Building Product Declaration - NTech Villa Double Balcony door (security), TX

Market:

Material: Timber + aluminium **Frame:** 105 **Glass:** Triple glazed

Applicable for:
TX

1. Company information

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

Contact person: Linda Jonsson
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Telephone number: +46 (0) 10-130 01 75
ISO certifications: ISO 9001
ISO 14001

2. Product data

Trade name: NorDan NTech Villa Double Balcony door (security) - TX

Declared size: 2000x2180 mm

Product classification: SE: BK04, 04111

Description of goods: NorDan NTech Villa Double Balcony door (security) - TX in size 2000x2180 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: TX

* link to NorDan's public document system, NDocs

3. Chemical content

Product weight: 165,86 kg

Date for the declaration of content: 2025-07-01

Material content is declared to: 100%

The content is checked against the candidate list, edition: 2025-06-25

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	8,61%												
2. Sash	18,44%												
3. IGU - Insulated glass units	61,32%												
4. Aluminium profiles	6,33%												
5. Plastic parts	0,15%												
6. Seals, rubber & TPU parts	0,71%												
7. Metal parts	4,45%												
1. Frame	**8,61%**	**100,0%**											
Wood material frame	**7,88%**	**91,48%**											
Frame top	5,41%	62,81%	Untreated pine, finger jointed		5,41%	62,81%							
Frame side	2,47%	28,67%	Untreated pine, finger jointed		2,47%	28,67%							
Threshold	**0,44%**	**5,10%**											

Threshold	0,44%	5,10%	Heat treated pine, finger jointed		0,44%	5,10%							
Wood treatment & Coating	**0,21%**	**2,42%**											
Wood perservative	0,003%	0,04%	Propiconazole	60207-90-1	<0,001%	0,001%	H302, H317, H360D, H400, H410			✓	✓	✓	
Note: Wood preservative to prevent wood rot.													
Primer	0,07%	0,82%	1,2-benzisothiazol-3(2H)-one	2634-33-5	<0,001%	<0,001%	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	<0,001%	<0,001%	H301, H310, H330, H314, H318, H317, H400, H410					✓	
Hardner, primer	0,02%	0,28%	Hexamethylene diisocyanate, oligomers	28182-81-2	0,02%	0,25%	H332, H317, H335						
			2-methoxy-1-methylethyl acetate	108-65-6	<0,001%	0,06%	H226, H336						
			Hexamethylene diisocyanate	822-06-0	<0,001%	0,001%	H331, H315, H319, H334, H317, H335		✓			✓	
Top Coat	0,11%	1,28%	3-iodo-2-propynyl butylcarbamat	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	<0,001%	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	<0,001%	<0,001%	H301, H310, H330, H314, H318, H317, H400, H410					✓	
Adhesive & Sealant	**0,09%**	**1,00%**											
Adhesiv, finger joints, frame	0,08%	0,92%	Polyvinyl acetate emul. waterbased.		0,08%	0,92%							
Note: PVAc dispersion adhesive													
Adhesive, frame	0,01%	0,08%	Propylene carbonate	108-32-7	<0,001%	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	<0,001%	<0,001%	H301, H310, H314, H317, H318, H330, H400, H410, H315, H319					✓	
2. Sash	**18,44%**	**100,0%**											
Wood material sash	**17,75%**	**96,26%**											
Sash top	2,41%	13,07%	Untreated pine, finger jointed		2,41%	13,07%							
Sash side	8,28%	44,93%	Untreated pine, finger jointed		8,28%	44,93%							
Sash bottom	2,38%	12,89%	Untreated pine, finger jointed		2,38%	12,89%							

Sash bottom	1,42%	7,72%	Untreated pine, finger jointed		1,42%	7,72%							
Sash mid side	2,75%	14,93%	Untreated pine, finger jointed		2,75%	14,93%							
Sash mid side	0,50%	2,71%	Untreated pine, finger jointed		0,50%	2,71%							
Wood treatment & Coating	**0,45%**	**2,43%**											
Wood perservative	0,01%	0,04%	Propiconazole	60207-90-1	<0,001%	0,001%	H302, H317, H360D, H400, H410			✓	✓	✓	
Note: Wood preservative to prevent wood rot.													
Primer	0,15%	0,82%	1,2-benzisothiazol-3(2H)-one	2634-33-5	<0,001%	<0,001%	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	<0,001%	<0,001%	H301, H310, H330, H314, H318, H317, H400, H410					✓	
Hardner, primer	0,05%	0,28%	Hexamethylene diisocyanate, oligomers	28182-81-2	0,05%	0,26%	H332, H317, H335						
			2-methoxy-1-methylethyl acetate	108-65-6	0,01%	0,06%	H226, H336						
			Hexamethylene diisocyanate	822-06-0	<0,001%	0,001%	H331, H315, H319, H334, H317, H335		✓			✓	
Top Coat	0,24%	1,28%	3-iodo-2-propynyl butylcarbamat	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	<0,001%	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	<0,001%	<0,001%	H301, H310, H330, H314, H318, H317, H400, H410					✓	
Adhesive & Sealant	**0,24%**	**1,32%**											
Adhesiv, finger joints, sash	0,18%	0,97%	Polyvinyl acetate emul. waterbased.		0,18%	0,97%							
Note: PVAc dispersion adhesive													
Adhesive, sash	0,01%	0,07%	Propylene carbonate	108-32-7	<0,001%	0,00%	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	<0,001%	<0,001%	H301, H310, H314, H317, H318, H330, H400, H410, H315, H319					✓	
Sealant	0,05%	0,27%	Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	0,003%	0,01%	H304				✓	✓	
Note: 1-component sealant, based on SMX polymer			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-hydroxyoctadecan amide)	EU nr: 432-430-3	0,003%	0,01%	H413				✓	
			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					
3. IGU - Insulated glass units	**61,32%**	**100,0%**										
Float glass, tempered, coated	38,86%	63,38%	Flat glass, tempered, coated	65997-17-3	38,86%	63,38%						
Float glass	19,28%	31,44%	Flat glass uncoated	65997-17-3	19,28%	31,44%						
Spacer	0,81%	1,33%	Stainless steel	EN 1.4372	0,04%	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-"isononyt" 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	0,69%	1,13%	Zeolites	1318-02-1	0,69%	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	**6,33%**	**100,0%**										
Caldding frame, top, side	0,81%	12,78%	Aluminium	EN AW-6060	0,81%	12,78%						
Threshold, outside profile	0,83%	13,17%	Aluminium	EN AW-6060	0,83%	13,17%						
Threshold, inside profile	0,45%	7,07%	Aluminium	EN AW-6060	0,45%	7,07%						
Caldding sash, bottom	0,10%	1,61%	Aluminium	EN AW-6060	0,10%	1,61%						
Caldding sash, top, side	1,80%	28,39%	Aluminium	EN AW-6060	1,80%	28,39%						
Caldding sash, sec. side	0,38%	6,02%	Aluminium	EN AW-6060	0,38%	6,02%						
Glazing strip, bottom	0,31%	4,96%	Aluminium	EN AW-6060	0,31%	4,96%						
Glazing strip, top, side	1,25%	19,78%	Aluminium	EN AW-6060	1,25%	19,78%						
Powder coating	0,39%	6,21%	3,9-bis(2,4-di-tertbutylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane	26741-53-7	0,004%	0,05%	H410					

5. Plastic parts	**0,15%**	**100,0%**											
Cover plug	0,003%	2,21%	LDPE	9002-88-4	0,003%	2,21%							
Plastic clip	0,02%	11,57%	POM		0,02%	11,57%							
Plastic clip	0,02%	12,05%	PA6	25038-54-4	0,02%	12,05%							
Plastic clip	0,02%	12,47%	PA6	25038-54-4	0,02%	12,47%							
Glazing packer	0,04%	24,91%	LDPE	9002-88-4	0,04%	24,91%							
Glazing packer	0,05%	32,36%	LLDPE	9002-88-4	0,05%	32,36%							
Strike plate, frame bottom	0,004%	2,79%	POM		0,004%	2,79%							
Washer	0,002%	1,64%	LLDPE	9002-88-4	0,002%	1,64%							
6. Seals, rubber & TPU parts	**0,71%**	**100,0%**											
Gasket EPDM	0,48%	67,93%	EPDM polymer	25038-36-2	0,17%	23,78%							
			Carbon black	1333-86-4	0,10%	13,59%							
			Paraffin oils	8012-95-1	0,10%	13,59%							
			Calcium carbonate	471-34-1	0,12%	16,98%							
Gasket black	0,12%	16,44%	LDPE liner	9002-88-4	0,06%	8,22%							
			PU foam	9009-54-5	0,06%	8,22%							
Brush-list 4mm	0,02%	2,38%	Polyporpylene		0,02%	2,38%							
Gasket black, bottom	0,03%	4,18%	Polyporpylene		0,03%	4,18%							
Brush-list 7mm	0,06%	9,07%	Polyporpylene		0,06%	9,07%							
7. Metal parts	**4,45%**	**100,0%**											
Espagnolette	0,97%	21,74%	Steel C45	EN 1.0503	0,76%	17,19%							
			Stainless steel	EN 1.4016	0,09%	2,13%							
			Steel	EN 1.0330	0,05%	1,17%							
			Steel	EN 1.0346	0,04%	0,87%							
			Sintered steel D39	65996-66-9	0,005%	0,11%							
			Steel	EN 1.0718	0,004%	0,09%							
			Polyamide	395661-93-5	0,004%	0,08%							
			POM		0,002%	0,05%							
			Steel	EN 1.0214	0,002%	0,05%							
			Zinc alloy		<0,001%	0,01%							
Cover at center lock	0,01%	0,15%	Stainless Steel	1.4301, 304	0,007%	0,146%							
Handle, outside/inside	0,36%	7,98%	Aluminium AlMg3	EN AW-5754	0,35%	7,90%							
Sq.pin	0,13%	2,83%	Steel	40Cr, 10B21	0,08%	1,90%							
			Stainless steel	1.4301, 304	0,04%	0,93%							
			Surf. treatment plating, coating		<0,001%	0,002%							
Cylinder extension	0,05%	1,19%	Zamak 4 alloy		0,05%	0,001%							
Cylinder, thumbturn	0,12%	2,79%	Brass Alloy	CuZn37	0,03%	0,78%							
			Brass Alloy*	CuZn39Pb3	0,07%	1,61%							
			** 3,7% Pb in alloy*	*7439-92-1*	0,003%	<0,001%		✓	✓		✓	✓	✓
			Surface treatment Ni	7440-02-0	<0,001%	<0,001%			✓			✓	
			Surface treatment Cu	7440-50-8	<0,001%	<0,001%						✓	
			Steel	EN 1.0718	0,01%	0,19%							

			Steel DC01	EN 1.0330	0,004%	0,08%							
			Polyamid (PA)		0,003%	0,06%							
			Stainless steel	EN 1.4310	<0,001%	0,003%							
			Carbon Steel, C10E	EN 1.1121	<0,001%	0,003%							
			Hostaphan, PET polyethylene terephthalate	25038-59-9	<0,001%	0,001%							
Hinges, sash	0,77%	17,22%	Steel	DC01, Q235	0,70%	15,64%							
			PA6		0,01%	0,16%							
			Steel	ML08AL, HG215	0,06%	1,40%							
			Surf. treatment plating, coating		0,001%	0,02%							
Hinges, frame	0,94%	21,19%	Steel	DC01, Q235	0,70%	15,64%							
			PA6		0,01%	0,16%							
			Stainless steel	1.4301, 304	0,10%	2,16%							
			Steel	ML08AL, HG215	0,14%	3,21%							
			Surf. treatment plating, coating		0,001%	0,02%							
Strike plate for lockhouse	0,24%	5,33%	Steel	SAPH 440	0,20%	4,40%							
			Steel	DC01, Q235	0,04%	0,87%							
			Zinc alloy		0,002%	0,05%							
			Surf. treatment Zn plating		<0,001%	0,004%							
Strike plates, sec. door	0,08%	1,81%	Steel	SAPH 440	0,06%	1,40%							
			POM		0,02%	0,41%							
			Surf. treatment Zn plating		<0,001%	0,004%							
Strike plate frame top	0,04%	0,79%	Steel	SAPH 440	0,03%	0,65%							
			POM		0,01%	0,14%							
			Surf. treatment Zn plating		<0,001%	0,001%							
Slip-bolts	0,16%	3,64%	Zamak 5 alloy		0,13%	2,95%							
			Steel non-alloy (not stainless steel)		0,03%	0,69%							
Restrictor	0,36%	7,99%	Zinc alloy		0,21%	4,73%							
			Steel (not stainless steel)		0,07%	1,55%							
			Aluminum		0,07%	1,54%							
			Stainless steel		0,003%	0,07%							
			Nylon 66	32131-17-2	0,005%	0,11%							
Screws / Nails													
Nail A2,A4	0,01%	0,28%	Stainless steel	1.4301, 1.4401	0,01%	0,28%							
Nail	0,01%	0,17%	Steel, zinc galvanized		0,01%	0,17%							
Srews Dac coating	0,08%	1,69%	Steel, coated (not stainles steel)		0,08%	1,69%							
Screws	0,13%	3,01%	Steel, zinc galvanized		0,13%	3,01%							
Screws A2, A4	0,01%	0,20%	Stainless steel	1.4301, 1.4401	0,01%	0,20%							

4. Raw materials

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

Renewable material	Share
Wood	25,63%

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?
Single door: Yes
Double door: No

ID number for EPD: Single door: NEPD-4546-3801

EPD, declared size:
Single door: 1230x2180

EPD-Name: Single door: NorDan NTech Villa Balcony door (security) - TE 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 $GWP_{(total-biognic)}$ / kg **
-	-	-	-	-

*** 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 product owner's manual
Does the product place special demands on surrounding building materials?
See product owner's manual

Does the product require input goods for operation and maintenance?
See product owner's manual

9. Demolition

Is the item prepared for dismantling?	Yes
Can the product be separated into pure materials for recycling?	Yes, see product 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: 68,92%

Material	Weight % of whole item	Waste code
Aluminium	6,33%	EWC 170402
Metal	4,45%	EWC 170407
Glass	58,14%	EWC 200102

Is energy recovery possible? Yes

Energy recovery rate 31,08%

Material	Weight % of whole item	Waste code
Wood with sealant	27,05%	EWC 170201
Plastic/rubber	4,03%	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	EPD of single balcony door 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	EPD of single balcony door 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	EPD of single balcony door 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	EPD of single balcony door 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

SCDP (Supply Chain Declaration Portal)
NorDan NTech Villa Double Balcony door (security) - TX

13. Product Assessment System

ECOproduct	No	ECOproduct is not available for the product
BYGGVARUBEDÖMNINGEN	No	The product is not listed in the database from Byggvarubedömningen
SundaHus	No	The product is not listed in the database from SundaHus
Nordic Swan Ecolabel	Yes	Swan Ecolabel is available for the product