

DECLARATION OF PERFORMANCE
DoP Reference Number: - **NP4DoPv7**
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
P4 >10mm to 40mm*	Internal use as structural components in dry 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 P4 >10mm to 40mm*)

Essential characteristics	Performance					
	Thickness(mm)					
	>10 to 13	>13 to 20	>20 to 25	>25 to 32	>32 to 40	18 T&G 400mm centres
¹ Characteristic Strength (N/mm ²)						
- Bending f_m	14.2	12.5	10.8	9.2	7.5	12.5
- Compression f_c	12	11.1	9.6	9.0	7.6	11.1
- Tension f_t	8.9	7.9	6.9	6.1	5.0	7.9
- Panel Shear f_v	6.6	6.1	5.5	4.8	4.4	6.1
- Planar shear f_r	1.8	1.6	1.4	1.2	1.1	1.6
¹ Mean Stiffness (MOE) (N/mm ²)						
- Tension E_t	1800	1700	1600	1400	1200	1700
- Compression E_c	1800	1700	1600	1400	1200	1700
- Bending E_m	3200	2900	2700	2400	2100	2900
- Panel Shear G_v	860	830	770	680	600	830
Punching Shear Characteristic strength under point load $F_{max,k}$ (kN) <i>(for floors and roofs)</i>	NPD	NPD	NPD	NPD	NPD	5.4
Punching Shear Mean stiffness under point load, R_{mean} (N/mm) <i>(for floors and roofs)</i>	NPD	NPD	NPD	NPD	NPD	840
Racking resistance <i>(for walls)</i> Characteristic Strength $F_{Rd,max,k}$ (N)	NPD	NPD	NPD	NPD	NPD	NPD
Racking resistance <i>(for walls)</i> Mean Stiffness R_{mean} (N/mm)	NPD	NPD	NPD	NPD	NPD	NPD
Soft Body Impact resistance Floor/roofs Walls	NPD	NPD	NPD	NPD	NPD	Impact Class 1 Pass Floor
Embedment strength f_h (N/mm ²)	NPD	NPD	NPD	NPD	NPD	NPD

² Reaction to fire (see notes to table for field of application details and associated documentation references)		Minimum thickness	Class (excluding floorings) ^g	Class (Flooring) ^h
	Without an air gap behind the panel ^{abef}	9	D-s2,d0	D _{fi} ,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 _{fi} ,s1
	With an open air gap behind the panel ^{def}	18	D-s2,d0	D _{fi} ,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/m ³ or at least class D-s2, d2 products with minimum density 400 kg/m ³ . 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/m ³ . 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 ³ . 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			

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

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

Two handwritten signatures in blue ink, one on the left and one on the right, positioned below the text 'Signed for and on behalf of the manufacturer by: John Robb'.