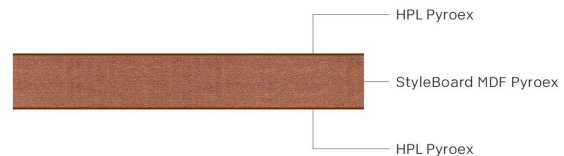


Technical data

Duropal Element MDF Pyroex

Flame resistant flat bonded element of a medium-density fibreboard core (MDF) with uniform structure and flame retardant properties, faced on both sides with Duropal HPL Pyroex.



Applications



Properties



Certificates



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

Technical data

Duropal Element MDF Pyroex

Specification			Unit	Test standard
Nominal thickness	17.6	20.6	mm	
HPL-thickness in mm	0.8	0.8	mm	
Resistance to scratching (textured finishes) - HPL	min. 2 ³⁾ min. 3 ⁴⁾	min. 2 ³⁾ min. 3 ⁴⁾	rating	EN 438-2:2016
Resistance to impact (small diameter ball)	≥ 15		N	ISO 13894-1
Stain resistance (groups 1 & 2) - HPL	min. 5	min. 5	rating	EN 438-2:2016
Stain resistance (group 3) - HPL	min. 4	min. 4	rating	EN 438-2:2016
Resistance to colour change (xenon arc light) - HPL	4 to 5 Grey Scale Grade	4 to 5 Grey Scale Grade		EN 438-2:2016
Reaction to fire	flame retardant			
Reaction to fire (Euroclass)	C-s2,d0			EN 13501-1
Formaldehyde emission class	E1 E05 CARB Phase 2 / TSCA Title VI			EN 717-1
Mean density	780 ⁵⁾		kg/m ³	EN 323
Bending strength - Raw core materials	20 ⁵⁾		N/mm ²	EN 310
Modulus of elasticity (bending stiffness) - Raw core materials	2,200 ⁵⁾		N/mm ²	EN 310
Internal bond - Raw core materials	0.55 ⁵⁾		N/mm ²	EN 319
Thickness swell (24 h)	8 ⁵⁾ 10 ⁵⁾		%	EN 317
Durability - Water resistance	≤ 10		%	ISO 13894-1
Resistance to fixings (face)	≥ 1,500		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 VGF

⁴⁾ Classification HGF

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"> Wherever a durable, outstanding surface quality – for profiling and lacquering – is required in conjunction with improved fire protection: For furnishings and installations in sales and recreational facilities, public buildings, special buildings and public areas, also in the trade fair and event sector.
Core material	<ul style="list-style-type: none"> StyleBoard MDF Pyroex Flame resistant, medium-density fibreboard (MDF) in accordance with EN 622-1, with uniform structure and outstanding surface stability.
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.

Technical data

Duropal Element MDF Pyroex

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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