

## DECLARATION OF PERFORMANCE

Reference Number DOP05REV2

**SMARTPLY,  
Belview,  
Slieverue,  
Waterford,  
Ireland.**

Product Type	Intended Use	AVCP*	Notified Body Reference
OSB/3 PROPASSIV	Internal use as structural components in humid conditions	2+	0050
*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 (12.5mm)		>18 to 25		>25 to 32		>32 to 40		
Thickness Range (mm)											EN 13986:2004 +A1:2015
Angle to Major Axis	0	90	0	90	0	90	0	90	0	90	
Characteristic Strength (N/mm <sup>2</sup> )	NPD	NPD	16.4	8.2	NPD	NPD	NPD	NPD	NPD	NPD	
- Bending $f_m$	NPD	NPD	16.4	8.2	NPD	NPD	NPD	NPD	NPD	NPD	
- Compression $f_c$	NPD	NPD	15.4	12.7	NPD	NPD	NPD	NPD	NPD	NPD	
- Tension $f_t$	NPD	NPD	9.4	7.0	NPD	NPD	NPD	NPD	NPD	NPD	
- Panel Shear $f_v$	NPD		6.8		NPD		NPD		NPD		
- Planar shear $f_r$	NPD		1.0		NPD		NPD		NPD		
Mean Stiffness (MOE) (N/mm <sup>2</sup> )	NPD	NPD	3800	3000	NPD	NPD	NPD	NPD	NPD	NPD	
- Tension $E_t$	NPD	NPD	3800	3000	NPD	NPD	NPD	NPD	NPD	NPD	
- Compression $E_c$	NPD	NPD	3800	3000	NPD	NPD	NPD	NPD	NPD	NPD	
- Bending $E_m$	NPD	NPD	4930	1980	NPD	NPD	NPD	NPD	NPD	NPD	
- Panel Shear $G_v$	NPD		1080		NPD		NPD		NPD		
- Planar Shear $G_r$	NPD		50		NPD		NPD		NPD		
<sup>1</sup> Reaction to Fire (Excluding Floorings)	NPD		<sup>1</sup> D-s2,d0		NPD		NPD		NPD		
Reaction to Fire (Floorings)	NPD		D <sub>FL</sub> -s1		NPD		NPD		NPD		
Water Vapour Permeability $\mu$	NPD		420		NPD		NPD		NPD		
- Wet cup	NPD		420		NPD		NPD		NPD		
- Dry cup	NPD		750		NPD		NPD		NPD		
Release of Formaldehyde	NPD		E1		NPD		NPD		NPD		
Release (content) of Pentachlorophenol (PCP)	NPD		NPD		NPD		NPD		NPD		
Airborne Sound Insulation (surface mass) (R)	NPD		NPD		NPD		NPD		NPD		
Sound Absorption $\alpha$ (250 – 500 Hz)	NPD		0.10		NPD		NPD		NPD		
Sound Absorption $\alpha$ (1000 – 2000 Hz)	NPD		0.25		NPD		NPD		NPD		
Thermal Conductivity $\lambda$	NPD		0.11		NPD		NPD		NPD		

Essential Characteristics	Performance						Harmonised technical specification
<b>Durability</b>							EN 13986:2004 +A1:2015
<b>Thickness Range (mm)</b>	<b>6 to 10</b>	<b>&gt;10 to &lt;18 (12.5mm)</b>	<b>18 to 25</b>	<b>&gt;25 to 32</b>	<b>&gt;32 to 40</b>		
<b>Internal Bond (N/mm<sup>2</sup>)</b>	NPD	0.32	NPD	NPD	NPD		
<b>Swelling in Thickness (%)</b>	NPD	15	NPD	NPD	NPD		
<b>Moisture Resistance - Internal Bond after Boil Test (N/mm<sup>2</sup>)</b>	NPD	NPD	NPD	NPD	NPD		
<b>Moisture Resistance - Internal Bond after Cyclic Test (N/mm<sup>2</sup>)</b>	NPD	NPD	NPD	NPD	NPD		
<b>Bending Strength after Cyclic Test – Major Axis (N/mm<sup>2</sup>)</b>	NPD	8	NPD	NPD	NPD		
<b>Mechanical (creep k<sub>def</sub>) Service Class 1</b>	NPD	1.50	NPD	NPD	NPD		
<b>Mechanical (creep k<sub>def</sub>) Service Class 2</b>	NPD	2.25	NPD	NPD	NPD		
<b>Thickness Range (mm)</b>	<b>&gt;6 to 40</b>						
<b>Load-Duration Class</b>	<b>Permanent Action</b>	<b>Long Term Action</b>	<b>Medium Term Action</b>	<b>Short Term Action</b>	<b>Instantaneous Action</b>		
<b>Mechanical (duration of load k<sub>mod</sub>) Service Class 1</b>	0.40	0.50	0.7	0.90	1.10		
<b>Mechanical (duration of load k<sub>mod</sub>) Service Class 2</b>	0.30	0.40	0.55	0.70	0.90		
<b>Biological</b>	Use classes 1 & 2						
<b><sup>2</sup>T&amp;G Products</b>	<b>Spacing</b>	<b>12.5mm T&amp;G</b>	<b>15mm T&amp;G</b>	<b>18mm T&amp;G</b>	<b>22mm T&amp;G</b>	<b>24mm T&amp;G</b>	
<b><sup>3</sup>Characteristic Point Load F<sub>max,k</sub> (N) (for floors and roofs)</b>	400mm	N/A	N/A	N/A	N/A	N/A	
	600mm	N/A	N/A	N/A	N/A	N/A	
<b>Point Load Mean Stiffness (N/mm) (for floors and roofs)</b>	400mm	N/A	N/A	N/A	N/A	N/A	
	600mm	N/A	N/A	N/A	N/A	N/A	
<b><sup>3</sup>Characteristic Point Load Serviceability F<sub>ser,k</sub> (N) (for floors and roofs)</b>	400mm	N/A	N/A	N/A	N/A	N/A	
	600mm	N/A	N/A	N/A	N/A	N/A	
<b>Soft Body Impact Resistance Floor/Roofs</b>	400mm	N/A	N/A	N/A	N/A	N/A	
	600mm	N/A	N/A	N/A	N/A	N/A	
<b>Soft Body Impact Resistance Walls</b>	<b>Spacing</b>			<b>&gt; 9mm</b>			
	400mm			Class III			
	600mm			Class III			
<b>Air Permeability</b>	<0.005 m <sup>3</sup> /(h.m <sup>2</sup> ) to EN 12114						
<b>Racking Strength</b>	EN 594:2011						
- F <sub>Rd,max,k</sub> (N)	8800						
- R <sub>mean</sub> (N/mm)	650						
<b><sup>1</sup> Minimum thickness 9mm for thickness range &gt;6 – 10mm &amp; performance D-s1,d0 for 18mm within thickness range &gt;10 to 18</b>							
<b><sup>2</sup> NPD for square edge products</b>							
<b><sup>3</sup> 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:



09/08/2016

Frank Fogarty, Quality Assurance Specialist.

Waterford, Ireland. 9<sup>th</sup> August 2016