

Product identification	PINE PLYWOOD EN 636-2S							
Product Types	9mm	12mm	15mm	18mm - 7	20mm	22mm	25mm	
Intended uses	(See page 2)							

Name and contact address of the manufacturer	MARINI INDÚSTRIA DE COMPENSADOS LTDA Rod. PRT 449 km 2,4 - Area Industrial Palmas, PR - 85.555-000 - Brazil							
Mill identification	MARINI - PALMAS							
Harmonized standard	EN 13986:2004							
AVCP System	2+							
Notified Body	Nr 1034 - HFB Engineering GMBH, Leipzig, Germany							
Certificate	Nr 1034-CPD-1396/1/2013							

Essential characteristics	Declared performance	Technical Specification
Release of formaldehyde	E1 (phenolic resin bonded)	EN 13986 Anex B Note 2
Bond quality	Class 3	EN 314-1/2 Type testing
Density	570 kg/m ³	EN 323 Type testing
Reaction to fire	D-s2, d0 / Floring - DFL-s1	EN 13986 Table 8
Water vapour permeability	Wet - 70 μ / Dry - 200 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								
Straingthness	+/-1.0 mm/m								
Thickness	See below per Type							EN 324-1 / EN 315 / EN 12871	
	Prodct Type	9mm	12mm	15mm	18mm - 7	20mm	22mm	25mm	
	Maximum (mm)	9,5	12,6	15,7	18,7	20,8	22,9	26	
	Minimum (mm)	8,3	11,2	14,2	17,1	19	20,9	23,9	

Essential characteristics	Declared performance	Technical Specification							
Bending properties	See below per Type							EN 310 Type testing	
	Type	9mm	12mm	15mm	18mm - 7	20mm	22mm	25mm	
Bending strength (N/mm ²)	Fk, 0	48,4	52,4	43,1	39,0	32,4	38,6	38,3	
	Fk, 90	33,7	28,0	21,9	28,2	26,8	22,9	32,5	
Bending stiffness (N/mm ²) MOE	Fk, 0	5.538	7.102	6.367	5.346	5.985	5.387	4.495	
	Fk, 90	1.983	2.095	2.115	2.532	3.600	2.734	3.267	



Declaration of Performance
DoP MRP-CE-13/CE2+



Intended use (1)		Internal use as structural components in humid conditions.							
Essential characteristics		Declared performance					Technical Specification		
Strenght and stiffness for structural use (N/mm2)		See below per Type					EN 12369-2 / EN 636		
	Product type	9mm	12mm	15mm	18mm - 7	20mm	22mm	25mm	
	Para. Fk, 0	30,0	25,0	25,0	25,0	25,0	25,0	25,0	
	Perp. Fk, 90	10,0	10,0	15,0	15,0	15,0	15,0	15,0	
	Para. Em, 0	5.000	4.000	4.000	5.000	5.000	4.000	5.000	
	Perp. Em, 90	500	1000	2.000	2.000	3.000	3.000	3.000	





CE Marking
DoP MRP-CE-13/CE2+



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

Product Types	9mm	12mm	15mm	18mm - 7	20mm	22mm	25mm	
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 1034-CPD-1396/1/13
 Palmas 13
EN 13986 EN 636-2S E1 xxmm

CE symbol

Notified Body number

Manufacturing plant

Year of CE Marking

Notified Body number

Product identification

Release of formaldehyde and Product Type

Place and date of issue	Issued by	Signature
Palmas, 10 july 2013.	Roni Marini Junior President	



CE Marking
DoP MRP-CE-13/CE4



Product identification	PINE PLYWOOD EN 636-2
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Basic panel markings

Product Types	9mm	12mm	15mm	18mm - 7	20mm	22mm	25mm	
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 100% Reforested wood Palmas 13
EN 13986 EN 636-2 E1 xxmm

CE symbol

Manufacturing plant

Year of CE Marking

Notified Body number

Product identification

Release of formaldehyde and Product Type

Place and date of issue	Issued by	Signature
Palmas, 10 july 2013.	Roni Marini Junior President	

Product identification	PINE PLYWOOD EN 636-2							
Product Types	9mm	12mm	15mm	18mm - 7	20mm	22mm	25mm	
Intended uses	Internal use as non-structural components in humid conditions							

Name and contact address of the manufacturer	MARINI INDÚSTRIA DE COMPENSADOS LTDA Rod. PRT 449 km 2,4 - Area Industrial Palmas, PR - 85.555-000 - Brazil							
Mill identification	MARINI - PALMAS							
Harmonized standard	EN 13986:2004							
AVCP System	4							

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Essential characteristics	Declared performance	Technical Specification							
Bending properties	See below per Type							EN 310 Type testing	
	Type	9mm	12mm	15mm	18mm - 7	20mm	22mm	25mm	
Bending strength (N/mm ²)	Fk, 0	56,46	39,8	30,4	36,3	24,02	28,6	20,41	
	Fk, 90	22,35	22,3	22,6	20,7	18,46	23,0	32,5	
Bending stiffness (N/mm ²) MOE	Fk, 0	5.121	5.484	4.272	4.413	4.650	3.544	3.418	
	Fk, 90	1.421	1.649	2.247	3.117	2.600	2.651	3.267	

Place and date of issue	Issued by	Signature
Palmas, 10 July 2013.	Roni Marini Junior President	