DECLARATION OF PERFORMANCE

Reference number: UKOSB2DoPv1

West Fraser Europe nv Eikelaarstraat 33 3600 Genk Belgium

Unique Identification code of the product type*	Intended Use	Systems of AVCP	UK Approved Body	Designated standard
SterlingOSB zero, OSB2 OSB/2 (EN300) 6mm to 40mm*	Internal use as structural components in dry conditions	2+	0836	EN13986:2004 +A1:2015

Declared performance (covering a range of producttypes OSB/2, 6mm to 40mm*)

Essential characteristics	Performance									
	Thickness range (mm)									
	6 to 10		>10 to <18		18 to 25		>25 to 32		>32 to 40	
	0	90	0	90	0	90	0	90	0	90
¹ Characteristic Strength (N/mm ²):										
- Bending f_m	18.0	9.0	16.4	8.2	14.8	7.4	NPD	NPD	NPD	NPD
- Compression f_c	15.9	12.9	15.4	12.7	14.8	12.4	NPD	NPD	NPD	NPD
- Tension f_t	9.9	7.2	9.4	7.0	9.0	6.8	NPD	NPD	NPD	NPD
- Panel Shear $f_{ u}$	6.	.8	6	.8	6.8		NPD		NPD	
- Planar shear f_r	1.	.0	1	.0	1	.0	NPD		PD	
¹ Mean Stiffness (MOE) (N/mm ²):										
- Tension E _t	3800	3000	3800	3000	3800	3000	NPD	NPD	NPD	NPD
- Compression <i>E_c</i>	3800	3000	3800	3000	3800	3000	NPD	NPD	NPD	NPD
- Bending E _m	4930	1980	4930	1980	4930	1980	NPD	NPD	NPD	NPD
- Panel Shear <i>G_v</i>	10	80	10	80	10	80	NI	PD	NI	PD
- Planar Shear <i>G_r</i>	5	0	5	0	5	0	NI	PD	NI	PD
Punching Shear, Characteristic										
strength under point load F _{max,k} (kN)	NPD		NPD		NPD		NPD		NPD	
(for floors and roofs)										
Punching Shear, Mean stiffness										
under point load, R (N/mm²) (for floors and roofs)	NF	PD	NI	PD	NI	PD	N	PD	NI	PD
Characteristic serviceability strength			-							
under point load F _{Ser,k} (kN)	NPD		NPD		NPD		NPD		NPD	
(for floors and roofs)	NFD		IVID		5		141.5		5	
Soft Body Impact resistance	NPD		NPD		NPD		NPD		NPD	
(Floor/roofs/Walls)	NPD		מאמ		INFU		NPD		INFU	
Racking resistance	NDD		NDD		NDD		NDD		NPD	
Characteristic Strength F _{Rd,max,k} (N) (for walls)	NPD		NPD		NPD		NPD		INFU	
Racking resistance Mean Stiffness R _{mean} (N/mm)	NI		NOS		NPD		NPD		NPD	
(for walls)	INI	ט-	NPD NP			רט	I NI	- ט	INI	- U
⁵ Embedment strength f _h (N/mm²)			(Calculation	according	to EN 199	5-1-1 (8.2	2)		

Water vapour permeability μ	NPD	NPD	NPD	NPD	NPD	
Release of formaldehyde	E1	E1	E1	E1	E1	
Release (content) of pentachlorophenol (PCP)	≤5ppm	≤5ppm	≤5ppm	≤5ppm	≤5ppm	
Airborne sound insulation (surface mass) R (dB)	NPD	NPD	NPD	NPD	NPD	
³ Sound absorption, Frequency range 250Hz to 500Hz (α)	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	
Thermal conductivity λ (W/m.K)	0.13	0.13	0.13	0.13	0.13	
Air Permeability (Δp =50Pa) according to EN 12114, V ₀ (m ³ /h m ²)	NPD	NPD	NPD	NPD	NPD	
		Durability				
Internal bond (N/mm²)	0.34	0.32	0.30	0.29	0.26	
Swelling in thickness (%)	20	20	20	20	20	
⁴ Mechanical, (Creep k _{def}) service class 1	2.25	2.25	2.25	NPD	NPD	
Mechanical (Duration of load k _{mod})	Action Mode					
	Permanent Long Term Medium Term Short Term Insta					
⁴ Service Class 1	0.3	0.45	0.65	0.85	1.1	
Biological	Use class 1					

Thickness range (mm)	6 to 10	>10 to <18	18 to 25	>25 to 32		
Avg. Density (kg/m³)	>= 600					

		Minimum thickness	Class (excluding floorings) ^g	Class (Flooring) ^h			
	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			
² Reaction to fire	With an open air gap behind the panel ^{def}	18	D-s2,d0	D _{fl} ,s1			
(see notes to table for field of	Any end use ef	3	Е	Efl			
application details and associated			ı				
documentation references)	a -Mounted without an a	air gan directly against cla	ss A1 or A2-s1, d0 product	ts 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 direct						
		panel, but not for flooring	-	idea ii iiiodiitea directiy			
		•	ce of the cavity shall be at	· loast class A2 s1 d0			
	products with minimum		ce of the cavity shall be at	l least class A2-51, uu			
	1 '		use of the savity shall be a	t loast class D s2 d2			
	d -Mounted with an air gap behind. The reverse face of the cavity shall be at least class D-s2, 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/m² can be mounted.						
	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.						
	ii -ciass Provided for in 1	able 2 of the Affrex to de	CISIUII 2000/14//EC.				

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

5-Embedment strenght can be calculated according to EN 1995-1-1 2004+A2:2014, by taking the OSB panel thickness (t) and the diameter of the used fastener (d) in account:

 $f_{h,k}$ = 65 d-0,7 t0,1

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:

Sterkmans Peter

Quality Supervisor

Genk, Belgium

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