

Declaration of Performance - Ref.No 4150

acc. to REGULATION (EU) No 305/2011 Article 4

1. Identification code of product-type	PremiumBoard P4 - 4150
2. Intended use	Load-bearing boards for use in dry conditions.
3. Manufacturer	Pfleiderer Deutschland GmbH, Ingolstädter Str. 51, D-92318 Neumarkt
4. Authorised representative	not relevant
5. System of assessment and verification	System 2+
6. Assessment of performance	not relevant
7. European Technical Assessment	not relevant

8. Declared performance

Essential characteristics/main features	Unit	Thickness								Harmonised technical specification
		≤ 8.9 mm	> 8.9 mm to ≤ 10 mm	> 10 mm to ≤ 13 mm	> 13 mm to ≤ 20 mm	> 20 mm to ≤ 25 mm	> 25 mm to ≤ 32 mm	> 32 mm to ≤ 40 mm	> 40 mm	
		Declared performance								EN 13986:2004 +A1:2015
Strength, tension (ft)	N/mm ²	8.9			7.9	6.9	6.1	5.0	4.4	
Strength, compression (fc)	N/mm ²	12.0			11.1	9.6	6.1	7.6	6.1	
Strength, bending (fm)	N/mm ²	14.2			12.5	10.8	9.2	7.5		
Stiffness, panel shear (fv)	N/mm ²	6.6			6.1	5.5	4.8	4.4	4.2	
Stiffness, planar shear (fr)	N/mm ²	1.8			1.6	1.4	1.2	1.1	1.0	
Punching shear as point load strenght		NPD								
Punching shear as point load stiffness		NPD								
Racking resistance		NPD								
Impact resistance		NPD								
Reaction to fire		E	D-s2,d0 according to EN 13986 dependent on end use (Thickness: ≥ 9 mm / Gross density: ≥ 600 kg/m ³)							
Water vapour permeability, wet cup μ		15								
Water vapour permeability, dry cup μ		50								
Class, formaldehyde release		E1 E05								
Release (Content), pentachlorophenol (PCP)	mg/kg	< 3								
Airborne sound insulation (surface mass)		NPD								
Sound Absorption frequency range 250 Hz to 500 Hz		0.1								
Sound Absorption frequency range 1000 Hz to 2000 Hz		0.25								
Thermal conductivity (density)	W/(mK)	0.12								
Embedment strength		NPD								
Air permeability		NPD								
Internal bond	N/mm ²	0.4			0.35	0.3	0.25	0.2		
Swelling in thickness, 24 h	%	19	16	15				14		
Internal bond after boil test		NPD								
Factor of modification (kmod)		NPD								
Factor of distortion (kdef)		NPD								

9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer by:

Date of issue: 2022-01-11

i. V. Claus Seemann
Head of productmanagement core materials
(Document was created electronically and is therefore valid without signature!)

NPD: performance not defined