

LB THERM
VALUE INSIDE



New

**HPL FLEXSTAB
SANDWICH
PANEL**

HPL FLEXSTAB SANDWICH PANEL

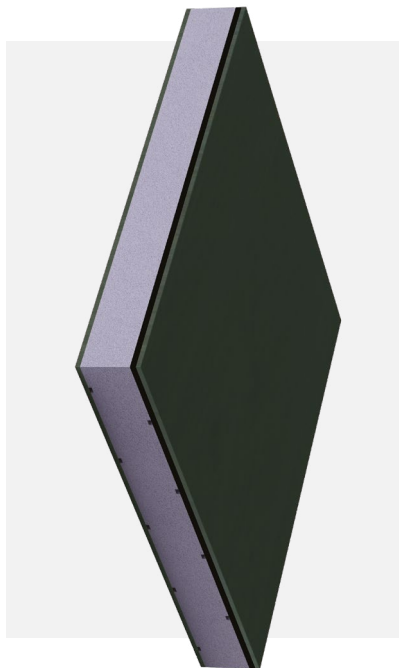
Composition: HPL - FS - XPS - HPL

SANDWICH PANEL

The new HPL FLEXSTAB sandwich panel has been developed in response to real-life performance challenges faced by modern door and partition systems. Its design is based on the principle of symmetry, which forms the foundation of structural stability, while the additional FS layer enhances operational safety and long-term durability.

Formats:

2150 × 900 mm / custom cutting available



HPL FLEXSTAB sandwich panel is a lightweight yet robust sandwich panel combining the high surface resistance of HPL laminate with the excellent thermal insulation properties of an XPS core. The construction is further enhanced by an integrated compensating insert, positioned between the outer HPL facing and the XPS core.

This insert performs a stabilizing function by reducing stresses caused by changing environmental conditions such as temperature fluctuations and humidity variations. As a result, the panel offers improved dimensional stability, maintained flatness, and long-lasting aesthetic performance — even under demanding operating conditions.

HPL FLEXSTAB sandwich panel is engineered for durability, reliability and real-world performance of door leaf systems.

Key features

Resistance to damage and moisture

UV resistant

Wide colour range

Weather resistant



Technical data

Structure

Outer layer: **HPL laminate**

- High-pressure thermosetting laminate, thickness: 2 mm
- Compliant with EN 438 standard
- Surface: white or covered with decorative foil
- Density: $\geq 1350 \text{ kg/m}^3$ (ISO 1183)
- Fire classification: Ds2d0 (EN 13501-1)
- Material resistant to corrosion and oxidation

Inner layer: **XPS core**

- Extruded polystyrene (XPS) with a closed-cell structure and grooved surface, HBCD-free
- Density: $\geq 33 \text{ kg/m}^3$ (EN 1602)
- Thermal conductivity (λ): 0.034 W/mK (EN 13164)
- Water absorption: $< 1\%$ (EN 12087)
- Fire classification: E (EN 13501-1)

Inner FS layer

- Foam material with a stabilizing function, thickness: 3 mm
- Density: 60 kg/m^3
- Very good resistance to water, weather conditions, acids and alkalis

Parameters

Panel thickness ¹ (mm)	24	36	40	44	48
U ² value (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 Value determined by calculation method, based on average physico-mechanical properties of sandwich panel elements

LB THERM Sp. z o.o
ul. Starobielska 79
43-391 Mazańcowice

lbtherm@lbtherm.com
+48 690-050-704



lbtherm.com