

[illegible]

Byggevaredeklarasjon - NTech Villa Toppsving

Marked:





Dokument ID: 000D0E(1.01)

Dato: 21 Desember 2023

Side: 2 av 7

Material: Tre + aluminiumKarm: 105Glass: 3-lags

Gjelder for produktkoder:
BG

Primer	0,15%	0,94%	Fatty acids, C18-unsatd., trimers, compds. with olevlamine	147900-93-4	0,000%	0,003%	H332, H317, H372						
Note: Solvent based 2comp primer. Binder type Polyester acrylate			Fatty acids, tall-oil, compds. with olevlamine	85711-55-3	0,000%	0,003%	H318, H317, H373						
			Propylidynetrimethanol	77-99-6	0,000%	0,003%	H361fd						
Hardner, primer	0,05%	0,29%	m-tolylidene diisocyanate	26471-62-5	0,000%	0,003%	H330, H315, H319, H334, H317, H351, H335, H412		✓			✓	
Top Coat	0,23%	1,42%	3-iodo-2-propynyl butylcarbamate	55406-53-6	0,001%	0,004%	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	0,000%	0,000%	H301, H310, H330, H314, H318, H317, H400, H410					✓	
Adhesive & Sealant	0,17%	1,07%											
Adhesiv, finger joints, frame	0,16%	0,97%	Polyvinyl acetate emul. Waterbased.		0,16%	0,97%							
Note: PVAc dispersion adhesive													
Adhesive, frame	0,02%	0,10%	Propylene carbonate	108-32-7	0,000%	0,002%	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	0,000%	0,000%	H301, H310, H314, H317, H318, H330, H400, H410, H315, H319					✓	
2. Sash	10,66%	100,0%											
Wood material sash	10,09%	94,65%											
Sash top	2,28%	21,42%	Untreated pine, finger jointed		2,28%	21,42%							
Sash side	5,61%	52,64%	Untreated pine, finger jointed		5,61%	52,64%							
Sash bottom	2,19%	20,59%	Untreated pine, finger jointed		2,19%	20,59%							
Wood treatment & Coating	0,40%	3,77%											
Wood perservative	0,004%	0,04%	Propiconazole	60207-90-1	0,000%	0,001%	H302, H317, H360D, H400, H410		✓	✓	✓		
Note: Wood preservative to prevent wood rot.													
Primer	0,14%	1,33%	Fatty acids, C18-unsatd., trimers, compds. with olevlamine	147900-93-4	0,000%	0,004%	H332, H317, H372						
Note: Solvent based 2comp primer. Binder type Polyester acrylate			Fatty acids, tall-oil, compds. with olevlamine	85711-55-3	0,000%	0,004%	H318, H317, H373						
			Propylidynetrimethanol	77-99-6	0,000%	0,004%	H361fd						
Hardner, primer	0,04%	0,41%	m-tolylidene diisocyanate	26471-62-5	0,000%	0,004%	H330, H315, H319, H334, H317, H351, H335, H412		✓			✓	
Top Coat	0,21%	2,00%	3-iodo-2-propynyl butylcarbamate	55406-53-6	0,001%	0,01%	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	0,000%	0,000%	H301, H310, H330, H314, H318, H317, H400, H410					✓	

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Karm: 105

Glass: 3-lags

Gjelder for produktkoder:

BG

Adhesive & Sealant	0,17%	1,58%													
Adhesiv, finger joints, sash	0,10%	0,96%	Polyvinyl acetate emul. Waterbased.			0,10%	0,96%								
Note: PVAc dispersion adhesive															
Adhesive, sash	0,02%	0,15%	Propylene carbonate	108-32-7		0,000%	0,004%	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		0,000%	0,000%	H301, H310, H314, H317, H318, H330, H400, H410, H315, H319						✓	
Sealant	0,05%	0,47%	Distillates (petroleum), hydrotreated light paraffinic	64742-55-8		0,003%	0,02%	H304					✓	✓	
Note: 1-component sealant, based on SMX polymer			Trimethoxyvinylsilane	2768-02-07		0,001%	0,005%	H226, H332, H314							
			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)	432-430-3		0,003%	0,02%	H413						✓	
			N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3		0,001%	0,005%	H317, H318, H332							
			Dioctylbis(pentane-2,4-dionato-0,0')tin	54068-28-9		0,001%	0,005%	H317, H371							
3. IGU - Insulated glass unit	61,69%	100,0%													
Float glass coated	39,00%	63,21%	Flat glass coated	65997-17-3		39,00%	63,21%								
Float glass	19,50%	31,61%	Flat glass uncoated	65997-17-3		19,50%	31,61%								
Spacer	0,82%	1,33%	Stainless steel EN 1.4372			0,05%	0,07%								
			Polypropylene	9003-07-0		0,77%	1,25%								
Primary seal	0,16%	0,26%	Carbon black	1333-86-4		0,08%	0,13%								
Secondary seal part A	1,28%	2,08%	Polyurethane glass sealant			1,28%	2,08%								
Secondary seal part B	0,14%	0,23%	di-"isononyl" phtalate	28553-12-0		0,07%	0,12%				✓		✓		
			Polymeric MDI	9016-87-9		0,04%	0,07%	H315, H317, H319, H332, H334, H335, H351							
			4,4'-methylenediphenyl diisocyanate	101-68-8		0,01%	0,01%	H315, H317, H319, H332, H334, H335, H351			✓			✓	
			carbon black	1333-86-4		0,01%	0,01%								
			Zeolites	1318-02-1		0,01%	0,01%								
			Oxirane,2-[[3-(trimethoxysilyl)propoxy]methyl]-	2530-83-8		0,003%	0,005%	H318, H411							
Absorbent	0,70%	1,13%	Zeolites	1318-02-1		0,70%	1,13%								
			Quartz	14808-60-7		0,01%	0,01%								
Argon	0,09%	0,15%	Argon	7440-37-1		0,09%	0,15%								
4. Aluminium profiles	5,44%	100,0%													
Aluminium caldding, frame side, top	1,25%	23,01%	AW6060			1,25%	23,01%								
Aluminium caldding, frame bottom	0,30%	5,51%	AW6060			0,30%	5,51%								
Aluminium caldding, sash side	0,19%	3,52%	AW6060			0,19%	3,52%								
Aluminium caldding, sash side, top	1,23%	22,59%	AW6060			1,23%	22,59%								

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Aluminium glazing strip	1,15%	21,04%	AW6060		1,15%	21,04%								
Aluminium glazing strip	0,56%	10,25%	AW6060		0,56%	10,25%								
Aluminium, sliding rail	0,38%	7,05%	AW6060		0,38%	7,05%								
Powder coat	0,38%	7,03%	3,9-bis(2,4-di-tertbutylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane	26741-53-7	0,002%	0,07%	H410							
5. Plastic parts	0,30%	100,0%												
Tape	0,01%	2,99%	PP-plastic	9003-07-0	0,01%	2,99%								
Plastic clip	0,09%	30,02%	PA6	25038-54-4	0,09%	30,02%								
Plastic clip	0,02%	5,57%	PA6	25038-54-4	0,02%	5,57%								
Plastic clip	0,04%	12,44%	POM		0,04%	12,44%								
Cover plug	0,01%	1,69%	LDPE	9002-88-4	0,01%	1,69%								
Glass packer	0,04%	14,27%	LDPE	9002-88-4	0,04%	14,27%								
Glass packer	0,03%	11,12%	LLDPE	9002-88-4	0,03%	11,12%								
Strikeplate sideframe	0,03%	9,43%	POM		0,03%	9,43%								
Guide part	0,03%	9,88%	POM		0,03%	9,88%								
Guide part	0,01%	2,58%	ABS	9003-56-9	0,01%	2,58%								
6. Seals, rubber & TPU parts	0,75%	100,0%												
Gasket EPDM	0,48%	64,57%	EPDM polymer	25038-36-2	0,17%	22,60%								
			Carbon black	1333-86-4	0,10%	12,91%								
			Paraffin oils	8012-95-1	0,10%	12,91%								
			Calcium carbonate	471-34-1	0,12%	16,14%								
Gasket black	0,14%	18,82%	LDPE liner	9002-88-4	0,07%	9,41%								
			PU-foam	9009-54-5	0,07%	9,41%								
Gasket white	0,04%	5,85%	TPE		0,04%	5,85%								
Brush-list	0,08%	10,76%	PP		0,08%	10,76%								
7. Metal parts	5,14%	100,0%												
Gearbox window esp.	0,13%	2,49%	DC01 Steel	Q235	0,07%	1,37%								
			Steel	Q235	0,01%	0,14%								
			Powder Metallurgy	Fn-0205-20	0,05%	0,96%								
			White EP Bearing grease		0,001%	0,02%								
			Surf. Treatment Dacromet		0,000%	0,000%								
			Surf. Treatment Zi-Ni Coating		0,000%	0,000%								
Esp. rod	0,24%	4,62%	35K Steel		0,24%	4,60%								
			Surf. Treatment, Zi.Ni Plating		0,001%	0,02%								
Handle	0,15%	2,95%	Aluminium AlMg3	7429-90-5	0,15%	2,92%								
Sliding hinge	2,00%	38,94%	DC01 Steel	Q235	1,92%	37,47%								
			Stainless steel	316	0,04%	0,81%								
			Steel	Q215	0,02%	0,33%								
			Shuangfei Bushing Selflubricating		0,003%	0,05%								
			Surf. Treatment Zinc plating		0,004%	0,07%								
			Powder coating		0,01%	0,12%								
			Fin Lube TF		0,005%	0,09%								
Sliding hinge	2,04%	39,73%	DC01 Steel	Q235	1,96%	38,23%								
			Stainless steel	316	0,04%	0,82%								
			Steel	Q215	0,02%	0,33%								
			Shuangfei Bushing Selflubricating		0,003%	0,06%								

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			Surf. Treatment Zinc plating		0,004%	0,07%								
			Powder coating		0,01%	0,13%								
			Fin Lube TF		0,005%	0,10%								
Toppslide	0,15%	3,01%	DC01 Steel	Q235	0,11%	2,23%								
			Steel	SAPH440	0,03%	0,59%								
			Steel	ML08AL	0,01%	0,10%								
			Plastic	POM 500T	0,002%	0,04%								
			Surf. Treatment, Zinc plating		0,000%	0,002%								
			Powder coating		0,002%	0,03%								
			White EP Bearing grease		0,000%	0,000%								
Toppslide	0,15%	3,01%	DC01 Steel (Q235)		0,11%	2,23%								
			Steel	SAPH440	0,03%	0,59%								
			Steel	ML08AL	0,01%	0,10%								
			Plastic	POM 500T	0,002%	0,04%								
			Surf. Treatment, Zinc plating		0,000%	0,002%								
			Powder coating		0,002%	0,03%								
			White EP Bearing grease		0,001%	0,02%								
Centre pivot bushing	0,10%	1,94%	ASA Luran S778T		0,01%	0,24%								
			Stainless steel	304	0,02%	0,33%								
			Steinless steel	301	0,01%	0,15%								
			Powder Metallurgy	Fn-0205-20	0,06%	1,21%								
			Coating Dacromet		0,000%	0,01%								
Screws/Nails														
Srews Dac-coating	0,05%	0,93%	Steel, coated (not stainless steel)		0,05%	0,93%								
Screws A2	0,00%	0,06%	Stainless steel	304	0,003%	0,06%								
Screws	0,01%	0,23%	Steel zinc galvanized		0,01%	0,23%								
Screws	0,03%	0,49%	Steel zinc galvanized		0,03%	0,49%								
Screws	0,02%	0,46%	Steel zinc galvanized		0,02%	0,46%								
Screws A4	0,02%	0,47%	Stainless steel	316	0,02%	0,47%								
Screws A2	0,01%	0,26%	Stainless steel	304	0,01%	0,26%								
Screws A2	0,01%	0,19%	Stainless steel	304	0,01%	0,19%								
Nail	0,00%	0,02%	Steel zinc galvanized		0,001%	0,02%								
Nail	0,01%	0,20%	Steel zinc galvanized		0,01%	0,20%								

4. Raw materials

Recycled materials in the article	Share of raw material	Share of product	Renewable material	Share
Aluminium	8,00%	0,44%	Wood	25,51%
Glass	28,00%	16,38%		
Grade of certified wood:	70-100%		Certificate	
Certification system:	PEFC			
Comment:	The percentage above refers to the certified percentage of the wood raw material			
Country of origin wood raw material	Finland / Estonia			

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

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Gjelder for produktkoder:
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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-4000-3040

EPD, declared size: 1230x1480

EPD-Name: NorDan NTech Villa Toppswing reversible - BG 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 **
101,0	136,9	-31,5	0,51	1,82

* 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?
Does the product place special demands on surrounding building materials?

See window owner's manual
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?
Can the product be separated into pure materials for recycling?

Yes
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	26,68%	EWC 170201
Plastic/rubber	4,24%	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

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Gjelder for produktkoder:
BG

11. Indoor environment

Emissions to indoor air

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 2013v2.0	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.
		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)
ND NTech Villa Vridfönster - BG Trä, Trä/Alu

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 BG Vridfönster Trä/Alu 105
	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	NorDan Ntech Villa Toppswing reversible is available as Swan Ecolabel