

DECLARATION OF PERFORMANCE
SMARTPLY PROPASSIV
Reference Number **UKCADOP05 REV0**

SMARTPLY,
Belview, Slieverue,
Waterford,
Ireland.

Product Type	Intended Use	AVCP*	UK
OSB/3 PROPASSIV	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 (12.5mm)		>18 to 25		>25 to 32		>32 to 40		
Thickness Range (mm)											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)	NPD	NPD	16.4	8.2	NPD	NPD	NPD	NPD	NPD	NPD	
- Bending f_m	NPD	NPD	15.4	12.7	NPD	NPD	NPD	NPD	NPD	NPD	
- Compression f_c	NPD	NPD	9.4	7.0	NPD	NPD	NPD	NPD	NPD	NPD	
- Tension f_t	NPD		6.8		NPD		NPD		NPD		
- Panel Shear f_v	NPD		1.0		NPD		NPD		NPD		
- Planar shear f_r	NPD	NPD	3800	3000	NPD	NPD	NPD	NPD	NPD	NPD	
Mean Stiffness (MOE) (N/mm ²)	NPD	NPD	3800	3000	NPD	NPD	NPD	NPD	NPD	NPD	
- Tension E_t	NPD	NPD	3800	3000	NPD	NPD	NPD	NPD	NPD	NPD	
- Compression E_c	NPD	NPD	4930	1980	NPD	NPD	NPD	NPD	NPD	NPD	
- Bending E_m	NPD		1080		NPD		NPD		NPD		
- Panel Shear G_v	NPD		50		NPD		NPD		NPD		
- Planar Shear G_r	NPD		E1		NPD		NPD		NPD		
Release of Formaldehyde	NPD		NPD		NPD		NPD		NPD		
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)	NPD		0.10		NPD		NPD		NPD		
Sound Absorption α (1000 – 2000 Hz)	NPD		0.25		NPD		NPD		NPD		
Thermal Conductivity λ	NPD		0.11		NPD		NPD		NPD		

Essential Characteristics	Performance						Harmonised technical specification
Durability							BS EN 13986:2004 +A1:2015
Thickness Range (mm)	6 to 10	>10 to <18 (12.5mm)	18 to 25	>25 to 32	>32 to 40		
Internal Bond (N/mm²)	NPD	0.32	NPD	NPD	NPD		
Swelling in Thickness (%)	NPD	15	NPD	NPD	NPD		
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)	NPD	8	NPD	NPD	NPD		
Mechanical (creep k_{def}) Service Class 1	NPD	1.50	NPD	NPD	NPD		
Mechanical (creep k_{def}) Service Class 2	NPD	2.25	NPD	NPD	NPD		
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						
T&G Products	Spacing	12.5mm T&G	15mm T&G	18mm T&G	22mm T&G	24mm T&G	
Characteristic Point Load F_{max,k} (N) (for floors and roofs)	400mm	N/A	N/A	N/A	N/A	N/A	
	600mm	N/A	N/A	N/A	N/A	N/A	
Point Load Mean Stiffness (N/mm) (for floors and roofs)	400mm	N/A	N/A	N/A	N/A	N/A	
	600mm	N/A	N/A	N/A	N/A	N/A	
Characteristic Point Load Serviceability F_{ser,k} (N) (for floors and roofs)	400mm	N/A	N/A	N/A	N/A	N/A	
	600mm	N/A	N/A	N/A	N/A	N/A	
Soft Body Impact Resistance Floor/Roofs	400mm	N/A	N/A	N/A	N/A	N/A	
	600mm	N/A	N/A	N/A	N/A	N/A	
Soft Body Impact Resistance Walls	Spacing			> 9mm			
	400mm			Class III			
	600mm			Class III			
Air Permeability	<0.005 m ³ /(h.m ²) to EN 12114						
Racking Strength	EN 594:2011						
- F _{Rd,max,k} (N)	8800						
- R _{mean} (N/mm)	650						

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, 15th July 2021.