

## DECLARATION OF PERFORMANCE

Reference number **DOP03REV3**

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

Product Type	Intended Use	AVCP*	Notified Body Reference
OSB/3 Coated Products	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		>18 to 25		>25 to 32		>32 to 40		
Thickness Range (mm)	0	90	0	90	0	90	0	90	0	90	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> )	18.0	9.0	16.4	8.2	14.8	7.4	NPD	NPD	NPD	NPD	
- Bending $f_m$	18.0	9.0	16.4	8.2	14.8	7.4	NPD	NPD	NPD	NPD	
- Compression $f_c$	15.9	12.9	15.4	12.7	14.8	12.4	NPD	NPD	NPD	NPD	
- Tension $f_t$	9.9	7.2	9.4	7.0	9.0	6.8	NPD	NPD	NPD	NPD	
- Panel Shear $f_v$	6.8		6.8		6.8		NPD		NPD		
- Planar shear $f_r$	1.0		1.0		1.0		NPD		NPD		
Mean Stiffness (MOE) (N/mm <sup>2</sup> )	3800	3000	3800	3000	3800	3000	NPD	NPD	NPD	NPD	
- Tension $E_t$	3800	3000	3800	3000	3800	3000	NPD	NPD	NPD	NPD	
- Compression $E_c$	3800	3000	3800	3000	3800	3000	NPD	NPD	NPD	NPD	
- Bending $E_m$	4930	1980	4930	1980	4930	1980	NPD	NPD	NPD	NPD	
- Panel Shear $G_v$	1080		1080		1080		NPD		NPD		
- Planar Shear $G_r$	50		50		50		NPD		NPD		
<sup>1</sup> Reaction to Fire (excluding floorings)	NPD		<sup>1</sup> D-s2,d0		NPD		NPD		NPD		
Water Vapour Permeability $\mu$	NPD		NPD		NPD		NPD		NPD		
Release of Formaldehyde	E1		E1		E1		E1		E1		
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)	0.10		0.10		0.10		0.10		0.10		
Sound Absorption $\alpha$ (1000 – 2000 Hz)	0.25		0.25		0.25		0.25		0.25		
Thermal Conductivity $\lambda$	NPD		NPD		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</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>	0.34	0.32	0.30	0.29	0.26	
<b>Swelling in Thickness (%)</b>	15	15	15	15	15	
<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>	9	8	7	6	6	
<b>Mechanical (creep <math>k_{def}</math>) Service Class 1</b>	1.50	1.50	1.50	1.50	1.50	
<b>Mechanical (creep <math>k_{def}</math>) Service Class 2</b>	2.25	2.25	2.25	2.25	2.25	
<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 <math>k_{mod}</math>) Service Class 1</b>	0.40	0.50	0.70	0.90	1.10	
<b>Mechanical (duration of load <math>k_{mod}</math>) Service Class 2</b>	0.30	0.40	0.55	0.70	0.90	
<b>Biological</b>	Use classes 1 & 2					
<b>Characteristic Point Load <math>F_{max, k}</math> (N) (for floors and roofs)</b>	NPD	NPD	NPD	NPD	NPD	
<b>Point Load Mean Stiffness (N/mm) (for floors and roofs)</b>	NPD	NPD	NPD	NPD	NPD	
<b>Characteristic Point Load Serviceability <math>F_{ser, k}</math> (N) (for floors and roofs)</b>	NPD	NPD	NPD	NPD	NPD	
<b>Soft Body Impact Resistance Floor/Roofs Walls</b>	NPD	NPD	NPD	NPD	NPD	
<sup>1</sup> performance D-s1,d0 for 18mm within thickness range >10 to 18.						

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