Paged
PLYWOOD

Fire Hazard Level HL2 [EN 45545-2]

Application group R1 [EN 45545-2]

Application group R7 [EN 45545-2]

Fire reaction class B-s1,d0 [EN 13501-1]

Declaration of Performance

CARB EPA

PEFC

FSC www.fsc.org FSC® C010283
Znak odpowiedzialnej gospodarki leśnej

Paged BirchPly FR

Fire-retardant hardwood plywood for walls and ceilings

High-strength, fire-retardant hardwood plywood designed for demanding construction and railway applications. A reliable choice for places where safety is a priority.

The product is used in structural elements in the construction industry (EN 13501-1), meeting the reaction to fire class B-s1, d0 / B-s2, d0.

In the railway sector (EN 45545-2), it meets the fire hazard level, HL2, in application groups R1, R2, R6, R7, R17.

Paged BirchPly FR is an excellent choice for walls and ceilings, providing high mechanical resistance and load-bearing capacity.

› Advantages:

Fire resistance

High strength

Ecological manufacturing process

Dimensional stability

Easy to machine

› Standard formats* [mm]

1250 x 2500 | 1500 x 2500
1500 x 3000

*Non-standard sizes available on request.

› Industries and applications:

Construction

Railway

Wall sheating

Ceiling sheating

Car transports

Special applications

Versatile use

› Technical specifications:

Quality class [EN 635-3]	I, II, III
Reaction to fire class [EN 45545-2]	HL2 (R1, R2, R6, R7, R17)
Reaction to fire class [EN 13501-1]	B-s2, d0 (thicknesses 6.5 – 9.0 mm) B-s1, d0 (thicknesses ≥ 12 mm)
Declaration of performance	Structural plywood; CE1
Type of fire retardancy	Fire-retardant impregnating agent

IMPORTANT! Any modification of the product through independent mechanical processing, painting, veneering, etc., requires re-certification.
Please refer to the instructions for handling fire-retardant plywood available at www.pagedplywood.com.

› Thickness, number of layers, standard deviations, density [EN 315, EN 323, EN 324]

Nominal thickness (mm)	Number of wood layers (pcs)	Minimum deviation from nominal thickness (mm)	Maximum deviation from nominal thickness (mm)	Weight (kg/m2)	Average density* (kg/m3)
6.5	5	-0.6	+0.4	5.2	720–880
9	7	-0.7	+0.5	7.2	
12	9	-0.8	+0.6	9.6	
15	11	-0.9	+0.7	12.0	
18	13	-0.9	+0.7	14.4	
21	15	-1.0	+0.8	16.8	
24	17	-1.1	+0.9	19.2	
27	19	-1.8	+1.4	21.6	
30	21	-1.9	+1.5	24.0	

* density at 8–12% moisture content
Thickness range for HL2 (R1, R2, R6, R7, R17): 12.00 – 30.00 mm.
Thickness range for B-s2, d0: 6.5 – 9.0 mm and for B-s1, d0: ≥ 12 mm.

› Characteristic values for bending strength and modulus of elasticity [EN 789:2005, EN 1058:2010]

Nominal thickness (mm)	Bending strength (MOR) [MPa]	MOE (Modulus of Elasticity) [MPa]
12	II 39,10 ⊥ 37,80	II 8894 ⊥ 7717
15	II 58,00 ⊥ 37,40	II 10907 ⊥ 6766
18	II 49,70 ⊥ 32,00	II 9510 ⊥ 8426
21	II 52,30 ⊥ 35,90	II 10933 ⊥ 7835

> Characteristic values for bending strength and modulus of elasticity (EN 789:2005, EN 1058:2010) for other plywood thicknesses can be found in the Declaration of Performance (DoP) at www.pagedplywood.com.

› Dimensional deviations of plywood [EN 315, EN 324]

Length / width	Deviation
< 1,000 mm	± 1 mm
1,000–2,000 mm	± 2 mm
> 2,000 mm	± 3 mm

› Edge straightness and squareness deviations [EN 315, EN 324]

Edge straightness and squareness	± 0.1% or ± 1 mm/m

› Standard formats** [mm]

1250 x 2500 | 1500 x 2500
1500 x 3000

**Non-standard sizes available on request.

› Formaldehyde emission class [EN 717-1]

E1

› Bonding quality class [EN 314-2]

CLASS 3

› Processing

- Edge machining
- CNC machining
- Drilling according to customer specifications

› Additional information

1. General Terms of Sale
2. Declaration of Performance
3. Norms and standards

Scan the QR code or click the link:
www.pagedplywood.com

Paged
PLYWOOD

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pagedplywood.com

The parameters presented in the technical data sheet have been developed in accordance with the internal standards of PAGED Plywood S.A. and with reference to the requirements of EN 636 and other applicable plywood standards.

› Packaging

The plywood is stacked on pallets adapted to its dimensions. Depending on customer requirements and the method of transport, bundles are protected with cardboard and secured with strapping. The edges are protected with corner guards. The pallet height is 10–12 cm. Standard bundle heights are 60 cm and 40 cm (without pallet). The average pallet weight is 26–30 kg (except for the 1,500 × 3,000 mm format – approx. 46 kg). Loading is carried out at the plant using forklifts. Trucks collecting the plywood must be suitable for side loading (with a minimum loading width of 2.50 m).

› Storage

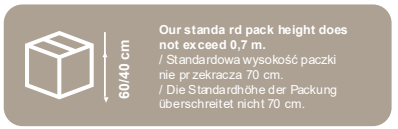
Plywood sheets should be stored in a horizontal position. Do not place the sheets directly on the ground; store them on pallets that are larger than the sheets being stacked. Avoid storing plywood of different sizes, different wood species, or varying water-resistance levels in the same stack. The storage area should protect the plywood from direct exposure to water, excessive humidity, and sharp temperature changes. Plywood should be stored indoors, under controlled air parameters. Air conditioning of storage rooms is essential to balance moisture content and stresses within plywood sheets.

› Transport

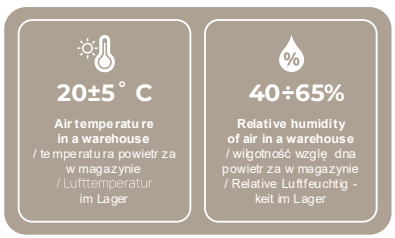
During transport, plywood must be properly secured. Loading and unloading must be done in a way that prevents damage to the sheets. Vehicles transporting plywood should protect the load from water, moisture, and adverse weather conditions. Plywood bundles must be placed horizontally – stacked transport is permitted. Bundles must be secured with straps to prevent shifting during transport. Except for intermodal transport (in containers), plywood is transported using standard truck trailers that allow side unloading. The maximum load is 24 t gross (including packaging). For intermodal transport, higher values may apply.

Product Technical Data Sheet Updated on: 05/05/2026

› Pallet height



› Storage conditions



› Safety

All work must be carried out in accordance with occupational health and safety regulations.

› Supplementary documents

1. Instructions for Handling FR Plywood
2. Technical Conditions
3. Plywood Storage Instructions
4. Safety Data Sheet

AVAILABLE ON REQUEST

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