## **DECLARATION OF PERFORMANCE**

Reference number: UKOSB3DoPv1

## 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, OSB3 OSB/3 (EN300) 6mm to 32mm*	Internal use as structural components in humid conditions	2+	0836	EN13986:2004 +A1:2015

## **Declared performance** (covering a range of producttypes OSB/3, 6mm to 32mm\*)

Thickness range (mm)	6 tc															
		10	>10 t	o <18	18 to	o <b>2</b> 5	>25	to 32		5 T&G 100/300mm	18 T&G 600mm		22 T&G 600mm			
	0	90	0	90	0	90	0	90	· ·	0 - 90	0-	90	0-9	0		
<sup>1</sup> Characteristic Strength (N/mm <sup>2</sup> ):																
- Bending $f_m$	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 $f_{ u}$	6	6.8 6.8		6.	8	N	PD	6.8		6.8		6.8				
- Planar shear $f_r$	1	1.0 1.0		.0	1.0 NPD		IPD	1.0		1.0		1.0				
<sup>1</sup> Mean Stiffness (MOE)																
(N/mm²):																
- Tension E <sub>t</sub>	3800	3000	3800	3000	3800	3000	NPD	NPD	3800	3000	3800	3000	3800	3000		
- Compression $E_c$	3800	3000	3800	3000	3800	3000	NPD	NPD	3800	3000	3800	3000	3800	3000		
- Bending E <sub>m</sub>	4930	1980	4930	1980	4930	1980	NPD	NPD	4930	1980	4930	1980	4930	1980		
- Panel Shear $G_{\nu}$	10	80	0 1080		1080		NPD		1080		1080		1080			
- Planar Shear <i>G<sub>r</sub></i>	5	0	50		50 NPD		50		50		50					
Punching Shear,																
Characteristic strength		1100		NPD		NPD		NPD		1.68/1.85/1.78		2.25		3.04		
under point load F <sub>max,k</sub> (kN)	NPD		NPD		NI	טי	N F	טי	N	טאו	1.68,	/1.85/1./8	2	25	3.0	14
(for floors and roofs)																
Punching Shear, Mean stiffness under point load, R (N/mm²) (for floors and roofs)	NI	PD	NPD		NPD		NPD		190/333/514		269		445			
Characteristic																
serviceability strength	NII	PD	NF NF	חס	NF	חס	l N	IPD	1 67	/1.71/1.78	,	20	2.8	1		
under point load F <sub>Ser,k</sub> (kN)	INI	- 0	INI	- D	INF	U	I IN	IFD	1.07	1.71/1.70	2	20	2.0	1		
(for floors and roofs)																
Soft Body Impact									Impact		Impact		Impact			
resistance (Floor/roofs/Walls)	N	PD	NPD		NPD		NPD		Class 1 Pass Floor		Class 1 Pass Floor		Clas Pass F			
Racking resistance										u33 i 1001	1 433	1 1001	1 033 1	1001		
Characteristic Strength F <sub>Rd,max,k</sub> (N) (for walls)	NI	PD	NF	PD	NF	D	N	PD		NPD	N	PD	NP	D		

				T	ı		1		
Racking resistance Mean Stiffness R <sub>mean</sub> (N/mm) (for walls)	NPD	NPI	)	NPD	NPD	NPD	NPD	NPD	
<sup>5</sup> Embedment strength f <sub>h</sub> (N/mm²)				Calculat	ion according to	EN 1995-1-1 (8.22)			
Release of formaldehyde	E1	E1		E1	E1	E1	E1	E1	
Release (content) of pentachlorophenol (PCP)	≤5ppm	≤5pp	m	≤5ppm	≤5ppm	≤5ppm	≤5ppn	n ≤5ppm	
Airborne sound insulation (surface mass) R (dB)	NPD	NPI	)	NPD	NPD	NPD	NPD	NPD	
<sup>3</sup> Sound absorption, Frequency range 250Hz to 500Hz (α)	0.1	0.1	_	0.1	0.1	0.1	0.1	0.1	
<sup>3</sup> Sound absorption, Frequency range 1000Hz to 2000Hz (α)	0.25	0.2	5	0.25	0.25	0.25	0.25	0.25	
Thermal conductivity λ (W/m.K)	0.13	0.1	3	0.13	0.13	0.13	0.13	0.13	
Air Permeability ( $\Delta p$ =50Pa) according to EN 12114, V <sub>0</sub> (m <sup>3</sup> /h m <sup>2</sup> )	NPD	NPD		NPD	NPD	NPD	NPD	NPD	
Durability									
Internal bond (N/mm²)	0.34	0.32		0.30	0.29	0.32	0.32	0.30	
Swelling in thickness (%)	15	15		15	15	15	15	15	
Moisture resistance Internal bond after boil test (N/mm²)	NPD	NPD		NPD	NPD	NPD	NPD	NPD	
Internal bond after cyclic test (N/mm²)	NPD	NPD		NPD	NPD	NPD	NPD	NPD	
Bending strength after cyclic test – major axis (N/mm²)	9	8		7	6	8	8	7	
<sup>4</sup> Mechanical (Creep k <sub>def</sub> ) service class 1	1.5	1.5		1.5	1.5	1.5	1.5	1.5	
<sup>4</sup> Mechanical (Creep k <sub>def</sub> ) service class 2	2.25	2.25		2.25	2.25	2.25	2.25	2.25	
Mechanical (Duration of					Action Mo	ode		<u> </u>	
load k <sub>mod</sub> )	Permane	nt	Lo	ong Term	Medium Term	Short Term		Instantaneous	
<sup>4</sup> Service Class 1	0.4			0.5	0.7	0.9		1.1	
<sup>4</sup> Service Class 2	0.3			0.4	0.55	0.7		0.9	
Biological				L	Use classes	1 & 2			

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

	Watervapourtransmission according to EN 12572:2001
Thickness (mm)	15
μ Dry	125
μ Wet	82

		Minimum thickness	Class (excluding floorings)g	Class (Flooring)h
	Without an air gap behind the panel abef	9	D-s2,d0	D <sub>fl</sub> ,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 <sub>fl</sub> ,s1
<sup>2</sup> Reaction to fire	With an open air gap behind the panel <sup>def</sup>	18	D-s2,d0	D <sub>fl</sub> ,s1
(see notes to table for field of application details and associated	Any end use ef	3	E	E <sub>fl</sub>
	b -A substrate of cellulosidirectly against the wood c -Mounted with an air good of products with minimud d -Mounted with an air good 2 products with minimude -Veneered, phenolant f -A vapour barrier with a in between the wood-base	I-based panel, but not for ap behind. The reverse form density 10 kg/m3. ap behind. The reverse form density 400 kg/m3. It melamine-faced panels thickness up to 0,4 mm	or floorings.  Tace of the cavity shall I  Tace of the cavity shall  Tace of the cavity shall	be at least class A2-s1, be at least class D-s2, excl. floorings. g/m² can be mounted
	g -Class Provided for in Ta h -Class Provided for in Ta	able 1 of the Annex to d	ecision 2000/147/EC.	•

- 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:

$$f_{h,k} = 65 d^{-0.7} t^{0.1}$$

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