

## DECLARATION OF PERFORMANCE

DoP Reference Number: - WFSMP4LPDOPv5

**West Fraser Europe Limited**

**Hill Village**

**South Molton**

**Devon**

**EX6 4HP**

Unique Identification code of the product type*	Intended Use	Systems of AVCP	Approved Body	Designated standard
P4 18mm*	Internal use as structural components in dry conditions	2+	0502	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 P4 18mm\*)

Essential characteristics	Performance
	<b>Thickness(mm)</b>
	<b>18mm 1200x0300mm T&amp;G 2 edges</b>
<sup>1</sup> Characteristic Strength (N/mm <sup>2</sup> )	
- Bending $f_m$	12.5
- Compression $f_c$	11.1
- Tension $f_t$	7.9
- Panel Shear $f_v$	6.1
- Planar shear $f_r$	1.6
<sup>1</sup> Mean Stiffness (MOE) (N/mm <sup>2</sup> )	
- Tension $E_t$	1700
- Compression $E_c$	1700
- Bending $E_m$	2900
- Panel Shear $G_v$	830
<b>Punching Shear Characteristic strength under point load <math>F_{max, k}</math> (kN)</b> <i>(for floors and roofs)</i>	NPD
<b>Punching Shear Mean stiffness under point load, <math>R_{mean}</math> (N/mm)</b> <i>(for floors and roofs)</i>	NPD
<b>Racking resistance (for walls)</b> <b>Characteristic Strength <math>F_{Rd, max, k}</math> (N)</b>	NPD
<b>Racking resistance (for walls)</b> <b>Mean Stiffness <math>R_{mean}</math> (N/mm)</b>	NPD
<b>Soft Body Impact resistance</b> <b>Floor/roofs</b> <b>Walls.</b>	NPD
<b>Embedment Strength <math>f_h</math> (N/mm<sup>2</sup>)</b>	NPD

<sup>2</sup> Reaction to fire  (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>fi</sub>
	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> . 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 <sup>3</sup> . 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> . 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 <sup>2</sup> 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			

Water vapour permeability $\mu$	NPD				
Release of formaldehyde	E1				
Release (content) of pentachlorophenol (PCP)	≤5ppm				
Airborne sound insulation (surface mass) R (dB)	NPD				
<sup>3</sup> Sound absorption Frequency range 250Hz to 500Hz ( $\alpha$ )	0.1				
<sup>3</sup> Sound absorption Frequency range 1000Hz to 2000Hz ( $\alpha$ )	0.25				
Thermal conductivity $\lambda$ (W/m.K)	NPD				
Air Permeability $V_0$ (m <sup>3</sup> /h)	NPD				
<b>Durability</b>					
Internal bond (N/mm <sup>2</sup> )	0.35				
Swelling in thickness (%)	15				
<sup>4</sup> Mechanical (creep $k_{def}$ ) Service class 1	2.25				
Mechanical (duration of load $k_{mod}$ )	<b>Action Mode</b>				
	Permanent	Long Term	Medium Term	Short Term	Instantaneous
Service Class 1	<b>0.30</b>	<b>0.45</b>	<b>0.65</b>	<b>0.85</b>	<b>1.1</b>
Biological	<b>Use classes 1</b>				

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:

Ian Lawrence

At: - South Molton, Devon

On: - 01.11.2022