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Technical data sheet

TORO/APIROS/FAGGIO (BEECH)

The **flame retardant plywood TORO/APIROS/FAGGIO**, bonded with melamine adhesive, is made with rotary cut beech veneers previously subjected to **impregnation in the mass** by a special chemical solution which confers to the wood a significant behaviour against fire.

The panel is designed to meet safety requirements in terms of prevention and fire protection. It is particularly suitable for industrial applications involving high mechanical performance and wear resistance.

Fire reaction

TORO/APIROS/FAGGIO plywood is **CE marked** according to EN 13986 for internal use in construction as not structural element, in compliance with the requirements of the Regulation (EU) N0 305/2011 (CPR).

Its fire behaviour is certified according to EN 13501-1, as follow:

panel in the thickness range **between 6 and 35 mm: Euroclass B-s1, d0** for application as **wall and/or ceiling lining**, in contact with no support - Certificate n° 0987 - CPD -156.

Property ¹	Reference Standard	Unit	Values								
Thickness	EN 315	mm	6	8	10	12	15	18	20	25	30
Density	EN 323	kg • m ⁻³	780 ± 40								
Weight		kg • m ⁻²	4,7	6,2	7,8	9,4	11,7	14	15,6	19,5	23,4
ending strength:											
parallel to grain	EN 310	N • mm ⁻²	72	75	65	63	75	62	51	70	60
perpendicular to grain	EN 310	N • mm ⁻²	30	45	45	50	60	45	52	57	55
Bending modulus of elasticity:											
parallel to grain	EN 310	N • mm ⁻²	9 200	7 500	5 600	6 100	7 000	6 880	6 200	6 250	6 500
perpendicular to grain	EN 310	N • mm ⁻²	2 700	4 000	4 350	4 300	5 200	4 500	5 900	5 300	5 800
Embedment strength	EN 383	N • mm ⁻²	≥ 50								
Resistance to axial withdrawal of screws	EN 320	daN	≥ 180								
Bonding quality	EN 314-1		Class 1								
Release of formaldehyde	EN 717-1		Class E05 (Reach compliant)								
Thermal conductivity - λ	EN 12664	W • (m k) ⁻¹	0,2								

¹ **Warning:** The information given in this data sheet must be considered as mean values resulting from internal controls and are therefore indicative. 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.