

HPL FlexStab sandwich panel

Composition: HPL - FS - XPS - HPL

HPL sandwich panel is a lightweight and durable sandwich panel that combines the high durability of HPL laminate with the excellent insulating properties of an XPS core. Additionally, the panel construction has been enhanced with an integrated compensating insert, placed between the HPL and the XPS core, which serves as a stabilizing element, reducing stresses resulting from changing weather conditions, such as temperature and humidity differences. This improves the dimensional stability and flatness of the board over a long period of use.



Sizes:

2150x900 mm / possible cut to size

Top layer – HPL:

high-pressure, heat-hardening, composite HPL laminate, thickness: **2 mm**
according to **EN 438** standard
surface: raw or covered by decorative foil (*RENOLIT, CONTINENTAL, LX Hausys*),
density: ≥ 1350 [kg/m³] (**ISO 1183**),
fire rating: 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 rating: **E** (**EN 13501-1**).

Inner layer – FS:

foam material with a stabilizing function, thickness: **3 mm**
density: **60 kg/m³**
Very good resistance to water, weather conditions, acids and alkalis



Technical specification:

Thickness ¹	[mm]	24	36	40	44	48
U Value ²	[W/m ² K]	1,31	0,90	0,81	0,74	0,68
Weight ²	[kg/m ²]	7,6	8,0	8,1	8,2	8,4

¹ Tolerance: +1,0/-0,5 mm;

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

Other sizes and thicknesses available on request. Other data regarding the product are available in the LB THERM Panel Using Sheet and in the General Terms and Conditions of Sales. Because of variety usage of our products, the company is not liable for physico-chemical parameters and properties in conditions different than standard, as well as interference in their original structure (painting, lacquering, coating by other materials etc.). This TDS is based on information that is believed to be reliable, but may be subject to change as new information become available. Modification and copying the contents of this document unless specifically authorized by LB THERM Sp. z o.o. are strictly prohibited.