

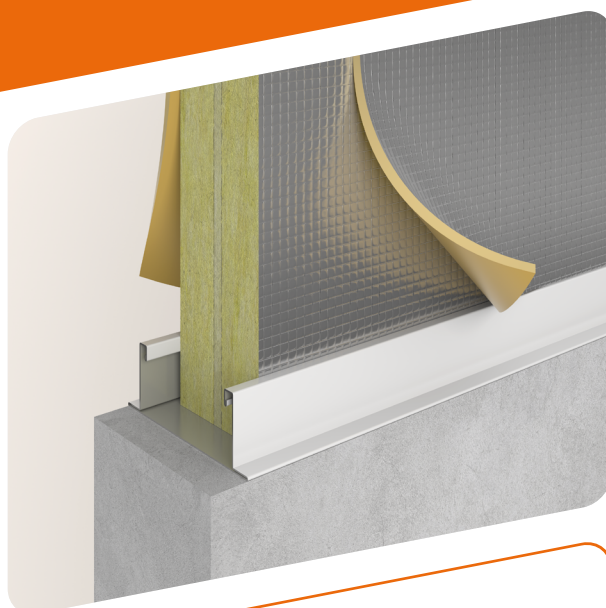


SONOREX® 47 FIRE

Fire-resistant noise barriers

MOST IMPORTANT ADVANTAGES

- Sound insulation R_w is 47 dB
- Eurofins Air Comfort Gold label
- Fire resistance EI is 60 minutes
- Partition wall height with fire requirement possible up to 4 meters
- Easy installation: no plaster strips required for fire requirements
- Customisable: less waste on the construction site



THE SYSTEM

SONOREX® 47 Fire is a sound-insulating and fire-resistant barrier consisting of two Isover stone wool panels (compressed), covered with reinforced aluminium foil. The noise barrier has an additional sound-insulating core of the innovative ULTIMATE™ lightweight stone wool. To achieve the extra high sound insulation, the SONOREX® 47 Fire noise barrier has a double-sided finish with 5 mm SONOREX® Easy Mass foil with a mass of 10 kg/m² (applied off-site or separately on the project).

APPLICATION

The SONOREX® 47 Fire fire-resistant noise barrier has been specially developed for use on lightweight partition walls above suspended ceilings to improve the flanking sound insulation and fire resistance.

OVERVIEW PERFORMANCE & CONDITIONS

Performances

Sound insulation R_w based on EN ISO 717	47 dB
Fire resistance EI based on EN 1364-1	60 minutes
Smoke permeability based on the Dutch standard NEN 6075	Sa & S200
Weight SONOREX® 47 Fire	28.6 kg/m ²

Conditions

For fire resistance and smoke permeability, maximum dimensions apply; see the table on the following page. For certain wall heights, additional stabilization is required. This can be achieved, for example, by bracing the band grid to the overhead concrete floor. These braces – such as nonius hangers placed at approximately 45 degrees – must be installed a maximum of 2.4 meters apart and on both sides of the wall.

SYSTEM SELECTOR

Our system selector helps you to easily find the right SONOREX® noise barrier for your project. Make your choice based on the requirements for fire and acoustic comfort in combination with a ceiling panel. Our SONOREX® noise barriers have been tested in combination with the most commonly used ceiling systems.



Visit saint-gobain-solutions.nl/sonorex-systeemselector or scan the QR code.

SONOREX® 47 FIRE

Fire requirements	Performance	Maximum wall height (incl. SONOREX®)	Maximum height SONOREX®	Need of bracing?
Fire resistance in minutes	30 min.	4 meters	600 mm	No
	60 min.	3 meters	600 mm	No
	60 min.	4 meters	930 mm	Yes
Smoke permeability	Sa & S200	No maximum	1200 mm	No

The SONOREX® products have been tested according to the standards stated in this product sheet. Contact us for questions about the application area, dimensions and connections.

DIMENSIONS*

Standard height SONOREX®	600 mm
Maximum height SONOREX®	2000 mm
Standard length SONOREX®	1200 mm
Thickness SONOREX® 47 Fire	66 mm
Thickness SONOREX® Easy Mass light foil	5 mm (double-sided)

* SONOREX® is available in customized dimensions. Please contact us for more information.

CERTIFICATION

- Eurofins Indoor Air Comfort Gold label, the best quality class for healthy indoor air.
- A+ (VOC).



FIRE SAFETY

Smoke permeability

SONOREX® 47 Fire noise barriers are tested according to the Dutch standard NEN 6075. The smoke permeability of the components is expressed in Sa or S200. The Sa and S200 tests are always performed at a number of pressure differences. S200 delivers a higher performance than Sa.

- Sa: the component has been tested with cold smoke at a room temperature of $\pm 20^{\circ}\text{C}$.
- S200: the component has been tested with cold smoke at room temperature and at 200°C .

If there is a need to meet the smoke permeability requirements, then SONOREX® tape must be applied on one side.

Fire resistance

SONOREX® 47 Fire has a fire resistance (EI) of 60 minutes. Due to the unique composition of this SONOREX® 47 Fire noise barrier, the application of one or more plaster strips at the location of the band grid is not necessary, provided that the adjacent ceiling is made of a fire class C or better and is locally resistant to higher temperatures. The SONOREX® 47 Fire noise barrier can be used in combination with the wall up to a total height of no less than 4000 mm.

Product changes or inaccuracies are reserved. The most up to date information can be found at saint-gobain-solutions.nl/sonorex.

The fire resistance of SONOREX® Fire noise barriers is documented in various fire reports (available for inspection). For SONOREX® Fire noise barriers, the criterion "thermal insulation based on temperature", as stated in the Dutch standard NEN 6069, is often decisive. In this case, the temperature increase on the wall side that is not directly heated may be an average of 140°C and the maximum temperature increase at any point may be 180°C .

ACOUSTIC COMFORT

Sound insulation

The SONOREX® 47 Fire noise barrier has a (direct) sound insulation (R_w) of 47 dB (laboratory value). This single-digit value R_w is determined in accordance with EN ISO 717. The underlying Peutz report is available for inspection. Ask our Customer Service about this.

Flanking sound insulation

Sound transmission from one room to another can easily occur via the space above a suspended ceiling (the so-called plenum). This is called flanking sound insulation. SONOREX® noise barriers significantly reduce this sound transmission.

In our SONOREX® selector you can easily find the calculated flanking sound insulation $D_{n,f,w}$ value in combination with the desired ceiling panel. Visit saint-gobain-solutions.nl/sonorex-systeemselector or scan the QR code.



INSTALLATION



For application of the SONOREX® 47 Fire noise barriers, we refer you to the SONOREX® installation instructions. You can download this at saint-gobain-solutions.nl/sonorex-47-fire or simply scan the QR code. If you have specific questions about the installation of SONOREX® 47 Fire, please contact us.

BIM SERVICE

You can quickly and easily find BIM information in our specification service. Visit saint-gobain-solutions.nl/tools.

CONTACT

Would you like personal advice about our SONOREX® noise barriers? Please contact our specialists at Customer Service.

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