

## DECLARATION OF PERFORMANCE

UKCA-DoP-1948-SQ-EUCA-05-02

### Manufacturer Identification

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

### Product Identification

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

(\*) 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
<b>BM TRADA</b> Chiltern House, Stocking Lane High Wycombe, Buckinghamshire HP14 4ND – United kingdom	<b>1224 – CPR – 0004</b> 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

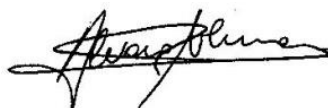
**BS EN 636:2012+A1:2015** – Plywood - Specifications

Installation instructions and safety data sheets can be found on [www.lumin.com](http://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.

Thin peel 5.5 mm panels are not available as CE2+ Structural application panels

Essential Characteristics			Performance for indicated Panel Thickness (mm)			
			9	12	15	18
<b>Panel Layout</b> <sup>1)</sup>			EEEE	EEEE	EEEE	EEEEEE
<b>Characteristic Strength</b> <sup>2) 3)</sup>						
Bending – parallel	$f_{m,0,k}$	(N/mm <sup>2</sup> )	30.0	30.0	30.0	20.0
Bending – perpendicular	$f_{m,90,k}$	(N/mm <sup>2</sup> )	15.0	15.0	15.0	15.0
Compression	$f_{c,0,k}$	(N/mm <sup>2</sup> )	NPD	NPD	NPD	NPD
Tension	$f_{t,0,k}$	(N/mm <sup>2</sup> )	NPD	NPD	NPD	NPD
Panel Shear	$f_{v,k}$	(N/mm <sup>2</sup> )	3.0	3.0	3.0	3.0
Planar Shear	$f_{r,k}$	(N/mm <sup>2</sup> )	0.5	0.5	0.5	0.5
<b>Mean Stiffness (MOE)</b> <sup>4)</sup>						
Bending – parallel	$E_{m,0}$	(N/mm <sup>2</sup> )	6 000	6 000	6 000	6 000
Bending – perpendicular	$E_{m,90}$	(N/mm <sup>2</sup> )	2 000	2 000	2 000	2 000
Compression	$E_{c,0}$	(N/mm <sup>2</sup> )	NPD	NPD	NPD	NPD
Tension	$E_{t,0}$	(N/mm <sup>2</sup> )	NPD	NPD	NPD	NPD
Panel Shear	$G_v$	(N/mm <sup>2</sup> )	300	300	300	300
Planar Shear	$G_r$	(N/mm <sup>2</sup> )	20	20	20	20
<b>Density</b>						
Characteristic Density	$\rho_k$	(kg/m <sup>3</sup> )	430	430	430	430
Mean Density	$\rho_{mean}$	(kg/m <sup>3</sup> )	520	520	520	520
<b>Bonding quality / durability</b>			Bonding Class 3			
<b>Biological Durability</b>			Hazard Class 2			
<b>Reaction to fire class</b>			D-s2, d0			
<b>Release of formaldehyde class</b>			E1			
<b>Water vapour permeability</b> $\mu$						
Wet cup			70	70	70	70
Dry cup			200	200	200	200
<b>Airborne sound insulation</b> $R$			22.20	23.80	25.10	26.10
<b>Sound absorption</b> $\alpha$						
Frequency range 250Hz to 500 Hz			0.10	0.10	0.10	0.10
Frequency range 1000Hz to 2000 Hz			0.30	0.30	0.30	0.30
<b>Thermal Conductivity</b> $\lambda$ (W/m.K)			0.13	0.13	0.13	0.13
<b>Release (Content) of Pentachlorophenol (PCP)</b>			< 5 ppm	< 5 ppm	< 5 ppm	< 5 ppm

1) P = Pine ; E = Eucalyptus

2) "Characteristic" = lower 5<sup>th</sup> 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

Thin peel 5.5 mm panels are not available as CE2+ Structural application panels

Essential Characteristics	Performance for indicated Panel Thickness (mm)				
		9	12	15	18
<b>Panel Layup</b> <sup>1)</sup>		EEEE	EEEE	EEEE	EEEEEE
<b>Reaction to fire class for Flooring</b>		NPD	D <sub>FL</sub> -S1	D <sub>FL</sub> -S1	D <sub>FL</sub> -S1
<b>Roofing – Cat. of Use H – spacing : 610 mm</b>					
Characteristic Point Load $F_{max,k}$ (kN)		NPD	2.50	2.50	4.04
Mean Stiffness $R_{mean}$ (kN)		NPD	165	165	322
Serviceability Point Load $F_{ser,k}$ (kN)		NPD	3.57	3.57	5.78
Soft Body Impact Resistance Class		NPD	I	I	I
<b>Roofing – Cat. of Use H – spacing : 1220 mm</b>					
Characteristic Point Load $F_{max,k}$ (kN)		NPD	NPD	NPD	4.04
Mean Stiffness $R_{mean}$ (kN)		NPD	NPD	NPD	99
Serviceability Point Load $F_{ser,k}$ (kN)		NPD	NPD	NPD	5.78
Soft Body Impact Resistance Class		NPD	NPD	NPD	II
<b>Flooring – Cat. of Use A – spacing : 500 mm</b>					
Characteristic Point Load $F_{max,k}$ (kN)		NPD	NPD	NPD	4.04
Mean Stiffness $R_{mean}$ (kN)		NPD	NPD	NPD	496
Serviceability Point Load $F_{ser,k}$ (kN)		NPD	NPD	NPD	5.78
Soft Body Impact Resistance Class		NPD	NPD	NPD	I
<b>Flooring – Cat. of Use A – spacing : 610 mm</b>					
Characteristic Point Load $F_{max,k}$ (kN)		NPD	NPD	NPD	NPD
Mean Stiffness $R_{mean}$ (kN)		NPD	NPD	NPD	NPD
Serviceability Point Load $F_{ser,k}$ (kN)		NPD	NPD	NPD	NPD
Soft Body Impact Resistance Class		NPD	NPD	NPD	NPD
<b>Racking Resistance for Walls</b>		NPD	NPD	NPD	NPD
<b>Soft Body Impact Resistance Class for Walls</b>		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.**