

**DECLARATION OF PERFORMANCE**  
**SMARTPLY SITE PROTECT**  
Reference Number: **UKCADOP03 REV0**

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

Product Type	Intended Use	AVCP*	UK Assessment Body
OSB/3 SITE PROTECT	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/mm <sup>2</sup> )											
- 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 <sup>2</sup> )											
- 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		
<sup>1</sup> Reaction to Fire (excluding floorings)	NPD		D-s2,d0		NPD		NPD		NPD		
Water Vapour Permeability $\mu$	NPD		NPD		NPD		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 $\alpha$ (250 – 500 Hz)	0.10		0.10		0.10		0.10		0.10		
Sound Absorption $\alpha$ (1000 – 2000 Hz)	0.25		0.25		0.25		0.25		0.25		
Thermal Conductivity $\lambda$	NPD		NPD		NPD		NPD		NPD		

Essential Characteristics	Performance					Harmonised Technical Specification
Durability						
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	0.70	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					
Characteristic Point Load $F_{max, k}$ (N) (for floors and roofs)	NPD	NPD	NPD	NPD	NPD	
Point Load Mean Stiffness (N/mm) (for floors and roofs)	NPD	NPD	NPD	NPD	NPD	
Characteristic Point Load Serviceability $F_{ser, k}$ (N) (for floors and roofs)	NPD	NPD	NPD	NPD	NPD	
Soft Body Impact Resistance Floor/Roofs Walls	NPD	NPD	NPD	NPD	NPD	

EN  
13986:2004  
+A1:2015

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. 15<sup>th</sup> July 2021.