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PFLEIDERER

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Technical data

PerformBoard Pyroex Bfl P4

Melamine-faced, flame-retardant particleboard on both sides, type P4 in accordance with DIN EN 312, for load-bearing applications in dry conditions. The top surface with AC4 overlay is available with an R10 or R12 slip-resistant finish; the underside has a white coating.



Applications

Fire protection

Storage technology

Properties

Antimicrobial

Slip-resistant

Flame retardant

Load-bearing

Direction-free application

Certificates

Specification		Unit	Test standard
Nominal thickness	**38**	**mm**	
Tolerance on thickness	±0,5	mm	EN 14323
Flatness	≤ 2 [1)]	mm/m	EN 14323
Straightness of edges	1.5	mm/m	EN 324-2
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/m²	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)	AC4	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	620 - 600 [3)]	kg/m³	EN 323
Density tolerance	± 10 [3)]	%	EN 323
Bending strength	9 [3)]	N/mm²	EN 310
Bending modulus of elasticity	1,500 [3)]	N/mm²	EN 310
Internal bond	0.2 [3)]	N/mm²	EN 319
Thickness swell (24 h)	14 [3)]	%	EN 317
Formaldehyde release	E1 E05		

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Specification		Unit	Test standard
Nominal thickness	**38**	**mm**	
Reaction to fire (Euroclass)	B-s1,d0 [4]		EN 13501-1
Fire behavior of floor coverings	B_{fl} - s1		EN 13501-1
Reaction to fire	flame retardant		

[1] If symmetrical construction
[2] Except smooth and matt structures, as well as decors with mother-of-pearl effect
[3] Core material
[4] PerformBoard Pyroex fulfills the additional specifications 'lowest smoke emission' and 'no burning droplets' and thus the highest building authority requirements for flame retardant building materials according to EN 13501-1.

Additional information

Product standard	• EN 14322
Areas of application	• PerformBoard Pyroex Bfl P4 is a load-bearing particleboard treated with flame retardants and faced with melamine resin on both sides. The special formulation of the raw particleboard reduces the burn-through rate and, in combination with the high-quality facing, achieves a reaction-to-fire classification of Bfl-s1 in accordance with DIN EN 13501-1. This makes the board ideally suited for mezzanine floors subject to very stringent fire protection requirements. The easy-to-clean, abrasion-resistant top surface with AC4 overlay is available in either slip-resistance class R10 or R12. This allows order-picking trolleys and pallet trucks to be used for manoeuvring goods without restriction.
Core material	• PerformBoard raw Pyroex Dfl P4 • Wood particleboard type P4 in accordance with EN 312, for structural purposes for use in dry conditions, flame resistant.
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
Processing instructions	• The fire retardant additives and colourants contained in the support can create deposits on tools and therefore reduce their durability. • The adhesion of glues can be reduced in exceptional cases. • Thick and thin edges are suitable.
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.
General technical information	• Tolerances according to DIN EN 312, Table 1

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

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