DECLARATION OF PERFORMANCE

Reference number: NGOSB2DoPv6

West Fraser Europe nv Eikelaarstraat 33 3600 Genk Belgium

Unique Identification code of the product type*	Intended Use	Systems of AVCP	Notified Body	Harmonised standard
SterlingOSB zero, OSB2 OSB/2 (EN300) 6mm to 40mm*	Internal use as structural components in dry conditions	2+	1161	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 $f_{ m v}$	6.8		6.8		6.8		NPD		NPD	
- Planar shear f_r			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 <i>E_m</i>	4930	1980	4930	1980	4930	1980	NPD	NPD	NPD	NPD
- Panel Shear $G_{ u}$	10	80	10	80	10	80	NI	PD	NI	PD D
- Planar Shear <i>G</i> ,	50		50		50		NPD		NPD	
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)	NPD		NPD		NPD		NPD		NPD	
(for floors and roofs)										
Characteristic serviceability strength					NDD					
under point load F _{Ser,k} (kN)	NPD		NPD		NPD		NPD		NPD	
(for floors and roofs)										
Soft Body Impact resistance (Floor/roofs/Walls)	NPD		NPD		NPD		NPD		NPD	
Racking resistance										
Characteristic Strength F _{Rd,max,k} (N)	NPD		NPD		NPD		NPD		NPD	
(for walls)										
Racking resistance	811	20			NDD		NOS			
Mean Stiffness R _{mean} (N/mm) (for walls)	NI	PD	NPD		NPD		NPD		NPD	
⁵ Embedment strength f _h (N/mm²)				Calculation	according	to FN 199	1 5-1-1 (8 2	2)	<u> </u>	
	Calculation according to EN 1995-1-1 (8.22)									

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 Ins				Instantaneous	
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	E _{fl}			
application details and associated documentation references)	Any end use ef 3 E E _{fi} a -Mounted without an air gap directly against class A1 or A2-s1, d0 products 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 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/m3. 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. 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 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.						

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:

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

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, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Sterkmans Peter

Quality Supervisor

Genk, Belgium

.....03/07/2023.....