

Noise reducers Noise barrier

The number one protection against noise and
privacy infringement, plus intruder threats.
Very effective noise insulation and absorption.



Experts in perimeter protection

HERAAS

Noise intrusion is a constant issue for most densely populated countries. This can be caused by a number of things: children playing, industry, agriculture, heavy machinery, rail and road traffic. Noise is not only detrimental to residential and industrial environments, but in some cases even to personal health and welfare. The Noise reducer is the solution. These highly effective insulation walls protect you from noise and intruders, but also guarantee your privacy.

A revolutionary product and a potential solution for everyone who is concerned with future and current environmental developments – the Noise reducer. The noise isolation and absorption values offer a robust noise barrier that caters for the most varied situations in our busy and crowded living space. The noise reduction wall also protects your privacy and safety by creating a site perimeter and a barrier against intruders. The noise reduction wall is available in two versions: the Noise reducer and the Noise reducer HA.

Noise reducer

The Noise reducer is a light and effective sound insulation wall with extremely good noise insulation and absorption. The wall protects against noise disturbance from road traffic and leisure activities, but also against noise from ventilation systems, heat exchangers or generators in residential and business locations. The Noise reducer has a small footprint that takes up a minimum of building space.

The cleverly designed sandwich construction is made of PE-netting, a centre of noise absorbing mineral wool, and a built-in noise reducing steel plate. This plate is firmly embedded in the construction using a galvanized steel frame.

Noise reducer HA

This is an extra-strength version of the Noise reducer, with a larger build height and more noise reducing capacity than the normal version. The Noise reducer HA has a double layer of noise absorbing mineral wool. This version is ideally suitable for protecting public areas that border on busy roads and highways, playgrounds, sport fields, production sites or industrial plants.

Two layers of mineral wool with an attached steel plate in the middle form the core of this noise absorbing element. The strong noise absorption of the HA element is attributed to the sandwich-like construction of the individual components. A galvanized steel frame holds the complete construction firmly in place.

Technical specifications

	Noise reducer	Noise reducer HA
Panel thickness	4 cm	9 cm
Highly effective sound insulation	30 dB Rw = 30 dB(a) according to NEN 1793-2 in category B3 (highest class for sound insulation)	30 dB Rw = 30 dB(a) according to NEN 1793-2 in category B3 (highest class for sound insulation)
Sound absorption (lab tested)	Effective sound absorption: 8 dB Level reduction due to absorption: DL α = 8dB(a) measured according to NEN-EN-ISO-717-1 in category A3 and according to NEN1793-1 in category A3	Very effective sound absorption: 11 dB Level reduction due to absorption DL α = 11dB(a) measured according to NEN-EN-ISO-717-1 (category A3) and according to NEN1793-1 (category A3)
Maximum building height	3 metres	up to 6 metres
Extra option	Noise reducer door	Noise reducer door
Extremely long life expectancy	> 25 years	> 25 years
Maintenance	Completely maintenance-free (excluding foliage)	Completely maintenance-free (excluding foliage)
Usage	Very suitable to limit noise from road traffic, leisure activities, ventilation systems, heat exchangers or generators installed in private residences or commercial buildings	Ideal for exposed locations close to busy roads, highways, sport fields, production facilities or industrial sites
Colour	Available in more RAL colours at an additional price	Available in more RAL colours at an additional
Tested to windzone	2	2



Installation

The Noise reducer is easy to install because of its pre-fabricated building elements. Depending on their type and dimensions, the panels are mounted between I or H-form galvanized posts (type IPE or HPE). The panel frames are then attached seamlessly with self-tapping screws to the pre-bored posts.

Foliage and maintenance

To enhance the visual impact of the wall, it is possible to add foliage to the noise insulating wall. The roots of many types of climbing plants can attach themselves very successfully to the Noise reducer. This means the panel is quickly covered in foliage. If no foliage is added, the noise reducing walls are completely maintenance free.

Durable and environment-friendly

Because durable materials are used, the core of the Noise reducer is completely recyclable. This also contributes to an extremely long system life expectancy: more than 25 years. If the Noise reducer is covered with plants, they effectively filter dust particles and the CO2 level in the air, contributing to a better air quality.



