

Nofisol[®]

High Value dB

Data sheet

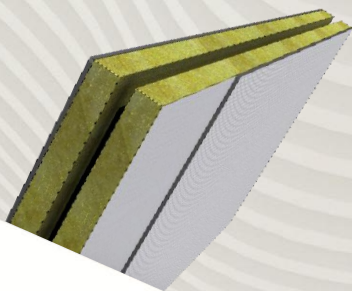


45

So much more than just a sound barrier

High Value dB Barrier

Nofisol® 45



Dimensions Nofisol® barrier

Length	1200 mm
Height	Variable between 80 – 2000 mm*
Thickness	66 mm

*Different dimensions on request

Dimensions Nofisol® EP 8 Alu foil

Length x Width	1200 x 1000 mm
Density	8 kg/ m ²
Self adhesive	Yes – no extra fixing needed
Application	Double sided

Performance

Sound Insulations

	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 kHz
	16.3	30.6	42.7	51.3	59.5	63.7
Oct 1/3	26.0	36.8	42.9	55.5	62.1	61.9
	28.3	40.6	43.8	57.7	64.0	61.6
Oct 1/1	20.4	34.1	43.1	54.0	61.5	62.3

Sound insulation: $R_w(C;Ctr) = 45 (-3,-10)$ dB ISO 717-1:1996

Smoke & Fire behaviour

Smoke Resistance	202 min. based on NEN 6075:2011
Smoke Permeability	Sa/ S200 based on NEN 6075:2020
Euro Fire Class Nofisol® Base element	A2-s1,d0
Euro Fire Class Nofisol® EP 8 Alu foil	A2-s1,d0*

Fire resistance

Integrity (E)	E 120
Heat Radiation (EW)	EW 120
Thermal Insulation (EI)	EI 60

* This concerns the measurement results of the indicative determination of the fire behavior of NOFISOL® EP 8 Aluminium Foil in accordance with EN 14523:2010 (SBI test), conducted by Peutz.

Sustainability



“Building a Greener Future: Certified for Sustainability, Committed to Excellence”

Cradle to Cradle Certified® Silver v4.0

Globally leading standard that evaluates products across six key areas:

- Environmental Policy and Management;
- Material Health;
- Product Circularity;
- Clean Air and Climate Protection;
- Water and Soil Stewardship;
- Social Fairness.

Eurofins Indoor Air Comfort Gold

Top indoor quality standards. Our Eurofins Indoor Air Comfort Gold certificate confirms that our products meet strict European VOC emission standards, contributing to a healthier indoor environment.

LCA / EPD

We use Life Cycle Assessments (LCA) and Environmental Product Declarations (EPD) to ensure our products have minimal environmental impact. Listed in both the International and Dutch database.

French VOC A+

Highest standards for low emissions, earning French VOC A+. This rating confirms that our materials emit minimal harmful substances, contributing to superior indoor air quality.



Installation

Sound installation



- Measure the height between wall and construction with a slight excess;
- Cut the aluminum foil of the base barrier slightly on both sides, then cut the base barrier on both sides with an insulation knife or saw with fine teeth;
- Place the base element in place and tilt into its final position;
- Measure top bandrafter to structure;
- Cut the Nofisol® EP Alu Foil to correct height and, if necessary, divide the foil into parts of max. 30cm before application;
- Remove the protective liner on the back of the Nofisol® EP Alu Foil at an angle of approximately 3–5 cm;
- When applying press it firmly onto the base elements;
- Remove the rest of the protective liner and press the foil firmly onto the base element;
- If fastening elements protrude from the base element, the Nofisol® EP Alu Foil must be cut in those places so they also protrude through the Nofisol® EP Alu Foil without causing any 'air bubbles';
- The EP Alu Foil must be applied on both sides of the base elements;
- The next piece of Nofisol® EP Alu Foil is applied tightly without overlapping.

Note: Taping of the seams is not necessary and mechanical fastening of the Nofisol EP Alu Foil is not necessary nor desired

Smoke installation



- Install the base element as per the above sound installation instructions;
- Extra processing, tape the base elements on both sides (airtight) with NOFISOL® Alu Tape, this concerns the seams with each other and with the surrounding building construction, the connection with the bandrafter does not need to be taped;
- Apply the Nofisol EP Alu foil as per the above sound installations instructions.

Note: Mechanical fastening of the Nofisol EP Alu Foil is not necessary nor desired

Fire installation



- Prior to the installation of the base barriers place 2 strips of 12.5 mm plaster in the bandrafter;
- Install the NOFISOL® barriers according to the above sound installation instructions;
- Before applying the NOFISOL® EP Alu Foil, the seams between the base elements and with building construction must be provided with NOFISOL® fire-resistant adhesive. This adhesive must be applied in dots every 10 cm in the seams with each other and with the surrounding building construction (not the bandrafter) using a caulking gun.

Note: Taping of the seams is not necessary and mechanical fastening of the Nofisol EP Alu Foil is not necessary nor desired

Also watch our assembly videos



Specifications

Base Element

Length	1200 mm
Height	600 / 1000 / on request
Thickness	66 mm
Weight	8-9 kg/m2

Nofisol EP 8 Alu foil

Length	1200 mm
Height	1000 mm
Thickness	4 mm
Weight	8 kg/m2

Performance

Sound insulation	Rw 45 dB	ISO 717-1:1996
Fire resistance	EI 60	EN 1364-1:1999
Smoke leakage	Sa / S200	EN 1634-3:2004 / NEN 6075:2020
Smoke resistance	202 minutes	NEN 6075:2020

Sustainability

Cradle to Cradle Certified®	Silver v 4.0
Carbon footprint (CO2)	Zero Biogenic Carbon at factory gate
Indoor Air Climate	Class A+
Eurofins VOC	Indoor Air Comfort GOLD version 9.0
In compliance with VOC emission related limit values	BREEAM New Construction LEED (ACP) Germany (AgBB/ABG) Italian CAM Edilizia French HQE Certification EU Taxonomy Regulation Well Building Global Green Tag Blue Angel DE-UZ 132 Nordic Swan Danish Indoor Climate Label (Emission class 1) Very low emitting products according to EN 16798-1
LCA – Life Cycle Analyse	PDF Available
EPD – Environmental Product Declaration	PDF Available
PCD – Product Climate Declaration	PDF Available

Database

Eurofins Indoor Air Comfort GOLD	go to database
Cradle to Cradle – C2C	go to database
Dutch Environmental Database (NMD)	go to database
International EPD	go to database



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Disclaimer

The information provided in this document is for informational purposes only. For project-specific (installation) advice, we recommend contacting us directly.

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