Byggevaredeklarasjon - NTech Villa Toppsving

Marked:

NorDan

Dokument ID: 000CBE(2.00)
Dato: 1 Mars 2024

Material: Tre + aluminium **Karm:** 105 **Glass:** 3-lags

Gjelder for produktkoder:
TG

1. Company information

NorDan Spolka Z o.o
Powodowo 54
54-200 Wolsztyn - Poland
Organization number: NIP: 9231548435, REGION: 016229807

Contact person: Jonas Jonsson
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ISO certifications: ISO 9001
ISO 14001

2. Product data

Trade name: NorDan NTech Villa Topswing reversible - TG 105/80

Declared size: 1230x1480 mm

Product classification: BK04

Product Group ID: 04107

Description of goods: NorDan NTech Villa Topswing reversible - TG 105/80 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: TG

* link to NorDan's public document system, NDocs

3. Chemical content

Product weight: 69,98 kg

Date for the declaration: 2023-11-06

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 prioritetslista
Total	**100,00%**												
1. Frame	16,03%												
2. Sash	10,65%												
3. IGU - Insulated glass unit	61,69%												
4. Aluminium	5,44%												
5. Plastic parts	0,30%												
6. Seals, rubber & TPU parts	0,75%												
7. Metal parts	5,14%												
1. Frame	**16,03%**	**100,0%**											
Wood material frame	**15,48%**	**96,59%**											
Frame bottom	3,4%	21,14%	Untreated pine, finger jointed		3,389%	21,137%							
Frame top	3,5%	21,92%	Untreated pine, finger jointed		3,514%	21,917%							
Frame side	8,6%	53,53%	Untreated pine, finger jointed		8,582%	53,533%							
Wood treatment & Coating	**0,44%**	**2,73%**											
Wood perservative	0,006%	0,04%	Propiokonazol	60207-90-1	0,0001%	0,0007%	H302, H317, H360D, H400, H410			✓	✓	✓	
Note: Wood preservative to prevent wood rot.													
Primer	0,170%	1,06%	1,2-benzisothiazol-3(2H)-one	2634-33-5	0,0001%	0,0005%	H302, H315, H318, H317, H400					✓	

Note: Waterborne 2-comp. Polyurethane Primer			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	0,000002%	0,00001%	H301, H310, H330, H314, H318, H317, H400, H410					✓	
Hardner, primer	0,058%	0,36%	Hexamethylene diisocyanate, oligomers	28182-81-2	0,053%	0,328%	H332, H317, H335						
			2-methoxy-1-methylethyl acetate	108-65-6	0,012%	0,073%	H226, H336						
			Hexamethylene diisocyanate	822-06-0	0,0002%	0,0011%	H331, H315, H319, H334, H317, H335		✓			✓	
Top Coat	0,204%	1,27%	3-Jodo-2-propynylbutylkarbamat	55406-53-6	0,001%	0,003%	H302, H331, H318, H317, H372, H400, H410					✓	
Note: Water Based, Acrylic binder.			1,2-benzisothiazol-3(2H)-one	2634-33-5	0,000%	0,001%	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	0,0003%	0,0019%	H301, H310, H330, H314, H318, H317, H400, H410					✓	
Adhesive & Sealer	**0,11%**	**0,68%**											
Adhesiv, finger joints, frame	0,09%	0,58%	Polyvinyl acetate emul. Waterbased.		0,0935%	0,583%							
Note: One component PVAc adhesive of D4 quality													
Adhesive, frame	0,02%	0,10%	4-hydroxi-4-metyl-2-pentanon	123-42-2	0,000%	0,002%	H226, H319						
Note: One component PVAc adhesive of D4 quality													
2. Sash	**10,65%**	**100,0%**											
Wood material sash	**10,13%**	**95,07%**											
Sash Top	2,3%	21,52%	Untreated pine, finger jointed		2,292%	21,516%							
Sash Side	5,6%	52,88%	Untreated pine, finger jointed		5,632%	52,875%							
Sash Bottom	2,2%	20,68%	Untreated pine, finger jointed		2,203%	20,677%							
Wood treatment & Coating	**0,40%**	**3,74%**											
Primer	0,14%	1,29%	1,2-benzisothiazol-3(2H)-one	2634-33-5	0,0001%	0,0006%	H302, H315, H318, H317, H400					✓	
Note: Waterborne 2-comp. Polyurethane Primer			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	0,000001%	0,000013%	H301, H310, H330, H314, H318, H317, H400, H410					✓	
Hardner, primer	0,05%	0,44%	Hexamethylene diisocyanate, oligomers	28182-81-2	0,043%	0,400%	H332, H317, H335						
			2-methoxy-1-methylethyl acetate	108-65-6	0,009%	0,089%	H226, H336						
			Hexamethylene diisocyanate	822-06-0	0,0001%	0,0013%	H331, H315, H319, H334, H317, H335		✓			✓	
Top Coat	0,21%	2,00%	3-Jodo-2-propynylbutylkarbamat	55406-53-6	0,001%	0,005%	H302, H331, H318, H317, H372, H400, H410					✓	
Note: Water Based, Acrylic binder.			1,2-benzisothiazol-3(2H)-one	2634-33-5	0,000%	0,001%	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	0,0003%	0,0030%	H301, H310, H330, H314, H318, H317, H400, H410					✓	
Adhesive & Sealer	**0,13%**	**1,19%**											
Adhesiv, finger joints, frame	0,10%	0,96%	Polyvinyl acetate emul. Waterbased.		0,102%	0,956%							

Note: PVAc dispersion adhesive													
Adhesive, frame	0,02%	0,15%	Propylene carbonate	108-32-7	0,0004%	0,0037%	H319						
Note: One component PVAc adhesive of D4 quality			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	0,0000%	0,0000%	H301, H310, H314, H317, H318, H330, H400, H410					✓	
Sealent	0,05%	0,47%	Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	0,003%	0,024%	H304				✓	✓	
Note: 1-component sealant, based on SMX polymer			Trimethoxyvinylsilane	2768-02-7	0,0005035%	0,0047266%	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-hydroxyoctadecan amide)	EU nr: 432-430-3	0,0025%	0,0236%	H431					✓	
			N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3	0,0005%	0,005%	H317, H318, H335						
			Dioctylbis(pentane-2,4-dionato-O,O')tin	54068-28-9	0,0005%	0,005%	H317, H371						
3. IGU - Insulated glass unit	**61,69%**	**100,0%**											
Float glass coated	38,994%	63,21%	Flat Glass coated	65997-17-3	38,994%	63,214%							
Float glass coated	19,497%	31,61%	Flat Glass uncoated	65997-17-3	19,497%	31,607%							
Spacer	0,819%	1,33%	Stainless steel EN 1.4372		0,045%	0,073%							
			Polypropylene	9003-07-0	0,774%	1,255%							
Primary seal	0,159%	0,26%	Carbon black	1333-86-4	0,079%	0,129%							
Secondary seal part A	1,283%	2,08%	Polyurethane glass sealant		1,283%	2,080%							
Secondary seal part B	0,143%	0,23%	di-"isononyt" phtalate	28553-12-0	0,071%	0,116%			✓		✓		
			Polymeric MDI	9016-87-9	0,043%	0,069%	H315, H317, H319, H332, H334, H335, H351						
			4.4'-methylenediphenyl diisocyanate	101-68-8	0,007%	0,012%	H315, H317, H319, H332, H334, H335, H351		✓			✓	
			carbon black	1333-86-4	0,007%	0,012%							
			Zeolites	1318-02-1	0,007%	0,012%							
			Oxirane,2-[[3-(trimethoxysilyl)propoxy]methyl]-	2530-83-8	0,003%	0,005%	H318, H411						
Absorbent	0,698%	1,13%	Zeolites	1318-02-1	0,698%	1,132%							
			Quartz	14808-60-7	0,007%	0,011%							
Argon	0,093%	0,15%	Argon	7440-37-1	0,093%	0,150%							
4. Aluminium	**5,44%**	**100,0%**											
Aluminium caldding, frame, side, top	1,253%	23,01%	AW6060		1,253%	23,009%							
Aluminium caldding, sash, side, top	1,229%	22,59%	AW6060		1,229%	22,586%							
Aluminium glazing strip	1,146%	21,05%	AW6060		1,146%	21,045%							
Aluminium glazing strip	0,558%	10,25%	AW6060		0,558%	10,248%							
Aluminium, sliding rail	0,384%	7,05%	AW6060		0,384%	7,053%							
Powder coat	0,383%	7,03%	3,9-bis(2,4-di-tertbutylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane	26741-53-7	0,004%	0,070%	H410						
Aluminium caldding, frame, bottom	0,300%	5,51%	AW6060		0,300%	5,513%							
Aluminium caldding, sash	0,191%	3,52%	AW6060		0,191%	3,517%							

5. Plastic parts	**0,30%**	**79,4%**											
Plastic Clip	0,091%	30,01%	PA6		0,091%	30,015%							
Glass packer	0,043%	14,27%	LDPE		0,043%	14,269%							
Plastic Clip	0,038%	12,44%	POM		0,038%	12,444%							
Glass packer	0,034%	11,12%	LLDPE		0,034%	11,124%							
Plastic Clip	0,017%	5,57%	PA6		0,017%	5,566%							
Tape	0,009%	2,99%	PP-plastic		0,009%	2,995%							
Cover Plug	0,005%	1,69%	LDPE		0,005%	1,690%							
Guide.part	0,030%	0,59%	POM		0,030%	0,586%							
Strikeplate.sideframe	0,03%	0,56%	POM		0,029%	0,559%							
Guide.part	0,01%	0,15%	ABS		0,008%	0,153%							
6. Seals, rubber & TPU parts	**0,75%**	**100,0%**											
Gasket EPDM	0,48%	64,58%	EPDM polymer	25038-36-2	0,169%	22,602%							
			Carbon black	1333-86-4	0,096%	12,915%							
			Paraffin oils	8012-95-1	0,096%	12,915%							
			Calcium carbonate	471-34-1	0,120%	16,144%							
Gasket black	0,14%	18,81%	LLDPE		0,070%	9,407%							
			PU-foam		0,000%	0,000%							
Brush-list	0,08%	10,76%	PP	95751-29-4	0,080%	10,760%							
Gasket white	0,04%	5,85%	PP	95751-29-4	0,044%	5,848%							
7. Metal parts	**5,14%**	**100,0%**											
Sliding hinge	2,04%	39,73%	DC01 Steel	Q235	1,964%	38,233%							
			Stainless steel	316	0,042%	0,823%							
			Steel	Q215	0,017%	0,334%							
			Shuangfei Bushing Selflubricating		0,003%	0,056%							
			Surf. Treatment Zinc plating		0,004%	0,072%							
			Powder coating		0,007%	0,127%							
			Fin Lube TF		0,005%	0,095%							
Sliding hinge	2,00%	38,94%	DC01 Steel	Q235	1,925%	37,469%							
			Stainless steel	316	0,041%	0,806%							
			Steel	Q215	0,017%	0,327%							
			Shuangfei Bushing Selflubricating		0,003%	0,055%							
			Surf. Treatment Zinc plating		0,004%	0,070%							
			Powder coating		0,006%	0,125%							
			Fin Lube TF		0,005%	0,093%							
Espagn.rod	0,24%	4,62%	35K Steel		0,236%	4,598%							
			Surf. Treatment, Zi.Ni Plating		0,001%	0,017%							
Toppslide	0,15%	3,01%	DC01 Steel	Q235	0,115%	2,232%							
			Steel	SAPH440	0,030%	0,590%							
			Steel	ML08AL	0,005%	0,100%							
			Plastic	POM 500T	0,002%	0,045%							
			Surf. Treatment, Zinc plating		0,000%	0,002%							
			Powder coating		0,002%	0,029%							
			White EP Bearing grease		0,001%	0,017%							
Toppslide	0,15%	3,01%	DC01 Steel (Q235)		0,115%	2,232%							
			Steel	SAPH440	0,030%	0,590%							
			Steel	ML08AL	0,005%	0,100%							
			Plastic	POM 500T	0,002%	0,045%							
			Surf. Treatment, Zinc plating		0,000%	0,002%							
			Powder coating		0,002%	0,029%							
			White EP Bearing grease		0,001%	0,017%							
Handle	0,15%	2,95%	Aluminium AlMg3	7429-90-5	10,494%	0,150%							

			Magnesium	7439-95-4	0,318%	0,005%							
			Copper	7440-50-8	0,350%	0,005%							
			Zinc	7440-66-6	0,011%	0,000%						✓	
			Nickel	7440-02-0	0,007%	0,000%			✓			✓	
			Chromium	7440-47-3	0,007%	0,000%							✓
			Stannous	7440-31-5	0,004%	0,000%							
Windows Esp.mm	0,13%	2,49%	DC01 Steel	Q235	0,071%	1,374%							
			Steel	Q235	0,007%	0,137%							
			Powder Metallurgy	Fn-0205-20	0,050%	0,964%							
			White EP Bearing grease		0,001%	0,017%							
			Surf. Treatment Dacromet		0,000%	0,000%							
			Surf. Treatment Zi-Ni Coating		0,000%	0,000%							
Centre.pivot	0,10%	1,94%	ASA Luran S778T		0,012%	0,242%							
			Stainless steel	304	0,017%	0,334%							
			Steinless steel	301	0,008%	0,150%							
			Powder Metallurgy	Fn-0205-20	0,062%	1,213%							
			Coating Dacromet		0,000%	0,006%							
Screws													
SU wood 3,5x19 TX15 Dac	0,05%	0,93%	Steel coated (not stainles steel)		0,048%	0,933%							
SU wood 4,5x32 TX20 PC4E	0,03%	0,49%	Steel zinc galvanized		0,025%	0,490%							
SU wood 4,5*25, TX20 A4	0,02%	0,47%	Stainless steel	SS316	0,024%	0,467%							
SU wood 4,5x60/36 TX20 Pı	0,02%	0,46%	Steel zinc galvanized		0,023%	0,456%							
SU wood 4,5*35, TX20 A2	0,01%	0,26%	Stainless steel	SS304	0,013%	0,256%							
LS Wood 4x60/36 T17 TX20	0,01%	0,23%	Steel zinc galvanized		0,012%	0,228%							
Nail rsk 562 nk	0,01%	0,20%	Steel zinc galvanized		0,010%	0,200%							
SU wood 4,0*30, TX20 A2	0,01%	0,19%	Stainless steel	SS304	0,010%	0,189%							
SU wood 4x20 TX20 A2	0,003%	0,061%	Stainless steel	SS304	0,003%	0,061%							
Nail SK 345	0,001%	0,022%	Steel zinc galvanized		0,001%	0,022%							

4. Raw materials

Recycled materials in the article	Share of raw material	Share of product
Aluminium	8,00%	0,44%
Glass	28,00%	16,38%

Renewable material	Share
Wood	25,51%

Grade of certified wood:	70-100%
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

Certificate

5. Environmental impact

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

ID-number för EPD: NEPD-4548-3799

EPD, declared size: 1230x1480

EPD-Name: NorDan NTech Villa Topswing reversible - TG 105/80 (With Aluminium Cladding)

GWP Functional unit*				GWP/kg
A1-A3 GWP_{total} ($kg\ CO_2e$)	A1-A3 GWP_{fossil} ($kg\ CO_2e$)	A1-A3 $GWP_{biogenic}$ ($kg\ CO_2e$)	A1-A3 GWP_{luluc} ($kg\ CO_2e$)	A1-A3 $GWP_{(total-biogenic)}$ / kg **
122,3	155,6	-33,4	0,14	2,23

*** 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

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:		69,07%	
Material	Weight % of whole item		Waste code
Aluminium	5,44%	EWC	170402
Metal	5,14%	EWC	170407
Glass	58,49%	EWC	200102

Is energy recovery possible? Yes

Energy recovery rate		30,93%	
Material	Weight % of whole item		Waste code
Wood with sealant	29,88%	EWC	170201
Plastic/rubber	1,05%	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

BREEAM NOR	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)
BREEAM SE	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
MILJÖ BYGGNAD	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 TG Vridfönster *(Trä & Trä/alu) 105mm

SCDP (Supply Chain Declaration Portal)

13. Product Assessment System

ECOproduct	No	ECOproduct isn't available for the product today.
BYGGVARUBEDÖMNINGEN	Yes	The product is listed in the database from Byggvarubedömningen. Name: NorDan TG Vridfönster Trä/Alu 105
SundaHus	Yes	The product is listed today the database from SundaHus. Name: NorDan TG Vridfönster Trä/Alu 105
BASTA	No	The product is not listed today in the database from Basta

Nordic Swan Ecolabel Yes — NorDan Ntech Villa Topswing reversible is available as Swan Ecolabel