

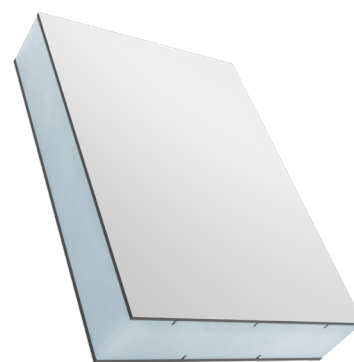
# SANDWICHELEMENT

**FB-2** Laminate

**STADUR**  
MADE IN GERMANY

# Product Information

## FB-2 Laminate



### Description:

Laminate sandwich elements consist of an extruded polystyrene core and, on both faces, 2.0 mm top layers of laminate (Melamine/HPL)

### Properties:

- very good thermal insulation and sound insulation values
- UV-endurance
- easy to process with usual wood and metal working tools
- paintable
- high impact and scratch resistance

### Facings:

Standard version: Laminated facings on both sides 2.0 mm white, silk-matt. Special version: Laminated facings on both sides 2.0 mm white (FH 85) and dark brown (FH 648 - no guarantee for colour fastness in outdoor applications). Further colours are available according to sample / colour cards. Laminated facings in B1 (DIN 4102 flame resistant) can be delivered on request.

### Core Material:

Extruded polystyrene foam, CFC-free or CO<sub>2</sub> 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  $\lambda$ D-value 0.029 - 0.035 is available.

### Formats:

2200 x 1000 mm / 2800 x 1300 mm / 3050 x 1300 mm / 4200 x 1610 mm.

Other formats and fixed formats are available on request.

Overall Thickness	Facings	U-Value ( $\lambda$ D 0.029)	U-Value( $\lambda$ D 0.033)	R-Value ( $\lambda$ D 0.029)	R-Value ( $\lambda$ D 0.033)	Weight (kg/m <sup>2</sup> )
24 mm	2.0 mm	1.15	1.27	0.7	0.62	6.38
28 mm	2.0 mm	0.99	1.1	0.84	0.74	6.5
32 mm	2.0 mm	0.87	0.97	0.98	0.86	6.63
36 mm	2.0 mm	0.78	0.87	1.12	0.98	6.77
40 mm	2.0 mm	0.7	0.79	1.25	1.1	6.9
44 mm	2.0 mm	0.64	0.72	1.39	1.23	7.02
48 mm	2.0 mm	0.59	0.66	1.53	1.35	7.14

### Special Elements:

Laminate 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, exhibition construction, door panels, partition walls, facade elements, balcony cladding

### Note:

In order to avoid any absorption of water at the cutting edges it is recommended to mask the open edges with aluminium foil. Tests have shown that, especially with painted laminated boards with a dark surface, under certain climatic conditions (very high or very low air humidity values and/or great thermal stresses) warping can occur. Due to this following construction and in the event of prolonged disuse of a building appropriate ventilation and normal ambient humidity within the rooms must be ensured. Non-compliance will result in any guarantee being void. Please contact our applications technologists early in the planning stage. When solvent-based substances are used PUR foam must be employed as the core layer. For further information please refer to our brochure: Processing Instructions

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