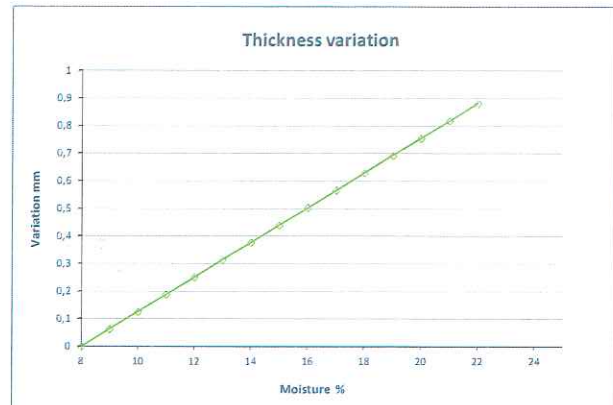
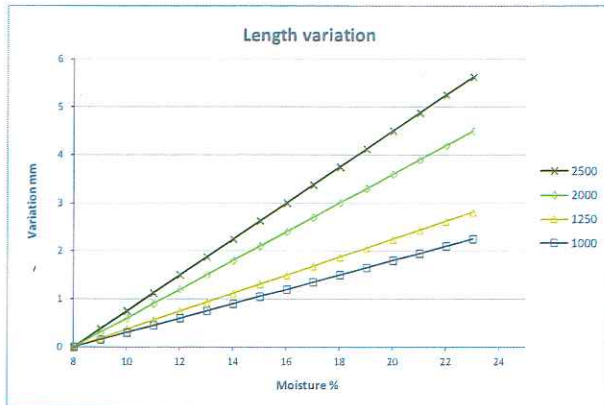


- **Product description:** European radiata pine plywood with both faces coated with combination of films on face and phenolic film on backside and protected edges with water resistant paint. Glued PF for exterior application. (Phenol Formaldehyde)
- **Certificate of compliance control factory production:** 0099/CPR/A65/0005
- **Valid for structural application:** CE 2+ according to EN 13986. FT-062F-CPR-1/07/2013
- **Employment:** Wall and slab formwork.
- **Packaging employment:** Process conditions accomplish NIMF 15 Norm.
- **Phenolic film surfaces:**
 - Coating the faces enhances protection against abrasion and damage weather, and reduces the water penetration.
 - Face is a dark brown combination coatings with weight of 440 g/m² and a smooth finish.
 - Backside is a dark brown film with a standard weight of 170 g/m² and a smooth finish.
 - On request, the film can be customized, the color can be changed and is possible to combine different films.
- **Mechanical and physical properties:**
 - Number of veneers: 8
 - Lay up: – | – | | – | – – (long grain) | (cross grain)

Density (± 5%)	550 Kg/m ³	
Property (N/mm ²)	//	⊥
Bending strength	22,6	18,9
Compression strength	17	18,5
Tension strength	6,7	7,5
Modulus of elasticity in bending	8331	5885
Modulus of elasticity in compression	4206	5135
Modulus of elasticity in tension	4039	5341
Characteristic strength values for bending according to EN 789 and EN 1058		
Mean values for modulus of elasticity according to EN 789		
Dimension tolerances according to EN 315	Length-Width: up to ± 3,5 mm	
	Squareness of panels: 1 mm/m	
Nominal thickness according to EN 315	17,06 ÷ 18,74 mm	
	On the same panel 0,6 mm	
Thickness tolerance Maderas de Llodio	± 0,2 mm	
Values of the table relating to a panels moisture content of 12%		

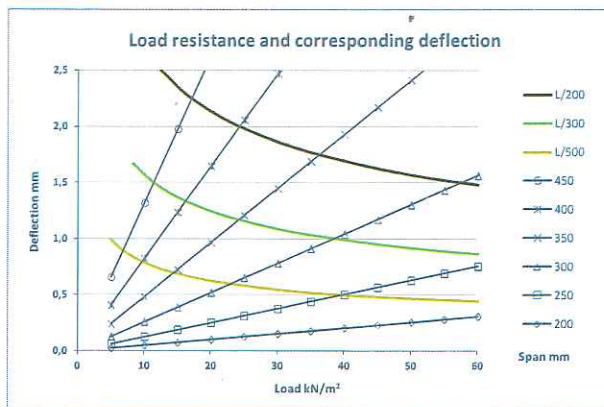
- **Panel shearing strength:** (characteristic value) 3 N/mm², according to EN 12369-2.
- **Modulus of rigidity in panel shear:** (mean value) 300 N/mm², according to EN 12369-2.
- **Rolling strength:** (characteristic value) 0,5 N/mm², according to EN 12369-2.
- **Modulus of elasticity in rolling:** (mean value) 20 N/mm², according to EN 12369-2.
- **Glueing quality:** Class 3, exterior, according to EN 314-2 WBP (Water Boiling Proof).
- **Fire performance:** D-s2, d0, D_{FL}-s1, according to table 8, EN 13986.
- **Vapour permeability:** Humid cup 70 μ and Dry cup 200 μ, according to table 9, EN 13986.
- **Formaldehyde emission:** E1, according to EN 717.2.
- **Sound reduction index:** 0,1 f (250+500) Hz, 0,3 f (1000+2000) Hz, according to table 10, EN 13986.
- **Thermal conductivity:** λ = 0,13 W/(m.K), according to table 11, EN 13986.
- **Abrasion test:** face 1300 (rev) backside 350 (rev) UNE EN 438-2.
- **Intended use:**
 - External use in construction as structural element. EN 636-3 S

Dimensional variations with variation of moisture content

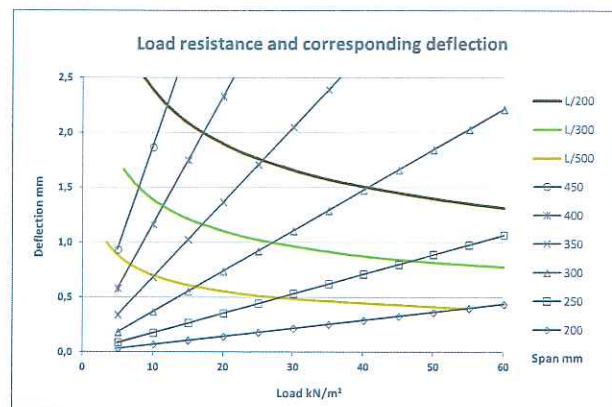


Panel deflection related to span length and uniformly distributed load (Simple bending analysis. Orientative values)

Supports parallel to the short side of the panel



Supports parallel to the long side of the panel



EN 1995-1-1			
Modification factor		Fluency factor	
Duration of load	K_{mod}	Service class	K_{def}
Permanent	0.60	1	0.80
Long	0.70	2	1.00
Middle	0.80	3	2.50
Short	0.90		
Instantly	1.10		