



BaryVam®

the sound absorbing wagon floor panel

Product description

BaryVam® is a sound-absorbing sandwich panel with excellent sound absorbing and thermal insulation properties consisting of birch plywood panels as top layers and a thermoplastic heavy core layer.

Composition

The outer layers of the sandwich panel are made of birch plywood, and the core consists of a heavy layer mat. Both the thickness of the plywood and the type of wood used for the outer layers can vary. The core consisting of the heavy layer mat can also vary in thickness.

Quality

The plywood is laminated according to EN314-2 Class 3 (exterior). The bonding of the plywood and heavy layer mat is waterproof.

Processing

The manufacturing and processing can be performed on common wood processing machines with a suitable ventilation and suction system.

Areas of application / References

BaryVam® is versatile and can be used as a construction material for walls, ceilings, and floors.

Stock and transport regulations

More detailed information can be found in a separated document entitled „Regulations for storage and internal transports“.

Remarks

The specific properties of the project and conditions of application have to be personally checked by the client before using this product. The material parameters listed here are determined by standard specifications and are to be understood as a guideline, but not as guaranteed values. The customer is fully responsible for the suitability and the properties of our product under the specific conditions of implementation chosen by the customer.

technical data

material

top layers	plywood
core	heavy layer

dimensions

thickness [mm]	11/16/21.5
thickness tolerance, max. [mm]	+/- 1.0
length, max. [mm]	2480 / 2980 / 3000
width, max. [mm]	1230 / 1480 / 1500

material properties

characteristic flexural modulus [N/mm ²] <i>DIN 53293</i>	<u>thickness</u>	<u>long.</u>	<u>trans.</u>
	16 mm	7,500	6,500
	21 mm	9,500	5,500
characteristic bending stress [N/mm ²] <i>DIN 53293</i>	<u>thickness</u>	<u>long.</u>	<u>trans.</u>
	16 mm	37	25
	21 mm	52	28
screw pull-out strength [N] <i>DIN EN 320</i>	16 mm	2,000	
	21 mm	2,500	
sound reduction index $R_{w,air}$ [dB] <i>for 16 mm, DIN 52210</i>	33		
thermal conductivity λ [W/mk] <i>for 16 mm</i>	approx. 0.15		
density [kg/m ³]	approx. 1000		
surface weight [kg/m ²] <i>for 16 mm</i>	approx. 16		

further information

surface quality	BB/BB (sanded)
bonding of the plywood <i>EN 314-2</i>	Class 3 (exterior)
approval of Deutsche Bahn	Material Performance Sheet No. 610101
fire protection class <i>DIN 5510-2</i> <i>EN45545-2</i>	S3, ST2, SR2, FED < 1 project related with floor covering for R10: HL2/HL3 (depending on type of floor covering)