

## DECLARATION OF PERFORMANCE – DOP N° PAL 002

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**1. Unique identification code of the product-type:**

Palmapine Pine Plywood CE2+

**2. Type number or other identification of the construction product:**

Palmapine Pine Plywood CE2+

EN 636-2 S

**3. Intended use or uses of the construction product:**

Pine Plywood for Structural Use in Internal and Humid Conditions

EN 636-2 S

**4. Name and contact address of the manufacturer:**

Palmasola S.A. Madeiras e Agricultura

Av. Crestani, 515, Palma Sola, SC

CEP 89985-000 Brazil

export@palmasola.com.br

**5. Name and contact address of the authorised representative:** None.

**6. System of assessment and verification of constancy of performance of the construction product:** System 2+

**7. Harmonised standard covering the declaration of performance:**

BM TRADA (Notified body N° 1224) has performed initial inspection of the manufacturing plant and factory production control and performs continuous surveillance, assessment and evaluation of factory production control under system 2+ and issued a certificate of conformity of the factory production control (Certificate N° 1224-CPR-0022).

**8. European Technical Assessment:** Not applicable.

## 9. Declared performance:

Harmonised technical specification EN 13986:2004+A1:2015

Essential characteristics		Performance	
Nominal thickness (mm)		18	
Number of plies		9	
Bonding quality		Class 3	
Release of formaldehyde		E1	
Content of pentachlorophenol (PCP)		< 5 ppm	
Reaction to fire (Excluding floorings)	Without an air gap behind the plywood	Class Ds2,d0	
	With a closed or an open air gap not more than 22 mm behind the plywood	Class Ds2,d2	
	With a closed air gap behind the plywood	Class Ds2,d1	
Density (kg/m <sup>3</sup> )		570	
Water vapour permeability	Wet cup (μ)	77	
	Dry cup (μ)	207	
Sound absorption coefficient		0,10 (250 Hz to 500 Hz) 0,30 (1000 Hz to 2000 Hz)	
Thermal conductivity W/(m.K)		0,144	
<b>Resistance (N/mm<sup>2</sup>)</b>			
Bending $f_{m,k}$	//	15,22	
	⊥	12,67	
Compression $f_{c,k}$	//	19,27	
	⊥	19,66	
Tension $f_{t,k}$	//	10,1	
	⊥	8,92	
<b>Modulus of Elasticity (N/mm<sup>2</sup>)</b>			
Bending $E_m$	//	5009	
	⊥	4308	
Compression $E_c$	//	4102	
	⊥	4241	
Tension $E_t$	//	2769	
	⊥	3551	

Note: Performance for use in ROOFING applications, see ANNEX I.

[www.palmasola.com.br](http://www.palmasola.com.br)

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**10. Performance of the product:**

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Palma Sola, 13 May 2020



Luiz Carlos Reis de Toledo Barros  
Commercial Manager  
Palmasola S.A.

## ANNEX I

Harmonised technical specification EN 13986:2004+A1:2015

<b>Strength and stiffness under point load for ROOF decking on joists</b>	
<b>Essential characteristics</b>	<b>Performance</b>
<b>Nominal thickness (mm)</b>	18*
<b>Spacing on joists</b>	1000 mm
<b>Edge type</b>	T&G
<b>Characteristic ultimate limit state <math>F_{max,k}</math> (kN)</b>	3,637
<b>Characteristic serviceability limit state <math>F_{ser,k}</math> (kN)</b>	3,210
<b>Mean Stiffness <math>R_{mean}</math> (N/mm)</b>	160

\* ITT test according to EN13986:2004 & EN1195:1197 performed by DTI (EU notified body 1235). Report reference 635656. With a span width of 1000 mm, the test showed that the panels meet the requirements for roofs (point load and soft body impact test) given EN12871.