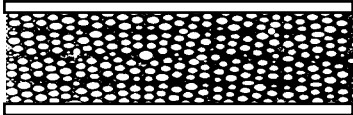


## CORAPAN® FOREX Composite Panel



CORAPAN®FOREX is a composite panel consisting of two FOREX®classic facing sheets and a homogeneous closed cell core material of expanded polystyrene beads embedded in a bonding material.

### Applications

Construction of exhibition stands  
Displays, Point-Of-Sale advertising  
Signs  
Photo lamination  
Hoardings  
Interior architecture  
Theatre and TV studio scenery  
Partition walls  
Machine enclosures  
Insulating elements  
Clean room and wet room construction  
General lightweight construction

### Advantages

Super lightweight (4.45, 5.00 and 6.80 kg/m<sup>2</sup>)  
Inserts and conduits can be embedded  
Distortion free due to high inherent rigidity  
High compressive strength  
Firm and clean cutting edges  
Flame resistant facing sheets  
Weatherproof outer sheets, insensitive to humidity  
Good thermal insulation

### Processing

CORAPAN® FOREX can be machined in many different ways using standard machines and equipment:

It is suited for the following operations:

- Sawing, drilling, and milling
- Formation of edges/corners (V grooves)
- Edge banding
- Gluing, tacking, screwing
- Can be easily painted and printed
- Can be easily coated and decorated with foil

Properties and typical characteristics of CORAPAN® FOREX			19 mm	24 mm
Panel weight		kg/m <sup>2</sup>	4.45	5.00
Nominal density of core material	DIN 53 479	kg/m <sup>3</sup>	110	
Nominal density of the outer sheets	DIN 53 479	kg/m <sup>3</sup>	700	
Compressive strength	DIN 53 454	MPa (N/mm <sup>2</sup> )	0.45	
Water absorption 23°C / 24 h (outer sheets)	DIN 53 495	%	< 2	
Working temperature		°C	5 - 60	
K-value (warm → cold) (still air)	DIN 4108	W/m <sup>2</sup> K	1.60	1.36
K-value (warm → cold) (air in motion)	DIN 4108	W/m <sup>2</sup> K	1.84	1.53

The values in this table are standard values for the nominal density, which can vary depending on the thickness of the panel and the process specific anisotropy of the material.

Specifications		
Facing sheets		FOREX®classic - white
Standard sizes (facing sheets 2 mm)		19 x 1220 x 2980 mm (4.45 kg/m <sup>2</sup> ) 24 x 1220 x 2980 mm (5.00 kg/m <sup>2</sup> ) 40 x 1220 x 2980 mm (6.80 kg/m <sup>2</sup> )
Other thicknesses and sizes upon request (facing sheets 3 mm)	thickness width length	min. 16 mm max. 100 mm max. 2030 mm max. 5980 mm
Tolerances	thicknesses widths and lengths	+ 0 / -1.0 mm - 0 / + 5,0 mm (> 5000 mm on request)

Important notes	
Thickness of facing sheets	CORAPAN® FOREX standard panels (thicknesses 19, 24 and 40mm) have facing sheets of 2 mm thick FOREX®classic. All other thicknesses with facing sheets of 3 mm thick FOREX®classic.

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