SMARTPLY®
DEFINING THE STANDARD OF OSB

DECLARATION OF PERFORMANCE
SMARTPLY SITE PROTECT
Reference Number: **DOP03REV4**

SMARTPLY Europe DAC,
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
Thickness Range (mm)	**6 to 10**		**>10 to <18**		**18 to 25**		**>25 to 32**		**>32 to 40**		EN 13986:2004 +A1:2015
Angle to Major Axis	**0**	**90**	**0**	**90**	**0**	**90**	**0**	**90**	**0**	**90**	
Characteristic Strength (N/mm²) - **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/mm²) - **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		
[1]**Reaction to Fire** (excluding floorings)	NPD		[1]D-s2,d0		NPD		NPD		NPD		
Water Vapour Permeability μ	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 α (250 – 500 Hz)	0.10		0.10		0.10		0.10		0.10		
Sound Absorption α (1000 – 2000 Hz)	0.25		0.25		0.25		0.25		0.25		
Thermal Conductivity λ	NPD		NPD		NPD		NPD		NPD		

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Essential Characteristics	Performance					Harmonised Technical Specification
Durability						EN 13986:2004 +A1:2015
Thickness Range (mm)	**6 to 10**	**>10 to <18**	**18 to 25**	**>25 to 32**	**>32 to 40**	
Internal Bond (N/mm²)	0.34	0.32	0.30	0.29	0.26	
Swelling in Thickness (%)	15	15	15	15	15	
Moisture Resistance - Internal Bond after Boil Test (N/mm²)	NPD	NPD	NPD	NPD	NPD	
Moisture Resistance - Internal Bond after Cyclic Test (N/mm²)	NPD	NPD	NPD	NPD	NPD	
Bending Strength after Cyclic Test – Major Axis (N/mm²)	9	8	7	6	6	
Mechanical (creep k_{def}) **Service Class 1**	1.50	1.50	1.50	1.50	1.50	
Mechanical (creep k_{def}) **Service Class 2**	2.25	2.25	2.25	2.25	2.25	
Thickness Range (mm)	**>6 to 40**					
Load-Duration Class	**Permanent Action**	**Long Term Action**	**Medium Term Action**	**Short Term Action**	**Instantaneous Action**	
Mechanical (duration of load k_{mod}) **Service Class 1**	0.40	0.50	0.70	0.90	1.10	
Mechanical (duration of load k_{mod}) **Service Class 2**	0.30	0.40	0.55	0.70	0.90	
Biological	Use classes 1 & 2					
Characteristic Point Load $F_{max,k}$ (N) *(for floors and roofs)*	NPD	NPD	NPD	NPD	NPD	
Point Load Mean Stiffness (N/mm) *(for floors and roofs)*	NPD	NPD	NPD	NPD	NPD	
Characteristic Point Load Serviceability $F_{ser,k}$ (N) *(for floors and roofs)*	NPD	NPD	NPD	NPD	NPD	
Soft Body Impact Resistance Floor/Roofs Walls	NPD	NPD	NPD	NPD	NPD	
[1] 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:

Frank Fogarty 27/03/2020

Frank Fogarty, Quality Assurance Specialist. Waterford, Ireland. 27th March 2020