

#### **DECLARATION OF PERFORMANCE**

## Reference number **DOP01REV2**

SmartPly Europe Ltd.

Belview,

Slieverue,

Waterford,

Ireland.

Product type	Intended use	AVCP*	Notified Body reference
OSB/3	Internal use as structural components in humid conditions	2+	0050
*Assessment and verifica	tion of constancy of performance sys	tem according to Annex V o	of regulation (EU) No 305/2011

### **Declared performance**

Essential characteristics					Perfo	mance					Harmonis technica specificati
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/mm²)											
- Bending $f_m$	18.0	9.0	16.4	8.2	14.8	7.4	NPD	NPD	NPD	NPD	
- Compression $f_c$	15.9	12.9	15.4	12.7	14.8	12.4	NPD	NPD	NPD	NPD	
- Tension $f_t$	9.9	7.2	9.4	7.0	9.0	6.8	NPD	NPD	NPD	NPD	
- Panel Shear $f_{ m v}$	6	.8	6	.8	6	.8	N	PD	NI	PD	
- Planar shear $f_r$	1	.0	1	.0	1	.0	N	PD		PD	
Mean Stiffness (MOE) (N/mm²)		e									
- Tension E <sub>t</sub>	3800	3000	3800	3000	3800	3000	NPD	NPD	NPD	NPD	
<ul> <li>Compression E<sub>c</sub></li> </ul>	3800	3000	3800	3000	3800	3000	NPD	NPD	NPD	NPD	
- Bending E <sub>m</sub>	4930	1980	4930	1980	4930	1980	NPD	NPD	NPD	NPD	
- Panel Shear $G_{\nu}$	10	80	10	80	10	80	NI	PD	NE	PD	
<ul> <li>Compression G<sub>t</sub></li> </ul>	5	0	5	0	5	0	NI	PD	NF	PD	
<sup>1</sup> Reaction to fire (excluding floorings)	¹D-s	2,d0	<sup>1</sup> D-s	2,d0	D-s:	L,d0	D-s:	L,d0	D-s1	L,d0	EN 13986:20
Reaction to fire (floorings)	NF	D	Dei	-s1	Dei	-s1	Dri	-s1	De	-s1	
Water vapour permeability µ	NF	D	NE		NI			PD		PD PD	
Release of formaldehyde	Е	1	Е	MV	E			1	E		
Release (content) of pentachlorophenol (PCP)	NF	D	NF	D	NE		NF		NF		
Airborne sound insulation (surface mass) (R)	NF	D	NF	D	NF	PD D	NF	PD	NF	PD	
Sound absorption α (250 – 500 Hz)	0.:	10	0.:	10	0.	10	0.:	10	0.:	10	
Sound absorption α (1000 – 2000 Hz)	0.2	25	0.2	25	0.3	25	0.2	25	0.2	25	
Thermal conductivity λ	0.1	11	0.3	L1	0.:	11	NF	D	NP	D	



Essential characteristics		Performance						Harmonised 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)	0.34	0.32			30		0.29	0.26	
Swelling in thickness (%)	15	15		1	.5		15	15	
Moisture resistance - Internal bond after boil test (N/mm2)	NPD	NPD		N	PD		NPD	NPD	
Moisture resistance - Internal bond after cyclic test (N/mm2)	NPD	NPD		N	PD		NPD	NPD	
Bending strength after cyclic test – major axis (N/mm²)	9	8			7		6	6	
Mechanical (creep k <sub>def</sub> ) service class 1	1.50	1.50		1.	50		1.50	1.50	
Mechanical (creep k <sub>def</sub> ) service class 2	2.25	2.25	2.25		25		2.25	2.25	
Thickness Range (mm)				>6 t	o 40				
Load-duration class	Permanent Action	Long Term Action			m Term Shor		nort Term Action	Instantaneous Action	
Mechanical (duration of load k <sub>mod</sub> ) Service class 1	0.40	0.50	0.50		0.7		0.90	1.10	
Mechanical (duration of load k <sub>mod</sub> ) Service class 2	0.30	0.40		0.55			0.70	0.90	EN 13986:2004
Biological		Use classes 1 & 2							
<sup>2</sup> T&G Products	Spacing	12.5mm T&G		5mm F&G	18mi		22mm T&G	24mm T&G	
<sup>3</sup> Characteristic Point load F <sub>max, k</sub> (N)	400mm	3019	4	815	5494	4	6709	7610	
(for floors and roofs)	600mm	2766	3	8807	4712	2	6575	7272	
Point load mean stiffness (N/mm)	400mm	395	į	563	797	Ü.	1161	1305	
(for floors and roofs)	600mm	188	;	322	426	É	669	754	10
<sup>3</sup> Characteristic Point load serviceability F <sub>ser.k</sub> (N)	400mm	2113	2113 3		3846	5	4696	5327	
(for floors and roofs)	600mm	1936	2	:665	3298	3	4603	5091	
Soft Body Impact resistance	400mm	Class I		lass I	Class		Class I	Class I	
Floor/roofs	600mm	Class II	C	lass I	Class	1	Class I	Class I	
Soft Body Impact resistance		Spacing					> 9mm		
Walls		400mm					Class III		
		600mm					Class III		

<sup>&</sup>lt;sup>1</sup> 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:

Anne Lucey

Anne Lucey, Quality & Environmental Manager.

Waterford, Ireland. 14<sup>th</sup> October 2014.

<sup>&</sup>lt;sup>2</sup> NPD for square edge products

<sup>&</sup>lt;sup>3</sup> characteristic means lower 5<sup>th</sup> percentile calculated according to EN 1058



# **DECLARATION OF PERFORMANCE**

Reference number **DOP02REV2** 

Smart*Ply* Europe Ltd.

Belview,
Slieverue,
Waterford,
Ireland.

Product type	Intended use	AVCP*	Notified Body reference
OSB/2	Internal use as structural components in dry conditions	2+	0050
*Assessment and verificat	tion of constancy of performance	system according to Annex V of r	egulation (EU) No 305/2011

### **Declared performance**

Essential characteristics					Perfor	mance					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/mm²)											
- Bending $f_m$	18.0	9.0	16.4	8.2	14.8	7.4	NPD	NPD	NPD	NPD	
- Compression $f_c$	15.9	12.9	15.4	12.7	14.8	12.4	NPD	NPD	NPD	NPD	
- Tension $f_t$	9.9	7.2	9.4	7.0	9.0	6.8	NPD	NPD	NPD	NPD	
- Panel Shear $f_{\nu}$	6.	.8	6	.8	6	.8	N	PD	NI	PD	
- Planar shear $f_r$	1.	.0	1	.0	1	.0	N	PD		PD	
Mean Stiffness (MOE) (N/mm²)											
- Tension E <sub>t</sub>	3800	3000	3800	3000	3800	3000	NPD	NPD	NPD	NPD	
- Compression E <sub>c</sub>	3800	3000	3800	3000	3800	3000	NPD	NPD	NPD	NPD	
- Bending E <sub>m</sub>	4930	1980	4930	1980	4930	1980	NPD	NPD	NPD	NPD	
- Panel Shear $G_{\nu}$	10	80	10	80	10	80	NI	PD	NE	PD	
- Compression G <sub>t</sub>	5	0	5	0	5	0	NI	PD	NE	PD	
<sup>1</sup> Reaction to fire (excluding floorings)	¹D-s2	2,d0	D-s2	2,d0	D-s2	2,d0	D-s2	2,d0	D-s2	2,d0	EN 13986:2004
Reaction to fire (floorings)	NP	D	D <sub>FL</sub>	-s1	D <sub>FI</sub>	-s1	Dei	-s1	D <sub>FL</sub>	-s1	
Water vapour permeability µ	NP	D	NF		NE		N		NE		
Release of formaldehyde	E:	1	Е	1	Е	1	Е	1	E	THE STATE OF THE S	
Release (content) of pentachlorophenol (PCP)	NP	D	NF	D	NF	D	NF	D	NF		
Airborne sound insulation (surface mass) (R)	NP	D	NP	D	NF	D	NF	D	NF	D	
Sound absorption α (250 – 500 Hz)	0.1	10	0.1	LO	0.1	LO	0.:	10	0.1	10	
Sound absorption α (1000 – 2000 Hz)	0.2	25	0.2	25	0.2	25	0.2	25	0.2	25	
Thermal conductivity λ	NP	D	NP	D	NP	D	NF	D	NP	D.	





Essential characteristics			Performance			Harmonised technical specification	
Durability							
Thickness range (mm)	6 to 10	>10 to <18	18 to 25	>25 to 32	>32 to 40		
Internal bond (N/mm²)	0.34	0.32	0.30	0.29	0.26		
Swelling in thickness (%)	20	20	20	20	20	-	
Mechanical (creep k <sub>def</sub> ) service class 1	2.25	2.25	2.25	2.25	2.25		
Thickness Range (mm)		1	>6 to 40				
Load-duration class	Permanent Action	Long Term Action	Medium Term Action	Short Term Action	Instantaneous Action		
<b>Mechanical</b> (duration of load $k_{mod}$ ) Service class 1	0.30	0.45	0.65	0.85	1.10		
Biological		Use class 1					
Characteristic Point load F <sub>max, k</sub> (N) (for floors and roofs)	NPD	NPD	NPD	NPD	NPD		
Point load mean stiffness (N/mm) (for floors and roofs)	NPD	NPD	NPD	NPD	NPD		
Characteristic Point load serviceability F <sub>ser, k</sub> (N) (for floors and roofs)	NPD	NPD	NPD	NPD	NPD		
Soft Body Impact resistance Floor/roofs	NPD	NPD	NPD	NPD	NPD		

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.

Anne Lucey	14/10/14
Anne Lucey, Quality & Environmental Manager.	Waterford, Ireland. 14 <sup>th</sup> October 2014.

Signed for and on behalf of the manufacturer by:



## **DECLARATION OF PERFORMANCE**

## Reference number **DOP03REV2**

SmartPly Europe Ltd.
Belview,
Slieverue,
Waterford,
Ireland.

Product type	Intended use	AVCP*	Notified Body reference
OSB/3	Internal use as structural components in humid conditions	2+	0050

#### **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	Specification
Angle to major axis	0	90	0	90	0	90	0	90	0	90	
Characteristic Strength (N/mm²)										30	
- Bending $f_m$	18.0	9.0	16.4	8.2	14.8	7.4	NPD	NPD	NPD	NPD	-
- Compression $f_c$	15.9	12.9	15.4	12.7	14.8	12.4	NPD	NPD	NPD	NPD	
- Tension $f_t$	9.9	7.2	9.4	7.0	9.0	6.8	NPD	NPD	NPD	NPD	
- Panel Shear $f_{ u}$	6.	.8	6	.8	6	.8	NI	PD	NI	PD	
- Planar shear $f_r$	1.	.0	1	.0	1	.0	NI	PD	NI	PD	
Mean Stiffness (MOE) (N/mm²)											
- Tension E <sub>t</sub>	3800	3000	3800	3000	3800	3000	NPD	NPD	NPD	NPD	
- Compression E <sub>c</sub>	3800	3000	3800	3000	3800	3000	NPD	NPD	NPD	NPD	
- Bending E <sub>m</sub>	4930	1980	4930	1980	4930	1980	NPD	NPD	NPD	NPD	
- Panel Shear $G_{\nu}$	10	80	10	80	10	80	NE	PD	NE	PD	
- Compression G <sub>t</sub>	5	0	5	0	5	0	NF	PD	NF	PD	EN 13986:200
<sup>1</sup> Reaction to fire (excluding floorings)	NF	D	¹D-s	2,d0	NF	D	NF	D	NF	D	214 23300.200
Water vapour permeability μ	NF	D	NF	D	NF	D	NF	D	NF	D	
Release of formaldehyde	Е	1	Е	1	Е	1	Е	1	Е	1	
Release (content) of pentachlorophenol (PCP)	NF	D	NF	D	NF	D	NF	D	NF	D	
Airborne sound insulation (surface mass) (R)	NP	D	NF	D	NF	D	NF	D	NP	D	
Sound absorption α (250 – 500 Hz)	0.1	LO	0.1	LO	0.3	10	0.1	LO	0.1	LO	
Sound absorption α (1000 – 2000 Hz)	0.2	25	0.2	25	0.2	25	0.2	25	0.2	25	
Thermal conductivity λ	NP	D	NP	D	NP	D	NP	D	NP	D	



Essential characteristics			Performance			Harmonised technical specification
Durability						
Thickness range (mm)	6 to 10	>10 to <18	18 to 25	>25 to 32	>32 to 40	
Internal bond (N/mm²)	0.34	0.32	0.30	0.29	0.26	
Swelling in thickness (%)	15	15	15	15	15	
Moisture resistance - Internal bond after boil test (N/mm²)	NPD	NPD	NPD	NPD	NPD	
Moisture resistance - Internal bond after cyclic test (N/mm²)	NPD	NPD	NPD	NPD	NPD	
Bending strength after cyclic test – major axis (N/mm²)	9	8	7	6	6	
Mechanical (creep k <sub>def</sub> ) service class 1	1.50	1.50	1.50	1.50	1.50	
Mechanical (creep k <sub>def</sub> ) service class 2	2.25	2.25	2.25	2.25	2.25	
Thickness Range (mm)			>6 to 40			
Load-duration class	Permanent Action	Long Term Action	Medium Term Action	Short Term Action	Instantaneous Action	
Mechanical (duration of load k <sub>mod</sub> ) Service class 1	0.40	0.50	0.70	0.90	1.10	EN 13986:200
Mechanical (duration of load k <sub>mod</sub> ) Service class 2	0.30	0.40	0.55	0.70	0.90	
Biological			Use classes 1 & 2			
Characteristic Point load F <sub>max, k</sub> (N) (for floors and roofs)	NPD	NPD	NPD	NPD	NPD	
Point load mean stiffness (N/mm) (for floors and roofs)	NPD	NPD	NPD	NPD	NPD	
Characteristic Point load serviceability F <sub>ser, k</sub> (N) (for floors and roofs)	NPD	NPD	NPD	NPD	NPD	
Soft Body Impact resistance Floor/roofs Walls	NPD	NPD	NPD	NPD	NPD	

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.

Anne Lucey	14/10/14
Anne Lucey, Quality & Environmental Manager.	Waterford, Ireland, 14 <sup>th</sup> October 2014

Signed for and on behalf of the manufacturer by: