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Technical data sheet

TORO/APIROS

The panel "**TORO / APIROS**", bonded with melamine adhesive suitable for external use, is a plywood with the resin coated faces, so that **one side** presents an **antislip** and the other side a **smooth finishing**. This treatment (which is compatible with the gluing of other materials to the surface of the panel) gives a good protection and water resistance. The edges are covered with a not hygroscopic varnishing.

The panel, available in the thicknesses range from 6 to 25 mm, is characterized by an improved fire behaviour and is certified according to the standard **EN 45545-2:2015**. Following the list of certificates:

- n° 319-320.1IS0040/18 - n°478-479/23: the TORO/APIROS plywood complies with the requirements of EN 45545-2:2015 for hazard level **HL1 – HL2**, requirement set **R1** (interior vertical surfaces and interior horizontal downward facing surfaces);
- n° 433-434.1IS0040/18 - n°478-479/23 : the TORO/APIROS plywood complies with the requirements of EN 45545-2:2015 for hazard level **HL1 – HL2 - HL3**, requirement set **R10** (floor composites).

Because its **remarkable mechanical properties**, the panel is suitable for structural use. In the railway sector it is widely used in making floors, walls, other components of wagons etc.

Upon request, the panel can be provided with holes, grooves and other milling realized with a CNC equipment.

Property ¹	Reference Standard	Unit	Values							
Thickness	EN 315	mm	6	8	10	12	15	18	20	25
Density	EN 323	kg • m ⁻³	760 ± 40							
Weight		kg • m ⁻²	4,6	6,1	7,6	9,1	11,4	13,7	15,2	19
Bending strength:										
parallel to grain	EN 310	N • mm ⁻²	> 60				> 65			
perpendicular to grain	EN 310	N • mm ⁻²	> 45				> 50			
Bending modulus of elasticity:										
parallel to grain	EN 310	N • mm ⁻²	> 5 000				> 6 500			
perpendicular to grain	EN 310	N • mm ⁻²	> 3 500				> 4 000			
Static hardness	ISO 3350	daN	NPD		≥ 850					
Embedment strength	EN 383	N • mm ⁻²	≥ 50							
Resistance to axial withdrawal of screws	EN 320	daN	≥ 180							
Bonding quality	EN 314-2		Class 3							
Formaldehyde release	EN 717-1		Class E05 (Reach compliant)							
Fire reaction	EN 45545-2:2015		Requirement set R1 for hazard levels HL1 – HL2 Requirement set R10 for hazard levels HL1 – HL2 - HL3							
Thermal conductivity - λ	EN 12664	W • (m k) ⁻¹	0,19							

¹ **Warning:** the buyer is responsible for assessing the suitability of the panels to the specific application to which they are intended. He is also responsible that the modality of transport, storage and use of the panels are correct and conform to the guideline of the supplier and the requirements of applicable standards.