LB THERM

VALUE INSIDE

SANDWICH **PANELS**

LB THERM

VALUE INSIDE

Quality that supports your success.

LB THERM is a recognized manufacturer of sandwich panels, trusted for years by leading companies in the window, construction, and advertising industries. Our products offer more than just solid construction – they deliver quality, expertise, and precision that add real value to every project.

We manufacture panels using top-grade raw materials, including plastics, metals, and wood-based components. This ensures our solutions combine durability, aesthetics, and excellent functional properties.

We continuously invest in technological advancement. In 2022, we launched a decorative foil lamination line; in 2023 – a precision cutting line; and in 2025, we began producing large-format panels on a modern, high-performance production line.

Our manufacturing capabilities allow us to deliver high-quality products with exceptional variety and short lead times.

We combine experience, innovation, and a passion for creation.

Our panels are reliable solutions that meet the demands of even the most ambitious projects.

STANDARD SANDWICH PANELS

- HPL 1.0 sandwich panel
- HPL 2.0 sandwich panel
- PVC sandwich panel
- PVC foam sandwich panel
- ALUMINIUM sandwich panel
- PLYWOOD sandwich panel
- STEEL sandwich panel

SELF-ADHESIVE PANEL

- Q-TAPE

SPECIALIZED SANDWICH PANELS

- Reinforced Sandwich Panel with ALUMINIUM Insert
- Acoustic sandwich panel
- Sandwich panel with PVC FOAM insert

DECORATIVE LAMINATED PANELS

- HPL STANDARD
- HPL WHITE
- HPL MASSIVE

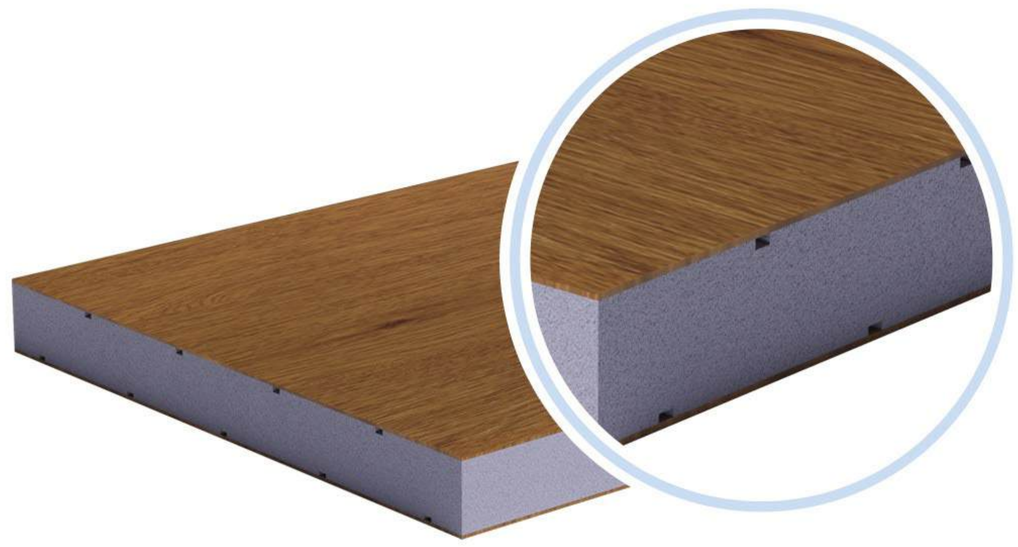
STANDARD

HPL 1.0

SANDWICH PANEL

STANDARD

HPL 1.0 is a lightweight yet durable sandwich panel that combines the high resistance of HPL laminate with the excellent insulation properties of an XPS core. It is an ideal solution for window and door joinery, casonetti systems, and vehicle body paneling.



KEY FEATURES

- Excellent resistance to impact and moisture
- Lightweight construction
- Easy to machine and install

CONSTRUCTION & CORE OPTIONS

Outer layer:

- Outer layer: 1 mm HPL laminate

Core:

- XPS – extruded polystyrene

AVAILABLE SIZES

Thickness:

10 mm (other thicknesses available on request)

Standard sheet size:

3050x1300 mm

APPLICATIONS

- Window and door joinery
- Vehicle body paneling

HPL 2.0

SANDWICH PANEL

STANDARD

At LB Therm, we manufacture high-quality sandwich panels that combine durability, aesthetics, and excellent performance. The HPL 2.0 panel is a modern, versatile solution widely used in window and door joinery, as well as construction.

KEY FEATURES

- Strength and weather resistance
- Wide range of colors
- Lightweight and easy installation
- Thermal insulation

STRUCTURE & CORE OPTIONS

Outer layer:

- 2 mm HPL laminate

Core options:

- **XPS** – extruded polystyrene
- **PUR** – rigid polyurethane foam
- **Foamed PVC**

AVAILABLE SIZES

Thickness:

- **XPS** – 10, 24, 36, 40, 44, 48 mm
- **PUR** – 24, 36, 48 mm
- **Foamed PVC** – 10, 12, 14 mm
  (Other thicknesses available on request)

Standard formats:

3050x1300 mm | 2150x900 mm

Custom cutting – available

APPLICATIONS

Window and door joinery

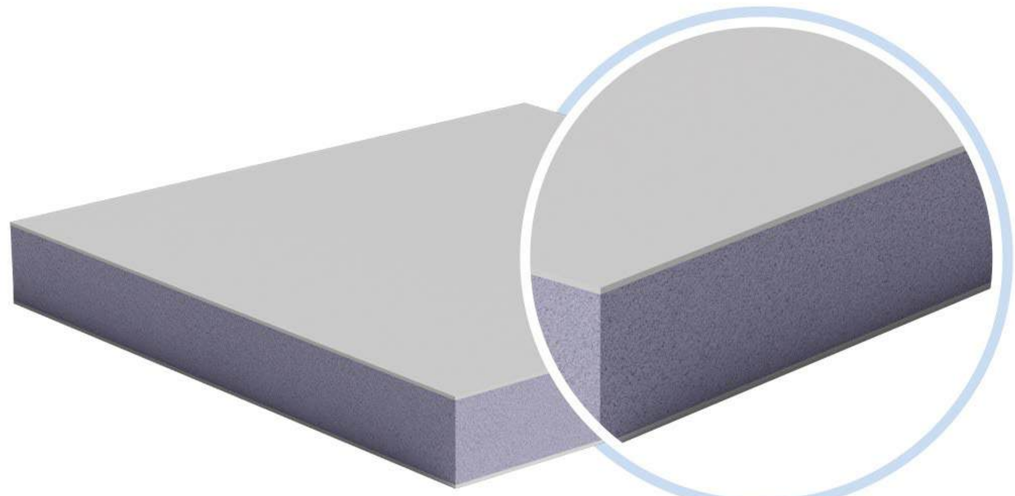
Vehicle body paneling

PVC

SANDWICH PANEL

STANDARD

The PVC sandwich panel is a lightweight yet durable solution for window and door joinery as well as the construction industry. Thanks to its rigid PVC outer layer and insulating core, the panel meets the highest standards of durability and performance.



KEY FEATURES

- Weather resistance
- Available in three shades of white
- Excellent thermal insulation
- Customizable dimensions and specifications

STRUCTURE & CORE OPTIONS

Outer layer:

- Rigid PVC

Core options:

- **XPS** – extruded polystyrene
- **PUR** – rigid polyurethane foam

AVAILABLE SIZES

Thickness:

- **XPS** – 10, 24, 36, 40, 44, 48 mm
- **PUR** – 22, 24, 35, 36 mm
  (Other thicknesses available on request)

Standard formats:

3000x2000 mm | 3000x1500 mm

2000x1000 mm

Custom cutting available

APPLICATIONS

Window and door joinery

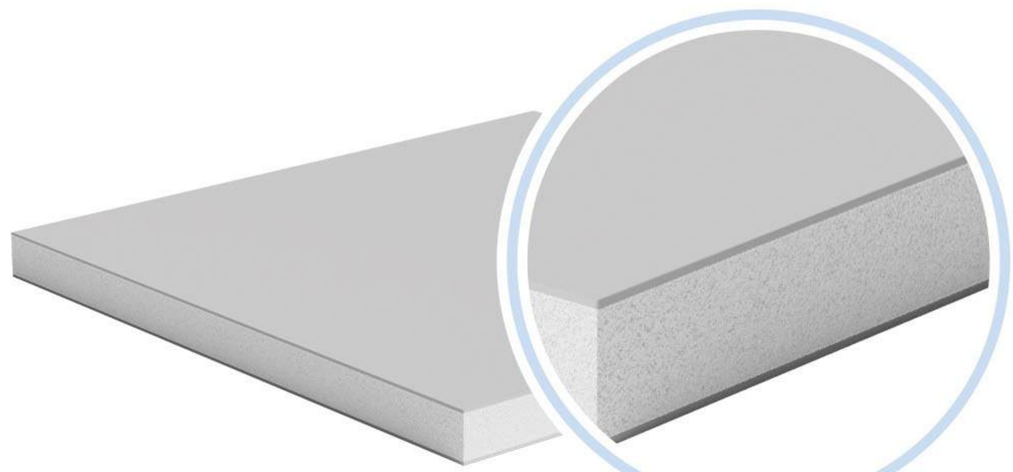
Industrial and commercial construction

PVC FOAM

SANDWICH PANEL

STANDARD

The PVC FOAM sandwich panel is a lightweight and durable solution, ideal for advertising and signage applications. Thanks to its low-density foamed PVC outer layer, the panel is easy to machine, suitable for UV printing, and highly resistant to weather conditions.



KEY FEATURES

- **Lightweight construction with high rigidity**
- **Easy to machine** - cutting, milling
- **High resistance to moisture and outdoor exposure**
- **Print-ready surface -** UV printing compatible

STRUCTURE & CORE OPTIONS

Outer layer:

- Low-density foamed PVC in white (RAL 9016) or black
- Thickness: 1 mm
- Suitable for direct printing

Core:

- **XPS** – extruded polystyrene, grooved or smooth

AVAILABLE SIZES

Thickness:

10, 15, 17, 18, 19, 20, 30 mm
(others on request)

Standard formats:

3050x2050 mm | 3050x1560mm

APPLICATIONS

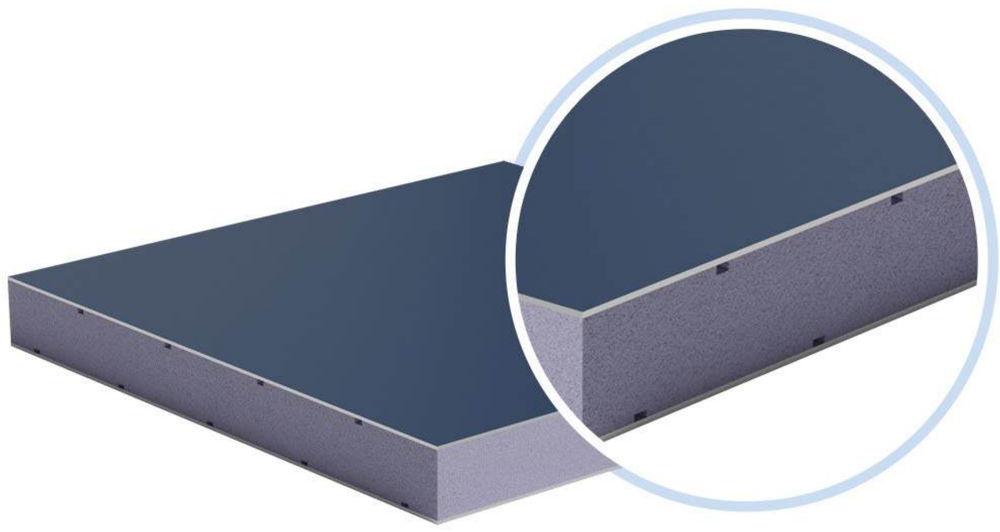
- Advertising & signage industry

ALUMINIUM

SANDWICH PANEL

STANDARD

The aluminium sandwich panel is a durable and weather-resistant solution, suitable for both industrial applications and window and door joinery. Thanks to its aluminium outer layer combined with an XPS or PUR core, the panel offers excellent technical performance, high resistance to environmental factors, and a clean, modern finish.



KEY FEATURES

- Weather and corrosion resistance
- Modern powder-coated finish (RAL colors)
- Lightweight yet strong construction
- Excellent thermal and acoustic insulation

STRUCTURE & CORE OPTIONS

Outer layer:

- Aluminium sheet (grade 5754), 1 mm thick, powder-coated in RAL colors
- Other sheet types and thicknesses available on request

Core options:

- **XPS** – extruded polystyrene
- **PUR** – rigid polyurethane foam

AVAILABLE SIZES

Thickness:

- **XPS** – 24, 28, 36, 44, 48 mm
- **PUR** – 21, 22, 34, 46 mm

Standard formats:

3000x1500 mm | 3000x1000 mm

2000x1000 mm | 2150x900 mm

Custom cutting available

APPLICATIONS

- Window and door joinery

PLYWOOD

SANDWICH PANEL

STANDARD

The plywood-faced sandwich panel is a robust and versatile solution that combines the strength of wood with the insulation properties of an XPS core. Ideal for construction and woodworking industries, it performs well wherever durability and dimensional stability are key.

KEY FEATURES

- Natural wood appearance with high mechanical strength
- Excellent thermal insulation
- High resistance to moisture and mechanical damage
- Customizable thickness and format

STRUCTURE & CORE OPTIONS

Outer layer:

- Plywood (AW100, class III), available in 4, 9, 12, or 15 mm thickness

Core:

- **XPS** – extruded polystyrene

AVAILABLE SIZES

Thickness:

24, 28, 40, 48 mm (others on request)

Format:

2500x1700 mm

APPLICATIONS

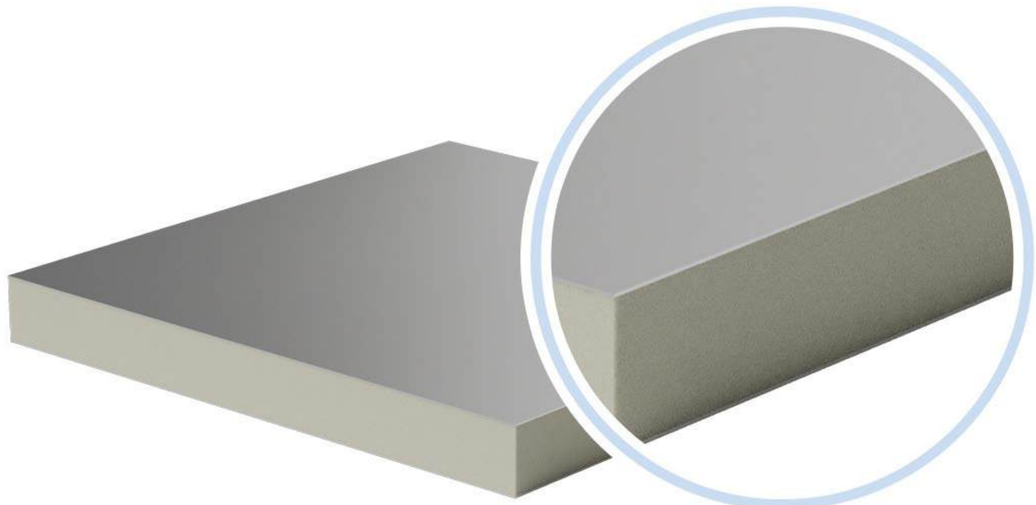
- Construction and joinery
- Vehicle body paneling

STEEL

SANDWICH PANEL

STANDARD

The steel-faced sandwich panel is the most durable solution for industrial construction, window and door joinery, and HVAC enclosures. Thanks to its steel outer layer and XPS or PUR core, it offers excellent resistance to impact and corrosion, while maintaining strong insulation performance.



KEY FEATURES

- High resistance to mechanical damage and corrosion
- Versatile finishing options – RAL-coated, galvanized, or stainless steel
- Excellent thermal and acoustic insulation
- Maximum strength with relatively low weight

STRUCTURE & CORE OPTIONS

Outer layer:

- Galvanized steel sheet, RAL powder-coated or stainless steel (0.5 mm thick)

Core options:

- **XPS** – extruded polystyrene
- **PUR** – rigid polyurethane foam

AVAILABLE SIZES

Thickness:

- **XPS** – 25, 45 mm
- **PUR** – 20, 45 mm

Standard format:

3000x1250 mm

APPLICATIONS

- Industrial and commercial construction
- Window and door joinery
- HVAC enclosures and technical cladding

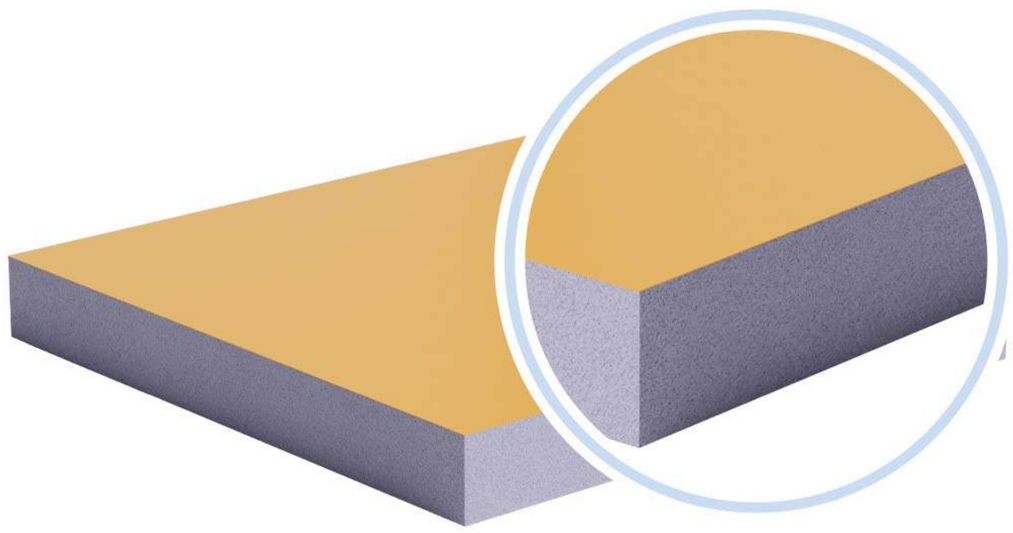
SELF-ADHESIVE

Q-TAPE

SANDWICH PANEL

SELF-ADHESIVE

Q-Tape self-adhesive panels are a modern solution that significantly simplifies installation and reduces assembly time. Featuring a self-adhesive acrylic-based layer, this product is an excellent choice for the window and door joinery industry, construction, and advertising sectors.



KEY FEATURES

- Fast and easy installation thanks to the self-adhesive layer
- Lightweight structure with high strength
- Excellent thermal and acoustic insulation
- Available with single- or double-sided adhesive

STRUCTURE & CORE OPTIONS

Outer layer:

- **Q-Tape** – acrylic adhesive covered with silicone paper, ready for immediate use

Core:

- **XPS** – extruded polystyrene foam

AVAILABLE SIZES

Thickness:

8, 20, 22, 24, 32, 72 mm (others on request)

Formats:

3000x1000 mm | 2150x900 mm

2000x1000 mm

APPLICATIONS

Window and door joinery

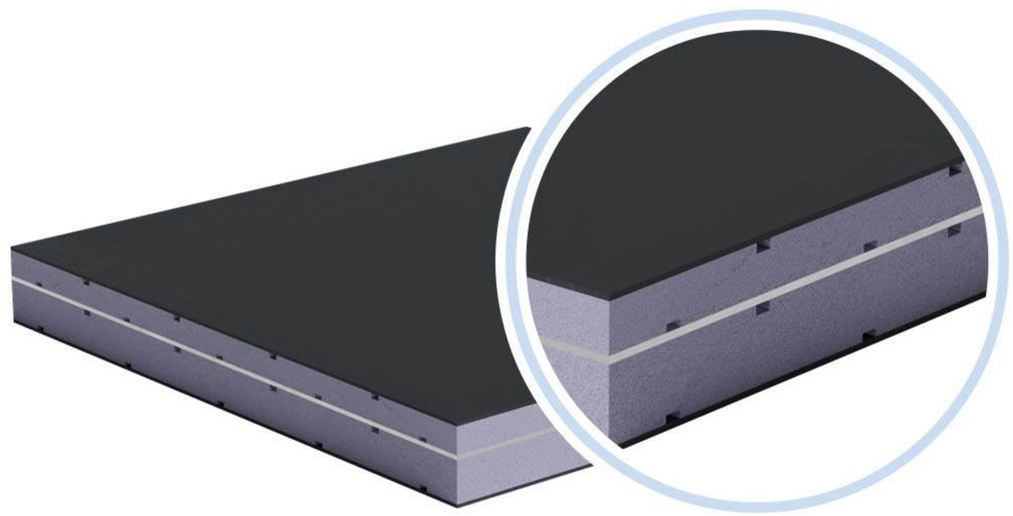
Construction and interior fit-out

Advertising industry

SPECIALIZED

REINFORCED
WITH ALUMINIUM INSERT

The sandwich panel with an ALUMINIUM insert is a high-stiffness, high-strength solution offering enhanced break-in resistance. Thanks to the additional internal ALUMINIUM or steel layer, this product meets the expectations of customers looking for safe and durable materials for window and door joinery, construction, and industrial applications.



KEY FEATURES

- **Increased stiffness and resistance to mechanical damage**
- **Enhanced protection against break-ins**
- **Wide range of outer layers –** PVC, HPL, ALUMINIUM, Q-Tape
- **Excellent thermal insulation thanks to the XPS core**

STRUCTURE & CORE OPTIONS

Reinforcing insert:

- **ALUMINIUM** – ALUMINIUM layer, minimum 1 mm thick
- **STEEL** – steel layer, minimum 0.5 mm thick

Outer layer options:

- **PVC** – durable and aesthetic finish
- **HPL** – high-pressure laminate with enhanced resistance
- **ALUMINIUM** – powder-coated ALUMINIUM sheet
- **Q-Tape** – for fast and easy installation

Core options:

- **XPS/ALUMINIUM/XPS** – ALUMINIUM insert for increased stiffness
- **XPS/STAL/XPS** – steel insert for maximum resistance

AVAILABLE SIZES

Thickness:

24, 36, 40, 44, 48 mm (others on request)

Format:

Depends on outer layer

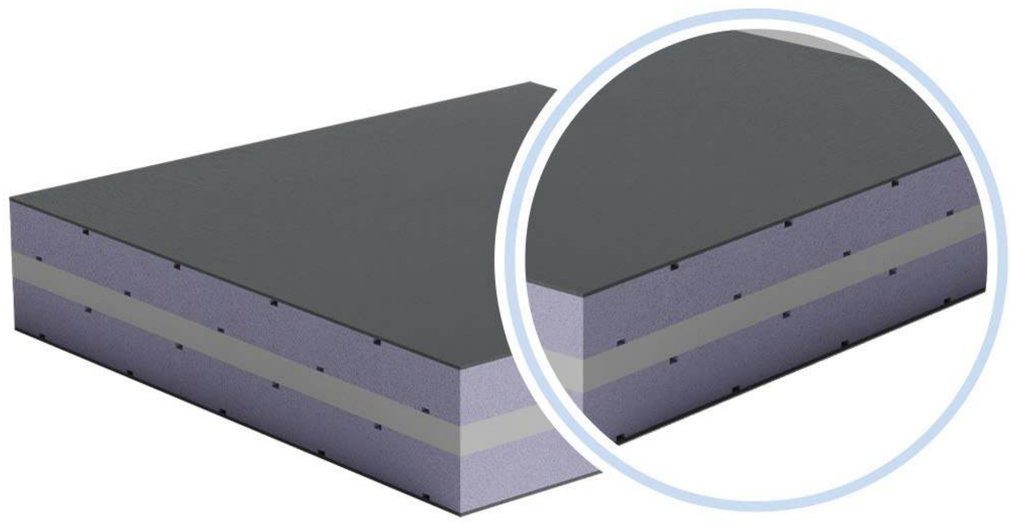
Custom cutting available

APPLICATIONS

- Window and door joinery
- Construction
- Industry and logistics
- Facilities with enhanced security requirements

ACOUSTIC
RW 36/39 DB

Acoustic sandwich panels are a dedicated solution for projects requiring high levels of sound insulation. Thanks to a special sound-absorbing insert, the panel reduces noise levels by up to 36 or 39 dB, depending on the thickness of the insert (8 mm / 16 mm).



KEY FEATURES

- Noise reduction in rooms and buildings
- Acoustic insulation up to 39 dB
- Optimal thermal insulation provided by the XPS core
- Lighter than traditional soundproofing materials

STRUCTURE & CORE OPTIONS

Acoustic insert:

- Special material increasing sound insulation to **Rw 36/39 dB**

Core:

- **XPS/dB/XPS -** closed-cell extruded polystyrene with sound-insulating layer

AVAILABLE SIZES

Thickness:

- **PVC, HPL, ALUMINIUM** – 24, 28, 36, 40, 44, 48 mm
- **Q-Tape –** 20, 24, 32, 36, 40, 44 mm (others on request)

Format:

Depends on outer layer

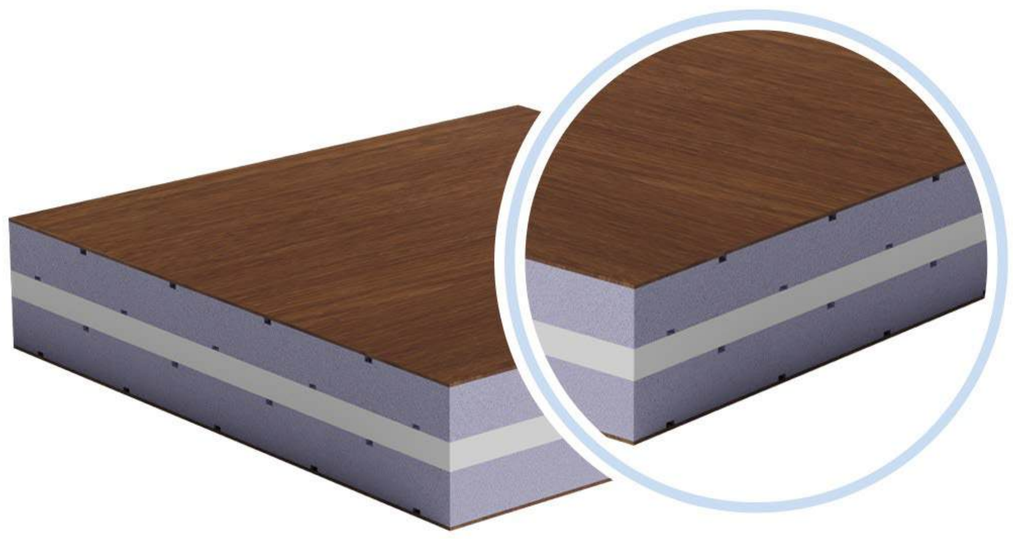
APPLICATIONS

- Window and door joinery
- Construction and architectureura
- Offices and commercial spaces
- Public buildings
- Industry and transportation

WITH PVC FOAM INSERT

SANDWICH PANEL
SPECIALIST

Sandwich panela with PVC foam Insert are a modern solution designed to increase structural stiffness, commonly used for window frame extensions and similar applications. Thanks to the additional foamed PVC layer, these panels offer excellent insulation, lightweight construction, and ease of processing.



Key Features

- Enhanced structural stiffness
- Excellent thermal insulation and moisture resistance
- Lightweight and easy to install
- Versatile applications – from joinery to advertising

STRUCTURE & CORE OPTIONS

Reinforcing insert:

- Foamed PVC, available in **8, 10, 19 mm** (other options on request)

Core:

- **XPS / Foamed PVC / XPS** – ensures stability and low weight

AVAILABLE SIZES

Thickness:

On request

Format:

Depends on outer layer

Custom cutting available

APPLICATIONS

Window joinery

Construction and interiors

Advertising industry

Furniture and exhibition components

DECORATIVE LAMINATED

HPL STANDARD

LAMINATED PANEL

DECORATIVE

HPL STANDARD is a high-quality high-pressure laminate (HPL) combining durability, aesthetics, and resistance to damage. Covered with decorative foil from renowned manufacturers, these panels are ideal for window and door joinery, construction, and interior design.

KEY FEATURES

- Modern design with a wide range of decors
- High resistance to abrasion, moisture, and mechanical damage
- Easy to process and install
- Color stability and attractive finish

MATERIAL & TECHNICAL VARIANTS

Material:

- HPL – high-pressure laminate, compliant with EN 438 standard
- **Covered with decorative foil**

AVAILABLE SIZES

Thickness:	**Formats:**
1,2 | 1,5 | 2,0 mm	3050x1300 mm | 2150x900 mm

APPLICATIONS

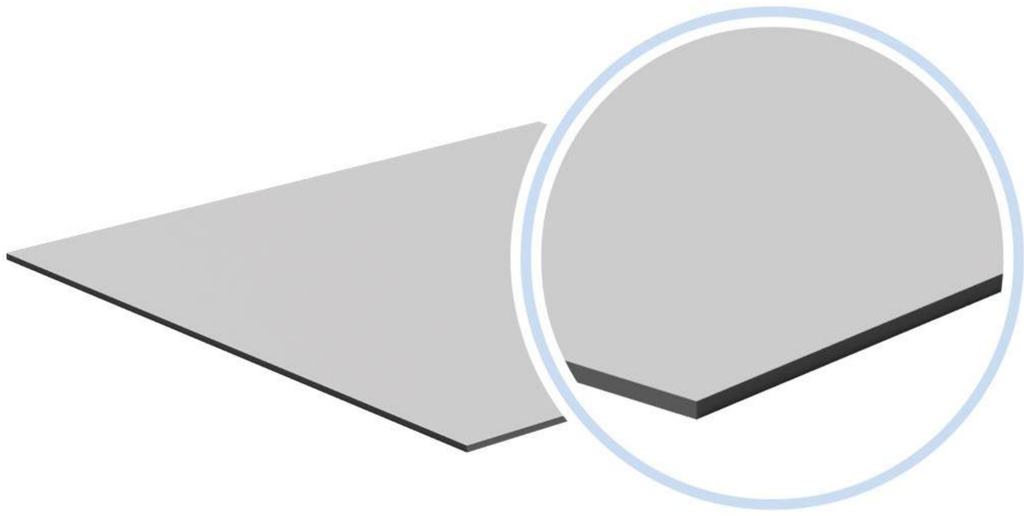
- Window and door joinery
- Construction and interior architecture
- Furniture and interior fittings
- Advertising industry

HPL WHITE

LAMINATED PANEL

DECORATIVE

HPL WHITE is a high-pressure laminate (HPL) that combines durability, aesthetics, and resistance to external factors. Its decorative layer, made from melamine resin-impregnated paper, provides a clean, long-lasting finish – ideal for window joinery, interiors, and industrial applications.



KEY FEATURES

- Modern, minimalist appearance
- Resistant to abrasion, moisture, and chemicals
- Easy to machine and install
- Color stability and long material lifespan

MATERIAL & TECHNICAL DETAILS

Material:

- **High-pressure laminate (HPL),** compliant with EN 438
- **Decorative layer made of resin-impregnated paper**
- **Smooth, uniform surface in matte or gloss white**

AVAILABLE SIZES

Thickness:

1,5 | 1,8 mm

Formats:

3050x1300 mm | 2150x900 mm

APPLICATIONS

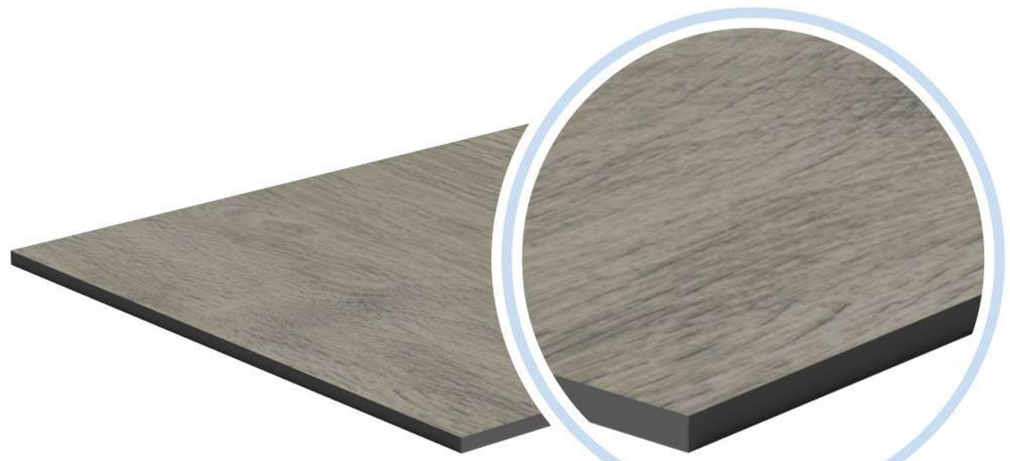
- Window and door joinery
- Construction and interior architecture
- Furniture and interior fittings
- Advertising industry – signage and display panels

HPL MASSIVE

LAMINATED PANEL

DECORATIVE

HPL MASSIVE is a premium-quality high-pressure laminate (HPL) with increased thickness, offering greater durability and a refined finish. Covered with decorative foil, it is an excellent choice for window joinery, construction, and interior design.



KEY FEATURES

- Increased thickness for enhanced strength and rigidity
- Wide selection of patterns and decors
- Resistant to moisture, abrasion, and chemicals
- Easy to process and install

MATERIAL & TECHNICAL DETAILS

Material:

- **High-pressure laminate (HPL),** compliant with EN 438
- **Covered with decorative foil**

AVAILABLE SIZES

Thickness:

4,0 | 6,0 | 8,0 | 10,0 | 12,0 mm

Formats:

3050x1300 mm | 2150x900 mm (others on request)

APPLICATIONS

- Window and door joinery
- Construction and interior architecture
- Furniture and interior fittings

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