

**DECLARATION OF PERFORMANCE**  
DoP Reference Number: - NP5DoPv7  
**West Fraser Europe Ltd**  
**Station Road**  
**Cowie**  
**Stirling**  
**FK7 7BQ**

Unique Identification code of the product type*	Intended Use	Systems of AVCP	Notified Body	Harmonised standard
P5 >6mm to 40mm*	Internal use as structural components in humid conditions	2+	2812	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
<sup>1</sup> Characteristic Strength (N/mm <sup>2</sup> )								
- 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
<sup>1</sup> Mean Stiffness (MOE) (N/mm <sup>2</sup> )								
- 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) <i>(for floors and roofs)</i>	NPD	NPD	NPD	NPD	NPD	NPD	5.4	5.4
Punching Shear Mean stiffness under point load, $R_{mean}$ (N/mm) <i>(for floors and roofs)</i>	NPD	NPD	NPD	NPD	NPD	NPD	840	560
Racking resistance <i>(for walls)</i> Characteristic Strength $F_{Rd,max,k}$ (N)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Racking resistance <i>(for walls)</i> 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/mm <sup>2</sup> )	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD

<b><sup>2</sup>Reaction to fire</b>  (see notes to table for field of application details and associated documentation references)		Minimum thickness	Class (excluding floorings) <sup>g</sup>	Class (Flooring) <sup>h</sup>
	<b>Without an air gap behind the panel</b> <sup>abef</sup>	9	D-s2,d0	D <sub>fi</sub> ,s1
	<b>With a closed or open air gap ≤ 22mm behind the panel</b> <sup>cef</sup>	9	D-s2,d2	-
	<b>Closed air gap behind the panel</b> <sup>def</sup>	15	D-s2,d0	D <sub>fi</sub> ,s1
	<b>With an open air gap behind the panel</b> <sup>def</sup>	18	D-s2,d0	D <sub>fi</sub> ,s1
	<b>Any end use</b> <sup>ef</sup>	3	E	E <sub>fl</sub>
<p>a -Mounted without an air gap directly against class A1 or A2-s1, d0 products with minimum density 10kg/m<sup>3</sup> or at least class D-s2, d2 products with minimum density 400 kg/m<sup>3</sup>.</p> <p>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.</p> <p>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/m<sup>3</sup>.</p> <p>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/m<sup>3</sup>.</p> <p>e -Veneered, phenol- and melamine-faced panels are included for class excl. floorings.</p> <p>f -A vapour barrier with a thickness up to 0,4 mm and a mass up to 200 g/m<sup>2</sup> can be mounted in between the wood-based panel and a substrate if there are no air gaps in between.</p> <p>g -Class Provided for in Table 1 of the Annex to decision 2000/147/EC</p> <p>h -Class Provided for in Table 2 of the Annex to decision 2000/147/EC</p>				

	>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
<b>Water vapour permeability μ</b>	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
<b>Release of formaldehyde</b>	E1	E1	E1	E1	E1	E1	E1	E1
<b>Release (content) of pentachlorophenol (PCP)</b>	≤5ppm	≤5ppm	≤5ppm	≤5ppm	≤5ppm	≤5ppm	≤5ppm	≤5ppm
<b>Airborne sound insulation (surface mass) R (dB)</b>	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
<b><sup>3</sup>Sound absorption</b> Frequency range 250Hz to 500Hz (α)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<b><sup>3</sup>Sound absorption</b> Frequency range 1000Hz to 2000Hz (α)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
<b>Thermal conductivity λ (W/m.K)</b>	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
<b>Air Permeability V<sub>0</sub> (m<sup>3</sup>/h)</b>	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
<b>Durability</b>								
<b>Internal bond (N/mm<sup>2</sup>)</b>	0.45	0.45	0.45	0.40	0.35	0.30	0.45	0.40
<b>Swelling in thickness (%)</b>	13	11	10	10	10	9	10	10
<b>Internal bond after cyclic test (N/mm<sup>2</sup>)</b>	0.25	0.25	0.22	0.20	0.17	0.15	0.22	0.20
<b>Swelling in thickness after cyclic test (%)</b>	12	12	12	11	10	9	12	11
<b><sup>4</sup>Mechanical</b> (Creep k <sub>def</sub> ) <b>service class 1</b>	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
<b><sup>4</sup>Mechanical</b> (Creep k <sub>def</sub> ) <b>service class 2</b>	3	3	3	3	3	3	3	3

Mechanical (Duration of Load, $k_{mod}$ )	Action Mode				
	Permanent	Long Term	Medium Term	Short Term	Instantaneous
<sup>4</sup> Service Class 1	0.30	0.45	0.65	0.85	1.10
<sup>4</sup> 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, 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