

**DECLARATION OF PERFORMANCE**  
Reference number NOSB3DoP V2

**Norbord Europe Ltd**  
**Morayhill, Dalcross**  
**Inverness**  
**IV2 7JQ**

Product type	Intended use	AVCP*	Notified Body reference
OSB/3	Internal use as structural components in humid conditions	2+	0502
*Assessment and verification of constancy of performance system according to Annex V of regulation (EU) No 305/2011			

**Declared performance**

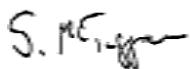
Essential characteristics	Performance												Harmonised technical specification			
	>6 to 10		>10 to 18		>18 to 25		>25 to 32		15 T&G 600mm		18 T&G 600mm			22 T&G 600mm		
	0	90	0	90	0	90	0	90	0 - 90		0- 90			0-90		
<b>Characteristic Strength (N/mm<sup>2</sup>)</b>																EN 13986:2004
- Bending	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			
<b>Mean Stiffness values,(MOE) (N/mm<sup>2</sup>)</b>																
- 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			
<b>*Characteristic Point load F<sub>max,k</sub> (kN) (for floors and roofs)</b>	NPD		NPD		NPD		NPD		2.8		4.50		5.20			
<b>Point load mean stiffness (N/mm<sup>2</sup>) (for floors and roofs)</b>	NPD		NPD		NPD		NPD		1.4		0.450		0.600			
<b>*Characteristic Point load serviceability F<sub>Ser,k</sub> (kN) (for floors and roofs)</b>	NPD		NPD		NPD		NPD		1.96		3.2		3.3			
<b>Racking resistance (for walls)</b>	NPD		NPD		NPD		NPD		NPD		NPD		NPD			
<b>Soft Body Impact resistance Floors/Roofs Walls</b>	Pass Wall		NPD		NPD		NPD		Pass Roof		Pass Floor		Pass Floor			

<b>Reaction to fire</b>	D-s2,d0	D-s2,d0	D-s2,d0	D-s2,d0	D-s2,d0	DFL-S1	DFL-S1
<b>Water vapour permeability <math>\mu</math></b>	NPD	NPD	NPD	NPD	NPD	NPD	NPD
<b>Release of formaldehyde</b>	<b>E1</b>	<b>E1</b>	<b>E1</b>	<b>E1</b>	<b>E1</b>	<b>E1</b>	<b>E1</b>
<b>Release (content) of pentachlorophenol (PCP)</b>	<b>≤5ppm</b>	<b>≤5ppm</b>	<b>≤5ppm</b>	<b>≤5ppm</b>	<b>≤5ppm</b>	<b>≤5ppm</b>	<b>≤5ppm</b>
<b>Airborne sound insulation (surface mass) (R)</b>	NPD	NPD	NPD	NPD	NPD	NPD	NPD
<b>Sound absorption</b> Frequency range 250Hz to 500Hz ( $\alpha$ )	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<b>Sound absorption</b> Frequency range 1000Hz to 2000Hz ( $\alpha$ )	0.25	0.25	0.25	0.25	0.25	0.25	0.25
<b>Thermal conductivity <math>\lambda</math></b>	0.13	0.13	0.13	0.13	0.13	0.13	0.13
<b>Durability</b>							
<b>Internal bond (N/mm<sup>2</sup>)</b>	0.34	0.32	0.30	0.29	0.32	0.32	0.30
<b>Swelling in thickness (%)</b>	15	15	15	15	15	15	15
<b>Moisture resistance</b> Internal bond after boil test (%)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
<b>Internal bond after cyclic test (N/mm<sup>2</sup>)</b>	NPD	NPD	NPD	NPD	NPD	NPD	NPD
<b>Bending strength after cyclic test – major axis (N/mm<sup>2</sup>)</b>	9	8	7	6	8	8	7
<b>Mechanical</b> (duration of load $k_{def}$ ) <b>service class 1</b>	1.5	1.5	1.5	1.5	1.5	1.5	1.5
<b>Mechanical</b> (duration of load $k_{def}$ ) <b>service class 2</b>	2.25	2.25	2.25	2.25	2.25	2.25	2.25
<b>Mechanical</b> (creep $k_{mod}$ ) <b>Service class 1</b>	0.7	0.7	0.7	0.7	0.7	0.7	0.7
<b>Mechanical</b> (creep $k_{mod}$ ) <b>Service class 2</b>	0.55	0.55	0.55	0.55	0.55	0.55	0.55
<b>Biological</b>	<b>Use classes 1 &amp; 2</b>						
<b>*'characteristic' means lower 5<sup>th</sup> percentile calculated according to EN 1058</b>							

The performance of the product identified is in conformity with the declared performance.

This declaration of performance is issued under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:



(name and function)

Technical Manager

(place and date of issue)

Inverness, Scotland: 15.11.13

(signature)

