

Technical data

Duropal Element MDF plus

Flat bonded element of a medium-density fibreboard (MDF) construction with uniform structure, faced on both sides with Duropal HPL.

Applications



Furniture and interior fitting

Properties



Decorative variety



Easy care

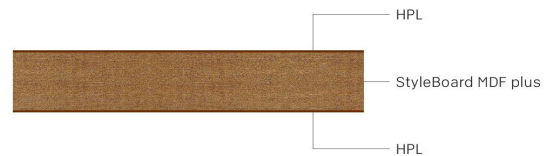


Antimicrobial



Food harmless

Certificates



Specification					Unit	Test standard
Nominal thickness	9.6	17.6	19.6	20.6	mm	
HPL-thickness in mm	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⁾				mm ² /m ² mm/m ²	EN 438-3:2016
Straightness of edges	± 0.5				mm/m	ISO 13894-1
Squareness	≤ 2				mm/m	ISO 13894-1
Flatness (length)	≤ 2	≤ 2	≤ 2	≤ 2	mm/m	ISO 13894-1
Flatness (width)	≤ 2	≤ 2	≤ 2	≤ 2	mm/m	ISO 13894-1
Resistance to wet heat, 100 °C (smooth finishes) - HPL	min. 3				rating	EN 438-2:2016
Resistance to wet heat, 100 °C (textured finishes) - HPL	min. 4				rating	EN 438-2:2016
Resistance to dry heat, 160 °C (smooth finishes) - HPL	min. 3				rating	EN 438-2:2016
Resistance to dry heat, 160 °C (textured finishes) - HPL	min. 4				rating	EN 438-2:2016
Resistance to water vapour (smooth finishes) - HPL	min. 3				rating	EN 438-2:2016
Resistance to water vapour (textured finishes) - HPL	min. 4				rating	EN 438-2:2016
Resistance to surface wear - HPL	min. 50 ³⁾ min. 150 ⁴⁾				cycles	EN 438-2:2016
Resistance to scratching (smooth finishes) - HPL	min. 1 ³⁾ min. 2 ⁴⁾				rating	EN 438-2:2016

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Specification					Unit	Test standard
Nominal thickness	9.6	17.6	19.6	20.6	mm	
HPL-thickness in mm	0.8	0.8	0.8	0.8	mm	
Resistance to scratching (textured finishes) - HPL	min. 2 ³⁾ min. 3 ⁴⁾				rating	EN 438-2:2016
Resistance to impact (small diameter ball)	≥ 15				N/mm	ISO 13894-1
Stain resistance (groups 1 & 2) - HPL	min. 5				rating	EN 438-2:2016
Stain resistance (group 3) - HPL	min. 4				rating	EN 438-2:2016
Resistance to colour change (xenon arc light) - HPL	4 to 5 Grey Scale Grade					EN 438-2:2016
Reaction to fire	normally flammable					
Reaction to fire (Euroclass)		D-s2,d0	D-s2,d0	D-s2,d0		EN 13501-1, CWFT acc. to 2003/593/EG
Formaldehyde emission class	E1 E05 CARB Phase 2 / TSCA Title VI					EN 717-1
Mean density	730 ⁵⁾	710 ⁵⁾	710 ⁵⁾	710 ⁵⁾	kg/m ³	EN 323
Bending strength - Raw core materials	25 ⁵⁾	23 ⁵⁾	23 ⁵⁾	23 ⁵⁾	N/mm ²	EN 310
Modulus of elasticity (bending stiffness) - Raw core materials	2,400 ⁵⁾	2,200 ⁵⁾	2,200 ⁵⁾	2,200 ⁵⁾	N/mm ²	EN 310
Internal bond - Raw core materials	0.55 ⁵⁾	0.48 ⁵⁾	0.48 ⁵⁾	0.48 ⁵⁾	N/mm ²	EN 319
Durability - Water resistance	≤ 15				%	ISO 13894-1
Resistance to fixings (face)	≥ 100	≥ 1,500	≥ 1,500	≥ 1,500	N/mm N	ISO 13894-1
Resistance to fixings (edge)	≥ 500				N	ISO 13894-1
Bonding strength	≥ 0.8				N/mm ²	ISO 13894-1
Flexural tensile strength	≥ 0.8				N/mm ²	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⁾ Classification VGP

⁴⁾ Classification HGP

⁵⁾ Core material

Additional information

Product standard	<ul style="list-style-type: none"> EN 13894-1
Areas of application	<ul style="list-style-type: none"> Decorative, sturdy elements for furniture and interior design where a uniform core material with very high edge quality – for profiling and lacquering – is required: e. g. in restaurants and shop fitting and for office and interior furniture.
Core material	<ul style="list-style-type: none"> StyleBoard MDF plus Medium-density fibreboard (MDF) in accordance with EN 622-1, with uniform structure.
Product safety	<ul style="list-style-type: none"> This product follows the REACH regulation EC 1907/2006 an article. Following Article 7 it does not need to be registered. The surface is physiologically safe, and approved for direct contact with food acc. to Regulation (EU) No. 10/2011.

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Antimicrobial effect	<ul style="list-style-type: none"> Surface with antimicrobial effect in 24h for interior fit-out and finishes - Test Methodology JIS Z 2801 / ISO 22196
Special	<ul style="list-style-type: none"> It is recommended to order overlay for horizontal, heavy used surfaces in combination with metallic designs. Slight visual difference to the surface is possible without the overlay. Holoheral metallic designs can show because of light refraction certain optical area effects which also can be directional and slightly higher differences in the colour connection in comparison to classic plain colours. Please consider that metallic designs react more sensitive to scratching and abrasion as well as to humidity as normal printed designs. The sensitivity of the surface increases with growing metallic content. The surface values of the relevant product standard are therefore only limited fulfilled. Depending on the decor and surface texture, slightly different surface visual impressions can result between cut panels viewed from different angles. This is a result of the production methods and does not constitute a quality defect. Especially for large applications, we recommend paying attention to the colour and texture uniformity of the boards and cut products used when further processing and installing and that the production direction is taken into account. Classification HGP / HGF is achieved with the surface textures recommended for horizontal applications. Requirements of classification VGP / VGF are met by all surface textures. Please refer to our sales documentation, to check which textures are available for this product.
Note	<ul style="list-style-type: none"> FSC certification or PEFC certification available on request. FSC license code: FSC® C011773 PEFC license code: PEFC/04-32-0828
Colour and surface match	<ul style="list-style-type: none"> 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.

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

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