

DECLARATION OF PERFORMANCE

No. DOP04REV1

Manufacturer:-
SmartPly Europe Ltd.
Belview,
Slieverue,
Waterford,
Ireland.

Unique identification code of the product type	Intended use	Systems of AVCP	Notified Body	Harmonised standard
OSB/3 18mm & 15mm*	Internal use as structural components in humid conditions	1	1121	EN 13986:2004
*The unique identification code of the product-type is a combination of the technical class and the individual product's nominal thickness.				

Declared performance [covering flame retardant treated OSB/3 18mm & 15mm*]

Essential characteristics	Performance			
	Thickness(mm)			
	15		18	
Angel to major axis	0	90	0	90
Characteristic strength (N/mm ²)				
- Bending f_m	16.4	8.2	14.8	7.4
- Compression f_c	15.4	12.7	14.8	12.4
- Tension f_t	9.4	7	9.0	6.8
- Panel Shear f_v	6.8		6.8	
- Planar shear f_r	1.0		1.0	
Mean stiffness (MOE) (N/mm ²)				
- Tension E_t	3800	3000	3800	3000
- Compression E_c	3800	3000	3800	3000
- Bending E_m	4930	3000	4930	1980
- Panel Shear G_v	1080		1080	
- Compression G_r	50		50	
Characteristic strength under point load $F_{max,k}$ (kN) (for floors and roofs)	NPD		NPD	
Mean stiffness under point load, R (N/mm) (for floors and roofs)	NPD		NPD	
Characteristic serviceability strength under point load $F_{ser,k}$ (kN) (for floors and roofs)	NPD		NPD	
Racking resistance (for walls)	NPD		NPD	
Soft Body Impact resistance Floor/roofs Walls	NPD		NPD	

Reaction to fire (excluding floorings)		C-s2, d0	C-s2, d0		
Reaction to fire (floorings)		B _f -s1	B _f -s1		
Water vapour permeability μ		NPD	NPD		
Release of formaldehyde		E1	E1		
Release (content) of pentachlorophenol (PCP)		≤ 5 ppm	≤ 5 ppm		
Airborne sound insulation (surface mass) (R)		NPD	NPD		
Sound absorption Frequency range 250Hz to 500Hz (α)		0.10	0.10		
Sound absorption Frequency range 1000Hz to 2000Hz (α)		0.25	0.25		
Thermal conductivity λ		NPD	NPD		
Durability					
Internal bond (N/mm ²)		0.32	0.30		
Swelling in thickness (%)		15	15		
Bending strength after cyclic test – major axis (N/mm ²)		8	7		
Mechanical (creep k_{def}) service class 1		1.5	1.50		
Mechanical (creep k_{def}) service class 2		2.25	2.25		
Mechanical (duration of load k_{mod})	Action mode				
	Permanent	Long Term	Medium Term	Short Term	Instantaneous
Service class 1	0.4	0.5	0.7	0.9	1.1
Service class 2	0.3	0.4	0.55	0.7	0.9
Biological	Use class 1&2				

The performance of the product identified is in conformity with the declared performances.

This declaration of performance is issued, in accordance with regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

.....*Michael Nichol*.....

At.....*Waterford, Ireland*..... on.....*04/08/2015*.....

.....*Michael N. Nichol*.....