

DECLARATION OF PERFORMANCE
SMARTPLY MAX DB
Reference Number: UKCADOP12 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	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
	>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	BS EN 13986:2004 +A1:2015
Angle to Major Axis (°)	0	90	0	90	0	90	0	90	0	90	
Characteristic Strength (N/mm ²)											
- 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	NPD	6.8	6.8	6.8	6.8	NPD	NPD	NPD	NPD	
- Planar shear f_r	NPD	NPD	1.0	1.0	1.0	1.0	NPD	NPD	NPD	NPD	
Mean Stiffness (MOE) (N/mm ²)											
- 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	NPD	1080	1080	1080	1080	NPD	NPD	NPD	NPD	
- Planar Shear G_r	NPD	NPD	50	50	50	50	NPD	NPD	NPD	NPD	
Reaction to Fire (excluding floorings)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	
Reaction to Fire (floorings)	NPD	NPD	D _{FL} -s1	D _{FL} -s1	NPD	NPD	NPD	NPD	NPD	NPD	
Water Vapour Permeability μ	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	
Release of Formaldehyde	E1	E1	E1	E1	E1	E1	E1	E1	E1	E1	
Release (content) of Pentachlorophenol (PCP)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	
¹ Airborne Sound Insulation R_w (Acc. To EN ISO 717-1)	NPD	NPD	40 dB	40 dB	NPD	NPD	NPD	NPD	NPD	NPD	
Sound Absorption α (250 – 500 Hz)	0.10	0.10	0.10	0.10	0.10	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	0.25	0.25	0.25	0.25	0.25	
Thermal Conductivity λ	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	
Air permeability (m ³ /m ² .h) at 50 Pa	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	

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)	0.34	0.32	0.30	0.29	0.26		
Swelling in Thickness (%)	15	15	15	15	15		
Bending Strength after Cyclic Test – Major Axis (N/mm²)	9	8	7	6	6		
Deformation factor k_{def} Service Class 1	1.50	1.50	1.50	1.50	1.50		
Deformation factor 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		
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						
²T&G Products	Spacing	12.5mm T&G	15mm T&G	18mm T&G	22mm T&G	24mm T&G	
³Characteristic Point load $F_{max,k}$ (N) (for floors and roofs)	400mm	NPD	NPD	5494	NPD	NPD	
	600mm	NPD	NPD	4712	NPD	NPD	
Point Load Mean Stiffness (N/mm) (for floors and roofs)	400mm	NPD	NPD	797	NPD	NPD	
	600mm	NPD	NPD	426	NPD	NPD	
³Characteristic Point Load Serviceability $F_{ser,k}$ (N) (for floors and roofs)	400mm	NPD	NPD	3846	NPD	NPD	
	600mm	NPD	NPD	3298	NPD	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 $R_w = 40\text{dB}$ 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/m ³) and 15mm plasterboard ($\geq 10.1 \text{ kg/m}^2$). ² NPD for square edge products. ³ characteristic means lower 5 th 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 16/07/24.