SMARTPLY®
DEFINING THE STANDARD OF OSB

UK CA

DECLARATION OF PERFORMANCE
SMARTPLY SURE STEP DB
Reference Number: **UKCADOP11REV2**
SMARTPLY Europe DAC,
Belview, Slieverue,
Waterford,
Ireland.

Product Type	Intended Use	AVCP*	UK Assessment Body
OSB/3	Internal use as structural components in humid conditions	2+	0836
*Assessment and verification of constancy of performance system according to Annex V of regulation (EU) No 305/2011			

Declared Performance

Essential Characteristics	Performance										Designated Standard
Thickness Range (mm)	**>6 to 10**		**>10 to 18**		**>18 to 25**		**>25 to 32**		**>32 to 40**		BS 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**	NPD	NPD	16.4	8.2	14.8	7.4	NPD	NPD	NPD	NPD	
- **Compression f_c**	NPD	NPD	15.4	12.7	14.8	12.4	NPD	NPD	NPD	NPD	
- **Tension f_t**	NPD	NPD	9.4	7.0	9.0	6.8	NPD	NPD	NPD	NPD	
- **Panel Shear f_v**	NPD		6.8		6.8		NPD		NPD		
- **Planar shear f_r**	NPD		1.0		1.0		NPD		NPD		
Mean Stiffness (MOE) (N/mm²)											
- **Tension E_t**	NPD	NPD	3800	3000	3800	3000	NPD	NPD	NPD	NPD	
- **Compression E_c**	NPD	NPD	3800	3000	3800	3000	NPD	NPD	NPD	NPD	
- **Bending E_m**	NPD	NPD	4930	1980	4930	1980	NPD	NPD	NPD	NPD	
- **Panel Shear G_v**	NPD		1080		1080		NPD		NPD		
- **Planar Shear G_r**	NPD		50		50		NPD		NPD		
Reaction to Fire (excluding floorings)	NPD		NPD		NPD		NPD		NPD		
Reaction to Fire (floorings)	NPD		C_{FL}-s1		C_{FL}-s1		NPD		NPD		
Water Vapour Permeability μ - **Wet Cup** - **Dry Cup**	NPD		406 686		406 686		NPD		NPD		
Release of Formaldehyde	E1		E1		E1		E1		E1		
Release (content) of Pentachlorophenol (PCP)	NPD		NPD		NPD		NPD		NPD		
[1] **Airborne Sound Insulation Rw** (Acc. EN ISO 717-1)	NPD		40 dB		40 dB		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	0.11		0.11		0.11		0.11		0.11		
Air permeability ($m^3/m^2 \cdot h$) at 50 Pa	NPD		< 0.01		< 0.01		NPD		NPD		

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Essential Characteristics	Performance						Designated Standard
Durability							BS 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)	NPD	0.32	0.30	NPD	NPD		
Swelling in Thickness (%)	NPD	15	15	NPD	NPD		
Bending Strength after Cyclic Test – Major Axis (N/mm²)	NPD	8	7	NPD	NPD		
Deformation factor k_{def} Service Class 1	NPD	1.50	1.50	NPD	NPD		
Deformation factor k_{def} Service Class 2	NPD	2.25	2.25	NPD	NPD		
Thickness Range (mm)	**>6 to 40**						
Load-Duration Class	**Permanent Action**	**Long Term Action**	**Medium Term Action**	**Short Term Action**	**Instantaneous Action**		
Modification factor k_{mod} Service Class 1	0.40	0.50	0.7	0.90	1.10		
Modification factor k_{mod} Service Class 2	0.30	0.40	0.55	0.70	0.90		
Biological	Use classes 1 & 2						
[2]T&G Products	**Spacing**	**12.5mm T&G**	**15mm T&G**	**18mm T&G**	**22mm T&G**	**24mm T&G**	
[3]Characteristic Point load $F_{max,k}$ (N) *(for floors and roofs)*	400mm	NPD	NPD	5494	6709	NPD	
	600mm	NPD	NPD	4712	6575	NPD	
Point Load Mean Stiffness (N/mm) *(for floors and roofs)*	400mm	NPD	NPD	797	1161	NPD	
	600mm	NPD	NPD	426	669	NPD	
Characteristic Point Load Serviceability $F_{ser,k}$ (N) *(for floors and roofs)*	400mm	NPD	NPD	3846	4696	NPD	
	600mm	NPD	NPD	3298	4603	NPD	
Soft Body Impact Resistance Floor/roofs	400mm	Class I	Class I	Class I	Class I	Class I	
	600mm	Class II	Class I	Class I	Class I	Class I	
Soft Body Impact Resistance Walls	**Spacing**			**> 9mm**			
	400mm			Class III			
	600mm			Class III			

[1] Airborne sound insulation Rw= 40dB for floor systems including MAX DB 18mm, min. 220mm OSB-web i-joists, metal web joists or solid timber joists at 600mm centres, 100mm mineral wool insulation(8-36kg/m³) and 15mm plasterboard (≥10.1 kg/m²).

[2] NPD for square edge products.

[3] Characteristic means lower 5th percentile calculated according to EN 1058.

This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011 as it has effect in the United Kingdom, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Guillaume Coste. Technical Services Manager. Waterford, Ireland 17/07/24.