



POLYVAN®-31

the sound absorbing sandwich-panel

Product description

POLYVAN®-31 is a sound absorbing sandwich panel with an outstanding thermal insulation as well as being of low weight and having a good environmental sustainability.

Composition

Sandwich build cork layer with birch plywood on each side. The thickness and the wood type of the plywood panel as well as the thickness and the type of the cork layer can be altered.

Quality

This plywood fulfils the quality according to EN 314-2: Utilisation class 3 (exterior), the union of the plywood and its cork layer is achieved with waterproof glue. The surfaces are sanded and the edges are trimmed.

Processing

The manufacture and processing can be done on normal wood processing machines with a suitable ventilation and suction.

Areas of application / References

As a universal construction plywood for wall, ceiling and floors.

Stock and transport regulations

Our extended information is applicable, which you can find in a separate document called „Regulations for storage and internal transports“.

Remarks

Before the use of this product the specific properties of the project and conditions of application are to be checked by the client itself. The test values listed here are determined by fixed specifications and are to be understood as a guideline, but not as an assurance. The customer is fully responsible for the suitability and the properties of our product under the conditions of usage chosen by the customer.

Technical data

Material	Plywood / Special Cork / Plywood		
Thickness [mm]	11 / 16 / 21		
Thickness tolerance, max. [mm]	+/- 1.0		
Standard length [mm]	2480 / 2980		
Standard width [mm]	1230 / 1480		
Surface quality	BB/BB (sanded)		
Acoustical insulation value $R_{w,Air}$ [dB] on 16 mm	31		
Thermal conductivity λ [W/mK]	approx. 0,161		
Density [kg/m ³] on 16 mm	approx. 620		
Surface weight [kg/m ²] on 16 mm	approx. 10,3		
Gluing EN 314-2	Class 3 (exterior) (valid for the plywood)		
Characteristic flexural modulus [N/mm ²] based on DIN 53293		long.	cross
	16 mm	3500	2500
	21 mm	3500	4000
Characteristic maximum bending stress [N/mm ²] based on DIN 53293		long.	cross
	16 mm	31	21
	21 mm	32	25
Screw pull test [N] based on DIN EN ISO 320	16 mm	1400	
	21 mm	2500	
Approval - Deutsche Bahn	Material performance sheet No. 610101		
Fire class DIN 5510-2 EN45545-2	S3, ST2, SR2, FED < 1 With some projects acc. to R10 tested with floor covering: HL2		