

Declaration of Performance - Ref.No 5165

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

1. Identification code of product-type	PremiumBoard P5 - 5165
2. Intended use	Load-bearing wood-based panels for use in humid 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	The notified body Fraunhofer-Institut für Holzforschung Wilhelm-Klauditz-Institut WKI, Bienroder Weg 54 E, 38108 Braunschweig, Deutschland has issued the certificate 0765-CPR-1257 (P5) about the product conformity according system 2+ based on the following: The certificate confirms, that all provisions concerning assessment and surveillance of the continuous performance described in annex ZA of the harmonized standard EN 13986:2004+A1:2015 according system 2+ are applied and that the factory production control fulfills all in it stipulated requirements.
7. European Technical Assessment	not relevant

8. Declared performance

Essential characteristics/main features	Thickness	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								
Strength, tension (ft)	N/mm ²		9.4	9.4	9.4	8.5	7.4	6.6	5.6	5.6	EN 13986:2004 +A1:2015
Strength, compression (fc)	N/mm ²		12.7	12.7	12.7	11.8	10.3	9.8	8.5	7.8	
Strength, bending (fm)	N/mm ²		15.0	15.0	15.0	13.3	11.7	10.0	8.3	7.5	
Stiffness, panel shear (fv)	N/mm ²		7.0	7.0	7.0	6.5	5.9	5.2	4.8	4.4	
Stiffness, planar shear (fr)	N/mm ²		1.9	1.9	1.9	1.7	1.5	1.3	1.2	1.0	
Punching shear as point load strenght			NPD								
Punching shear as point load stiffness			NPD								
Racking resistance			NPD								
Impact resistance			NPD								
Water vapour permeability, wet cup μ			15								
Water vapour permeability, dry cup μ			50								
Class, formaldehyde release			E1								
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		0.45	0.45	0.45	0.45	0.4	0.35	0.3	0.25	
Swelling in thickness, 24 h	%		13	13	11	10	10	10	9	9	
Internal bond after boil test	N/mm ²		0.15	0.15	0.15	0.14	0.12	0.11	0.1	0.09	
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: 2019-03-06

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