

Declaration of Performance
Dop Nº MAC/01/2017/CE2+

Product Identification	PINE PLYWOOD QUALITY EN 636-2 S	
Product Types	9mm 12mm 15mm 18mm 21mm 24mm 27mm 30mm	
Intended uses	Internal use as structural components in humid conditions.	
Name and contact of the Manufacturer	Macasil Indústria e Comércio de Compensados Rua: Emilio Kroni, 531 Bairro Rocio União da Vitória, PR 84600-000 BRAZIL TELEPHONE:55 (42) 3521-9200 E-MAIL: Export@macasil.com.br	
Wood species	ELLIOTTIS PINE (Pinus Elliotti) TAEDA PINE (Pinus Taeda)	
Harmonized Standard	EN 13986-2004 +A1:2015	
AVCP System	2+	
Notified Body	1034 - HFB Engineering GMBH, Leipzig, Germany	
Certificate	1034-CPR-2344/1/2017 dated 02nd March 2017	
Essential Characteristics	Declared Performance	Technical Specification
Release of Formoldehyde	E1 (Phenolic resin bonded)	EN 13986 Annex B Note 2
Bond Quality	Class 3	EN 314-1/2 Type Testing
Density	545 Kg/m³	EN 323 Type testing
Reaction to fire	Ds-02,d0/D_{FL}s1	EN13986 Table 8
Water vapour permeability	Wet - 70 µ / Dry - 200 µ	EN 13986 Table 9
Airborne sound insulation	R = 13 x lg (mA) + 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	
Squareness	+ 0 / - 1.0mm/m	EN 324-2
Straightness	+ 0 / - 1.0mm/m	
Thickness	EN 324-1 / EN 315	


Product Type	Thickness		Bending Properties (N/mm ²)-EN 310				Classes F/E	
			Bending strength N/mm ²)		Bending Stiffness N/mm ²)			
	Minimum	Maximum	FK,0	FK,90	EK,0	EK,90		
9mm	8,7	9,5	44,1	8,9	9.484	1.186	F30/05	E90/10
12mm	11,4	12,6	32,3	19,1	5.877	1.144	F20/10	E60/10
15mm	14,3	15,7	43,8	17,9	5.075	1.826	F25/10	E50/15
18mm	17,3	18,7	41,6	20,1	4.051	1.517	F25/10	E40/15
21mm	20,2	21,8	34,5	19	3.840	2.367	F20/10	E40/20
24mm	23,2	24,9	35,8	17,9	4.993	1.893	F20/10	E40/15
27mm	26,6	27,4	34,7	18,1	5.223	3.671	F25/15	E50/40
30mm	29,6	30,4	45,6	22,2	7.008	2.804	F30/15	E70/30

Product Type	Declared Performance /Techical Secification-EN 12369-2/EN 636			
	Parallel	Perpendicular	Parallel	Perpendicular
	FK,0	FK,90	EK,0	EK,90
9mm	30	5	9.000	1000
12mm	20	10	6.000	1.000
15mm	25	10	5.000	1.500
18mm	25	10	4.000	1.500
21mm	20	10	4.000	2.500
24mm	20	10	5.000	2.000
27mm	25	15	5.000	4.000
30mm	30	15	7.000	3.000

March 05th, 2017

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PRODUCT IDENTIFICATION: Pine Plywood
ACCORDING TO: EN 636 - 2G
THICKNESS: 9mm 12mm 15mm 18mm 21mm 24mm 27mm 30mm

 1034
MACAPLY 17 DoP. MAC/01/17/CE2+
EN 13986:2004 +A1:2015 EN 636-2 S XXmm E1
Bond Class 3 Structural

March 05th, 2017

Guilherme A. M. Reis
Laboratory Manager