



# COMPENSATI TORO

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## Technical data sheet

## TORO/PVC

**TORO/PVC** is a lightweight composite built with skin of Okoumé marine plywood and a core of PVC with high density (80 kg/m<sup>3</sup>).

The closed cell structure of the PVC panel provides excellent thermal insulation properties and dimensional stability, constant over time. Thanks to these characteristics, combined with good resistance to mechanical stress, the panel is used 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 veneers.

The thickness of the insert in PVC (max 65 mm) and plywood skin reported in the table below are an example of the possible production.

## Performance characteristics<sup>1</sup>

| Panel                                 | Reference Standard | Unit                                 | Values    |            |           |            |            |            |
|---------------------------------------|--------------------|--------------------------------------|-----------|------------|-----------|------------|------------|------------|
|                                       |                    |                                      | 12        | 12         | 15        | 18         | 21         | 28         |
| Thickness                             | EN 315             | mm                                   | 12        | 12         | 15        | 18         | 21         | 28         |
| Composition                           |                    | mm                                   | 3 – 6 – 3 | 1,5– 9–1,5 | 3 – 9 – 3 | 4 – 10 – 4 | 3 – 15 – 3 | 4 – 20 – 4 |
| Density                               | EN 323             | kg • m <sup>-3</sup>                 | 290       | 185        | 248       | 267        | 200        | 200        |
| Weight                                |                    | kg • m <sup>-2</sup>                 | 3,5       | 2,2        | 3,7       | 4,8        | 4,2        | 5,6        |
| Thermal trasmittance <sup>2</sup> – U |                    | W • (m <sup>2</sup> k) <sup>-1</sup> | 4,17      | 3,19       | 2,97      | 2,6        | 1,89       | 1,42       |
| <b>Skin of Okoumé Plywood</b>         |                    |                                      |           |            |           |            |            |            |
| Thickness                             | EN 315             | mm                                   | 3         | 1,5        | 3         | 4          | 3          | 4          |
| Bonding quality                       | EN 314-2           |                                      | Class 3   |            |           |            |            |            |
| Release of formaldehyde               | EN 717-2           |                                      | Class E1  |            |           |            |            |            |
| <b>Core of PVC</b>                    |                    |                                      |           |            |           |            |            |            |
| Thickness                             |                    | mm                                   | 6         | 9          | 9         | 10         | 15         | 20         |
| Compression strenght                  | ASTM D 1621        | N • mm <sup>-2</sup>                 | 1,4       |            |           |            |            |            |
| Thermal conductivity - λ              |                    | W • (m k) <sup>-1</sup>              | 0,031     |            |           |            |            |            |

**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.