

**Declaration of Performance
DoP N° GRP/PP/13/CE2+**



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Product identification	PINE PLYWOOD EN 636-2 S									
Product Types	9mm 12mm4 12mm 12,5mm 15mm 18mm 21mm 24mm 27mm 30mm									
Intended uses	(See page 2)									

Name and contact address of the manufacturer	INDUSTRIA DE COMPENSADOS GUARARAPES Rua Alcina Santos Araújo, 411, São Francisco Palmas, PR, 85555-000, BRAZIL
Mill identification	GUARARAPES - PALMAS
Harmonized standard	EN 13986:2004
AVCP System	2+
Notified Body	1034 - HFB Engineering GMBH, Leipzig, Germany
Certificate	1034-CPD-12981/2/10 dated 21 st June 2010

Essential characteristics	Declared performance	Technical Specification
Release of formaldehyde	E1 (phenolic resin bonded)	EN 13986 Annex B Note 2
Bond quality	Class 3	EN 314-1/2 Type testing
Density	560 Kg/m3	EN 323 Type testing
Reaction to fire	D-s2, d0 / Flooring - DFL-s1	EN 13986 Table 8
Water vapour permeability	Wet - 70 µ / Dry - 200 µ	EN 13986 Table 9
Airborne sound insulation	R = 13 x lg (m _A) + 14	EN 13986 part 5.10
Sound absorption coefficient	0,10 / 0,30	EN 13986 Table 10
Thermal conductivity	0,13 W/(m.K)	EN 13986 Table 11
Content of pentachlorophenol	< 5 ppm	EN 13986 part 5.18
Biological durability	Class 2	EN 335 / EN 1099

Dimensional tolerances	Declared performance	Technical Specification
Length and width	+0 / -3.0mm	EN 324-2
Squareness	+/- 1.0 mm/m	
Straightness	+/- 1.0 mm/m	
Thickness	See below per Type	EN 324-1 / EN 315 / EN 12871
	Product Type	9mm 12mm4 12mm 12,5mm 15mm 18mm 21mm 24mm 27mm 30mm
	Maximum (mm)	9,8 12,8 12,8 13,1 15,8 18,8 21,8 24,8 27,8 30,8
	Minimum (mm)	8,2 11,2 11,2 11,6 14,2 17,2 19,2 22,8 26,8 28,2

Essential characteristics	Declared performance	Technical Specification
Bending properties	See below per Type	EN 310 Type testing
	Type	9mm 12mm4 12mm 12,5mm 15mm 18mm 21mm 24mm 27mm 30mm
Bending strength (N/mm ²)	F _k , 0	51,7 38,4 40,0 41,3 42,4 39,3 40,1 39,3 39,6 39,2
	F _k , 90	8,0 15,7 18,5 17,4 19,0 23,2 25,0 24,8 22,6 22,7
Bending stiffness (N/mm ²) MOE	E _k , 0	7.308 4.055 5.094 5.815 5.737 5.743 6.147 5.118 5.795 5.529
	E _k , 90	607 1.131 1.829 1.318 2.284 2.032 2.688 3.665 2.753 3.586



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Intended use (1)		Internal use as structural components in humid conditions.									
Essential characteristics		Declared performance						Technical Specification			
Strength and stiffness for structural use (N/mm ²)			See below per Type						EN 12369-2 / EN 636		
	Product Type	9mm	12mm4	12mm	12,5mm	15mm	18mm	21mm	24mm	27mm	30mm
	Para. Fk, 0	30,0	25,0	25,0	25,0	25,0	25,0	25,0	25,0	25,0	25,0
	Perp. Fk, 90	5,0	10,0	10,0	10,0	10,0	15,0	15,0	15,0	15,0	15,0
	Para. Em, 0	7.000	4.000	5.000	5.000	5.000	5.000	6.000	5.000	5.000	5.000
	Perp. Em, 90	500	1.000	1.000	1.000	2.000	2.000	2.500	3.000	2.500	3.000

Intended use (2)		Structural wall sheathing on studs.									
Essential characteristics		Declared performance						Technical Specification			
Soft body impact resistance		Fulfilled for Type 12,5mm						EN 12781 / EN 596 Type testing			

Intended use (3)		Structural roof decking on joists.												
Essential characteristics		Declared performance						Technical Specification						
Strength and Stiffness under point load			See below per Type						EN 12781 / EN 1195 Type testing					
	Product Type	12,5mm / 15mm			12,5mm	15mm	18mm	21mm / 24mm / 27mm						
	Edge type	Square			T&G	T&G	T&G	T&G						
	Spacing (mm)	400	450	600	600	815	1220	1220						
	Fser	Middle	2.087	2.203	1.711	3.022	3.662	3.844	3.838					
Strength (N)		Joint	x	x	x	2.801	2.598	3.763	4.717					
Fmax	Middle	3.536	3.548	3.800	3.484	4.348	4.132	5.443						
Joint	x	x	x	3.014	3.145	4.348	4.753							
Stiffness (N/mm)	Rmean	Middle	546	482	274	202	201	170	196					
		Joint	x	x	x	181	148	107	139					
Impact resistance			Fulfilled	Fulfilled	Fulfilled	Fulfilled	Fulfilled	Fulfilled	Fulfilled					

Intended use (4)		Structural floor decking on joists.												
Essential characteristics		Declared performance						Technical Specification						
Strength and Stiffness under point load			See below per Type						EN 12781 / EN 1195 Type testing					
	Product Type	18mm / 21mm / 24mm / 27mm												
	Edge type	Square						T&G						
	Spacing (mm)	400	480	600				400	480	600				
	Fser	Middle	3.634	4.112	3.485			3.077	3.802	3.405				
Strength (N)		Joint	x	x	x			2.795	2.696	2.464				
Fmax	Middle	6.003	5.779	4.915			4.993	5.297	5.270					
Joint	x	x	x			3.551	3.721	4.059						
Stiffness (N/mm)	Rmean	Middle	1.025	858	605			952	804	586				
		Joint	x	x	x			774	649	466				
Impact resistance			Fulfilled	Fulfilled	Fulfilled			Fulfilled	Fulfilled	Fulfilled				

Place and date of issue		Issued by				Signature			
Palmas, 1st July 2013.		Gerson Aldo de Souza Technical Manager							

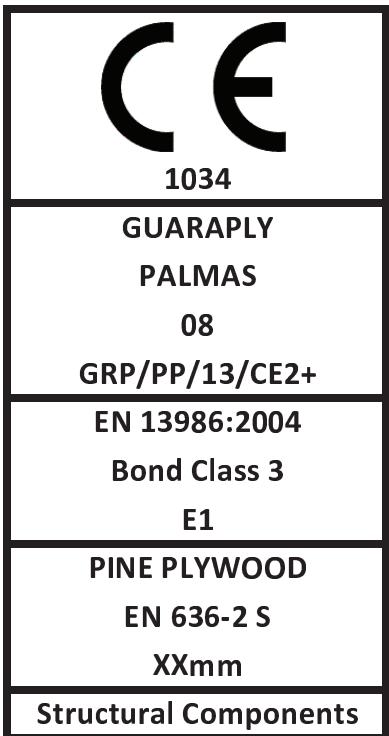
**CE Marking
DoP N° GRP/PP/13/CE2+**



Product identification	PINE PLYWOOD EN 636-2 S								
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Standard panel markings

Product Types	9mm	12mm	12mm4	12mm	12,5mm	15mm	18mm	21mm	24mm	27mm	30mm
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CE symbol

Notified Body number

Guararapes Trade Mark

Manufacturing mill

Year of first CE Marking

Declaration of Performance

Harmonized standard

Bond quality

Release of formaldehyde

Product identification

Product type

Intended use as structural components in humid conditions

or

CE 1034 GUARAPLY PALMAS 08 DoP GRP/PP/13/CE2+ EN 13986:2004 BondClass3 E1
PINE PLYWOOD EN 636-2 S XXmm Structural Components

Special panel markings (attached to the standard markings, when applicable)

Product Types	12,5mm
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Intended use as structural wall sheathing on studs

Intended use as structural roof decking on joists

Product Types	15mm	18mm	21mm	24mm	27mm	30mm
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Intended use as structural roof decking on joists

Intended use as structural floor decking on joists

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Palmas, 1 st July 2013.	Gerson Aldo de Souza Technical Manager	

**REACH Statement
DoP N° GRP/PP/13/CE2+**



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Name and contact address of the manufacturer	INDUSTRIA DE COMPENSADOS GUARARAPES Rua Alcina Santos Araújo, 411, São Francisco Palmas, PR, 85555-000, BRAZIL
Mill identification	GUARARAPES - PALMAS

In compliance to	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
	Article 33 Duty to communicate information on substances in articles
And akowledging the	Candidate List of Substances of Very High Concern for Authorisation (published in accordance with Article 59(10) of the REACH Regulation) Last updated: 20 June 2013 to contain 144 substances.

We hereby state that	We are the ARTICLE producer of the above mentioned product.
	The above mentioned product is softwood plywood made solely of softwood veneers and bonded with phenol-formaldehyde resin, and is not treated with any chemicals.
	The above mentioned product is an ARTICLE which do not contain more than 0.1% of any of the SUBSTANCES of the SVHC list.
	NOTIFICATION is thus not required for this ARTICLE.

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Palmas, 1st July 2013.	Gerson Aldo de Souza Technical Manager	