



SANDWICHELEMENT

FB-3/DN Decorative Foil grooved

Product Information

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Description:

Decorative foil grooved sandwich elements consist of an extruded polystyrene core (alternatively a polyurethane foam core can be provided on request) and, on one face, a foil-laminated top layer (Renolit, Cova, Hornschuch) of laminate or aluminium with softline grooving. The reverse side consists of a foil-laminated, smooth top layer of laminate or aluminium. Elements grooved on both sides can be supplied on request. The composite element is covered with a protective foil on both sides.

Facings:

Front: HPL 2.0 mm; aluminium 1.5 mm laminated with decorative foil which has an approx. 1.0 mm deep Softline-grooving (groove types: see Product Information Grooving Geometry). Back: HPL 2.0 mm; aluminium 1.5 mm laminated with decorative foil, smooth. Alternatively the reverse side is available in white for both materials. For decorative foils available please refer to the current price list.

Properties:

- very good thermal insulation
- UV-endurance (see manufacturer's guarantee for decorative foils)
- high intrusion security (aluminium facing)
- high impact resistance
- easy to work with the usual wood and metal working tools
- groove width: 10 mm

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:

Schichtstoff: 2150 x 950 mm / Aluminium: 2000 x 1000 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	2.0 mm HPL	1.15	1.27	0.7	0.62	6.57
28 mm	2.0 mm HPL	0.99	1.1	0.84	0.74	6.69
32 mm	2.0 mm HPL	0.87	0.97	0.98	0.86	6.82
24 mm	1.5 mm ALU	1.12	1.24	0.72	0.64	9.25
28 mm	1.5 mm ALU	0.97	1.08	0.86	0.74	9.34
32 mm	1.5 mm ALU	0.86	0.95	1	0.86	9.48

Special Elements:

Decorative foil 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.

Areas of Application:

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

Note:

For large areas (> 800 x 800 mm) aluminium panels should be used for the facing layers. Due to the dark colour of some of the surfaces warping can otherwise occur in outdoor applications. Latest tests have shown that foil-coated laminated boards can warp shortly after production and/or during normal storage on pallets, irrespective of the core material employed. In order to regain a level plane, the warped boards are stacked upside-down on a level surface and subjected to "normal" room temperature (20°C - 25°C) with an average ambient moisture level. In order to avoid any absorption of water at the cutting edges it is recommended to mask the open edges with aluminium foil. When solvent-based substances are used polyurethane foam must be employed as the core. For further information please refer to our brochure: Processing Instructions.

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