
Reinforced HPL Sandwich Panel with Foamed PVC Insert

Composition: HPL - XPS - Foamed PVC - XPS - HPL

Sandwich panels with a foamed PVC insert are a modern solution that enhances structural rigidity, used among others as window extensions. Thanks to the additional layer of foamed PVC, these panels offer high insulation performance, light weight, and ease of processing.



Sizes:

3050x1300 mm

Top layer - HPL:

high-pressure, heat-hardening, composite HPL laminate, thickness 2 mm, compliant with EN 438, white or covered with decorative foil, density: ≥ 1350 [kg/m³] (ISO 1183), fire class: Ds2d0 (EN 13501-1), non-corrosive and non-oxidative material.

Inner layer - XPS:

closed-cell structure extruded polystyrene (XPS) with grooves, without HBCD, density: ≥ 33 [kg/m³] (EN 1602), thermal conductivity (λ): 0,034 [W/mK] (EN 13164), water absorption: < 1% (EN 12087), fire class: E (EN 13501-1).

Reinforced Insert - Foamed PVC:

low-density PVC board, white, thickness: 8 or 10 mm, density: 500 [kg/m³] (ISO 1183), thermal conductivity (λ): 0,08 [W/mK] (DIN 52612), water absorption: < 1% (DIN 53945), fire class: Cs3d0 (EN 13501-1)*.

** Test was performed on PVC of thickness 3 mm & 10 mm.*

Technical specification:

Thickness ¹	[mm]	24	36	40	44	48	36	40	44	48	
Foamed PVC thickness	[mm]	8					10				
U value ²	[W/m ² K]	1,57	1,01	0,9	0,82	0,75	1,05	0,93	0,84	0,76	
Weight ²	[kg/m ²]	10,9	11,3	11,4	11,6	11,7	12,2	12,4	12,5	12,6	

¹ Tolerance: ± 1,0 mm;

² Value determined by calculation method, based on average physico-mechanical properties of sandwich panel elements



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