

**DECLARATION OF PERFORMANCE
SMARTPLY MAX**

Reference Number: **DOP01REV4**

**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
	>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	EN 13986:2004 +A1:2015
Angle to Major Axis	0	90	0	90	0	90	0	90	0	90	
Characteristic Strength (N/mm ²)	18.0	9.0	16.4	8.2	14.8	7.4	NPD	NPD	NPD	NPD	
- 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/mm ²)	3800	3000	3800	3000	3800	3000	NPD	NPD	NPD	NPD	
- 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)	¹ D-s2,d0		¹ D-s2,d0		D-s1,d0		D-s1,d0		D-s1,d0		
Reaction to Fire (floorings)	NPD		D _{FL} -s1		D _{FL} -s1		D _{FL} -s1		D _{FL} -s1		
Water Vapour Permeability μ											
- Wet Cup	150		150		150		NPD		NPD		
- Dry Cup	240		240		240		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	0.11		0.11		0.11		0.11		0.11		

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	0.7	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						
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	3019	4815	5494	6709	7610	
	600mm	2766	3807	4712	6575	7272	
Point Load Mean Stiffness (N/mm) (for floors and roofs)	400mm	395	563	797	1161	1305	
	600mm	188	322	426	669	754	
³Characteristic Point Load Serviceability F_{ser,k} (N) (for floors and roofs)	400mm	2113	3370	3846	4696	5327	
	600mm	1936	2665	3298	4603	5091	
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 minimum thickness 9mm for thickness range >6 – 10mm & performance D-s1,d0 for 18mm within thickness range >10 to 18 ² NPD for square edge products ³ characteristic means lower 5 th 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:



27/03/2020

Frank Fogarty, Quality Assurance Specialist.

Waterford, Ireland. 27th March 2020.