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Technical data sheet

TORO/APHONOS-HEAVY (CORE)

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The sound-insulating panel **TORO / APHONOS-HEAVY**, bonded with melamine adhesive, is a wood-based composite made with external slabs of plywood and a **core of high density rubber** ($1800 \text{ kg} \cdot \text{m}^{-3}$). 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 15 to 25 mm, is characterized by an improved fire behaviour in floor position and fulfil the requirement set **R10** of the standard **EN 45545-2:2020** for Hazard Levels **HL1 – HL2 - HL3**.

In the railway sector TORO/APHONOS-HEAVY is widely used for making floors. Upon request, the panel can be provided with holes, grooves and other milling realized with CNC equipment.

Property ¹	Reference Standard	Unit	Values	
Thickness	EN 315	mm	15	18
Density	EN 323	$\text{kg} \cdot \text{m}^{-3}$	1000±40	
Weight		$\text{kg} \cdot \text{m}^{-2}$	15,2	24,3
Bending strength:				
parallel to grain	EN 310	$\text{N} \cdot \text{mm}^{-2}$	57,3	60,5
perpendicular to grain	EN 310	$\text{N} \cdot \text{mm}^{-2}$	37,0	44,0
Bending modulus of elasticity:				
parallel to grain	EN 310	$\text{N} \cdot \text{mm}^{-2}$	5210	5550
perpendicular to grain	EN 310	$\text{N} \cdot \text{mm}^{-2}$	3250	3750
Static hardness	ISO 3350	daN	≥ 600	
Resistance to axial withdrawal of screws	EN 320	daN	≥ 150	
Bonding quality	EN 314-2		Class 3*	
Release of formaldehyde	EN 717-1		Class E05 (Reach compliant)	
Fire behaviour	EN 45545-2:2015		Complying with the requirement set R10 for Hazard Levels HL1 – HL2 - HL3	
Sound insulation	ISO 717-1	dB	TBD (to be determined)	

* Gluing class 3 according to EN 314-2 is only guaranteed for plywood.

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.