



# SANDWICHELEMENT

**FB-GFK** Glass-fibre Reinforced Plastic

**STADUR**  
MADE IN GERMANY

# Product Information

## FB-GFK Glass-fibre Reinforced Plastic



### Description:

Glass-fibre reinforced plastic (GRP) sandwich elements consist of a polyurethane foam core and, on both faces, top layers of GRP. Alternatively extruded polystyrene can be used as a core material. The composite element is covered with a protective foil on both sides. 10 years Stadur guarantee

### Properties:

- very good thermal insulation
- UV-endurance and UV-properties according to manufacturer's instructions
- easy to process with the usual wood and metal working tools
- light damage is easy to repair
- paintable (see Processing Instructions)

### Facings:

GRP facing panels 1.3 mm, 1.5 mm and 1.8 mm with gel coat, white similar to RAL 9010 with protective foil coating. Further thicknesses and colours available on request.

### Core Material:

Polyurethane foam, CFC-free, B2/B3 according to DIN 4102. Volume weight 50 kg/m<sup>3</sup>. Further volume weights and/or extruded polystyrene foam available on request.

### Overall Thickness:

The total thickness depends on requirements and can be freely selected in millimetre increments from 15 mm up to 80 mm (further on request). The total thickness tolerance is the sum of the individual tolerances of all materials used.

### Formats:

Any format up to 14000 x 3200 mm can be manufactured. Tolerances in length and width are dependant on the length up to 3000 mm +/- 2 mm, up to 5000 mm +/- 4 mm, up to 8000 mm +/- 6 mm, up to 14000 mm +/- 10 mm

### Technical Data:

The U-values are dependant on the material thicknesses.

### Special Elements:

Stadur FB-GFK composite 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.

### Areas of Application:

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

### Note:

Always wear a protective mask when sawing or performing other work which produces chips. Do not use solvent-based paints and cover up/tape over open edges. Also refer to and observe the instructions of the facing panel manufacturer. With darker and brilliant colours the uneven surface of GRP and any inserts or reinforcements incorporated, tend to become much more visible. For further information please refer to our brochure: Processing Instructions

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