

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.

DISCLAIMER
De omschreven toepassingen en aanbevelingen zijn zo correct mogelijk weergegeven maar zijn vrijblijvend en bieden geen garanties. Bij twijfel over toepassing of verwerking zelf een test uitvoeren of contact met ons opnemen. We behouden ons het recht om zonder kennisgeving vooraf, productgegevens te wijzigen.

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