

DECLARATION OF PERFORMANCE
SMARTPLY MAX FR B
Reference Number: **UKCADOP09 REV0**

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	1	2822
*Assessment and verification of constancy of performance system according to Annex V of regulation (EU) No 305/2011			

2822-UKCA-CPR-0001

Declared performance

Essential Characteristics	Performance						Designated Standard
	11mm		15mm		18 mm		
Thickness	0°	90°	0°	90°	0°	90°	BS EN 13986:2004 +A1:2015
Angle to Major Axis							
Characteristic Strength (N/mm²)							
- Bending f_m	16.4	8.2	16.4	8.2	14.8	7.4	
- Compression f_c	15.4	12.7	15.4	12.7	14.8	12.4	
- Tension f_t	9.4	7.0	9.4	7.0	9.0	6.8	
- Panel Shear f_v	6.8		6.8		6.8		
- Planar shear f_r	1.0		1.0		1.0		
Mean Stiffness (N/mm²)							
- Bending E_m	4930	1980	4930	1980	4930	1980	
- Compression E_c	3800	3000	3800	3000	3800	3000	
- Tension E_t	3800	3000	3800	3000	3800	3000	
- Panel Shear G_v	1080		1080		1080		
- Planar Shear G_r	50		50		50		
¹ Reaction to Fire Excluding floorings	B-s2, d0		B-s2, d0		B-s2, d0		
¹ Reaction to Fire Floorings	B _{fi} -s1		B _{fi} -s1		B _{fi} -s1		
Water Vapour Permeability μ	NPD		NPD		NPD		
Release of Formaldehyde	E1		E1		E1		
Release (content) of Pentachlorophenol (PCP)	NPD		NPD		NPD		
Airborne Sound Insulation (surface mass) (R)	NPD		NPD		NPD		
Sound Absorption α (250 – 500 Hz)	0.1		0.1		0.1		
Sound Absorption α (1000 – 2000 Hz)	0.25		0.25		0.25		
Thermal Conductivity λ	0.13		0.13		0.13		

Essential Characteristics	Performance					Harmonised Technical Specification
Durability						BS EN 13986:2004 +A1:2015
Thickness	11mm	15mm	18mm			
Internal Bond (N/mm²)	0.32	0.32	0.30			
Swelling in Thickness (%)	15	15	15			
Moisture Resistance - Internal Bond after Boil Test (N/mm²)	NPD	NPD	NPD			
Moisture Resistance - Internal Bond after Cyclic Test (N/mm²)	NPD	NPD	NPD			
Moisture Resistance - Bending Strength after Cyclic Test – Major Axis (N/mm²)	8.0	8.0	7.0			
Mechanical (creep k_{def}) Service Class 1	1.50					
Mechanical (creep k_{def}) Service Class 2	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					
T&G Products (for floors and roofs)	Spacing (mm)	15mm		18mm		
Characteristic Point Load $F_{max, k}$ (N)	400	3330		6268		
	600	2658		6120		
Point Load Mean Stiffness R_{mean} (N/mm)	400	432		716		
	600	299		515		
Characteristic Point Load Serviceability $F_{ser, k}$ (N)	400	2331		4388		
	600	1861		4284		
Soft Body Impact Resistance Floor/Roofs Walls	NPD	NPD		NPD		
¹ See Certificate of Constancy of Performance for details on field of application.						

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, Structural Engineer. Waterford, Ireland. 21 of February 2022.