

DECLARATION OF PERFORMANCE Reference number DOP06REV0

SMARTPLY, Belview, Slieverue, Waterford, Ireland.

Product Type	Intended Use	AVCP*	Notified Body Reference				
OSB/4	Heavy duty load- bearing boards for use 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 Range (mm)	>6 t	o 10	>10 to 18		>18 to 25		>25 to 32		>32 to 40		
Angle to Major Axis	0	90	0	90	0	90	0	90	0	90	
Characteristic Strength (N/mm 2) - Bending f_m	24.5	13.0	23.0	12.2	21.0	11.4	NPD	NPD	NPD	NPD	
- Compression f _c	18.1	14.3	17.6	14.0	17.0	13.7	NPD	NPD	NPD	NPD	
- Tension f _t	11.9	8.5	11.4	8.2	10.9	8.0	NPD	NPD	NPD	NPD	
- Panel Shear f _v	6	.9	6	.9	6	.9	NI	PD	NF	PD	
- Planar Shear f _r	1	.1	1.1		1.1		NPD		NPD		
Mean Stiffness (MOE) (N/mm²) - Tension E _t	4300	3200	4300	3200	4300	3200	NPD	NPD	NPD	NPD	
- Compression E _c	4300	3200	4300	3200	4300	3200	NPD	NPD	NPD	NPD	
- Bending E _m	6780	2680	6780	2680	6780	2680	NPD	NPD	NPD	NPD	
- Panel Shear G _v	10	90	10	90	10	90	N	PD	NF	PD	
- Planar Shear G _r	60		60		60		NPD		NPD		EN
¹ Reaction to Fire (excluding floorings)	¹D-s	2,d0	¹D-s	2,d0	D-s	1,d0	D-s	1,d0	D-s	1,d0	13986:2004 +A1:2015
Reaction to Fire (floorings)	N	PD	D _{FL} -s1		D _{FL} -s1		D _{FL} -s1		D _{FL} -s1		
Water Vapour Permeability μ - Wet Cup - Dry Cup	NPD NPD		180 430		NPD NPD		NPD NPD		NPD NPD		
Release of Formaldehyde	Е	1	E1		E1		E1		E1		
Release (content) of Pentachlorophenol (PCP)	NF	NPD		NPD		NPD		NPD		PD	
Airborne Sound Insulation (surface mass) (R)	NI	NPD		NPD		NPD		NPD		PD	
Sound Absorption α (250 – 500 Hz)	0.	0.10		0.10		0.10		0.10		10	
Sound Absorption α (1000 – 2000 Hz)	0.	25	5 0.25		0.25		0.25		0.25		
Thermal Conductivity λ	0.	13	0.	13	0.	13	0.	13	0.	13	



Essential Characteristics	Performance							Harmonise Technical specification	
Durability									
Thickness Range (mm)	6 to 10 >10 to <18			18 t	18 to 25 >25 to 32		>32 to 40		
Internal Bond (N/mm²)	0.50	50 0.45		0.40		0.35	0.30	1	
Swelling in Thickness (%)	12	12		12		12	12	1	
Moisture Resistance - Internal Bond after Boil Test (N/mm2)	NPD	NPD	NPD		PD	NPD	NPD		
Moisture Resistance - Internal Bond after Cyclic Test (N/mm²)	NPD	NPD	NPD		PD	NPD	NPD		
Bending Strength after Cyclic Test – Major Axis (N/mm²)	15	14	14		3	6	6		
Mechanical (creep k _{def}) Service Class 1	1.50	1.50	1.50		50	1.50	1.50		
Mechanical (creep k _{def}) Service Class 2	2.25	2.25	2.25		25	2.25	2.25		
Thickness Range (mm)					o 40		1		
Load-Duration Class	Permanent Action		Long Term Action		lium Action	Short Term Action	Instantaneo us Action		
Mechanical (duration of load k _{mod}) Service Class 1	0.40	0.50	0.50		70	0.90	1.10	EN 13986:2004	
Mechanical (duration of load k _{mod}) Service Class 2	0.30	0.40	0.40		55	0.70	0.90	+A1:2015	
Biological	Use Classes 1 & 2								
² T&G Products	Spacing	12.5mm T&G		5mm 「&G	18m T&C				
³ Characteristic Point load F _{max, k} (N)	400mm	NPD	١	NPD	NPE) NPD	NPD		
(for floors and roofs)	600mm	NPD	١	NPD	NPE) NPD	NPD		
Point Load Mean Stiffness (N/mm)	400mm	NPD	NPD N		NPE) NPD	NPD		
(for floors and roofs)	600mm	NPD	١	NPD	NPE) NPD	NPD		
³ Characteristic Point Load Serviceability F _{ser,k} (N)	400mm	NPD	NPD N		NPE) NPD	NPD		
(for floors and roofs)	600mm	NPD NPD N		NPE) NPD	NPD			
Soft Body Impact Resistance	400mm	NPD			NPE			_	
Floor/roofs	600mm	NPD	NPD N		NPE				
Soft Body Impact	Spacing > 9mm					n	_		
Resistance Walls	NPD								
4	NPD					NPD			

¹ minimum thickness 9mm for thickness range >6 – 10mm & performance D-s1,d0 for 18mm within thickness range >10 to 18

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:

Frank Fogarty, Quality Assurance Specialist.

Waterford, Ireland. 9th August 2016.

09/08/2016

Frank Fogorts

² NPD for square edge products

³ characteristic means lower 5th percentile calculated according to EN 1058