DUROPAL | thermopal

PFLEIDERER

November 2025

Technical data

DeepFlow V100Ä F**** ENF

Emission-reduced Premium decor faced chipboard with deep surface textures, improved swelling resistance and melamine facing on both sides, awarded with the Blue Angel.

Applications

- Furniture and interior fitting

Properties

- Easy care
- Antimicrobial
- Low swelling / moisture resistant
- Particularly low emission

Certificates

Specification							Unit	Test standard
Nominal thickness	**10**	**16**	**18**	**19**	**25**	**28**	**mm**	
Tolerance on thickness	±0.3 for class 1, 2 +0.5/-0.3 for class 3A, 3B, 4 and gloss surfaces	±0.3 for class 1, 2 +0.5/-0.3 for class 3A, 3B, 4 and gloss surfaces	±0.3 for class 1, 2 +0.5/-0.3 for class 3A, 3B, 4 and gloss surfaces	±0.3 for class 1, 2 +0.5/-0.3 for class 3A, 3B, 4 and gloss surfaces	±0,5	±0,5	mm	EN 14323
Length- and width tolerance	± 5						mm	EN 14323
Length- and width tolerance (pre-cut panels)	± 2.5						mm	EN 14323
Flatness		≤ 2 [1)]	≤ 2 [1)]	≤ 2 [1)]	≤ 2 [1)]	≤ 2 [1)]	mm/m	EN 14323
Edge damage	≤ 10						mm	EN 14323
Edge damage (pre-cut panels)	≤ 3						mm	EN 14323
Surface defects (Points)	≤ 2						mm²/m²	EN 14323
Surface defects (Defect in the length)	≤ 20						mm/m	EN 14323
Resistance to scratching	≥ 1.5 [2)]						N	EN 14323
Resistance to staining	≥ 3						Rating	EN 14323
Resistance to cracking	≥ 3						Rating	EN 14323
Resistance to abrasion (plain colours)	3A						Class	EN 14323
Resistance to abrasion (printed designs)	1						Class	EN 14323
Resistance to colour change in xenon arc light	min. 4 Grey Scale Grade							EN 14323
Mean density	720 - 640 [3)]	640 - 620 [3)]	640 - 620 [3)]	640 - 620 [3)]	620 - 600 [3)]	600 - 590 [3)]	kg/m³	EN 323
Bending strength	15 [3)]	14 [3)]	14 [3)]	14 [3)]	12 [3)]	11 [3)]	N/mm²	EN 310
Bending modulus of elasticity	2,050 [3)]	1,950 [3)]	1,950 [3)]	1,950 [3)]	1,850 [3)]	1,700 [3)]	N/mm²	EN 310
Internal bond	0.45 [3)]	0.45 [3)]	0.45 [3)]	0.45 [3)]	0.4 [3)]	0.35 [3)]	N/mm²	EN 319
Thickness swell (24 h)	17 [3)]	14 [3)]	14 [3)]	14 [3)]	13 [3)]	13 [3)]	%	EN 317

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Specification							Unit	Test standard
Nominal thickness	**10**	**16**	**18**	**19**	**25**	**28**	**mm**	
Resistance to axial withdrawl of screws from face	≥ 900 [3]						N	EN 320
Resistance to axial withdrawl of screws from edge		≥ 600 [3]	≥ 600 [3]	≥ 600 [3]	≥ 600 [3]	≥ 600 [3]	N	EN 320
Formaldehyde release	F**** ENF, E1 E05							
Reaction to fire (Euroclass)	D-s2,d0 conforming to EN 13986 dependent on end use (Thickness: ≥ 9 mm / Gross density: ≥ 600 kg/m³)							

[1] If symmetrical construction
[2] Except smooth and matt structures, as well as decors with mother-of-pearl effect
[3] Core material

Additional information

Product standard	• EN 14322
Areas of application	• Pollutant-reduced integrated solutions for interior fitting and furniture in both private and public premises, such as hotels, schools, offices and administration buildings, especially when materials with exceptionally low emission potential and higher moisture resistance are required.
Core material	• ClassicBoard V100 Ä F**** ENF • Urea resin bonded furniture board with very low emission value and reduced thickness swelling conforming to EN 312, suitable for non-load bearing use in humid conditions.
Product safety	• 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 organohalogens, heavy metals, preservatives, wood protectors or organic solvents.
Antimicrobial effect	• Surface with antimicrobial effect in 24 h for interior fit-out and finishes – Test Methodology JIS Z 2801 / ISO 22196
Resistance to heat	• Heat sources (e.g. coffee machines, printers, fax machines, etc.) should not come into direct contact with the board, otherwise cracks may form due to drying out. For continuous exposure to heat, temperatures of up to 50°C are permissible. In the case of permanent exposure to heat, we expressly draw attention to the risk of cracking.
Special	• A protective foil must be removed as soon as possible after processing – but at the latest within 6 months after delivery – to ensure residue-free removal of the foil. In addition, foiled boards must not be exposed to direct sunlight (UV radiation).
Note	• FSC certification or PEFC certification available on request. • FSC license code: FSC® C011773 • PEFC license code: PEFC/04-32-0828
Colour and surface match	• 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.

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

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