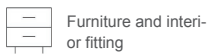


Technical data

Duropal Element P2 ESA

Electrostatically dissipative flat bonded element of an ESA chipboard faced on both sides with durable Duropal HPL ESA.

Applications



Furniture and interior fitting

Properties



Easy care



Electrostatically dissipative

Certificates



Specification			Unit	Test standard
Nominal thickness	20.6	39.6	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 ± 10		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		mm/m	ISO 13894-1
Flatness (width)	≤ 2		mm/m	ISO 13894-1
Resistance to wet heat, 100 °C (textured finishes) - HPL	min. 4		rating	EN 438-2:2016
Resistance to dry heat, 160 °C (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 (textured finishes) - HPL	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		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			

Technical data

Duropal Element P2 ESA

Specification			Unit	Test standard
Nominal thickness	20.6	39.6	mm	
HPL-thickness in mm	0.8	0.8	mm	
Reaction to fire (Euroclass)	D-s2,d0	not classified		EN 13501-1, CWFT acc. to 2003/593/EG
Volume resistance R_D	1 x 10 ⁻¹ - 1 x 10 ¹⁰ Ohm ⁵⁾			EN 61340-5-1
Formaldehyde emission class	E1 E05			EN 717-1
Mean density	640 - 620 ⁶⁾	580 - 540 ⁶⁾	kg/m ³	EN 323
Bending strength - Raw core materials	11 ⁶⁾	8.5 ⁶⁾	N/mm ²	EN 310
Modulus of elasticity (bending stiffness) - Raw core materials	1,600 ⁶⁾	1,200 ⁶⁾	N/mm ²	EN 310
Internal bond - Raw core materials	0.35 ⁶⁾	0.2 ⁶⁾	N/mm ²	EN 319
Surface soundness - Raw core materials	0.8 ⁶⁾		N/mm ²	EN 311
Durability - Water resistance	≤ 15		%	ISO 13894-1
Resistance to fixings (face)	≥ 1,500		N	ISO 13894-1
Resistance to fixings (edge)	≥ 500		N	ISO 13894-1
Bonding strength	≥ 0.6		N/mm ²	ISO 13894-1
Flexural tensile strength	≥ 0.6		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⁾ measured dry, measurement voltage 100 V DC, cylindrical electrode, 20-30 °C and 20-50% rel. humidity (96 h conditioning)

⁶⁾ Core material

Technical data

Duropal Element P2 ESA

Additional information

Product standard	<ul style="list-style-type: none"> EN 13894-1
Areas of application	<ul style="list-style-type: none"> The products from our ESA system are indispensable wherever electrostatic charges are to be prevented. The conductive constituents in the core plate and facing ensure a reliable and simple earthing possibility for furniture components and worktops in ESD areas, on production and assembly lines, in laboratories or central control rooms.
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.
Special	<ul style="list-style-type: none"> Available in design W10140 (Span 140) and U12188 (U1188). The coarser the structure and the lighter the decor, the greater the scratch resistance. The smoother the structure and the the darker the decor, the more sensitive it is to stains. 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. 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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