

# DECLARATION OF PERFORMANCE

Reference number **NOSB3DoPv6**

**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		18 T&G 600mm		22 T&G 600mm	
Thickness range	0	90	0	90	0	90	0	90	0 - 90		0 - 90		0-90	
Characteristic Strength (N/mm <sup>2</sup> )														
- 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	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	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	6.8		6.8		6.8		NPD		6.8		6.8		6.8	
- Planar shear	1.0		1.0		1.0		NPD		1.0		1.0		1.0	
Mean Stiffness values,(MOE) (N/mm <sup>2</sup> )														
- Tension	3800	3000	3800	3000	3800	3000	NPD	NPD	3800	3000	3800	3000	3800	3000
-Compression	3800	3000	3800	3000	3800	3000	NPD	NPD	3800	3000	3800	3000	3800	3000
- Bending	4930	1980	4930	1980	4930	1980	NPD	NPD	4930	1980	4930	1980	4930	1980
- Panel Shear	1080		1080		1080		NPD		1080		1080		1080	
-Planar Shear	50		50		50		NPD		50		50		50	
Characteristic strength under point load F <sub>max,k</sub> (kN) (for floors and roofs)	NPD		NPD		NPD		NPD		2.8		4.50		5.20	
Mean stiffness under point load, R (N/mm <sup>2</sup> ) (for floors and roofs)	NPD		NPD		NPD		NPD		1400		450		600	
Characteristic serviceability strength under point load F <sub>Ser,k</sub> (kN) (for floors and roofs)	NPD		NPD		NPD		NPD		1.96		3.2		3.3	
Racking resistance (for walls)	NPD		NPD		NPD		NPD		NPD		NPD		NPD	
Soft Body Impact resistance Floors/Roofs Walls	Pass Wall		NPD		NPD		NPD		Pass Roof		Pass Floor		Pass Floor	
Reaction to fire	D-s3,d0		D-s2,d0		D-s2,d0		D-s2,d0		D-s2,d0		DFL-S1		DFL-S1	
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)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Sound absorption Frequency range 250Hz to 500Hz ( $\alpha$ )	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Sound absorption Frequency range 1000Hz to 2000Hz ( $\alpha$ )	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Thermal conductivity $\lambda$	0.13	0.13	0.13	0.13	0.13	0.13	0.13
<b>Durability</b>							
Internal bond (N/mm <sup>2</sup> )	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 (%)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Internal bond after cyclic test (N/mm <sup>2</sup> )	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Bending strength after cyclic test – major axis (N/mm <sup>2</sup> )	9	8	7	6	8	8	7
Mechanical (creep $k_{def}$ ) Service class 1	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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 $k_{mod}$ )	<b>Action Mode</b>						
	<b>Permanent</b>	<b>Long Term</b>	<b>Medium Term</b>	<b>Short Term</b>	<b>Instantaneous</b>		
Service class 1	<b>0.4</b>	<b>0.5</b>	<b>0.7</b>	<b>0.9</b>	<b>1.1</b>		
Service class 2	<b>0.3</b>	<b>0.4</b>	<b>0.55</b>	<b>0.7</b>	<b>0.9</b>		
Biological	<b>Use classes 1 &amp; 2</b>						

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:

S McTaggart

At .Inverness, Scotland On 05/04/2017

