

## Technical data

### Duropal Element P3

Flat bonded element of a moisture-resistant particleboard construction, Type P3 to EN 312, faced on both sides with Duropal HPL.

#### Applications



Furniture and interior fitting

#### Properties



Decorative variety



Easy care



Antimicrobial



Food harmless



Low swelling / moisture resistant

#### Certificates



Specification					Unit	Test standard
Nominal thickness	17.6	19.6	20.6	39.6	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 <sup>1)</sup> max. 10 <sup>2)</sup>				mm <sup>2</sup> /m <sup>2</sup> mm/m <sup>2</sup>	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				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 <sup>3)</sup> min. 150 <sup>4)</sup>				cycles	EN 438-2:2016
Resistance to scratching (smooth finishes) - HPL	min. 1 <sup>3)</sup> min. 2 <sup>4)</sup>				rating	EN 438-2:2016

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Nominal thickness	17.6	19.6	20.6	39.6	mm	
HPL-thickness in mm	0.8	0.8	0.8	0.8	mm	
Resistance to scratching (textured finishes) - HPL	min. 2 <sup>3)</sup> min. 3 <sup>4)</sup>				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					EN 13501-1, CWFT acc. to 2003/593/EG
Formaldehyde emission class	E1 E05					EN 717-1
Mean density	690 - 680 <sup>5)</sup>	690 - 680 <sup>5)</sup>	690 - 680 <sup>5)</sup>	< 640 <sup>5)</sup>	kg/m <sup>3</sup>	EN 323
Bending strength - Raw core materials	14 <sup>5)</sup>	14 <sup>5)</sup>	14 <sup>5)</sup>	9 <sup>5)</sup>	N/mm <sup>2</sup>	EN 310
Modulus of elasticity (bending stiffness) - Raw core materials	1,950 <sup>5)</sup>	1,950 <sup>5)</sup>	1,950 <sup>5)</sup>	1,550 <sup>5)</sup>	N/mm <sup>2</sup>	EN 310
Internal bond - Raw core materials	0.45 <sup>5)</sup>	0.45 <sup>5)</sup>	0.45 <sup>5)</sup>	0.3 <sup>5)</sup>	N/mm <sup>2</sup>	EN 319
Thickness swell (24 h)	14 <sup>5)</sup>	14 <sup>5)</sup>	14 <sup>5)</sup>	12 <sup>5)</sup>	%	EN 317
Durability - Water resistance	≤ 12				%	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 <sup>2</sup>	ISO 13894-1 EN 13894-1
Flexural tensile strength	≥ 1				N/mm <sup>2</sup>	ISO 13894-1
Durability - Glue-line quality	≥ 3				rating	ISO 13894-1
Durability - Resistance to elevated temperature	no effect					ISO 13894-1

<sup>1)</sup> Dirt, spots and similar surface defects

<sup>2)</sup> Fibres, hairs and scratches

<sup>3)</sup> Classification VGP

<sup>4)</sup> Classification HGP

<sup>5)</sup> Core material

#### Additional information

Product standard	<ul style="list-style-type: none"> <li>EN 13894-1</li> </ul>
Areas of application	<ul style="list-style-type: none"> <li>Ideal for surfaces in furniture production and interior fitting where exceptional sturdiness and moisture resistance is required: For kitchen and bathroom furniture, elements in sanitary areas, in shop fitting and interior design construction, in clinics and laboratories plus workplaces such as in the foodstuffs processing industry.</li> </ul>
Core material	<ul style="list-style-type: none"> <li>ClassicBoard P3</li> <li>Melamine resin bonded particleboard, type P3 in accordance with EN 312, suitable for non load-bearing purposes in damp areas.</li> </ul>
Product safety	<ul style="list-style-type: none"> <li>This product follows the REACH regulation EC 1907/2006 an article. Following Article 7 it does not need to be registered.</li> <li>The surface is physiologically safe, and approved for direct contact with food acc. to Regulation (EU) No. 10/2011.</li> </ul>

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Antimicrobial effect	<ul style="list-style-type: none"> <li>Surface with antimicrobial effect in 24h for interior fit-out and finishes - Test Methodology JIS Z 2801 / ISO 22196</li> </ul>
Special	<ul style="list-style-type: none"> <li>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.</li> <li>Holoheedral 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.</li> <li>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.</li> <li>The coarser the structure and the lighter the decor, the greater the scratch resistance.</li> <li>The smoother the structure and the the darker the decor, the more sensitive it is to stains.</li> <li>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.</li> <li>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.</li> </ul>
Note	<ul style="list-style-type: none"> <li>FSC certification or PEFC certification available on request.</li> <li>FSC license code: FSC® C011773</li> <li>PEFC license code: PEFC/04-32-0828</li> </ul>
Colour and surface match	<ul style="list-style-type: none"> <li>Decor, structure and core board all influence the final appearance of the end product.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ul>

Further information on products, formats and decor/structure combinations is available at [www.pfleiderer.com](http://www.pfleiderer.com)

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