

DECLARATION OF PERFORMANCE SMARTPLY ULTIMA Reference number UKCADOP06 REV0

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

Product Type	Intended Use	AVCP*	UK Assessment Body					
OSB/4	Heavy duty load-bearing boards for use 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								Designated Standard		
Thickness Range (mm)	>6 to 10 >10 to 18		>18 to 25 >25 to 32			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 fm	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		NPD		NPD		
- Planar Shear fr	1.1		1.1		1.1		NPD		NPD		
Mean Stiffness (MOE) (N/mm ²)											
- Tension Et	4300	3200	4300	3200	4300	3200	NPD	NPD	NPD	NPD	
- Compression <i>E_c</i>	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}	1090		1090		1090		NPD		NPD		
- Planar Shear G _r	60		60		60		NPD		NPD		BS EN
¹ Reaction to Fire (excluding floorings)	¹ D-s2,d0		¹ D-s2,d0		D-s1,d0		D-s1,d0		D-s1,d0		13986:2004 +A1:2015
Reaction to Fire (floorings)	NPD		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	E1		E1		E1		E1		E1		
Release (content) of Pentachlorophenol (PCP)	NPD		NPD		NPD		NPD		NPD		
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		
Sound Absorption α (1000 – 2000 Hz)	0.25		0.25		0.25		0.25		0.25		
Thermal Conductivity λ	0.	0.13 0.13		0.13		0.13		0.13			



Essential Characteristics	Performance							Designated Standard		
		Durabili	ty							
Thickness Range (mm)	6 to 10 >10 to <		18 18 to 25			>25 to 32		>32 to 40	-	
Internal Bond (N/mm ²)	0.50	0.45	0.45		0.40		0.35	0.30		
Swelling in Thickness (%)	12	12	12 12		2	12		12		
Moisture Resistance - Internal Bond after Boil Test (N/mm2)	NPD	NPD		NPD		NPD		NPD		
Moisture Resistance - Internal Bond after Cyclic Test (N/mm ²)	NPD	NPD	NPD NPD		۶D	NPD		NPD		
Bending Strength after Cyclic Test – Major Axis (N/mm ²)	15	14		13		6		6		
Mechanical (creep k _{def}) Service Class 1	1.50	1.50		1.	1.50		1.50	1.50		
Mechanical (creep k _{def}) Service Class 2	2.25	2.25			2.25		2.25	2.25		
Thickness Range (mm)	Dermonent	L ann Ta		>6 to Med	to 40		ort Term	Instantaneo		
Load-Duration Class	Permanent Action	Long Te Actior		Term /			Action	us Action		
Mechanical (duration of load k _{mod}) Service Class 1	0.40	0.50		0.7	70 (0.90	1.10	BS EN 13986:2004	
Mechanical (duration of load k _{mod}) Service Class 2	0.30	0.40		0.9	55 0		0.70	0.90	+A1:2015	
Biological			ι	lse Clas	ses 1 & :	2				
² T&G Products	Spacing	12.5mm T&G		ömm '&G	18mm T&G		22mm T&G	24mm T&G		
³ Characteristic Point load	400mm	NPD	Ν	IPD	NPD		NPD	NPD		
F _{max, k} (N) (for floors and roofs)	600mm	NPD	Ν	IPD	NPE	PD NPD		NPD		
Point Load Mean Stiffness	400mm	NPD	Ν	IPD	NPE	NPD N		NPD		
(N/mm) (for floors and roofs)	600mm	NPD	Ν	IPD	NPD		NPD	NPD		
³ Characteristic Point Load	400mm	NPD	Ν	IPD	NPD		NPD	NPD		
Serviceability F _{ser,k} (N) (for floors and roofs)	600mm	NPD	Ν	IPD	NPE	IPD NP		NPD		
Soft Body Impact Resistance	400mm	NPD	Ν	IPD	NP	0	NPD	NPD		
Floor/roofs	600mm	NPD	Ν	IPD	NPE)	NPD	NPD		
Soft Body Impact	Spacing				> 9mm					
Resistance	NPD				NPD]	
Walls	NPD				NPD					
¹ minimum thickness 9mm for	range >6 – 1	0mm & perfo	ormar	nce D-s1	,d0 for	18m	m within ra	nge >10 to 18		
² NPD for square edge produc	ts									
³ characteristic means lower 5	5 th percentile	calculated ad	ccord	ling to E	N 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.