

**PLAKA - REAPOR**

Sound absorbing wall and ceiling tiles

REF 12.12.01 - Version V01 - 25/08/2020



**Description**



REAPOR is a series of sound absorbing wall and ceiling tiles. The tiles are made from 100 % expanded glass granulate. Beside excellent sound absorption, they are extremely durable, light weight and can be painted in any RAL color. The material is non-flammable (fire class A1) and absolutely weatherproof due to its unique composition so that the tiles can be used both indoors and outdoors. REAPOR is fiber-free.

REAPOR tiles are easy to cut, drilling and cleaning. The tiles can be subsequently treated by third parties with anti-graffiti coatings and are resistant to high-pressure cleaning.

**Application fields**

REAPOR is used in both renovation and new buildings :

- Offices
- Schools
- Stairwells
- Car parks
- Studios
- Public spaces
- Shooting ranges
- Swimming pools

**Properties**

REAPOR V

The tiles can be glued directly to the wall or ceiling. Without cavity, these tiles provide a very good sound absorption. These tiles are available with a straight or beveled edge.

In order to obtain a seamless surface REAPOR V elements with a straight wall can be employed after which the tiles are provided with a thin layer of acoustic stucco.

REAPOR E

The REAPOR E tiles are suitable for use in standard (24mm) ceiling systems The tiles have slightly beveled edges.

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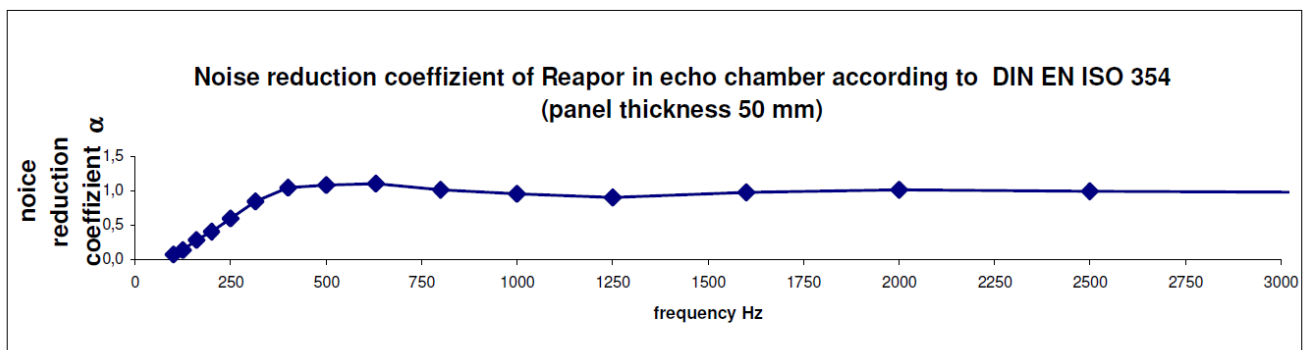


Mechanical properties	
Material	100% expanded glass granulate without binders.
Color	Grey
Density	270 kg/m <sup>3</sup> ± 10% according to EN ISO 845
Compressive strength	1,2 N/mm <sup>2</sup> ± 10% according to DIN EN 196-1
Flexural strength	0,5 N/mm <sup>2</sup> ± 10% according to DIN EN 196-1
Elastic modulus (dynamic)	760 ± 80 N/mm <sup>2</sup> according to DIN 1048-5, DafStb issue 422
Fire resistance	A1 according to DIN EN 13501-1
Weight at 50 mm	± 13,5 kg/m <sup>2</sup>
Dimensions REAPOR V	625 x 625 x 50 mm 1250 x 625 x 50 mm
Dimensions REAPOR E	618 x 618 x 25 mm
Tolerances on the dimensions	Length and width : +/- 0,5mm Thickness : +/- 0,3mm

ABSORPTION COEFFICIENTS

Sound absorption  $\alpha_s$ , according to DIN EN ISO 11654.

Type	Frequency					
	125	250	500	1000	2000	4000
REAPOR V						
50mm - grey	0,17	0,62	1,08	0,96	1,00	1,01
50 mm – painted in color	0,18	0,63	1,10	0,94	0,97	1,00
50 mm – with acoustic plaster	0,26	0,75	0,86	0,62	0,66	0,57
REAPOR E						
300 mm open plenum	0,45	0,55	0,60	0,75	0,80	0,85
300 mm closed plenum	0,15	0,45	0,60	0,80	1,00	1,00



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**Application instructions**

REAPOR V

The surface on to which the REAPOR elements are glued, must be free of coarse dirt, unevenness and loose stucco. To obtain an optimal surface, smooth the surface if necessary (allowable roughness < 5mm) and pretreated with REAPOR pt 17. For gluing the elements use REAPOR pa81 over the entire surface. Spread with a glue pallet 8x 8 mm.

Apply the elements within the open time of the adhesive (maximum 30 minutes) by pushing the tiles well ( not hit).

REAPOR E

The tiles REAPOR can easily be placed in the grid of a standard (24mm) ceiling system. When processing REAPOR elements we advise to wear cotton gloves to prevent pollution.