

Building Product Declaration - NTech Villa Topswing reversible Opus, TY

Market:



NorDan[®]

Document ID: 000E02(L.00)

Date: 1 March 2024

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Material: Timber + aluminium

Frame: 105

Glass: Triple glazed

Applicable for product codes:

TY

1. Company information

NorDan Spolka Z o.o

Powodowo 54
54-200 Wolsztyn - Poland
Organization number: NIP: 9231548435, REGION: 016229807

Contact person: Linda Jonsson
Email: linda.jonsson@nordan.se
Telephone number: +46 (0) 10-130 01 75
ISO certifications: ISO 9001
ISO 14001

2. Product data

Trade name: NorDan NTech Villa Topswing reversible Opus - TY 105/80 Declared size: 1230x1480 mm
Product classification: BK04 Product Group ID: 04107
Description of goods: NorDan NTech Villa Topswing reversible Opus - TY 105/80 in size 1230x1480 mm tripple glazed with aluminium cladding is covered in this BPD Declaration of Performance: DoP-ND-100-1
Estimated technical lifetime: 60 years Standard glass unit: 4E+16G+4+16G+E4
URL^{*} to public product documentation: https://portal.nordan.no/ndocs/search?category=document_EPD Product Code: TY
^{*} link to NorDan's public document system, NDocs

3. Chemical content

Product weight: 70,4 kg Date for the declaration: 2024-03-01
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, List I, II, III	Chemsec SIN-list	Svenska PRIO-listan	Den norske prioritetslista
Total	100%											
1. Frame	16,09%											
2. Sash	9,88%											
3. IGU - Insulated glass unit	61,32%											
4. Aluminium profiles	5,17%											
5. Plastic parts	0,29%											
6. Seals, rubber & TPU parts	0,69%											
7. Metal parts	6,56%											
1. Frame	16,09%	100,0%										
Wood material frame	15,50%	96,34%										
Frame top	3,48%	21,62%	Untreated pine, finger jointed		3,48%	21,62%						
Frame side	8,67%	53,87%	Untreated pine, finger jointed		8,67%	53,87%						
Frame bottom	3,35%	20,85%	Untreated pine, finger jointed		3,35%	20,85%						
Wood treatment & Coating	0,42%	2,59%										
Wood preservative	0,01%	0,04%	Propiokonazol	60207-90-1	0,000%	0,001%			✓	✓	✓	
<i>Note: Wood preservative to prevent wood rot.</i>												
Primer	0,14%	0,88%	1,2-benzisothiazol-3(2H)-one	2634-33-5	0,000%	0,000%	H302, H315, H318, H317, H400					✓

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4. Aluminium profiles		5,17%	100,0%							
Cladding, frame top, side	1,25%	24,06%	Aluminium	EN AW-6060	1,25%	24,06%				
Cladding, frame bottom	0,30%	5,77%	Aluminium	EN AW-6060	0,30%	5,77%				
Cladding, sash top	0,34%	6,51%	Aluminium	EN AW-6060	0,34%	6,51%				
Cladding, sash side	0,85%	16,50%	Aluminium	EN AW-6060	0,85%	16,50%				
Sliding rail	0,38%	7,38%	Aluminium	EN AW-6060	0,38%	7,38%				
Glazing strip, top, side	1,14%	22,01%	Aluminium	EN AW-6060	1,14%	22,01%				
Glazing strip, bottom	0,55%	10,72%	Aluminium	EN AW-6060	0,55%	10,72%				
Powder coating	0,36%	7,05%	3,9-bis(2,4-di-tertbutylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane	26741-53-7	0,004%	0,046%	H410			
5. Plastic parts		0,29%	100,0%							
Cover plug	0,01%	1,76%	LDPE	9002-88-4	0,01%	1,76%				
Plastic clip	0,04%	12,94%	POM		0,04%	12,94%				
Plastic clip	0,11%	37,00%	PA6	25038-54-4	0,11%	37,00%				
Galzing packer	0,03%	11,57%	LLDPE	9002-88-4	0,03%	11,57%				
Galzing packer	0,04%	14,84%	LDPE	9002-88-4	0,04%	14,84%				
Strikeplate, side	0,03%	9,27%	POM		0,03%	9,27%				
Guide part, side	0,03%	10,28%	POM		0,03%	10,28%				
Screw M8x10	0,01%	2,34%	PA66	25038-54-4	0,01%	2,34%				
6. Seals, rubber & TPU parts		0,69%	100,0%							
Gasket EPDM	0,48%	69,89%	EPDM polymer	25038-36-2	0,17%	24,46%				
			Carbon black	1333-86-4	0,10%	13,98%				
			Paraffin oils	8012-95-1	0,10%	13,98%				
			Calcium carbonate	471-34-1	0,12%	17,47%				
Gasket black	0,14%	20,32%	LDPE liner	9002-88-4	0,07%	10,16%				
			PU foam	9009-54-5	0,07%	10,16%				
Gasket white	0,04%	6,30%	TPE		0,04%	6,30%				
Brush-list	0,02%	3,49%	PP		0,02%	3,49%				
7. Metal parts		6,56%	100,0%							
Gearbox window esp.	0,13%	1,94%	Steel	DC01, Q235	0,08%	1,19%				
			Sintered Steel	FN02050-20	0,05%	0,76%				
			Surf. Treatment, Zn-Ni plating		0,000%	0,001%				
Esp. rod	0,47%	7,16%	Steel	35K, 1.0501	0,47%	7,13%				
			Surf. Treatment, Zn-Ni plating		0,002%	0,03%				
Handle	0,15%	2,30%	Aluminium AlMg3	7429-90-5	0,15%	2,27%				
Glidehinge, L+R	4,96%	75,62%	Steel	S355	4,56%	69,54%				
			Steel	QST32/36	0,04%	0,60%				
			Zamac 5		0,02%	0,26%				
			POM		0,01%	0,16%				
			Stainless steel	1.4016, 430	0,33%	5,02%				
			Stainless steel	1.4401, 316	0,002%	0,03%				
			Surf. Treatment, Fe/Zn Cr plating	1333-80-0	0,001%	0,01%				
Swingpart, frame	0,37%	5,68%	Stainless steel	1.4301, 304	0,23%	3,47%				
			Stainless steel	1.4401, 316	0,04%	0,61%				
			POM		0,11%	1,60%				
Topslide, L+R	0,33%	4,97%	Steel	DC01, Q235	0,24%	3,63%				
			Steel	SAPH440	0,07%	1,03%				
			Steel	ML08AL	0,01%	0,17%				
			POM		0,01%	0,09%				
			Surf. Treatment, Zn plating		0,003%	0,04%				

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Screws / Nails														
Screws Dac-coating	0,05%	0,73%	Steel, coated (not stainless steel)		0,05%	0,73%								
Screws	0,08%	1,28%	Steel, zinc galvanized		0,08%	1,28%								
Screws A2	0,01%	0,15%	Stainless steel	1.4301, 304	0,01%	0,15%								
Nails	0,01%	0,17%	Steel, zinc galvanized		0,01%	0,17%								

4. Raw materials

Recycled materials in the article	Share of raw material	Share of product	Renewable material	Share
Aluminium	8,00%	0,41%	Wood	24,92%
Glass	28,00%	16,51%		

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-5953-5206

EPD, declared size: 1230x1480

EPD-Name: NorDan NTech Villa Topswing reversible Opus - TY 105/80 (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 **
121,1	153,9	-33,0	0,14	2,08

* For project-specific values contact NorDan

** GWP value without the influence of biogenic carbon

6. Distribution

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

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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: 69,87%

Material	Weight % of whole item	Waste code
Aluminium	5,17%	EWC 170402
Metal	6,56%	EWC 170407
Glass	58,14%	EWC 200102

Is energy recovery possible? Yes

Energy recovery rate 30,13%

Material	Weight % of whole item	Waste code
Wood with sealant	25,97%	EWC 170201
Plastic/rubber	4,15%	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:

TVOC ₂₈	0,28 mg/m ³
Formaldehyde ₂₈	<0,005 mg/m ³

12. Building certification systems

	v6.1 v6.0 2016v1.2	Mat01	Yes	The EPD is published at EPD-Norge, see point 5 above. Project-specific EPD data can be obtained from NorDan
	v6.1 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.
	v6.1 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)
	v6.0 2017v1.1	Mat01	Yes	The EPD is published at EPD-Norge, see point 5 above. Project-specific EPD data can be obtained from NorDan
	v6.0 2017v1.1	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)
	v6.0 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.
	2013v2.0	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 (Husproduktportalen)
Yes - NorDan TY Vridfönster Trä/Alu 105 mm
SCDP (Supply Chain Declaration Portal)

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13. Product Assessment System



No

ECOproduct isn't available for the product today



No

The product is not listed in the database from Byggvarubedömningen



No

The product is not listed in the database from SundaHus



No

The product is not listed in the database from Basta

Nordic Swan Ecolabel

Yes

Swan Ecolabel is available for the product