

DECLARATION OF PERFORMANCE

Reference number **DOP04REV4**

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

Product Type	Intended Use	AVCP	Notified Body Reference
OSB/3 11mm, 15mm & 18mm*	Internal use as structural components in humid conditions	1	1121
*The unique identification code of the product is a combination of the technical class and the individual product's nominal thickness			

1121-CPR-BB5011

Declared Performance (Covering flame retardant treated OSB/3 11mm, 15mm & 18mm)

Essential Characteristics	Performance						Harmonised Technical Specification
	Thickness						
	11mm		15mm		18mm		
Angle to Major Axis	0	90	0	90	0	90	EN 13986:2004 +A1:2015
Characteristic Strength (N/mm²)							
- Bending f_m	16.4	8.2	16.4	8.2	14.8	7.4	
- Compression f_c	15.4	12.7	15.4	12.7	14.8	12.4	
- Tension f_t	9.4	7.0	9.4	7.0	9.0	6.8	
- Panel Shear f_v	6.8		6.8		6.8		
- Planar Shear f_r	1.0		1.0		1.0		
Mean Stiffness (MOE) (N/mm²)							
- Tension E_t	3800	3000	3800	3000	3800	3000	
- Compression E_c	3800	3000	3800	3000	3800	3000	
- Bending E_m	4930	1980	4930	3000	4930	1980	
- Panel Shear G_v	1080		1080		1080		
- Planar Shear G_r	50		50		50		
Density (kg/m³)	≥600		≥600		≥600		
Racking Resistance (for walls)	EN 1995-1-1		EN 1995-1-1		EN 1995-1-1		
Soft Body Impact Resistance							
- Floor/Roofs	NPD		Class I		Class I		
- Walls	Class III		Class III		Class III		
Reaction to Fire (Excluding Floorings)	D-s2,d0		C-s2,d0		C-s2,d0		
Reaction to Fire (Floorings)	B _{fl} -s1		B _{fl} -s1		B _{fl} -s1		
Water Vapour Permeability μ							
- Wet cup	340±40		NPD		NPD		
- Dry cup	230±30		NPD		NPD		
Release of Formaldehyde	E1		E1		E1		

Essential Characteristics	Performance					Harmonised Technical Specification
Release (content) of Pentachlorophenol (PCP)	≤5ppm	≤5ppm	≤5ppm	≤5ppm	≤5ppm	
Airborne Sound Insulation (surface mass) (R)	NPD	NPD	NPD	NPD	NPD	
Sound Absorption α (250 – 500 Hz)	0.10	0.10	0.10	0.10	0.10	EN 13986:2004 +A1:2015
Sound Absorption α (1000 – 2000 Hz)	0.25	0.25	0.25	0.25	0.25	
Thermal Conductivity λ	NPD	NPD	NPD	NPD	NPD	
	Durability					
Internal Bond (N/mm ²)	0.32	0.32	0.32	0.30	0.30	
Swelling in Thickness (%)	15	15	15	15	15	
Bending Strength after Cyclic Test – Major Axis (N/mm ²)	8.0	8.0	8.0	7.0	7.0	
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	
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					
² T&G Products	Spacing	15mm T&G	18mm T&G			
³ Characteristic Point Load $F_{max,k}$ (N) (for floors and roofs)	400mm	5784	6243			
	600mm	5862	4747			
Point Load Mean Stiffness (N/mm) (for floors and roofs)	400mm	548	938			
	600mm	304	497			
² Characteristic Point Load Serviceability $F_{ser,k}$ (N) (for floors and roofs)	400mm	4049	4369			
	600mm	4103	3323			
¹ Max spacing 600mm ² NPD for square edge products ³ 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:



01/02/2017

Frank Fogarty, Quality Assurance Specialist

Waterford, Ireland. 1st February 2017