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Technical data sheet

TORO/ISOL

The panel **TORO/ISOL** is a wood-based composite made with external slabs of plywood and a central layer (core) of polystyrene.

It is characterized by **excellent thermal insulating properties** and a compression strength that provides adequate mechanical performance. The reduced vapour permeability makes it suitable for the use in a moist environment.

The **surface** can be produced with various types of **plywood**, like the **Okoumé** - for applications at risk of moisture - or **decorative panels** overlaid with sliced veneers.

Upon request on the faces of the panel can be realized a series of **parallel grooves** that give it a special appearance.

The thickness of the insert and of the coating plywood shown in the following table are an example of the possible production.

Performance characteristics¹

Panel	Reference Standard	Unit	Values			
Thickness	EN 315	mm	60	70	80	100
Composition		mm	10 – 40 – 10	10 – 50 – 10	10 – 60 – 10	10 – 80 – 10
Density	EN 323	kg • m ⁻³	170	150	135	114
Weight		kg • m ⁻²	10,2	10,5	10,8	11,4
Thermal trasmittance ² – U		W • (m ² k) ⁻¹	0,77	0,63	0,54	0,41
Thermal resistance		(m ² k) • W ⁻¹	1,297	1,582	1,868	2,440
Plywood skin						
Poplar plywood						
Thickness	EN 315	mm	10	10	10	10
Layers			5	5	5	5
Technical class	EN 636		EN 636 - 2 Humid conditions			
Release of formaldehyde	EN 717-2		Class E1			
Polystyrene core						
Thickness		mm	40	50	60	80
Compression strenght	EN 826	N • mm ⁻²	0,150			
Thermal conductivity - λ		W • (m k) ⁻¹	0,035			

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.

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