

ENVIRONMENTAL PRODUCT DECLARATION

in accordance with ISO 14025, ISO 21930 and EN 15804

Owner of the declaration:

Program operator:

Publisher:

Declaration and registration number: ECO Platform registration number:

Issue date: Valid to: NorDan As

The Norwegian EPD Foundation The Norwegian EPD Foundation

NEPD-2389-1125-EN

23.09.2020 23.09.2025

NorDan NTech Villa Balcony door (security) - TE 105/80 (Without aluminium cladding)

NorDan As

Owner of the declaration

www.epd-norge.no







General information

Product:	Owner of the declaration:
NorDan NTech Villa Balcony door (security) - TE 105/80	NorDan AS
(Without aluminium cladding)	Kontaktperson: Fredrik Jonsson
	Tlf: +46 (0) 10-130 01 78
	e-post: fredrik.jonsson@nordan.se
Program holder:	Manufacturer:
The Norwegian EPD Foundation	NorDan sp. z o.o.
Post Box 5250 Majorstuen, 0303 Oslo	Fabryczna 16, PL-64-200 Wolsztyn, Poland
Tlf: +47 977 22 020	
e-mail: post@epd-norge.no	Phone: +48 68 34 70 500
Declaration mumbers	Fax: 048 68 34 73 541
Declaration number: NEPD-2389-1125-EN	Place of production:
NEFD-2309-1123-EN	Powodowo, Poland
ECO Platform registration number:	Management system:
200 Flation registration number.	NorDan sp. z o.o. Works with EN ISO 9001:2015, ISO
	14001:2015
This declaration is based on Product Category Rules:	
CEN Standard EN 15804 serves as core PCR NPCR014:2019	
version 3.0 for Windows and doors	Org. no.:
	NO 979 776 233 MVA
Declaration of responsibility:	Issue date:
The owner of the declaration shall be responsible for the	23.09.2020
underlying information and evidence. EPD Norway shall not	
be responsible with regard to manufacturer information, life	
cycle data and evidence.	
	Valid to:
	23.09.2025
Declared units	Voor of atudu
Declared unit:	Year of study: 2020
	2020
Declared unit with option:	Comparability:
	EPD of construction products may not be comparable if they
	are not comply with NS-EN 15804 and seen in a building context.
Functional unit:	
1 door set measuring 1.23 m x 2.18 m (reference door based	
on EN 14351-1) with an essential parameter U-value = 0,84	The EPD has been worked out by:
and with an expected service life of 40 years.	Roja Modaresi
	Norsk Treteknisk Institutt
	Sy Treteknisk D
	Tretekmsk 9
Verification:	Roja
Independent verification of the declaration and data,	
according to ISO14025:2010	
☐ internal ☑ external	
	Approved
Third party verifier:	1// \
Clara Valante	Hakon Hayans
	Håkon Hauan
Clara Valente, Research scientist, Norsus	Managing Director of EPD-Norway
(Independent verifier approved by EPD Norway)	



Product

Product description:

Door for use in exterior walls of domestic and commercial buildings.

Product specification:

25% of aluminium and 18% of glass is produced from recycled material.

Materialer		kg	%
Pine timber		25.38	27.24
Heat treated tir	nber	0.44	0.47
	Glass	56.92	61.09
Triple glazed	Spacer	0.91	0.98
unit	Butyl	0.06	0.06
	Sealant	1.35	1.45
Paint		0.72	0.77
Aluminium		2.32	2.49
Plastic		0.17	0.18
Gasket		0.66	0.71
Metal- Steel all	oys	4.07	4.37
Sealant and GI	ue	0.17	0.18
Total weight o	f the product	93.17	100
Wood packagir	ng	4.2	
Steel packagin	g	0.063	
Plastic packagi	ng	0.10	
Paper, cardboa	ard packaging	0.07	
Total weight w	vith packaging	97.60	

Technical data:

Security balcony door. Triple glazed, 105mm frame, 80mm sash. Uwin 0,84W/m2K. Certified: BBA, Secured by Design, SP Sitac "P".

The total weight of the product is 93.17 kg. The packaging has a average weight of 4.43 kg.

Market:

Europe, but scenarios beyond cradle to gate are based on the situation in the Norwegian market.

Reference service life:

The reference service life is 40 years for painted timber frame

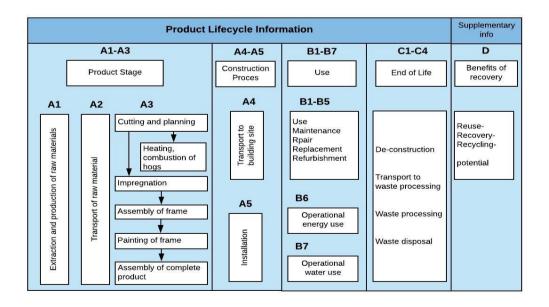
LCA: Calculation rules

Functional unit:

1 door set measuring 1.23 m x 2.18 m (reference door based on EN 14351-1) with an essential parameter U-value = 0,84 and with an expected service life of 40 years.

System boundary:

All modules are included. Below is a technical flowchart for the production line at Nordan. Modul D is calculated with energy substitution and explained in the scenarios.





Data quality

Data is representative of year 2018 and was collected in 2019-2020. Data is taken from processes from Ecoinvent 3.1-3.5. Some processes are based on Ecoinvent v3.1 (2014) and v3.2 (2015), but all upstream processes are v3.4 (2017). Remaining data is based on Ecoinvent v3.5 (2018). "Allocation cut-off by classification" (2017) adjusted to improve representativeness.

Allocation:

Allocation is done in accordance with the provisions of EN 15804. Allocation of energy, water and waste from production is calculated by a physical allocation factor based on the manufacturer input. For waste produced at the manufacturing, the burdens for reuse, recycling and recovery is allocated by using this allocation factor.

Cut-off criteria:

All raw materails and energy use is included. Where data was available for infrastructure from Ecoinvent, it is included. Example: 'Metal working factory'. In the production process, raw materials and energy of low amounts are not included (<1%). These cut-off rules do not apply to dangerous substances.

Calculations of biogenic carbon:

Sequestration and release of biogenic carbon is included according to EN 16485:2014. This is based on the modularity principle in EN 15804:2012 that specifies that the emissions shall be accounted in the module that they occur. The amount of carbon dioxide sequestrated is calulated in accordance to EN 16449:2014. Timber comes from sustainable forestry and has FSC certified traceability.

LCA: Scenarios and additional technical information

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

The transportation from production to construction site is based on a scenario where the product is transported on a large lorry from Poland to Oslo, Norway (1250 km) and then to a warehouse which is assumed to be in a 250 km radius from Oslo. Transport from warehouse to a construction site is assumed to be 50 km on a medium truck.

Transport from production place to assembly/user (A4)

Туре	Capacity utilisation (incl. return) %	vutilisation Type of vehicle eturn) %		Fuel/Energy consumption pr tkm	Fuel/Energy consumption pr km	
Truck	53	EURO5, >32 tonn	1500	0.023 l/tkm	0.31 l/km	
Truck	26	EURO5, 16-32 tonn	50	0.045 l/tkm	0.25 l/km	

Installation (A5)

	Unit	Value
Auxiliary	kg	0
Water consumption	m ³	0
Electricity consumption	MJ	0
Other energy carriers	MJ	0
Material loss	kg	0
Output materials from waste treatment	kg	4.43
Dust in the air	kg	0

According to the report from EPD-Norge 'Harmonising the documentation of scenarios beyond cradle to gate, EN 15804' there is no loss on site during construction activities. The window products in this EPD are painted and surface treated in the production and not at the building site. Therefore, there is only 2 items left in this module. 1) Waste treatment of packaging which is considered in the EPD calculations. 1) Energy use during installation. This can be varied depending on the floor, type of building and several other unknown parameters, and therefore ignored in the calculation.

Maintenance (B2)/Repair (B3)

	Unit	Value
Detergents	kg	6
Water consumption	I	120
Lubricating oil	kg	0.20
Paint	kg	1.99
Transport	tkm	2.45
Glazing unit	kg	0
Synthetic rubber	kg	0
Transport (IGU)	tkm	0

The maintenance scenario included cleaning, painting and change of IGU. Cleaning is performed three times per year. It is calculated with 1,5 dl of detergent and 3 litres of water each year. Windows without aluminium cladding are painted 2 times from inside and 4 times from outside. It is assumed that 5 gr of lubricating oil is used every year for fittings and moving parts. No repair is assumed during the product lifetime.



Replacement (B4)/Refurbishment (B5)

110 1								
	Unit	Value						
Replacement cycle*	yr	30						
Electricity consumption	kWh	0						
Replacement of worn parts	0	0						

* Number or RSL (Reference Service Life). The window has RSL of 40 years for without aluminium cladding. Windows with 40 years RSL is assumed to have one entire window replacement during the lifetime of the building. It is assumed that this change is occured after 30 years when the IGU reaches its end of life. There is no need for refurbishment during the product lifetime.

(C1) As there are no data for de-construction, it is assumed no activites in C1 in this study. The windows are assumed to be treated as mixed waste and sent to incineration. The combustible materials are then energy recovered, while glass is assumed to end up in the bottom ash and then landfilled. The metals are usually sorted out of the bottom ash and then recycled, but there is no data of the share which are recycled and therefore standard values from Ecoinvent is utilized.

The transport of window as waste is calculated based on a scenario with 50 km distance.

Transport to waste processing (C2)

Туре	Capacity utilisation	tion Type of vehicle Dis		Fuel/Energy	Fuel/Energy
	(incl. return) %			consumption pr tkm	consumption pr km
Truck	44	Unspecified	50	0.03l/tkm	0.28 l/km

Windows are assumed to be sorted as mixed construction waste and treated with incineration with energy recovery. However, The manufacturer has documented the recycling potentials for its product in the Construction Product Declaration eBVD.

NorDan TE Dörr Trä 105, ID: C-SE556294452901-71

URL: https://www.ebvd.org/BMI/Document/Export/3054/0/Pdf

In the documentation, Chapter 10, the specific material recovery, and energy recovery potential is reported for the product.

End of Life (C1, C3, C4)

	Unit	Value
Hazardous waste disposed	kg	0
Collected as mixed construction waste	kg	93.17
Reuse	kg	0
Recycling	kg	2.96
Energy recovery	kg	90.21
To landfill	kg	0.00

The benefits beyond life cycle has been modelled based on the output flows from module C3. This includes energy from incineration and scrap metal recovered from the ashes. The amount recovered metal is assumed to avoid production of primary metals in accordance to 6.4.3.3 in EN 15804. The exported energy is substituting Norwegian district heating mix and electricity mix. Inventory processes causing substitution of avoided virgin raw materials has be constructed for each material.

Benefits and loads beyond the system boundaries (D)

=								
	Unit	Value						
Substitution of electricity	MJ	31.3						
Substitution of thermal energy	MJ	320.9						
Substitution of raw materials	kg	3.0						



LCA: Results

Global warming potential in A1-A3 includes sequestration of 41.2 kg CO2 as carbon in the wood. This amount is accounted as an emission in module C3. Additionally, it is included sequestration og 6.3 kg in the wood packaging. This is accounted as an emission in module A5. The flow of biogenic carbon for the system is presented in page 9.

Syste	em bo	unda		K = inclu	ded)											
Pro	duct sta	age	and in	struction stallation tage		Use stage							Use stage End of Life stage			Beyond the system boundaries
Raw materials	Transport	Manufacturing	Transport	Construction installation stage	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery- Recycling potential
A1	A2	А3	A4	A5	B1	B2	В3	B4	B5	В6	B7	C1	C2	СЗ	C4	D
Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х

Environmental impact Without alu clad												
Parameter	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5			
GWP	kg CO ₂ -ekv	1.41E+02	1.28E+01	6.29E+00	0.00E+00	12.2332	0.00E+00	2.14E+02	0.00E+00			
ODP	kg CFC11-ekv	8.31E-06	2.55E-06	0.00E+00	0.00E+00	9.55E-07	0.00E+00	1.12E-05	0.00E+00			
POCP	kg C ₂ H ₄ -ekv	2.27E-01	2.02E-03	0.00E+00	0.00E+00	0.006238	0.00E+00	2.29E-01	0.00E+00			
AP	kg SO ₂ -ekv	9.25E-01	3.47E-02	0.00E+00	0.00E+00	0.087845	0.00E+00	9.72E-01	0.00E+00			
EP	kg PO ₄ 3ekv	1.26E-01	4.86E-03	0.00E+00	0.00E+00	0.009254	0.00E+00	1.34E-01	0.00E+00			
ADPM	kg Sb-ekv	1.15E-03	2.59E-05	0.00E+00	0.00E+00	7.13E-05	0.00E+00	1.18E-03	0.00E+00			
ADPE	MJ	2.37E+03	2.22E+02	0.00E+00	0.00E+00	212.1657	0.00E+00	2.74E+03	0.00E+00			

Parameter	Unit	B6	B7	C1	C2	C3	C4	D
GWP	kg CO ₂ -ekv	0.00E+00	0.00E+00	0.00E+00	5.89E-01	5.23E+01	7.09E-01	-2.20E+01
ODP	kg CFC11-ekv	0.00E+00	0.00E+00	0.00E+00	1.11E-07	6.36E-08	1.89E-07	-8.71E-07
POCP	kg C ₂ H ₄ -ekv	0.00E+00	0.00E+00	0.00E+00	9.75E-05	3.76E-04	1.63E-04	-9.57E-03
AP	kg SO ₂ -ekv	0.00E+00	0.00E+00	0.00E+00	2.30E-03	6.17E-03	3.98E-03	-1.18E-01
EP	kg PO ₄ 3ekv	0.00E+00	0.00E+00	0.00E+00	4.11E-04	2.01E-03	7.35E-04	-1.24E-02
ADPM	kg Sb-ekv	0.00E+00	0.00E+00	0.00E+00	1.67E-06	1.48E-06	1.42E-06	-5.03E-05
ADPE	MJ	0.00E+00	0.00E+00	0.00E+00	9.70E+00	1.16E+02	1.81E+01	-2.27E+02

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.



Resource	use without	alu clad							
Parameter	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5
RPEE	MJ	8.37E+02	2.2E+00	0.00E+00	0.00E+00	2.88E+01	0.00E+00	1.27E+03	0.00E+00
RPEM	MJ	5.21E+02	0.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E+01	0.00E+00
TPE	MJ	1.36E+03	2.2E+00	0.00E+00	0.00E+00	2.88E+01	0.00E+00	1.36E+03	0.00E+00
NRPE	MJ	2.58E+03	2.3E+02	0.00E+00	0.00E+00	2.35E+02	0.00E+00	2.95E+03	0.00E+00
NRPM	MJ	1.62E+02	0.0E+00	0.00E+00	0.00E+00	1.11E+01	0.00E+00	5.26E+01	0.00E+00
TRPE	MJ	2.74E+03	2.3E+02	0.00E+00	0.00E+00	2.47E+02	0.00E+00	3.00E+03	0.00E+00
SM	kg	7.30E-01	0.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-01	0.00E+00
RSF	MJ	3.65E-01	0.0E+00	0.00E+00	0.00E+00	9.19E-03	0.00E+00	1.09E+00	0.00E+00
NRSF	MJ	3.52E-01	0.0E+00	0.00E+00	0.00E+00	6.12E-03	0.00E+00	8.35E-01	0.00E+00
W	m^3	2.39E+01	3.9E-02	0.00E+00	0.00E+00	3.25E-01	0.00E+00	2.40E+01	0.00E+00

Resource	use without	alu clad						
Parameter	Unit	B6	B7	C1	C2	C3	C4	D
RPEE	MJ	0.0E+00	0.0E+00	0.0E+00	9.9E-02	4.3E+02	2.6E-01	-2.0E+02
RPEM	MJ	0.0E+00	0.0E+00	0.0E+00	0.0E+00	-4.3E+02	0.0E+00	0.0E+00
TPE	MJ	0.0E+00	0.0E+00	0.0E+00	9.9E-02	1.0E+00	2.6E-01	-2.0E+02
NRPE	MJ	0.0E+00	0.0E+00	0.0E+00	9.9E+00	1.2E+02	1.9E+01	-2.4E+02
NRPM	MJ	0.0E+00	0.0E+00	0.0E+00	0.0E+00	-1.1E+02	0.0E+00	0.0E+00
TRPE	MJ	0.0E+00	0.0E+00	0.0E+00	9.9E+00	7.0E+00	1.9E+01	-2.4E+02
SM	kg	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
RSF	MJ	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.2E-01	0.0E+00	-1.2E+02
NRSF	MJ	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.8E-01	0.0E+00	-8.3E+01
W	m^3	0.0E+00	0.0E+00	0.0E+00	1.6E-03	1.9E-02	1.6E-02	-7.3E-01

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		without alu clad	t						
Parameter	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5
HW	kg	3.25E+00	1.37E-02	0.00E+00	0.00E+00	2.98E-02	0.00E+00	7.10E+01	0.00E+00
NHW	kg	4.18E+01	1.76E+01	0.00E+00	0.00E+00	3.52E+00	0.00E+00	6.07E+01	0.00E+00
RW	ka	2.80E-02	1.44E-03	0.00E+00	0.00E+00	5.01E-04	0.00E+00	2.96E-02	0.00E+00

End of life-	-Waste wit	thout alu clad	b					
Parameter	Unit	B6	B7	C1	C2	C3	C4	D
HW	kg	0.00E+00	0.00E+00	0.00E+00	6.88E-04	7.99E-03	6.77E+01	-1.18E-01
NHW	kg	0.00E+00	0.00E+00	0.00E+00	5.77E-01	2.04E-01	5.45E-01	-3.53E+00
RW	kg	0.00E+00	0.00E+00	0.00E+00	6.26E-05	2.27E-05	1.08E-04	-3.91E-04

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

End of life-	- Output flow	without alu	clad						
Parameter	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5
CR	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MR	kg	1.04E+00	0.00E+00	3.17E-01	0.00E+00	0.00E+00	0.00E+00	4.32E+00	0.00E+00
MER	kg	5.91E-04	0.00E+00	4.21E+00	0.00E+00	0.00E+00	0.00E+00	4.21E+00	0.00E+00
EEE	MJ	9.20E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E+01	0.00E+00
ETE	MJ	1.01E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E+02	0.00E+00

End of life-	- Output flow	without alu	clad					
Parameter	Unit	B6	B7	C1	C2	C3	C4	D
CR	kg	0.00E+00	0.00E+00	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	2.96E+00	0.00E+00	-2.98E+00
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E+01	0.00E+00	-3.13E+01
ETE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E+02	0.00E+00	-3.21E+02

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

Reading example: $9.0 \text{ E-}03 = 9.0 \cdot 10^{-3} = 0.009$



Norwegian additional requirements

Greenhouse gas emissions from the use of electricity in the production phase

National (Poland) market with low-voltage, including production of transmission lines and grid losses, has been used for electricity in the production process (A3).

Data source	Quantity	Unit
Ecoinvent v3.4 (october 2017)	1079	gram CO ₂ -ekv./kWh

Hazardous substances

	The product contains no substances from REACH Candidate List or the Norwegian Priority List
V	The product contains substances below 0.1% by weight on the REACH Candidate List
	The product contains substances from REACH Candidate List or the Norwegian Priority List, see table under Specific Norwegian requirements.
	The product does not contain any substances on the REACH Candidate List or the Norwegian Priority List. The product can be characterized as hazardous waste (according to the Waste Shift, Appendix III), see table under Specific Norwegian requirements.

Transport

Transport from production site to construction site according to scenario in A4: 1500+50 km

Indoor air quality

The product has not been tested for emissions to indoor environments.

Carbon footprint

To increase the transparency of the climate impacts, the GWP indicator has been divided into sub-indicators:

GWP-IOBC Climate impacts calculated according to instant oxidation principle

GWP-BCIP Climate impacts calculated from the net impacts of sequestration and emission of biogenic carbon

Climate im	pact withou	ut alu clad							
Parameter	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5
GWP-IOBC	kg CO ₂ -ekv	1.90E+02	1.28E+01	0.00E+00	0.00E+00	1.22E+01	0.00E+00	2.15E+02	0.00E+00
GWP-BCIP	kg CO ₂ -ekv	-4.88E+01	0.00E+00	6.29E+00	0.00E+00	0.00E+00	0.00E+00	-1.32E+00	0.00E+00
GWP	kg CO ₂ -ekv	1.41E+02	1.28E+01	6.29E+00	0.00E+00	1.22E+01	0.00E+00	2.14E+02	0.00E+00

Climate im	ıpact withou	ut alu clad						
Parameter	Unit	B6	B7	C1	C2	C3	C4	D
GWP-IOBC	kg CO ₂ -ekv	0.00E+00	0.00E+00	0.00E+00	5.89E-01	1.11E+01	7.09E-01	-2.20E+01
GWP-BCIP	kg CO ₂ -ekv	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E+01	0.00E+00	0.00E+00
GWP	kg CO ₂ -ekv	0.00E+00	0.00E+00	0.00E+00	5.89E-01	5.23E+01	7.09E-01	-2.20E+01



Bibliografi

NS-EN ISO 14025:2010	Miljømerker og deklarasjoner - Miljødeklarasjoner type III - Prinsipper og prosedyrer.
NO-LIN 100 14023.2010	will billet ker og deklarasjoner - will baeklarasjoner type til - i tillsipper og prosedyrer.

NS-EN ISO 14044:2006 Miljøstyring - Livsløpsvurderinger - Krav og retningslinjer

NS-EN 15804:2012+A1:2013 Bærekraftig byggverk - Miljødeklarasjoner - Grunnleggende produktkategoriregler for

byggevarer

ISO 21930:2007 Sustainability in building construction - Environmental declaration of building products

Modaresi, R. 2020 LCA-report for Nordan LCA-report nr. 325039-2 from Norwegian Institute of Wood

Technology, Oslo, Norway.

NPCR014 (04/2019) Product category rules for windows and doors, rev3, April 2019

NS-EN 16485:2014 Tømmer og skurlast - Miljødeklarasjoner - Produktkategoriregler for tre og trebaserte

produkter til bruk i byggverk

NS-EN 16449:2014 Tre og trebaserte produkter - Beregning av biogent karboninnhold i tre og omdanning til

karbondioksid

Ecoinvent v3.1-3.5 Ecoinvent database version 3.1-3.5 Centre for Life Cycle Inventories.

Statistisk sentralbyrå Tabell 04727: Fjernvarmebalansen, 2015

Statistisk sentralbyrå Tabell 09469: Nettoproduksjon av fjernvarme, 2015

NEPD-307-179-NO EPD for skurlast av gran eller furu. Treindustrien

and norge no	Publisher	TIf:	+47 23 08 80 00
epd-norge.no	The Norwegian EPD Foundation		
The Norwegian EPD Foundation	Postboks 5250 Majorstuen, 0303 Oslo	e-post:	post@epd-norge.no
	Norway	web	www.epd-norge.no
	Owner of the declaration	TIf:	+47 51 40 40 00
MSM	NorDan AS		
NorDan	Stasjonsveien 46, N-4460 Moi	e-post:	firmapost@nordan.no
W NOI Dall	Norway		
		web	www.nordan.no
	Author of the Life Cycle Assessment	TIf:	+47 98 85 33 33
Treteknisk 🔊	Roja Modaresi		
Hetekilisk	Norsk Treteknisk Instiutt	e-post:	firmapost@treteknisk.no
	Postboks 113 Blindern, 0314 Oslo, Norway	web	www.treteknisk.no