

Technical data

FormBoard P5 HD / plus

HPL bonded board consisting of a particleboard type P5 to EN 312, for load-bearing purposes to use in damp areas, surfaced on both sides with Duropal Thin laminate, which has a film weight of approx. 500 g/m² per side due to a special impregnation.



Applications



Formwork construction

Properties



Low swelling / moisture resistant



Load-bearing



Direction-free application

Certificates



Specification		Unit	Test standard
Nominal thickness	21.2	mm	
HPL-thickness	0.35	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	does not comply with the optical requirements of EN 438		
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 (other finishes) – HPL	min. 4	rating	EN 438-2
Resistance to dry heat, 160 °C (other finishes) – HPL	min. 4	rating	EN 438-2
Resistance to water vapour (other finishes) – HPL	min. 4	rating	EN 438-2
Resistance to surface wear – HPL	min. 50	cycles	EN 438-2
Resistance to scratching (smooth finishes) – HPL	min. 1	rating	EN 438-2
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	670 ¹⁾	kg/m ³	EN 323
Bending strength	35	N/mm ²	EN 310
Modulus of elasticity (bending stiffness)	5,500	N/mm ²	EN 310

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Specification		Unit	Test standard
Nominal thickness	21.2	mm	
HPL-thickness	0.35	mm	
Internal bond	0.4 ¹⁾	N/mm ²	EN 319
Internal bond after boil test	0.12 ¹⁾	N/mm ²	EN 1087-1
Thickness swell (24 h)	4	%	EN 317
Resistance to fixings (face)	≥ 1,000	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		EN 438-7

¹⁾ Core material

Additional information

Product standard	<ul style="list-style-type: none"> EN 13894-1
Areas of application	<ul style="list-style-type: none"> The FormBoard P5 HD / plus is suitable for multiple uses in formwork construction due to the moisture-resistant gluing and the robust Dupopal thin laminate coating. Special impregnation of the thin laminate with a film weight of approx. 500g/m² per side ensures that the setting behaviour of the concrete is not adversely influenced and an optimum result is achieved.
Core material	<ul style="list-style-type: none"> PremiumBoard P5 Wood particleboard type P5 in accordance with EN 312, for structural purposes for use in humid conditions.
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. We manufacture the panels without the use of halogens, heavy metals, preservatives, wood protectors or organic solvents.
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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Pfleiderer Deutschland GmbH

Ingolstädter Str. 51
92318 Neumarkt
Germany

phone +49 (0) 91 81 28 48 0
Fax +49 (0) 91 81 28 48 2
info@pfleiderer.com
www.pfleiderer.com