



ITAMARATI
INDÚSTRIA DE COMPENSADOS LTDA.

Declaration of Performance



Nº IT-DOP-2018-02

PG 01

Product Identification:

Strutural plywood

Product Types:

Pine : 9mm 3ply, 12mm 5ply, 15mm 5ply, 18mm 5ply, 18mm 7ply, 18mm 7 ply T&G, 20mm 5ply, 20mm 7ply, 21mm 7ply, 21mm 7ply T&G, 22mm 7ply.

Eucalyptus/pine plywood: 12 mm 5 ply , 15 mm 5 ply , 18 mm 7 ply .

Intended uses:

Internal use as structural components in humid conditions.

Name and contact of the Manufacturer:

Itamarati Indústria de Compensados Ltda.

Rua 03, s/nº - Área Industrial

Palmas, PR 85555-000 BRAZIL

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Harmonized Standard:

EN 13986:2004+A:2015

AVCP System: 2+

Notified Body:

1034 - HFB Engineering GMBH, Leipzig, Germany

Certificate: 1034- CPR-2568/1/2022

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	545 Kg/m ³	EN 323 Type testing
Reaction to fire	D-s2,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	EN 324-2
Squareness	+ 0 / - 1.0mm/m	
Straightness	+ 0 / - 1.0mm/m	
Thickness	EN 324-1 / EN 315	

Pine Plywood - For use as STRUCTURAL COMPONENTS in dry and humid conditions								
Product Type	Thickness		Bending Properties (N/mm²)- EN 12369-2				Classes F/E	
			Bending strength N/mm²)		Bending Stiffness N/mm²)			
	Minimun	Maximun	Fk,0	FK,90	EK,0	EK,90		
9mm 3 ply	8,7	9,5	23	8	2250	450	F15/F05	E25/E05
12mm 5 ply	11,3	12,8	23	8	3.150	900	F15/F05	E35/E10
15mm 5 ply	14,3	15,8	23	8	2.700	900	F15/F05	E30/E10
18mm 5 ply	17,3	18,8	15	8	3.150	1.350	F10/F05	E35/E15
18mm7 ply	17,3	18,8	15	15	2.250	1.350	F10/F10	E25/E15
18mm 7 ply T&G	19,4	20,7	38	15	3.600	1.800	F25/F10	E40/E20
20mm 5ply	19,4	20,7	15	8	2.250	900	F10/F05	E25/E10
20mm 7 ply	20,4	21,7	23	15	1.800	1.350	F15/F10	E20/E15
21mm 7 ply	20,4	21,7	23	15	2.250	1.800	F15/F10	E25/E20
21mm 7 ply T&G	20,4	21,7	30	15	3.600	1.800	F20/F10	E40/E20
22mm 7 ply	21,16	22,86	23	15	3.150	1.800	F15/10	E35/E20



Eucalyptus/pine Plywood - For use as STRUCTURAL COMPONENTS in dry and humid conditions								
Product Type	Thickness		Bending Properties (N/mm²)- EN 12369-2				Classes F/E	
			Bending strength N/mm²)		Bending Stiffness N/mm²)			
	Minimun	Maximun	Fk,0	FK,90	EK,0	EK,90		
12 mm 5 ply	11,3	12,8	38	23	4.500	1800	F25/F15	E50/E20
15 mm 5 ply	14,3	15,8	38	23	5.400	1.800	F25/F15	E60/E20
18 mm 7 ply	17,3	18,8	30	23	3.600	1.350	F20/F15	E40/E15

For use as STRUCTURAL WALL sheathing on studs in dry and humid conditions

Product type	12 mm / 5ply
Soft body impact resistance	fulfilled (EN 12871 / EN 596)
Wall racking resistance	EN 1995-1-1

For use as STRUCTURAL FLOOR and STRUCTURAL ROOF decking on joist in dry and humid conditions

Product types		15mm	18mm	21mm	-	-
		5ply	7ply	7ply	-	-
Edge support		T&G	T&G	T&G	-	-
Span (mm)		450	600	600	-	-
Strength (N)	Fmax	4790	4890	7420	-	-
	Fser	3400	4390	5000	-	-
Stiffness (N/mm)	Rmean	452	437	541	-	-
Impact resistance (Load category I and II)		fulfilled	fulfilled	fulfilled	-	-

For use as STRUCTURAL ROOF decking on joist in dry and humid conditions

Product types		12 mm	15 mm	18 mm	21 mm	-
		5ply	5ply	7ply	7ply	-
Edge support		T&G	T&G	T&G	T&G	-
Span (mm)		600	800	1200	1200	-
Strength (N)	Fmax	2984	2771	4200	5385	-
	Fser	1634	1550	2339	3362	-
Stiffness (N/mm)	Rmean	145	132	117	152	-
Impact resistance (Load category II)		fulfilled	fulfilled	fulfilled	fulfilled	-

Embedment Strength (N/mm ²)		EN 1995-1-1				
Nails	Diameter (mm)	2.0	3.0	4.0	5.0	6.0
		44.6	39.5	36.3	33.9	32.1
Bolts	Diameter (mm)	6.0	7.0	8.0	10.0	12.0
		51.7	51.15	50.6	49.5	48.4

SEPTEMBER^h 2022

Technical Responsible