJ	8,21E+00	2,35E+00	2,24E+00	2,75E-01	0,00E+00
NRPM	MJ	3,37E+00	0,00E+00	0,00E+00	2,38E-02	0,00E+00
TRPE	MJ	1,16E+01	2,35E+00	2,24E+00	2,99E-01	0,00E+00
SM	kg	0,00E+00	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	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
W	m <sup>3</sup>	1,02E-02	4,50E-04	4,46E-04	2,47E-04	0,00E+00

### Resource use

Parameter	Unit	C1	C2	C3	C4	D
RPEE	MJ	4,19E-02	4,49E-03	2,94E+01	1,75E-04	-1,94E+01
RPEM	MJ	0,00E+00	0,00E+00	-2,93E+01	0,00E+00	0,00E+00
TPE	MJ	4,19E-02	4,49E-03	9,08E-02	1,75E-04	-1,94E+01
NRPE	MJ	4,35E-03	3,19E-01	2,39E+00	9,76E-03	-3,07E+00
NRPM	MJ	0,00E+00	0,00E+00	-2,18E+00	0,00E+00	0,00E+00
TRPE	MJ	4,35E-03	3,19E-01	2,11E-01	9,76E-03	-3,07E+00
SM	kg	0,00E+00	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	-1,19E-03
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
W	m <sup>3</sup>	2,31E-06	5,86E-05	5,28E-04	1,12E-05	-1,82E-03

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

### End of life - Waste

Parameter	Unit	A1-A3	A4*	A4**	A5	B1-B7
HW	kg	1,14E-05	1,47E-05	1,39E-05	1,05E-06	0,00E+00
NHW	kg	1,39E+00	2,08E-01	2,16E-01	3,50E-02	0,00E+00
RW	kg	2,11E-05	7,27E-07	6,83E-07	5,89E-07	0,00E+00

### End of life - Waste

Parameter	Unit	C1	C2	C3	C4	D
HW	kg	4,12E-09	8,10E-07	6,01E-07	4,40E-09	-2,97E-06
NHW	kg	7,28E-04	2,38E-02	2,51E-02	5,46E-02	-1,22E-01
RW	kg	4,37E-08	2,15E-06	4,61E-07	5,76E-08	-1,79E-05

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

### End of life - Output

Parameter	Unit	A1-A3	A4*	A4**	A5	B1-B7
CR	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MR	kg	1,18E-02	0,00E+00	0,00E+00	2,85E-02	0,00E+00
MER	kg	5,34E-04	0,00E+00	0,00E+00	3,33E-03	0,00E+00
EEE	MJ	2,98E-02	0,00E+00	0,00E+00	4,85E-02	0,00E+00
ETE	MJ	3,17E-01	0,00E+00	0,00E+00	3,99E-01	0,00E+00

### End of life - Output

Parameter	Unit	C1	C2	C3	C4	D
CR	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MR	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MER	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	MJ	0,00E+00	0,00E+00	2,40E+00	0,00E+00	-2,40E+00
ETE	MJ	0,00E+00	0,00E+00	1,96E+01	0,00E+00	-1,96E+01

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

## Additional Norwegian requirements

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

Electricity with guarantee of origin, 100% renewable energy of medium voltage, including production of transmission lines and grid loss, have been applied for electricity in the production process (A3).

Data source	Amount	Unit
Ecoinvent v3.5 (2018)	22,2	gram CO <sub>2</sub> -equiv./kWh
Electricity, 100% water power GOO	8,8	gram CO <sub>2</sub> -equiv./kWh

### Hazardous substances

- V@ proåuct contains no suåstances -rom t@ ÜEAÔP Ôanáãate list or t@ Þorwe\* ian priority list
- V@ proåuct contains suåstances w@c@are åelow €€ Å ày wei\* @ on t@ ÜEAÔP Ôanáãate list
- V@ proåuct contains suåstances -rom t@ ÜEAÔP Ôanáãate list or t@ Þorwe\* ian priority list, see taåle unåer Ûpeci-ic Þorwe\* ian requirementsË
- V@ proåuct contains no suåstances on t@ ÜEAÔP Ôanáãate list or t@ Þorwe\* ian priority listËV@ proåuct is c@aracteriseå as @: aråous waste C-ËAnneç @to t@ Þorwe\* ian Y aste Ûe\* ulation ËAv-alls-ors\ ri-tenD see taåle unåer Ûpeci-ic Þorwe\* ian requirementsË

### Transport

Ôentral stora\* e is at t@ same location as t@ -actory 0 km

### Indoor environment

@ Vec@nical Approval Cye\ nis\ Ôoå\ Þennin\* DnoËG I €, Punton Y ooå Øåre @sulation Óoarå @as åeen åeemeå not to release particulates, \* asses or raåiation t@at @ave a ne\* ative impact on t@ inåoor climate or on @alt@

### Carbon footprint

In order to increase transparency in the biogenic carbon contribution to climate impact, the GWP indicator has been broken up into sub-indicators:

GWP-IOBC Climate impact calculated after the principle of immediate oxidation of biogenic carbon.

GWP-BC Climate impact from net absorbance and release of biogenic carbon from the materials in each module.

### Climate impact

Parameter	Unit	A1-A3	A4*	A4**	A5	B1-B7
GWP-IOBC	kg CO <sub>2</sub> -e~ uiv.	5,62E-01	1,55E-01	1,46E-01	1,45E-02	0,00E+00
GWP-BC	kg CO <sub>2</sub> -e~ uiv.	-3,00E+00	0,00E+00	0,00E+00	1,67E-01	0,00E+00
GWP	kg CO <sub>2</sub> -e~ uiv.	-2,43E+00	1,55E-01	1,46E-01	1,81E-01	0,00E+00

### Climate impact

Parameter	Unit	C1	C2	C3	C4	D
GWP-IOBC	kg CO <sub>2</sub> -e~ uiv.	2,59E-04	2,05E-02	1,76E-01	2,93E-04	-2,04E-01
GWP-BC	kg CO <sub>2</sub> -e~ uiv.	0,00E+00	0,00E+00	2,83E+00	0,00E+00	0,00E+00
GWP	kg CO <sub>2</sub> -e~ uiv.	2,59E-04	2,05E-02	3,00E+00	2,93E-04	-2,04E-01

### Klimadeklarasjon fysisk el-miks




To increase transparency in the contribution to climate impact, the results for module AFËA3 and the GY Ú indicators are presented in the table. The Norwegian market mix with imports at medium voltage has been applied in this assessment.

Parameter	Unit	A1-A3
GWP-IOBC	kg CO <sub>2</sub> -equiv.	5,66E-01
GWP-BC	kg CO <sub>2</sub> -equiv.	-2,95E+00
GWP	kg CO <sub>2</sub> -equiv.	-2,38E+00



## Bibliography

NS-EN ISO 14025:2010	<i>Environmental labels and declarations - Type III environmental declarations - Principles and procedures</i>
NS-EN ISO 14044:2006	<i>Environmental management - Life cycle assessment - Requirements and guidelines</i>
NS-EN 15804:2012+A1:2013	<i>Sustainability of construction works - Environmental product declaration - Core rules for product category of construction products</i>
ISO 21930:2007	<i>Sustainability in building construction - Environmental declaration of building products</i>
NS-EN 16449:2014	<i>Wood and wood-based products - Calculation of bio-based carbon content, wood and conversion to carbon dioxide</i>
NS-EN 16485:2014	<i>Found and sawn timber - Environmental Product Declaration - Product category rules for wood and wood-based products for use in construction</i>
NPCR012 v.2	<i>Product category rules for insulation products</i>
Ecoinvent v3.5	<i>Swiss Centre of Life Cycle Inventories. <a href="http://www.ecoinvent.ch">www.ecoinvent.ch</a></i>
Statistics Norway	<i>Table E1.1: Consumption of fuel used for gross production of district heating</i>
Statistics Norway	<i>Table E1.2: District heating balance</i>
Statistics Norway	<i>Table E1.3: Heat production of district heating by type of fuel at central heating</i>
Tellnes et al. (2023)	<i>Tellnes, L. G. F., Biedacha M. (2023). LCA-report for Hunton Fiber AS. Report nr. OR.28.23 from NORSUS, Kråkerøy, Norway.</i>
Raadal et al. (2009).	<i>Raadal, H. L., Modahl, I. S. &amp; Lyng, K-A. (2009). Klimaregnskap for avfallshåndtering, Fase I og II. Oppdragsrapport nr 18.09 fra Østfoldforskning, Norge</i>
SINTEF Byggforsk (2019)	<i>Product certificate nr. HJ1 - for Punton Pativo trefiberisolasjon. Published by ULTEØ Øy*ors in EFi and revised in EFi, its validity to FEGE</i>
EN 15101-1	<i>Thermal insulation products for building - In-situ formed loose-fill cellulose insulation products - Part 1: Specification for products before installation</i>
Hunton Fiber (2019)	<i>TUT documentation Punton Pativo Wood Fiber Insulation Oslo, n-in</i>

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