



SANDWICHELEMENT

FB-4 Aluminium

STADUR
MADE IN GERMANY

Product Information

FB-4 Aluminium



Description:

Aluminium sandwich elements consist of an extruded polystyrene core and, on both sides, top layers of 0.8 mm, 1.0 mm, 1.5 mm or 2.0 mm thick aluminium. The composite element is covered with a protective foil on both sides (FB-4/Blank with foil is available only at extra charge; without foil surface scratches must be expected).

Properties:

- very good heat insulation
- high intrusion security
- UV-endurance
- extremely high stability
- good sound insulation values
- easy to process with the usual metal working tools

Facings:

0.8 mm, 1.0 mm, 1.5 mm or 2.0 mm aluminium panels in white, blank, anodised or painted in all RAL and NCS colours. Further thicknesses available on request. Liquid or powder coating available

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:

3000 x 1500 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)
20 mm	0.8 mm	1.27	1.4	0.62	0.55	4.91
24 mm	0.8 mm	1.08	1.2	0.76	0.67	5.04
28 mm	0.8 mm	0.94	1.04	0.9	0.79	5.18
32 mm	0.8 mm	0.83	0.93	1.03	0.91	5.31
36 mm	0.8 mm	0.75	0.83	1.17	1.03	5.44
40 mm	0.8 mm	0.71	0.79	1.24	1.09	5.57
44 mm	0.8 mm	0.62	0.69	1.45	1.27	5.71

Special Elements:

Aluminium 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, partition walls, exhibition construction, door panels, container construction, balcony cladding, boat and yacht building, facade elements, refrigeration rooms, advertising signs

Note:

FB-4 elements can be supplied faced on one side with painted aluminium and on the reverse side with a white Stadurlon or PVC board under the designation FB-4/SL and FB-4/PVC respectively. Due to the asymmetrical construction warping of the element can occur. With FB-4/Blank elements surface scratches must be expected due to the lack of protective foil. When using solvent-based substances, polyurethane foam must be employed as the core. For further information please refer to our brochure: Processing Instructions

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