

MATERIAL PROPERTIES DATA SHEET | BONDED PANELS (14-25 mm)

The Bonded Panels collection is the result of a wide selection of designs to inspire designers, empower resellers, and ultimately meet the expectations of the most demanding customers by offering a truly complete range of opportunities and inspirations in terms of finishing and technical features.

Rev01- E- 06.08.2024

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				Arpa HPL surface	FENIX surface
Properties	Test method	Property or attribute	Unit	Values	
Surface properties					
Surface quality	EN 438-2:2016 cl.4	Spots, dirt and similar surface defects	mm²/m²	≤ 1	
		Fibres, hair and scratches	mm/m²	≤ 10	
Resistance to surface wear	EN 438-2:2016 cl.10	Initial Point	Revolutions	Plain color ≥ 150* Printed decor ≥ 100* Glossy ≥ 50	≥ 200
Resistance to scratching	EN 438-2:2016 cl.25	Appearance	Rating	Glossy ≥ 2 Other finishing ≥ 3	≥ 4
Resistance to staining	EN 438-2:2016 cl.26	Appearance - Group 1 and 2	Rating	5	
		Appearance - Group 3	Rating	≥ 4	
General properties					
Dimensional tolerances	ISO 13894-1 cl.6 and cl.7	Thickness	mm	+/- 0.5	
		Length	mm	+/- 5	
		Width	mm	+/- 5	
		Deviation from flatness (apply only on elements that are of thickness ≥ 16mm)	mm/m	≤ 2	
		Edge straightness	mm/m	+/- 0.5	
		Edge squareness	mm/m	≤ 2	
Physical properties					
Impact resistance	ISO 13894-1 cl.18	Small diameter ball	N	≥ 15	
	ISO 13894-1 cl.17	Large diameter ball	mm	≥ 600 ≤ 10	
Glue-line quality	ISO 13894-1 cl.8	Quality	Rating	5	
Surface bond strength	ISO 13894-1 cl.9	Strength	MPa	≥ 1	
Perpendicular tensile strength	ISO 13894-1 cl.10	Strength	MPa	≥ 0,35	
Resistance to axial withdrawal of wood screw	ISO 13894-1 cl.15	Screw holding value	N	≥ 1500	
Substrate protection against water vapor	ISO 13894-1 cl.14	Thickness swell	mm	≤ 0.1	

Note to ARPA HPL Surface

* In case of structured finishes, the surface wear resistance values may be 10 or more revolutions lower than the nominal values in proportion to how much more is accentuated the shape.

Note to FENIX bonded panels with adhesive protective film

The protective film is designed to temporary protect the surface from dust, scratches and marks left by handling equipment; it does not protect from corrosion, dampness or chemical agents. Sheets covered with protective film should be stored in a clean dry atmosphere at room temperature (ideally 20°C), avoiding exposure to atmospheric agents and UVA rays. The protective film should be removed from the sheets surface after application and before the final item. In any case, the removal should take place within 6 months from the date of shipping by Arpa Industriale. Arpa Industriale shall not accept liability for improper use of sheets covered with a protective film, nor for any consequences of an incorrect application.

Note to deviation from flatness

The above values are referring only to double sided Elements. In case of products having different materials on the sides, the is no guarantee of deviation from flatness.

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