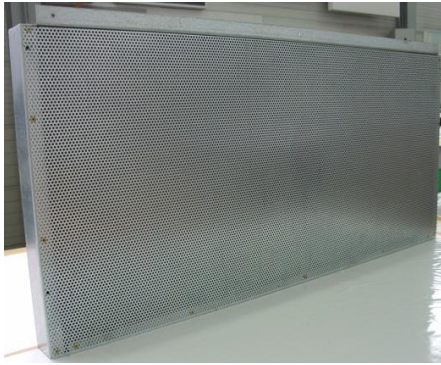


SOUND INSULATION SONODAMP INDUSTRIAL PANELS



Type	Weight	Thickness
Panel 55	21 kg/m ²	Approx 55 mm
Panel O55	26 kg/m ²	Approx 55 mm
Panel 105	22 kg/m ²	Approx 105 mm
Panel O105	27 kg/m ²	Approx 105 mm
Panel OI105	39 kg/m ²	Approx 105 mm

Product description Sonodamp Industrial panels are cassette panels for the purpose of shielding sound sources. The sound-absorbing and sound-insulating panel is constructed of a 1.5-mm single-sheet thermal galvanised steel plate; this plate is mounted and the element is filled with a special sound-absorbing glass wool with a compression of 20 kg/m³. This absorption material produces a high absorption coefficient over a wide frequency range. The layer of glass wool is covered with an acoustic transparent cover fleece layer; if the glass wool can come into contact with water, oil or chemicals, an acoustic transparent PE foil is applied. For protection, a 1.0-mm single-sheet galvanised perforated steel plate is applied to the side of the cover fleece layer. The degree of perforation is 33%, which guarantees the optimal functioning of the absorption material. The total element thickness is 55 or 105 mm respectively; the mass is 21 or 22 kg/m² respectively. The panel and filling are germ-free and anti-rot and are not combustible in accordance with NEN 6065, class 1.

Properties

- Sound waves that fall on this panel are largely absorbed; this results in only a minor sound increase on the side of the source.
- The insulating panels are used for indoor installation; they are also available in a version suitable for outdoor installation.
- Easy to connect to each other by means of flanges.
- Panels are available in stainless steel, aluminum and in colors.

Application Enclosing cabinets, sound-insulating walls, cabin construction and mechanical engineering to:

- shield off people from the sound source
- shield off sound sources in order to meet legal requirements (e.g. on the site boundary)
- mount in a frame or connect as a single wall.

Dimensions Standard panels of:
2000 x 1000 mm
2500 x 1000 mm
3000 x 1000 mm
Tailor-made panels available.

ABSORPTION VALUE

(measured directly on the surface)

Hz	125	250	500	1000	2000	4000
α (50 mm)	0.30	0.64	0.98	0.95	0.88	0.91
α (100 mm)	0.78	1.00	1.00	1.00	0.98	0.98

α = absorption coefficient

INSULATION VALUE

(without loss factors)

Hz	63	125	250	500	1000	2000	4000	8000
CLD-55	11	19	24	28	32	33	34	34
CLD-O55	15	22	27	31	34	34	34	34
CLD-105	14	22	27	30	32	33	34	34
CLD-O105	18	25	30	33	34	34	34	34
CLD-OI105	25	30	35	39	44	47	50	51