



# SANDWICHELEMENT

**FB-4/DN** Aluminium grooved

# Product Information

## FB-4/DN Aluminium grooved

10  
YEARS

### 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. 10 years Stadur guarantee

### Properties:

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

### Facings:

Front: 1.5 mm aluminium panels which have an approx. 1.1 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 CO<sub>2</sub> foamed, low vapour permeability, lowest water absorbance, B1 in accordance with DIN 4102. The foam core is corrugated for optimum adhesion. No dust release during processing. Core material of different thermal conductivity  $\lambda_D$ -value 0.029 - 0.035 is available.

### Overall Thickness:

24 mm - Further thicknesses (thicker / thinner) of the facing layers or the foam core available on request.

### Formats:

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

Technical Data:	Overall Thickness	Facings	U-Value ( $\lambda_D$ 0.029)	U-Value ( $\lambda_D$ 0.035)
	24	1.5 mm	1.12	1.29

### 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. Edge jointing inserts of wood, plastic or aluminium and edge finishing of the foam core as a stepped rebate or tongue and groove are possible. Other core materials, e.g. polyurethane foam, mineral wool or honeycomb construction materials 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  
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