



# SANDWICHELEMENT

**FB-3/SL** Decorative Foil

# Product Information

## FB-3/SL Decorative Foil



### Description:

Stadurlon decorative foil sandwich elements consist of an extruded polystyrene core (alternatively a polyurethane foam core can be used on request ) and, on both faces, foil-laminated top layers (Renolit, Cova, Hornschuch) of Stadurlon. The reverse side can, alternatively, be supplied in white Stadurlon. The composite element is covered with a protective foil on both sides.

### Properties:

- very good thermal insulation
- UV-endurance (see manufacturer's guarantee for decorative foils)
- high impact resistance even in low temperatures
- easy to process with the usual wood and metal working tools

### Facings:

Stadurlon sheets 1.5 mm that are coated with a decorative foil on both sides. Alternatively the reverse side is also available with white 1.5 mm Stadurlon sheets. For decorative foils available please refer to the current price list.

### 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:

2150 x 950 mm / 3050 x 1300 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	1.5 mm	1.11	1.23	0.73	0.64	4.33
28 mm	1.5 mm	0.96	1.07	0.87	0.76	4.46
32 mm	1.5 mm	0.85	0.95	1.01	0.88	4.6
36 mm	1.5 mm	0.76	0.85	1.14	1.01	4.72
40 mm	1.5 mm	0.69	0.77	1.28	1.13	4.85
44 mm	1.5 mm	0.63	0.71	1.42	1.25	4.98
48 mm	1.5 mm	0.58	0.65	1.56	1.37	5.11

### Special Elements:

Stadurlon decorative foil 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. Maximum surface temperatures of +85°C were measured during tests, also using dark decor surfaces. Therefore outdoor use of FB-3/SL in direct sunlight is also permissible. The longitudinal expansion (of approx. 0.8 mm at a temperature difference of 10°C) can already be minimised in advance in accordance with the maximum anticipated surface temperature.

Example: The longitudinal expansion is limited to 4.8 mm/running metre due to processing (e.g. cutting to size) at a room temperature of 20°C and a maximum anticipated temperature of 80°C. Stadurlon absorbs practically no moisture; therefore the cutting edge need not be taped off as opposed to HPL carrier panels. 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](http://www.stadur.com).