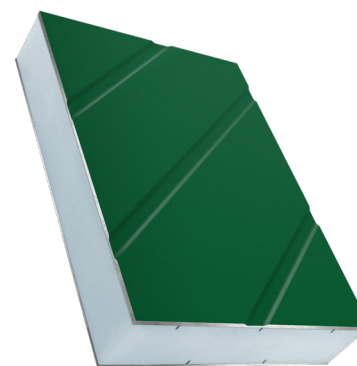


SANDWICHELEMENT

FB-4/DN Aluminium grooved

Product Information

FB-4/DN Aluminium grooved



Description:

Aluminium grooved sandwich elements consist of an extruded polystyrene core and a 1.5 mm aluminium panel painted on one face with milled softline grooving. The reverse side consists of a smooth 1.5 mm aluminium panel. Elements grooved on both faces can be supplied on request. The composite element is covered with a protective foil on both sides.

Properties:

- very good thermal insulation
- UV-endurance
- high intrusion security
- high impact resistance
- easy to process with the usual metal working tools
- groove width: 10 mm

Facings:

Front: 1.5 mm aluminium panels which have an approx. 1.0 mm deep Softline-grooving (groove types: see Product Information Grooving Geometry). Reverse side: 1.5 mm aluminium panels, smooth or milled. Standard colours: white similar to RAL 9010/RAL 9016. Powder or liquid coating available. Further thicknesses, colours or versions available on request.

Core Material:

Extruded polystyrene foam, CFC-free or CO₂ foamed, low vapour permeability, lowest water absorbance, Fire protection class E according to EN 13501-1. The foam core is corrugated for optimum adhesion. No dust release during processing. Core material of different thermal conductivity λ D-value 0.029 – 0.035 is available.

Formats:

2000 x 1000 mm / 2500 x 1250 mm – Other formats and fixed formats are available on request.

Overall Thickness	Facings	U-Value (λ D 0.029)	U-Value (λ D 0.033)	R-Value (λ D 0.029)	R-Value (λ D 0.033)	Weight (kg/m ²)
24 mm	1.5 mm	1.12	1.19	0.72	0.67	9.25
28 mm	1.5 mm	0.97	1.04	0.86	0.79	9.34
32 mm	1.5 mm	0.86	0.93	1	0.91	9.48
36 mm	1.5 mm	0.77	0.86	1.14	1	9.61
40 mm	1.5 mm	0.69	0.77	1.28	1.12	9.74
44 mm	1.5 mm	0.63	0.71	1.41	1.24	9.86
48 mm	1.5 mm	0.58	0.65	1.55	1.36	9.99

Special Elements:

Aluminium grooved sandwich elements can be supplied with optimised sound insulation values by incorporating special sound insulation panels or with intrusion-inhibiting aluminium inserts. Other core materials (e.g. polyurethane foam) are available on request. In our own milling centre we are able to offer individual groove patterns and various groove geometries according to your needs and wishes.

Areas of Application:

Window panels, parapet elements, partition walls, door panels, balcony cladding, facade elements, folding blinds

Note:

When solvent-based substances are employed, polyurethane foam must be used as the core. For further information please refer to our brochure: Processing Instructions

The product colours and surfaces shown in this brochure are subject to printing variations. Should you require exact colour and surface characteristics we recommend that you ask for a sample. Technical changes reserved. All business transactions are subject to our general terms and conditions which can be viewed at www.stadur.com.