SMARTPLY®
DEFINING THE STANDARD OF OSB

CE

DECLARATION OF PERFORMANCE
SMARTPLY SURE STEP DB
Reference Number: **CEDOP11REV2**

SMARTPLY Europe DAC,
Belview, Slieverue,
Waterford,
Ireland.

Product Type	Intended Use	AVCP*	Notified Body Reference
OSB/3	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**	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						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)	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.

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:

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