DECLARATION OF PERFORMANCE

UKCA-DoP-1948-SQ-PINE-02-01

Manufacturer Identification

Manufacturer	*Representative in the UK*	*Manufacturing Facility*
Uruply S.A. Ruta 5, Km 400,5 Tacuarembó, 45000 – Uruguay *Tel.: +598 (0)63 222 00*	**Lumin Forest Products Ltd** Sweetman's Ave, **BLACKROCK** Co. Dublin – A94 F9N7 – Ireland *europe-sales@lumin.com*	**Uruply S.A.** Ruta 5, Km 400,5 Tacuarembó, 45000 – Uruguay

Product Identification

Product Type	*Technical Class*	*Intended Use*	*AVCP (*)*
Lumin® Plywood *Pine and/or Eucalyptus Plywood for Structural Use in in Exterior (**) Conditions (BS EN 636 – 3 S)*	**EN 636 – 3 – S (**) (structural)**	Load-bearing structural panels in dry covered service conditions (**) (BS EN 1995-1-1 - Service Class 1 or 2) for FLOORING or ROOFING.	**2+**

(*) Assessment and Verification of Constancy of Performance system according to Annex V of CPR (retained EU law 2011) as amended by (EU Exit) Regulations 2019 and 2020

(**) Glue bond satisfies to the BS EN 636-3 class. However, the exterior conditions may correspond to the biological Hazard Class 3 to BS EN 335, for which this product cannot be used without further treatment or coating.

Approved Body Reference

Notified Body	*Certificate or Assessment*	*Tasks performed for AVCP*
BM TRADA Chiltern House, Stocking Lane High Wycombe, Buckinghamshire HP14 4ND – United kingdom	**1224 – CPR – 0004** Certificate of factory Production Control from 06/10/2022	Initial inspection of factory Continuous Surveillance Certification of Factory Production Control

Declared Performance

The declared properties of the product are given in the table overleaf, based on the following Harmonised Technical Specifications:

BS EN 13986:2004+A1:2015 – *Wood-based panels for use in construction – Characteristics, evaluation of conformity and marking*

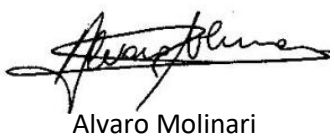
BS EN 636:2012+A1:2015 – *Plywood - Specifications*

Installation instructions and safety data sheets can be found on www.lumin.com.

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.

For and on behalf of the manufacturer by:

16/10/2023 in Tacuarembó, Uruguay



Alvaro Molinari
Industrial Manager - Uruply S.A.

Essential Characteristics			Performance for indicated Panel Thickness (mm)					
			9	*12*	*15*	*18*	*20*	*21 - 22*
Panel Layup [1]			PPP PEP	PPPP PEEP	PPPPP PEPEP PEEEP	PPPPP PPEPP PEPEP PEEEP	PPPPP PPEPP PEPEP PEEEP	PPPPPPP PPEPEPP PEPEPEP PEEEEEP
Characteristic Strength [2] [3]								
Bending – parallel	$f_{m,0,k}$	(N/mm²)	20.0	20.0	15.0	15.0	15.0	15.0
Bending – perpendicular	$f_{m,90,k}$	(N/mm²)	3.0	3.0	5.0	5.0	5.0	5.0
Compression	$f_{c,0,k}$	(N/mm²)	NPD	NPD	NPD	NPD	NPD	NPD
Tension	$f_{t,0,k}$	(N/mm²)	NPD	NPD	NPD	NPD	NPD	NPD
Panel Shear	$f_{v,k}$	(N/mm²)	3.0	3.0	3.0	3.0	3.0	3.0
Planar Shear	$f_{r,k}$	(N/mm²)	0.5	0.5	0.5	0.5	0.5	0.5
Mean Stiffness (MOE) [4]								
Bending – parallel	$E_{m,0}$	(N/mm²)	4 000	4 000	4 000	3 500	3 500	3 500
Bending – perpendicular	$E_{m,90}$	(N/mm²)	500	500	1 000	1 000	1 000	1 000
Compression	$E_{c,0}$	(N/mm²)	NPD	NPD	NPD	NPD	NPD	NPD
Tension	$E_{t,0}$	(N/mm²)	NPD	NPD	NPD	NPD	NPD	NPD
Panel Shear	G_v	(N/mm²)	300	300	300	300	300	300
Planar Shear	G_r	(N/mm²)	20	20	20	20	20	20
Density								
Characteristic Density [2]	ρ_k	(kg/m³)	410	410	410	410	410	410
Mean Density [5]	ρ_{mean}	(kg/m³)	450	450	450	450	450	450
Bonding quality / durability			Bonding Class 3					
Biological Durability			Hazard Class 2					
Reaction to fire class			D-s2, d0					
Release of formaldehyde class			E1					
Water vapour permeability	μ							
Wet cup			70	70	70	70	70	70
Dry cup			200	200	200	200	200	200
Airborne sound insulation	R		22.20	23.80	25.10	26.10	26.70	26.70
Sound absorption	α							
Frequency range 250Hz to 500 Hz			0.10	0.10	0.10	0.10	0.10	0.10
Frequency range 1000Hz to 2000 Hz			0.30	0.30	0.30	0.30	0.30	0.30
Thermal Conductivity	λ	(W/m.K)	0.13	0.13	0.13	0.13	0.13	0.13
Release (Content) of Pentachlorophenol (PCP)			< 5 ppm	< 5 ppm	< 5 ppm	< 5 ppm	< 5 ppm	< 5 ppm

1) P = Pine ; E = Eucalyptus
2) "Characteristic" = lower 5th percentile calculated as defined in BS EN 636:2012+A1:2015
3) The characteristic values are as specified in BS EN 12369-2:2004 and shall be modified for the given Service Class as described in BS EN 1995-1-1 using the relevant k_{mod} and k_{def} modification factors
4) The characteristic value for Stiffness should be taken as 0.8 times the mean value
5) The mean density for design should be taken as 1.1 times the characteristic value

Performance for Use in FLOORING or ROOFING Applications are declared in the table Overleaf

Essential Characteristics			Performance for indicated Panel Thickness (mm)					
			9	*12*	*15*	*18*	*20*	*21 - 22*
Panel Layup [1)]				PPPP PEEP	PPPPP PEPEP PEEEP	PPPPP PPEPP PEPEP PEEEP	PPPPP PPEPP PEPEP PEEEP	PPPPP PPEPP PEPEP PEEEP
Reaction to fire class for Flooring						D_{FL}-s1	D_{FL}-s1	D_{FL}-s1
Roofing – Cat. of Use H – spacing :				**610mm**	**815mm**	**1220mm**	**1220mm**	**1220mm**
Characteristic Point Load	$F_{max,k}$	(kN)		2.59	3.36	4.58	4.58	4.58
Mean Stiffness	R_{mean}	(kN)		107	109	77	77	77
Serviceability Point Load	$F_{ser,k}$	(kN)		1.81	2.35	3.20	3.20	3.20
Soft Body Impact Resistance Class				II	II	II	II	II
Flooring – Cat. of Use A – spacing :						**500mm**	**500mm**	**500mm**
Characteristic Point Load	$F_{max,k}$	(kN)		NPD	NPD	4.32	4.32	4.32
Mean Stiffness	R_{mean}	(kN)		NPD	NPD	328	328	328
Serviceability Point Load	$F_{ser,k}$	(kN)		NPD	NPD	3.02	3.02	3.02
Soft Body Impact Resistance Class				NPD	NPD	I	I	I
Racking Resistance for Walls				NPD	NPD	NPD	NPD	NPD
Soft Body Impact Resistance Class for Walls				NPD	NPD	NPD	NPD	NPD

1) P = Pine ; E = Eucalyptus

NOTE: Panels used for Flooring or Roofing application shall have their short edge supported by the joists and their long edge either tongued & grooved or entirely supported by and fixed to a nogging or batten.