

DECLARATION OF PERFORMANCE

Reference number **DOP07REV0**

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

Product Type	Intended Use	AVCP*	Notified Body Reference
OSB/4 30mm STRONGDECK	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
	Thickness			
		30mm		
Angle to Major Axis		0	90	
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		EN 13986:2004 +A1:2015
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	
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						

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:



27/02/2019

Frank Fogarty, Quality Assurance Specialist

Waterford, Ireland. 27th February 2019