DECLARATION OF PERFORMANCE

DoP Reference Number: - **NP5_UKCA_DoPv2**

West Fraser Europe Ltd

Station Road

Cowie

Stirling

FK7 7BQ

Unique Identification code of the product type*	Intended Use	Systems of AVCP	Approved Body	Designated standard
P5 >6mm to 40mm*	Internal use as structural components in humid conditions	2+	1224	EN13986:2004 +A1:2015
*The unique identification code of the product type is a combination of the technical class and the individual product's nominal thickness				

Declared performance (covering a range of product-types P5 >6mm to 40mm*)

Essential characteristics	Performance							
	Thickness(mm)							
	>6 to 10	>10 to 13	>13 to 20	>20 to 25	>25 to 32	>32 to 40	18 T&G 400mm centres	22 T&G 600mm centres
[1]Characteristic Strength (N/mm²)								
- Bending f_m	15.0	15.0	13.3	11.7	10.0	8.3	13.3	11.7
- Compression f_c	12.7	12.7	11.8	10.3	9.8	8.5	11.8	10.3
- Tension f_t	9.4	9.4	8.5	7.4	6.6	5.6	8.5	7.4
- Panel Shear f_v	7.0	7.0	6.5	5.9	5.2	4.8	6.5	5.9
- Planar shear f_r	1.9	1.9	1.7	1.5	1.3	1.2	1.7	1.5
[1]Mean Stiffness (MOE) (N/mm²)								
- Tension E_t	2000	2000	1900	1800	1500	1400	1900	1800
- Compression E_c	2000	2000	1900	1800	1500	1400	1900	1800
- Bending E_m	3500	3500	3300	3000	2600	2400	3300	3000
- Panel Shear G_v	960	960	930	860	750	690	930	860
Punching Shear Characteristic strength under point load $F_{max,k}$ (kN) *(for floors and roofs)*	NPD	NPD	NPD	NPD	NPD	NPD	5.4	5.4
Punching Shear Mean stiffness under point load, R_{mean} (N/mm) *(for floors and roofs)*	NPD	NPD	NPD	NPD	NPD	NPD	840	560
Racking resistance *(for walls)* Characteristic Strength $F_{Rd,max,k}$ (N)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Racking resistance *(for walls)* Mean Stiffness R_{mean} (N/mm)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Soft Body Impact resistance Floor/roofs Walls	NPD	NPD	NPD	NPD	NPD	NPD	Impact Class 1 Pass Floor	Impact Class 1 Pass Floor
Embedment strength f_h (N/mm2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD

		Minimum thickness	Class (excluding floorings)[g]	Class (Flooring)[h]
[2]Reaction to fire **(see notes to table for field of application details and associated documentation references)** -	**Without an air gap behind the panel [abef]**	9	D-s2,d0	D_{fl},s1
	With a closed or open air gap ≤ 22mm behind the panel [cef]	9	D-s2,d2	-
	Closed air gap behind the panel [def]	15	D-s2,d0	D_{fl},s1
	With an open air gap behind the panel [def]	18	D-s2,d0	D_{fl},s1
	Any end use [ef]	3	E	E_{fl}
	a -Mounted without an air gap directly against class A1 or A2-s1, d0 products with minimum density 10kg/m3 or at least class D-s2, d2 products with minimum density 400 kg/m3. b -A substrate of cellulose insulation material of at least class E may be included if mounted directly against the wood-based panel, but not for floorings. c -Mounted with an air gap behind. The reverse face of the cavity shall be at least class A2-s1, d0 products with minimum density 10 kg/m3. d -Mounted with an air gap behind. The reverse face of the cavity shall be at least class D-s2, d2 products with minimum density 400 kg/m3. e -Veneered, phenol- and melamine-faced panels are included for class excl. floorings. f -A vapour barrier with a thickness up to 0,4 mm and a mass up to 200 g/m^2 can be mounted in between the wood-based panel and a substrate if there are no air gaps in between. g -Class Provided for in Table 1 of the Annex to decision 2000/147/EC h -Class Provided for in Table 2 of the Annex to decision 2000/147/EC			

	>6 to 10	**>10 to 13**	**>13 to 20**	**>20 to 25**	**>25 to 32**	**>32 to 40**	**18 T&G 400 centres**	**22 T&G 600 centres**
Water vapour permeability μ	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Release of formaldehyde	E1	E1	E1	E1	E1	E1	E1	E1
Release (content) of pentachlorophenol (PCP)	≤5ppm	≤5ppm	≤5ppm	≤5ppm	≤5ppm	≤5ppm	≤5ppm	≤5ppm
Airborne sound insulation (surface mass) R (dB)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
[3]Sound absorption Frequency range 250Hz to 500Hz **(α)**	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
[3]Sound absorption Frequency range 1000Hz to 2000Hz **(α)**	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Thermal conductivity λ (W/m.K)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Air Permeability V_0 (m3/h)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Durability								
Internal bond (N/mm^2)	0.45	0.45	0.45	0.40	0.35	0.30	0.45	0.40
Swelling in thickness (%)	13	11	10	10	10	9	10	10
Internal bond after cyclic test (N/mm^2)	0.25	0.25	0.22	0.20	0.17	0.15	0.22	0.20
Swelling in thickness after cyclic test (%)	12	12	12	11	10	9	12	11
[4]Mechanical (Creep k_{def}) **service class 1**	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
[4]Mechanical (Creep k_{def}) **service class 2**	3	3	3	3	3	3	3	3

Mechanical (Duration of Load, k_{mod})	Action Mode				
	Permanent	Long Term	Medium Term	Short Term	Instantaneous
[4]Service Class 1	0.30	0.45	0.65	0.85	1.10
[4]Service Class 2	0.20	0.30	0.45	0.60	0.80
Biological	**Use classes 1 & 2**				

NOTES TO TABLE

1 Taken from EN 12369-1:2001

2 reaction to fire classes from Table 1 of Commission Decision 2003/43/EC of January 2003 (OJEU L13 of 18.1.2003) corrected by Corrigendum (OJEU L33 of 8.2.2003) and amended by Commission decision 2007/348/EC of May 2007 (OJEU L131 of 23-05-2007); also reproduced in Table three of EN 13986:2004+A1:2015 for wood-based panels installed according to CEN/TR 12872

3 Taken from Table 10 of EN 13986:2004+A1:2015

4 Taken from Eurocode 5 EN 1995-1-1 2004+A2:2014

The performance of the product identified is in conformity with the declared performance.

This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011 as it has effect in the United Kingdom in respect of Great Britain, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

John Robb

At: - Cowie, Scotland On: - 03-07-2023