CE
West Fraser Europe Ltd
Morayhill
Dalcross
Inverness
Scotland
IV2 7JQ
DoP ref: WFOSB3DoPv11
EN 13986:2004+A1:2015
0502
03
E1
OSB3
6mm to 32mm
Structural use in humid conditions

Essential characteristics	Performance													
Thickness range	6 to 10		>10 to <18		18 to 25		>25 to 32		15 T&G 400mm centres		18 T&G 600mm centres		22 T&G 600mm centres	
	0	90	0	90	0	90	0	90	0 - 90		0- 90		0-90	
¹ Characteristic Strength (N/mm ²) - Bending	18.0	9.0	16.4	8.2	14.8	7.4	NPD	NPD	16.4	8.2	14.8	7.4	14.8	7.4
- Compression f _c	15.9	12.9	15.4	12.7	14.8	12.4	NPD	NPD	15.4	12.7	14.8	12.4	14.8	12.4
- Tension f_t	9.9	7.2	9.4	7.0	9.0	6.8	NPD	NPD	9.4	7.0	9.0	6.8	9.0	6.8
- Panel Shear f_{ν}	6.8		6.8		6.8		NPD		6.8		6.8		6.8	
- Planar shear f _r	1.0		1.0		1.0		NPD		1.0		1.0		1.0	
¹ Mean Stiffness values,(MOE) (N/mm ²) - Tension <i>E</i> _t	3800	3000	3800	3000	3800	3000	NPD	NPD	3800	3000	3800	3000	3800	3000
- Tension E _t - Compression E _c	3800	3000	3800	3000	3800	3000	NPD	NPD	3800	3000	3800	3000	3800	3000
- Bending E _m	4930	1980	4930	1980	4930	1980	NPD	NPD	4930	1980	4930	1980	4930	1980
- Panel Shear G _v	1080		1080		1080		NPD		1080		1080		1080	
- Compression E _c	50		50		50		NPD		50		50		50	
Punching Shear Characteristic strength under point load F _{max,k} (kN) (for floors and roofs)	NPD		NPD		NPD		NPD		2.64		4.12		4.96	
Punching Shear Mean stiffness under point load, R (N/mm) (for floors and roofs)	NPD		NPD		NPD		NPD		305		489		770	
Racking resistance(for walls) Characteristic Strength F _{Rd,max,k} (N)	NPD		NPD		NPD		NPD		NPD		NPD		NPD	

³ Sound absorption Frequency range 250Hz to 500Hz (α) ³ Sound absorption Frequency	0.1	0.1	0.1	0.1	0.:	1	0.1	0.1			
Airborne sound insulation (surface mass) R (dB)	NPD	NPD	NPD	NPD	NP	D	NPD	N	PD		
Release (content) of pentachlorophenol (PCP)	≤5ppm	≤5ppm	≤5ppm	≤5ppm	≤5pp	om	≤5ppm	≤5	ppm		
Release of formaldehyde	E1	E1	E1	E1	E1	L	E1	E	1		
Wet (µ)				97							
Dry (μ)				207							
Thickness (mm)				15							
			ermeability (EN								
	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										
	the wood-based panel and a substrate if there are no air gaps in between.										
	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										
				inels are inc	luded for cla	ss excl.	floorings.				
	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.										
	products with minimum density 10 kg/m3.										
-		• •	ehind. The rever	se face of t	he cavity sha	ll be at	least class A	2-s1, d0			
references)			l, but not for flo		, -	-		,	,		
associated documentation			ulation material					ted directly			
(see notes to table for field of application details and			p directly agains 2, d2 products w					num densit	y		
	Any en	d use ^{ef}	3		E			E _{fl}			
² Reaction to fire	With an op behind th		18		D-s2		D _{fl} ,s1				
	pan	el ^{def}	15		D-s2		D _{fl} ,s1				
	Closed air ga	el ^{cef}									
	With a close gap ≤ 22mm	•	9		D-s2	-					
	the pa	nel ^{abef}	9		D-s2		D _{fl} ,s1				
	Without an a	ir can babind	Minimum thi	ckness C	lass (excludi	ng floo	rings) ^g	Class (Floo	ring) ^h		
Embedment strength fh (N/mm2)	NPD	NPD	NPD	NPD	NP	D	NPD	N	PD		
	NPD	NPD	NPD	NPD	Pas Roc		Pass Floor		ass oor		
Floors/Roofs Walls	NDD			NDD	Impact 1		Impact Cla 1		ct Class 1		
Soft Body Impact resistance						- 1			PD		

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