

Building Product Declaration - SoundGuard Tilt and Turn inward opening window w sec. Sash

Market:

**NorDan**

Document ID: 000878(3.00)

Date: 24 January 2024

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Glass: 2+1

Applicable for product codes:

KN

1. Company information

NorDan AB

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457 91 Tanumshede - Sweden
Organization number: 556294-4529

Contact person: Jonas Jonsson
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Telephone number: +46 (0) 10-130 01 68
ISO certifications: ISO 9001
ISO 14001

2. Product data

Trade name: NorDan Kvillsfors Tilt and Turn inward opening window w/sec. Sash - KN (With Aluminium Cladding) Declared size: 1230x1480 mm

Product classification: BK04 Product Group ID: 04105

Description of goods: NorDan Kvillsfors Tilt and Turn inward opening window w/sec. Sash - KN in size 1230x1480 mm is covered in this EPD. Wooden window with aluminium cladding. Declaration of Performance: DoP-NDAB-NDKF-003v2-SE

Estimated technical lifetime: 60 years Standard glass unit: 2+1 glazed unit 4 + 16G + E4 and 4 singel glass

URL* to public product documentation: https://portal.nordan.no/ndocs/search?category=document_EPD Product Code: KN

* link to NorDan's public document system, NDOcs

3. Chemical content

Product weight: 72,66 kg Date for the declaration: 2024-01-24

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	19,18%												
2. Sash	8,66%												
3. IGU - Insulated glass unit	58,03%												
4. Aluminium	8,50%												
5. Plastic parts	0,05%												
6. Seals, rubber & TPU parts	1,57%												
7. Metal parts	4,01%												
1. Frame	19,18%	100,0%											
Wood material frame	18,61%	97,02%											
Frame	18,6%	97,02%	Untreated pine, finger jointed		18,611%	97,021%							
Wood treatment & Coating	0,35%	1,83%											
Top coat	0,350%	1,83%	2-butoxiethanol	111-76-2	0,0105%	0,0548%	H302 H332 H315 H319						
Note: Water borne, acrylate binder			2,4,7,9-tetramethyldec-5-yne-4,7-diol	126-86-3	0,0035%	0,0183%	H318 H317 H412						
			Adipohydrazid	1071-93-8	0,0035%	0,0183%	H302, H331, H318, H317, H372, H400, H410						
			1,2-benzisotiazol-3(2H)-on	2634-33-5	0,0002%	0,0009%	H314, H318, H335, H400						✓

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			Barrier Foil / aluminium foil		0,0004%	0,0007%								
Primary seal	0,077%	0,13%	Polyisobutylene	9003-27-4	0,077%	0,132%								
Secondary seal part A	0,619%	1,07%	Polyurethane		0,619%	1,067%								
Secondary seal part B	0,069%	0,12%	4.4-Methylene diphenyl diisocyanate, oligomers	25686-28-6	0,028%	0,047%	H315 H317 H319 H332 H334 H335 H351 H373							
			[3-(2,3-epoxypropoxy)propyl]tri methoxysilane	2530-83-8	0,014%	0,024%	H318							
			p-toluenesulphonyl isocyanate	4083-64-1	0,0003%	0,0006%	H334 H315 H319 H335							✓
Absorbent	0,337%	0,58%	Zeolites	1318-02-1	0,337%	0,581%								
			Quartz	14808-60-7	0,003%	0,006%								
Argon	0,045%	0,08%	Argon	7440-37-1	0,045%	0,077%								
4. Aluminium	8,50%	100,0%												
Sec.sash, aluminium	3,272%	38,51%	AW6060		3,272%	38,510%								
Aluminium cladding	3,759%	44,24%	AW6060		3,759%	44,238%								
Glazing strip	0,726%	8,55%	AW6060		0,726%	8,547%								
Powder coat	0,449%	5,28%	3,9-bis(2,4-di-tertbutylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane	26741-53-7	0,004%	0,053%								
Mounting clips	0,254%	2,98%	AW6060		0,254%	2,984%								
Hinges, clips	0,037%	0,44%	AW6060		0,037%	0,437%								
5. Plastic parts	0,05%	100,0%												
Cover plug	0,005%	9,49%	LDPE	9002-88-4	0,005%	9,488%								
Glass packer	0,035%	66,79%	LLDPE	9002-88-4	0,035%	66,791%								
Coupling clips	0,012%	23,72%	POM,plastic	9002-81-7	0,0124%	23,720%								
6. Seals, rubber & TPU parts	1,57%	100,0%												
EPDM-gaskets	1,57%	100,00%	EPDM polymer	25038-36-2	0,549%	35,000%								
			Carbon black	1333-86-4	0,314%	20,000%								
			Paraffin oils	8012-95-1	0,314%	20,000%								
			Calcium carbonate	471-34-1	0,392%	25,000%								
7. Metal parts	4,01%	100,0%												
Windows fittings	3,41%	85,13%	Zinc alloy		2,021%	50,390%								
			Steel		0,663%	16,541%								
			Aluminium		0,656%	16,362%								
			Stainless steel		0,028%	0,698%								
			Nylon 66	32131-17-2	0,046%	1,141%								
Handles, etc	0,25%	6,35%	Aluminium AlMg3	7429-90-5	0,255%	6,350%								
Screws														
Screws, galvanized	0,31%	7,67%	Steel zinc galvanized		0,308%	7,673%								
Screws, stainless steel	0,03%	0,84%	Stainless steel	SS304	0,034%	0,844%								

4. Raw materials

Recycled materials in the article	Share of raw material	Share of product
Aluminium	8,00%	0,68%
Glass	28,00%	15,82%

Renewable material	Share
Wood	26,40%

Grade of certified wood: 70-100%

Certificate

Certification system: FSC

Comment: The percentage above refers to the certified percentage of the wood raw material included in the production. Finished product is not sold certified.

Country of origin wood raw material Finland/ Estonia

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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 for EPD: NEPD-5654-4972

EPD, declared size: 1230x1480

EPD-Name: NorDan Kvillsfors Tilt and Turn inward opening window w/sec. Sash - KN (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-biogen) / kg **
104,6	139,9	-35,6	0,30	1,83

* 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: 69,00%

Material	Weight % of whole item	Waste code
Aluminium	8,50%	EWC 170402
Metal	4,01%	EWC 170407
Glass	56,49%	EWC 200102

Is energy recovery possible? Yes

Energy recovery rate: 31,00%

Material	Weight % of whole item	Waste code
Wood with sealant	29,38%	EWC 170201
Plastic/rubber	1,62%	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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11. Indoor environment

Emissions to indoor air

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				
	v6.1	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				
	v6.1	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				
	2016v1.2				
	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		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 of classification limits	
		Ind 15	Gold	Public e-bvd or equivalent available	

Nordic Swan Ecolabel buildings

HPP (Husproduktspöralen)

Yes - Kvillsfors Inätgäende Kipp-Dreh Kopplat

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 Byggarubedömmingen, Kvillsfors Inätgäende Kipp-Dreh Fönster Kopplat - KN
	Yes	The product is listed in the database from SundaHus, Kvillsfors Inätgäende Kipp-Dreh Fönster Kopplat - KN
	No	The product is not listed today in the database from Basta
Nordic Swan Ecolabel	No	Swan Ecolabel isn't available for the product today