

Technical data sheet
TORO/APIROS/POPLAR

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

The panel is characterized by its lightness and ease of processing, but it also shows discrete mechanical properties. It is **designed to meet safety requirements in terms of prevention and fire protection**.

Fire reaction

TORO/APIROS/PIOPPO plywood is **CE marked** according to EN 13986 for internal use in construction as non structural element, in compliance with the requirements of the Regulation (EU) No 305/2011 (CPR).

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

- panel in the thickness range **between 4 and 9 mm: Euroclass B-s2, d0** for application as **wall and/or ceiling lining**, in contact with non-combustible support (certificate No. 0987-CPR-135);
- panel in the thickness range **between 9 and 50 mm: Euroclass B-s2, d0** for application as **wall and/or ceiling lining**, not in contact with any support (certificate No. 0987-CPR-143);
- panel in the thickness range **between 9 and 50 mm: Euroclass B_{FL}-s1** for application as **floor covering**, not in contact with any support (certificate No. 0987-CPR-135).

The panel is also certified in **CLASS A** (the best) according to **ASTM E84** for thickness range 9÷25mm

Performance characteristics¹

Property	Reference Standard	Unit	Values									
Thickness	EN 315	mm	4	6	8	10	12	15	18	20	25	30
Layers		n°	3	5	5	5	7	7	9	9	11	15
Density	EN 323	kg • m ⁻³	520 ± 40									
Weight		kg • m ⁻²	2,1	3,1	4,2	5,2	6,2	7,8	9,4	10,4	13	15,6
Bending strength:												
parallel to grain	EN 310	N • mm ⁻²	55	55	53	50	35	30	42	34	32	30
perpendicular grain	EN 310	N • mm ⁻²	28	35	27	25	32	35	38	28	28	27
Bending modulus of elasticity:												
parallel to grain	EN 310	N • mm ⁻²	7 500	6 400	7 800	7 500	3 700	3 000	5 600	4 500	4 000	3 600
perpendicular grain	EN 310	N • mm ⁻²	1 000	3 000	2 600	2 500	3 400	3 400	4 400	3 600	3 500	2 600
Bonding quality	EN 314-1		Class 1									
Release of formaldehyde	EN 717-2		Class E1									
Thermal conductivity - λ	EN 12664	W • (m k) ⁻¹	0,13									

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.