

Building Product Declaration - NTech Villa Fixed frame

Market:

**NorDan**[®]

Document ID: 000CC7(2.00)

Date: 1 March 2024

Page: 1 of 5

Material: Timber + aluminium

Frame: 105

Glass: Triple glazed

Applicable for product codes:

TL

1. Company information

NorDan Spolka Z o.o

Powodowo 54
54-200 Wolsztyn - Poland
Organization number:

NIP: 9231548435, REGION: 016229807

Contact person:

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ISO certifications:

ISO 9001

ISO 14001

2. Product data

Trade name: NorDan NTech Villa Fixed frame - TL 105

Declared size: 1230x1480 mm

Product classification: BK04

Product Group ID: 04109

Description of goods: NorDan NTech Villa Fixed frame - TL 105 in size 1230x1480 mm tripple glazed 4E+16G+4+16G+E4 with aluminium cladding is covered in this BPD

Declaration of Performance: DoP-ND-100-1

Estimated technical lifetime: 60 years

URL* to public product documentation:

https://portal.nordan.no/ndocs/search?category=document_EPD

Product Code: TL

* link to NorDan's public document system, NDocs

3. Chemical content

Product weight: 64,58 kg

Date for the declaration:

2023-11-17

Material content is declared to:

100%

The content is checked against the candidate list, edition:

2024-01-23

Does the product contain nanomaterials?

No nanomaterials have been deliberately added to achieve a particular function

For composite articles, the declaration has been made at component level and the starting point is that the reported substances are given at the highest specified content.

The product consists of the following parts/components and its specified chemical composition upon delivery.

Material or chemical product	Weight-% of the component in the product	Weight-% of the component	Substance name / Chemical specification	CAS-number	Weight-% of the substance in the product	Weight-% of the substance in the component	Hazard Code(s)	Candidate List (SVHC)	Annex XIV and XVII to REACH	Endocrine disrupting	Chemsec SIN-list	Svenska PRIO-listan	Den norske prioritetlista
Total	100,00%												
1. Frame	17,73%												
2. IGU - Insulated glass unit	78,02%												
3. Aluminium	3,49%												
4. Plastic parts	0,15%												
5. Seals, rubber & TPU parts	0,57%												
6. Metal parts	0,04%												
1. Frame	17,73%	100,0%											
Wood material frame	17,03%	96,07%											
Frame	17,0%	96,07%	Untreated pine, finger jointed		17,035%	96,067%							
Wood treatment & Coating	0,45%	2,53%											
Wood preservative	0,007%	0,04%	Propiokonazol	60207-90-1	0,0001%	0,0006%	H302, H317, H360D, H400, H410			✓	✓	✓	
<i>Note: Wood preservative to prevent wood rot.</i>													
Primer	0,153%	0,86%	1,2-benzisothiazol-3(2H)-one	2634-33-5	0,0001%	0,0004%	H302, H315, H318, H317, H400					✓	
<i>Note: Waterborne 2-comp. Polyurethane Primer</i>			Reaction mass of 5-chloro-2-methyl-1,2-thiazol-3(2H)-one and 2-methyl-1,2-thiazol-3(2H)-one	55965-84-9	0,00000%	0,00001%	H301, H310, H330, H314, H318, H317, H400, H410					✓	
Hardner, primer	0,053%	0,30%	Hexamethylene diisocyanate, oligomers	28182-81-2	0,0473%	0,2667%	H332, H317, H335						

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			2-methoxy-1-methylethyl acetate	108-65-6	0,0105%	0,0593%	H226, H336						
			Hexamethylene diisocyanate	822-06-0	0,0002%	0,0009%	H331, H315, H319, H334, H317, H335	✓				✓	
Top Coat	0,237%	1,34%	3-Jodo-2-propynylbutylkarbamat	55406-53-6	0,0006%	0,0033%	H302, H331, H318, H317, H372, H400, H410						✓
Note: Water Based, Acrylic binder.			1,2-benzisothiazol-3(2H)-one	2634-33-5	0,0001%	0,0007%	H302, H315, H318, H317, H400						✓
			Reaction mass of 5-chloro-2-methyl-1,2-thiazol-3(2H)-one and 2-methyl-1,2-thiazol-3(2H)-one	55965-84-9	0,0004%	0,0020%	H301, H310, H330, H314, H318, H317, H400, H410						✓
Adhesive & Sealer	0,25%	1,40%											
Adhesive, finger joints, frame <i>Note: PVAc dispersion adhesive</i>	0,17%	0,97%	Polyvinyl acetate emul. Waterbased.			0,1721%	0,970%						
Adhesive, frame	0,02%	0,10%	Propylene carbonate	108-32-7	0,0004%	0,0024%	H319						
<i>Note: One component PVAc adhesive of D4 quality</i>			Reaction mass of 5-chloro-2-methyl-1,2-thiazol-3(2H)-one and 2-methyl-1,2-thiazol-3(2H)-one	55965-84-9	0,0000003%	0,0000014%	H301, H310, H314, H317, H318, H330, H400, H410						✓
Sealant	0,06%	0,33%	Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	0,003%	0,017%	H304				✓		✓
<i>Note: 1-component sealant, based on SMX polymer</i>			Trimethoxyvinylsilane	2768-02-7	0,001%	0,003%	H226, H332, H317						✓
			reaction mass of N,N'-ethane-1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)	EU nr: 432-430-3	0,003%	0,017%	H431						✓
			N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3	0,001%	0,003%	H317, H318, H335						
			Dioctylbis(pentane-2,4-dionato-O,O')tin	54068-28-9	0,001%	0,003%	H317, H371						
2. IGU - Insulated glass unit	78,02%	100,0%											
Float glass coated	49,51%	63,46%	Flat Glass coated	65997-17-3	49,512%	63,459%							
Float glass	24,76%	31,73%	Flat Glass uncoated	65997-17-3	24,756%	31,730%							
Spacer	0,96%	1,23%	Stainless steel EN 1.4372			0,053%	0,068%						
			Polypropylene	9003-07-0	0,907%	1,163%							
Primary seal	0,19%	0,24%	Carbon black	1333-86-4	0,093%	0,119%							
Secondary seal part A	1,50%	1,93%	Polyurethane glass sealant			1,504%	1,928%						
Secondary seal part B	0,17%	0,21%	di-"isononyl" phtalate	28553-12-0	0,084%	0,107%					✓		✓
			Polymeric MDI	9016-87-9	0,050%	0,064%	H315, H317, H319, H332, H334, H335, H351						
			4,4'-methylenediphenyl diisocyanate	101-68-8	0,008%	0,011%	H315, H317, H319, H332, H334, H335, H351	✓					✓
			carbon black	1333-86-4	0,008%	0,011%							
			Zeolites	1318-02-1	0,008%	0,011%							
			Oxirane,2-[[3-(trimethoxysilyl)propoxy]methyl]-	2530-83-8	0,003%	0,004%	H318, H411						
Absorbent	0,82%	1,05%	Zeolites	1318-02-1	0,818%	1,049%							
			Quartz	14808-60-7	0,008%	0,010%							

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Argon	0,12%	0,15%	Argon	7440-37-1	0,118%	0,151%													
3. Aluminium																			
Aluminium cladding	1,36%	38,87%	AW6060		1,357%	38,872%													
Aluminium cladding	1,34%	38,48%	AW6060		1,343%	38,483%													
Aluminium glazing strip	0,56%	16,10%	AW6060		0,562%	16,096%													
Powder coat	0,23%	6,55%	3,9-bis(2,4-di-tertbutylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane	26741-53-7	0,002%	0,065%													
4. Plastic parts																			
Glass packer	0,05%	31,24%	LDPE	9002-88-4	0,047%	31,238%													
Glass packer	0,04%	24,35%	LLDPE	9002-88-4	0,037%	24,353%													
Plastic clip	0,03%	20,78%	PA6		0,031%	20,784%													
Plastic Clip	0,03%	19,92%	POM		0,030%	19,925%													
Cover Plug	0,01%	3,70%	LDPE	9002-88-4	0,006%	3,699%													
5. Seals, rubber & TPU parts																			
Gasket EPDM	0,57%	100,00%	EPDM polymer	25038-36-2	0,198%	35,000%													
			Carbon black	1333-86-4	0,113%	20,000%													
			Paraffin oils	8012-95-1	0,113%	20,000%													
			Calcium carbonate	471-34-1	0,141%	25,000%													
6. Metal parts																			
Srews Dac-coating	0,03%	70,66%	Steel, coated (not stainless steel)		0,027%	70,659%													
Nail	0,01%	29,34%	Steel zinc galvanized		0,011%	29,341%													

4. Raw materials

Recycled materials in the article	Share of raw material	Share of product	Renewable material	Share
Aluminium	8,00%	0,28%	Wood	17,03%
Glass	28,00%	20,80%		
Grade of certified wood:	70-100%		Certificate	
Certification system:	PEFC			
Comment:	The percentage above refers to the certified percentage of the wood raw material included in the production.			
Country of origin wood raw material	Estonia/ Poland/ Finland			

5. Environmental impact

Is there an Environmental Product Declaration (EPD) produced according to EN15804 or ISO14025 for the product? Yes

ID-number for EPD: NEPD-4545-3802

EPD, declared size: 1230x1480

EPD-Name: NorDan NTech Villa Fixed frame - TL 105 (With Aluminium Cladding)

GWP Functional unit*				GWP/kg
A1-A3 GWP _{total} (kg CO ₂ e)	A1-A3 GWP _{fossil} (kg CO ₂ e)	A1-A3 GWP _{biogenic} (kg CO ₂ e)	A1-A3 GWP _{luluc} (kg CO ₂ e)	A1-A3 GWP _(total-biogenic) / kg **
89,0	111,6	-22,7	0,09	1,73

* For project-specific values contact NorDan

** GWP value without the influence of biogenic carbon

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6. Distribution

Is the producer connected to a producer responsibility scheme for packaging?
What system? Yes
FTI system

Packaging is sorted according to below

Cardboard	EWC	150101
Plastic packaging	EWC	150102
Wood packaging	EWC	150103

7 & 8. Construction and use phase

Does the product have special requirements for storage? See window owner's manual
Does the product place special demands on surrounding building materials? See window owner's manual
Does the product require input goods for operation and maintenance? See window owner's manual

9. Demolition

Is the item prepared for dismantling? Yes
Can the product be separated into pure materials for recycling? Yes, see window owner's manual
Does the product require special measures for the protection of health and the environment during demolition/dismantling? No

10. Waste management

Is reuse possible for all or part of the product? Yes, during the warranty period the product can be reused. After the warranty period, reuse is possible after assessment.

Is recycling possible? Yes

Rate of material recycling: 77,80%

Material	Weight % of whole item	Waste code
Aluminium	3,49%	EWC 170402
Metal	0,04%	EWC 170407
Glass	74,27%	EWC 200102

Is energy recovery possible? Yes

Energy recovery rate 22,20%

Material	Weight % of whole item	Waste code
Wood with sealant	21,49%	EWC 170201
Plastic/rubber	0,72%	EWC 170203

Waste code when the delivered goods become waste: 17 - Construction and demolition waste

When the delivered goods become waste, is it classified as hazardous waste? No

11. Indoor environment

Danish Indoor Climate Labelling - Certificate no. 174
ND NTech - EMISSION CLASS 1

Emission measured after 28 days:

TVOC₂₈ 0,28 mg/m³
Formaldehyde₂₈ <0,005 mg/m³

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12. Building certification systems

	v6.1	Mat01	Yes	The EPD is published at EPD-Norge, see point 5 above. Project-specific EPD data can be obtained from NorDan
	v6.0			
	2016v1.2	Mat02	Yes	The product contains no substances on the REACH Candidate list or the Norwegian priority list at or above 0,1 % by weight. Control has been made against REACH annexes XIV and XVII.
	v6.0			
	2016v1.2	Mat03	Yes	All wood used in the product consists of wood that is legally harvested and meets at least the requirements of the EUTR (EU Timber Regulation)
	v6.1			
	v6.0			
	2016v1.2			
	v6.0	Mat01	Yes	The EPD is published at EPD-Norge, see point 5 above. Project-specific EPD data can be obtained from NorDan
	2017v1.1			
	v6.0	Mat03	Yes	All wood used in the product consists of wood that is legally harvested and meets at least the requirements of the EUTR (EU Timber Regulation)
	2017v1.1	Mat07	Yes	The product does not contain phase-out or risk reduction substances (according to KEMI's definition and EDS Cat1/ Cat2) above classification limits.
	2017v1.1	Mat08	Yes	Product does not contain phase-out substances (according to KEMI's definition) above classification limits
	3.0 / 3.1 / 3.2	Ind 13	Gold	Public e-bvd or equivalent available
		Ind 14	Gold	Attention MB sets requirements for emissions. Check these manually to ensure compliance!
		Ind 15	Yes	The EPD is published at EPD-Norge, see point 5 above. Project-specific EPD data can be obtained from NorDan
	2.1 / 2.2	Ind 14	Gold	Public content declaration according to bvd3 is available
		Ind 15	Gold	The product does not contain phase-out substances according to KEMI's definition above classification limits
	4.0	Ind 4	Yes	The EPD is published at EPD-Norge, see point 5 above. Project-specific EPD data can be obtained from NorDan
		Ind 9	Silver	The product does not contain U, R or endocrine disruptors on Chemsec's SIN list above classification limits
		Ind 15	Gold	Public e-bvd or equivalent available

Nordic Swan Ecolabel buildings

HPP (Husproduktsportalen)

Yes - NorDan TL Fast *(Trä & Trä/alu) 105mm

SCDP (Supply Chain Declaration Portal)

13. Product Assessment System

	No	ECOproduct isn't available for the product today.
	Yes	The product is listed in the database from Byggsvarubedömningen. Name: NorDan TL Fast Trä/Alu
	Yes	The product is listed in the database from SundaHus. Name: NorDan TL Fast Trä/Alu 105
	No	The product is not listed today in the database from Basta
Nordic Swan Ecolabel	Yes	NorDan Ntech Villa fixed frame is available as Swan Ecolabel