



COMPENSATI TORO S.p.A.

via Piverone, 4
I 10010 AZEGLIO (TO)

Tel. +39 0125 687999 Fax +39 0125 687979

info@compensatitoro.it

www.compensatitoro.co

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 | | | |
|---------------------------------------|--------------------|--------------------------------------|-----------------------------|--------------|--------------|--------------|
| | | | 60 | 70 | 80 | 100 |
| 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.

17/05/2013

SM/TORO/ISOLen_01