



Product Information: SkinTec • ThermoTec • PanTec

SkinTec products are novel laminate materials made of fiber-reinforced plastics. The product portfolio comprises material combinations from continuous filament glass-fiber reinforcement with optimized thermoset or thermoplastic resins. **SkinTec** products are extremely lightweight, stiff and impact resistant materials.

ThermoTec products are thermally insulating sandwich panels consisting of a core made of polyurethane foam or other insulating materials and fiber-reinforced plastic or metallic skins bonded to the core in a continuous process.

PanTec products are very lightweight sandwich panels consisting of a core made of a polypropylene honeycomb or other structural core materials and a fiber-reinforced plastic skin, wood materials or other structural skin materials that are bonded to the core in a continuous process.

Multiple areas of use

Owing to their excellent properties, the **SkinTec**, **ThermoTec** and **PanTec** products developed by IQ Tec Germany GmbH can replace conventional composite solutions in a very diverse range of applications:

- Truck and trailer industry (bodies, walls, floor panels, cladding)
- Machine building industry
- Construction industry
- Trade fair construction
- Furniture industry

Convincing benefits

In addition to achieving a significant weight reduction through the use of optimized fiber reinforcements **SkinTec**, **ThermoTec** and **PanTec** products can be produced in thicknesses of up to 200 mm, widths of up to 3000 mm and customized lengths. Other product benefits include:

- Weight reduction of up to 50% compared with conventional composites, maintaining the mechanical properties
- Easy integration of special structural components (reinforcements, struts, sections, door elements)
- High strength and stiffness
- Long life
- High impact resistance
- Excellent environmental compatibility



Customized design for every challenge

Skins

- Fiber-reinforced thermoset materials
- Fiber-reinforced thermoplastic materials
- Metallic surfaces
- Solid wood

Core materials

- Polyurethane (PU) foam
- Polyester (PET) foam
- Polystyrene (XPS, EPS) foam
- Balsa wood
- Polypropylene honeycomb
- Paper honeycomb

Dimensions

The **total thickness** of the composite panels, which can range from 6 mm to 200 mm, depends on the application. Panel thickness tolerance is determined by the nature and thickness of the core materials. A standard tolerance for thicknesses less than 80 mm is ± 0.5 mm.

For products with plastic skins, **panel dimensions** can be up to 3000 mm in width and customized lengths. Products with metal skins come at a standard width of 1200 mm (but special dimensions of up to 2550 mm are possible). The length and width tolerance depends on the overall panel size. For an edge length of up to 3000 mm, it would be e.g. ± 2 mm.

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Legal note:

Our product descriptions only provide general information on the nature of our products and do not constitute any warranty within the meaning of Section 443 of the German Civil Code. Given the diverse range of possible applications and the special conditions in each case, our customers will need to conduct their own trials. Even where we provide application support, our customers bear the risks associated with the specification, the design, the approval and quality control of their applications. We reserve the right to modify our products as part of our ongoing technical improvements and further development work.