DUROPAL | thermopal

PFLEIDERER

October 2025

Technical data

Duropal Element Real Metal P2

HPL bonded board consisting of a particleboard type P2 conforming to EN 312, surfaced on both sides with Duropal HPL Real Metal.

Applications

Furniture and interior fitting

Properties

Real metal surface

Certificates

Specification						Unit	Test standard
Nominal thickness	**9.6**	**16**	**17.6**	**19**	**20.6**	**mm**	
HPL-thickness	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**mm**	
Design front edge	not processed						
Design rear edge	not processed						
Tolerance on thickness	± 0.5					mm	ISO 13894-1
Tolerance on length	± 5					mm	ISO 13894-1
Tolerance on width	± 5					mm	ISO 13894-1
Surface defects – HPL	max. 1 [1] max. 10 [2]					mm²/m² mm/m²	EN 438-2
Straightness of edges	± 0.5					mm/m	ISO 13894-1
Squareness	≤ 2					mm/m	ISO 13894-1
Flatness (length)	-	max. 2	max. 2	max. 2	max. 2	mm/m	ISO 13894-1
Flatness (width)	-	max. 2	max. 2	max. 2	max. 2	mm/m	ISO 13894-1
Resistance to scratching – HPL	min. 1					rating	EN 438-2
Stain resistance (groups 1 & 2) – HPL	min. 4					rating	EN 438-2
Stain resistance (group 3) – HPL	min. 4					rating	EN 438-2
Resistance to colour change (xenon arc light) – HPL	min. 4 Grey Scale Grade						EN 438-2
Reaction to fire	normally flammable						
Reaction to fire (Euroclass)	not classified	D-s2,d0	D-s2,d0	D-s2,d0	D-s2,d0		EN 13501-1, CWFT conforming to 2003/593/EG
Formaldehyde emission class	E1 E05 TSCA Title VI						EN 717-1
Mean density	≥ 720 [3]	670 - 650 [3]	670 - 650 [3]	670 - 650 [3]	670 - 650 [3]	kg/m³	EN 323
Bending strength	11 [3]					N/mm²	EN 310
Modulus of elasticity (bending stiffness)	1,800 [3]	1,600 [3]	1,600 [3]	1,600 [3]	1,600 [3]	N/mm²	EN 310
Internal bond	0.4 [3]	0.35 [3]	0.35 [3]	0.35 [3]	0.35 [3]	N/mm²	EN 319
Resistance to fixings (face)	≥ 40	≥ 600	≥ 600	≥ 600	≥ 600	N/mm N	ISO 13894-1
Resistance to fixings (edge)	≥ 350					N	ISO 13894-1

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HPL-thickness	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**mm**	
Bonding strength	≥ 0.6					N/mm²	ISO 13894-1
Flexural tensile strength	≥ 0.6					N/mm²	ISO 13894-1
Durability – Glue-line quality	≥ 3					rating	ISO 13894-1
Durability – Resistance to elevated temperature	no effect						ISO 13894-1

[1] Dirt, spots and similar surface defects
[2] Fibres, hairs and scratches
[3] Core material

Specification					Unit	Test standard
Nominal thickness	**23.6**	**25**	**29.6**	**39.6**	**mm**	
HPL-thickness	**0.8**	**0.8**	**0.8**	**0.8**	**mm**	
Design front edge	not processed					
Design rear edge	not processed					
Tolerance on thickness	± 0.5				mm	ISO 13894-1
Tolerance on length	± 5				mm	ISO 13894-1
Tolerance on width	± 5				mm	ISO 13894-1
Surface defects – HPL	max. 1 [1] max. 10 [2]				mm²/m² mm/m²	EN 438-2
Straightness of edges	± 0.5				mm/m	ISO 13894-1
Squareness	≤ 2				mm/m	ISO 13894-1
Flatness (length)	max. 2				mm/m	ISO 13894-1
Flatness (width)	max. 2				mm/m	ISO 13894-1
Resistance to scratching – HPL	min. 1				rating	EN 438-2
Stain resistance (groups 1 & 2) – HPL	min. 4				rating	EN 438-2
Stain resistance (group 3) – HPL	min. 4				rating	EN 438-2
Resistance to colour change (xenon arc light) – HPL	min. 4 Grey Scale Grade					EN 438-2
Reaction to fire	normally flammable					
Reaction to fire (Euroclass)	D-s2,d0	D-s2,d0	not classified	not classified		EN 13501-1, CWFT conforming to 2003/593/EG
Formaldehyde emission class	E1 E05 TSCA Title VI					EN 717-1
Mean density	630 - 610[3]	630 - 610[3]	600 - 580[3]	580 - 540[3]	kg/m³	EN 323
Bending strength	10.5 [3]	10.5 [3]	9.5 [3]	8.5 [3]	N/mm²	EN 310
Modulus of elasticity (bending stiffness)	1,500 [3]	1,500 [3]	1,350 [3]	1,200 [3]	N/mm²	EN 310
Internal bond	0.3 [3]	0.3 [3]	0.25 [3]	0.2 [3]	N/mm²	EN 319
Resistance to fixings (face)	≥ 600				N/mm N	ISO 13894-1
Resistance to fixings (edge)	≥ 350				N	ISO 13894-1

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HPL-thickness	**0.8**	**0.8**	**0.8**	**0.8**	**mm**	
Bonding strength		≥ 0.6			N/mm²	ISO 13894-1
Flexural tensile strength		≥ 0.6			N/mm²	ISO 13894-1
Durability – Glue-line quality		≥ 3			rating	ISO 13894-1
Durability – Resistance to elevated temperature		no effect				ISO 13894-1

[1] Dirt, spots and similar surface defects
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[3] Core material

Additional information

Product standard	• in accordance with EN 13894-2
Areas of application	• Surface material for vertical applications with authentic metal character in high quality interior design and shop fitting, in trade fair construction, but also in the private residential sector. Real aluminium surfaces are not suitable for horizontal applications and/or surfaces exposed to mechanical loads.
Core material	• ClassicBoard P2 • Urea resin-bonded particleboard, type P2 conforming to EN 312, suitable for non load-bearing purposes in dry areas.
Product safety	• This product follows the REACH regulation EC 1907/2006 an article. Following Article 7 it does not need to be registered. • The decorative surface is a lacquered aluminium foil. The material core consists of paper layers which are impregnated with a duroplastic resin. The resins harden completely during the manufacturing process by heat and high-pressure. They form a stable, resistant and non-reactive material. • We manufacture the panels without the use of organohalogens, heavy metals, preservatives, wood protectors or organic solvents.
Special	• The real metal surface is made of aluminium. Unlike classic, melamine-impregnated decor papers, real metal surfaces may provide certain visual effects on the surface. Differences in colour, a slight unevenness in the surface and small indentations may also occur. These are not quality defects, but proof of the real metal surface, distinguishing it from imitations. • For side-by-side installations in interior fitting, real metallic surfaces from the same production batch are to be used. If there is some space between applications, different batches may also be used. • Please note that metal surfaces are much less resistant to scratches, impacts and abrasion than melamine surfaces. They also have a reduced resistance to chemicals. Therefore, real metal surfaces are to be exclusively used in vertical applications. If used horizontally, we recommend that the surface be protected, for example, by a sheet of glass of inferior thickness. • Please note: with format 2,800 x 2,070 mm the visible longitudinal joint of the real metal foil (2 strips) at approx. 1,380 mm and the usable length of min. 2,780 mm. • Cut to size is not available. • Please refer to our sales documentation, to check which textures are available for this product. • Real metal surfaces are generally delivered with a protective foil resistant to temperatures of up to 80°C. The protective foil must be removed six months after delivery at the latest.
Note	• FSC certification or PEFC certification available on request. • FSC license code: FSC® C011773 • PEFC license code: PEFC/04-32-0828
Colour and surface match	• Decor, structure and core board all influence the final appearance of the end product. • Due to the product-specific differences in production technologies, even identical decor/structure/core board combinations can result in slight optical and tactile deviations across different product groups and formats. Such deviations do not constitute a defect. • The choice of surface structure in particular has a significant influence on the visual impression, the tactile perception as well as the technical characteristics of the product. Thus, the overall impression of a decor can change almost completely depending on the surface structure. Furthermore, mechanical influences on the product surface can lead to a higher contrast optical perception with dark decors. • To ensure that you always achieve the best results with our products and to clarify any deviations in advance, we will be happy to advise you individually.

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Further information on products, formats and decor/structure combinations is available at www.pfleiderer.com

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