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Technical data sheet

TORO/APHONOS

The sound-insulating panel **TORO / APHONOS**, bonded with melamine adhesive, is a wood-based composite made with external slabs of plywood and a **core of high density rubber-cork** ($965 \text{ kg} \cdot \text{m}^{-3}$). The faces are resin coated so that one side presents an antislip and the other side a smooth finishing. This treatment gives to the panel a good protection and water resistance. The edges are covered with a not hygroscopic varnishing.

The panel, available in the thicknesses range from 12 to 27 mm is **certified by Trenitalia** complying with Technical Specification No. 307972 esp. 02.

The panel is characterized by an excellent fire behaviour in floor position and fulfil the requirement set **R10** of the standard **EN 45545-2:2015** for Hazard Levels **HL1 – HL2 - HL3**.

In the railway sector the TORO/APHONOS panel is widely used in making floors. Upon request, the panel can be provided with holes, grooves and other milling realized with a pantograph.

Property ¹	Reference Standard	Unit	Values				
			12	15	18	20	27
Thickness	EN 315	mm	12	15	18	20	27
Density	EN 323	$\text{kg} \cdot \text{m}^{-3}$	780 ± 40				
Weight		$\text{kg} \cdot \text{m}^{-2}$	9,4	11,7	14	15,6	21,1
Bending strength:							
parallel to grain	EN 310	$\text{N} \cdot \text{mm}^{-2}$	> 40		> 42		
perpendicular grain	EN 310	$\text{N} \cdot \text{mm}^{-2}$	> 25		> 27		
Bending modulus of elasticity:							
parallel to grain	EN 310	$\text{N} \cdot \text{mm}^{-2}$	> 2 500		> 3 300		
perpendicular grain	EN 310	$\text{N} \cdot \text{mm}^{-2}$	> 1 000		> 1 500		
Static hardness	ISO 3350	daN	≥ 600				
Embedment strength	EN 383	$\text{N} \cdot \text{mm}^{-2}$	≥ 30		≥ 50		
Resistance to axial withdrawal of screws	EN 320	daN	≥ 150				
Bonding quality	EN 314-2		Class 3				
Release of formaldehyde	EN 717-2		Class E1				
Fire behaviour	EN 45545-2:2015		Complying with the requirement set R10 for Hazard Levels HL1 – HL2 - HL3				
Sound insulation	EN ISO 717-1	dB	> 30				

¹ **Warning:** 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.

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