

DECLARATION OF PERFORMANCE
SMARTPLY STRONGDECK
Reference number **UKCADOP07 REV0**

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

Product Type	Intended Use	AVCP*	UK Assessment Body
OSB/4 30mm STRONGDECK	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			Harmonised Technical Specification
	Thickness			
		30mm		
Angle to Major Axis (°)		0	90	EN 13986:2004 +A1:2015
Characteristic Strength (N/mm ²)				
- Bending f_m		24.5	15.0	
- Compression f_c		NPD	NPD	
- Tension f_t		NPD	NPD	
- Panel Shear f_v		NPD		
- Planar Shear f_r		0.7		
Mean Stiffness (MOE) (N/mm ²)				
- Bending E_m		8100	3000	
- Compression E_c		NPD	NPD	
- Tension E_t		NPD	NPD	
- Panel Shear G_v		NPD		
- Planar Shear G_r		40		
Reaction to Fire (Excluding Floorings)		D-s1,d0		
Reaction to Fire (Floorings)		D _{FL} -s1		
Water Vapour Permeability μ				
- Wet cup		NPD		
- Dry cup		NPD		
Release of Formaldehyde		E1		
Release (content) of Pentachlorophenol (PCP)		NPD		
Airborne Sound Insulation (surface mass) (R)		NPD		
Sound Absorption α (250 – 500 Hz)		0.10		
Sound Absorption α (1000 – 2000 Hz)		0.25		

Essential Characteristics	Durability					Harmonised Technical Specification	
Internal Bond (N/mm ²)			0.35			EN 13986:2004 +A1:2015	
Swelling in Thickness (%)			12				
Bending Strength after Cyclic Test – Major Axis (N/mm ²)			6.0				
Mechanical (creep k_{def}) Service Class 1			1.50				
Mechanical (creep k_{def}) Service Class 2			2.25				
Mechanical (duration of load k_{mod})	Action Mode						
	Permanent	Long Term	Medium Term	Short Term	Instantaneous		
Service Class 1	0.40	0.50	0.70	0.90	1.10		
Service Class 2	0.30	0.40	0.55	0.70	0.90		
Biological	Use Classes 1 & 2						
¹ T&G Products	Spacing	30mm T&G					
² Characteristic Point Load $F_{max,k}$ (kN) (for floors and roofs)	400mm	13.65					
	600mm	11.57					
	800mm	9.59					
Point Load Mean Stiffness (N/mm) (for floors and roofs)	400mm	2370					
	600mm	1410					
	800mm	820					
² Characteristic Point Load Serviceability $F_{ser,k}$ (kN) (for floors and roofs)	400mm	12.44					
	600mm	10.93					
	800mm	9.24					
Soft Body Impact Resistance - Floors/Roofs	400mm	Class I					
	600mm	Class I					
Soft Body Impact Resistance - Walls	NPD	NPD					
	NPD	NPD					
¹ NPD for square edge products ² 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, Structural Engineer. Waterford, Ireland, 15th July 2021.