DECLARATION OF PERFORMANCE

Reference number **NOSB3DoPv7**

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Unique Identification code of the product type*	Intended Use	Systems of AVCP	Notified Body	Harmonised standard
OSB/3 >6mm to 32mm*	Internal use as structural components in humid 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 a range of product-types OSB/3 >6mm to 32mm*)

Essential characteristics	**Performance**													
Thickness range	**6 to 10**		**>10 to <18**		**18 to 25**		**>25 to 32**		**15 T&G 600mm 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/mm²)** - **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_v**	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/mm²)** - **Tension E_t**	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_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	
Racking resistance *(for walls)* **Mean Stiffness R_{mean} (N/mm)**	NPD		NPD		NPD		NPD		NPD		NPD		NPD	
Soft Body Impact resistance Floors/Roofs Walls	NPD		NPD		NPD		NPD		Impact Class 1 Pass Roof		Impact Class 1 Pass Floor		Impact Class 1 Pass Floor	

Embedment strength f_h (N/mm2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD

		Minimum thickness	**Class (excluding floorings)[g]**	**Class (Flooring)[h]**
[2]Reaction to fire **(see notes to table for field of application details and associated documentation references)** -	**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
	With an open air gap behind the panel [def]	18	D-s2,d0	D_{fl},s1
	Any end use [ef]	3	E	E_{fl}
	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/m^2 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 μ	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Release of formaldehyde	**E1**	**E1**	**E1**	**E1**	**E1**	**E1**	**E1**
Release (content) of pentachlorophenol (PCP)	**≤5ppm**	**≤5ppm**	**≤5ppm**	**≤5ppm**	**≤5ppm**	**≤5ppm**	**≤5ppm**
Airborne sound insulation (surface mass) R (dB)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
[3]Sound absorption Frequency range 250Hz to 500Hz **(α)**	0.1	0.1	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	0.25	0.25
Thermal conductivity λ (W/m.K)	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Air Permeability V_0 (m3/h)	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
Bending strength after cyclic test – major axis (N/mm²)	9	8	7	6	8	8	7
[4]Mechanical (creep k_{def}) **Service class 1**	1.5	1.5	1.5	1.5	1.5	1.5	1.5
[4]Mechanical (creep k_{def}) **Service class 2**	2.25	2.25	2.25	2.25	2.25	2.25	2.25

Mechanical (duration of load k_{mod})	**Action Mode**				
	Permanent	**Long Term**	**Medium Term**	**Short Term**	**Instantaneous**
[4]Service class 1	**0.4**	**0.5**	**0.7**	**0.9**	**1.1**
[4]Service class 2	**0.3**	**0.4**	**0.55**	**0.7**	**0.9**
Biological	**Use classes 1 & 2**				

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, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Lisa Munro

At: Inverness, Scotland On: 07/07/2020