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Technical data sheet

TORO/PP80

TORO/PP80 is a lightweight composite built with skin of Okoumé marine plywood and a honeycomb core of polypropylene (density 80 kg/m³).

The structure of the honeycomb gives to the panel a **good stiffness and excellent mechanical properties** in relation to its minimum density. The panel TORO/PP80 found his ideal application in the yachting sector for the realization of interiors, compartments and bulkheads.

The panel is also available with skins of other wood-based panels and/or overlaid with a decorative sliced veneer.

The thickness of the insert in honeycomb and plywood skin reported in the table below are an example of the possible production.

Performance characteristics¹

Panel	Reference Standard	Unit	Values				
Thickness	EN 315	mm	13	18	23	28	38
Composition		mm	3 – 7 – 3	4 – 10 – 4	4 – 15 – 4	4 – 20 – 4	4 – 30 – 4
Density	EN 323	kg • m ⁻³	274	267	226	200	168
Weight		kg • m ⁻²	3,6	4,8	5,2	5,6	6,4
Bending strength:							
parallel to grain	EN 310	N • mm ⁻²	22	21	26	ND	ND
perpendicular grain	EN 310	N • mm ⁻²	22	16	24	ND	ND
Bending modulus of elasticity:							
parallel to grain	EN 310	N • mm ⁻²	2 300	3 300	3 600	ND	ND
perpendicular grain	EN 310	N • mm ⁻²	1 800	3 400	3 400	ND	ND
Thermal trasmittance ² – U		W • (m ² k) ⁻¹	8,71	6,27	4,79	3,88	2,81
Skin of Okoumé Plywood							
Thickness	EN 315	mm	3	4	4	4	4
Bonding quality	EN 314-2		Class 3				
Release of formaldehyde	EN 717-2		Class E1				
Core of Polypropylene honeycomb							
Thickness		mm	7	10	15	20	30
Compression strenght	DIN 53421	N • mm ⁻²	2				
Sound insulation 50 – 4 000 HZ		dB	22				

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.

² **Note:** the thermal trasmittance values shown in the table do not take into account the coefficients of thermal convection with internal and external environment that must be considered in function of the specific panel's installation.