

DECLARATION OF PERFORMANCE

Reference number **NOSB3DoPv7**

Norbord Europe Ltd

Morayhill, Dalcross

Inverness

IV2 7JQ

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													
	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	
Thickness range	0	90	0	90	0	90	0	90	0-90	0-90	0-90	0-90	0-90	0-90
¹ Characteristic Strength (N/mm ²)	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
- Bending														
- 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/mm ²)	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) <i>(for floors and roofs)</i>	NPD		NPD		NPD		NPD		2.64		4.12		4.96	
Punching Shear Mean stiffness under point load, R (N/mm) <i>(for floors and roofs)</i>	NPD		NPD		NPD		NPD		305		489		770	
Racking resistance <i>(for walls)</i> Characteristic Strength $F_{Rd,max,k}$ (N)	NPD		NPD		NPD		NPD		NPD		NPD		NPD	
Racking resistance <i>(for walls)</i> 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	

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Embedment strength f_h (N/mm ²)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
² Reaction to fire (see notes to table for field of application details and associated documentation references)			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}	
	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/m ³ or at least class D-s2, d2 products with minimum density 400 kg/m ³ . 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/m ³ . 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/m ³ . 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 (m ³ /h)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Durability							
Internal bond (N/mm ²)	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/mm ²)	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

A handwritten signature in black ink that reads "Lisa Munro". The signature is written in a cursive style with a large initial 'L'.