

TECHNICAL REPORT – QUALITY CONTROL LABORATORY

Product identification: 18 mm - 7 plies - 100% PINUS – MDO/FF

Product description: The Palmafilm plywood is composed of medium density pine wood veneers on the faces and inside, glued with 100% waterproof WBP phenolic resin. Their faces are repaired and sanded for a better finish. The coating options are: 1 face MDO 3323 and 1 face with phenolic film 125 g/m² or both faces with phenolic film 125 g/m²

Certificates: ISO 9001:2015
ULEF Exempt for EPA TSCA Title VI and CARB Phase II Emissions (N-20-196)
CE 2+ Certified (1224-CPR-0022)

Production date / lot: April 2020 (ODF 44837)

Tests results:

Characteristic	Test method or requirement	Performance
Bending strength – parallel to grain	EN 310	42,41
Modulus of elasticity in bending – parallel to grain	EN 310	5455
Bending strength – perpendicular to grain	EN 310	23,66
Modulus of elasticity in bending – perpendicular to grain	EN 310	2408
Shear strength – cold water immersion 24h	EN 314-1	1,40
Shear strength – cyclic boiling water 24h	EN 314-2	1,72
Bonding quality	EN 314-2	Class 3
Formaldehyde emission	EN 13986:2004 + A1:2015 ANNEX B	E1
Moisture content	EN 322	4,6 %
Density	EN 323	629 kg/m ³
Resistance to soda 5%	No swelling, bubbles, wrinkle, corrosion or color loss	Approved
Resistance to steam	No swelling or bubbles	No tested
Resistance to cement	No coloration	Approved
Water absorption (%)	NBR 9486/86	38% (approved)

* The results are based on the mean values of each test.

** The results of this report are restricted to the samples tested.

18.05.2020
PALMASOLA S/A - MADEIRAS E AGRICULTURA
Laura Q. Fonseca
Laura Q. Fonseca
Gerente de Qualidade

Uniform load (psf) based on deflexion - Three-span condition

Bending stiffness parallel to grain

Nominal thickness = 18 mm – 7p

$$f = L/360$$

LOAD KN/m ²	1	2	3	4	5	6	7	8	9	10
LOAD Kgf/m ²	100	200	300	400	500	600	700	800	900	1000
SPAN (m)	Deflection (mm)	Deflection (mm)	Deflection (mm)	Deflection (mm)	Deflection (mm)	Deflection (mm)	Deflection (mm)	Deflection (mm)	Deflection (mm)	Deflection (mm)
0,30	0,02	0,04	0,06	0,08	0,10	0,12	0,14	0,17	0,19	0,21
0,45	0,10	0,21	0,31	0,42	0,52	0,63	0,73			
0,60	0,33	0,66	0,99							
0,75	0,81									
0,90										
1,00										
1,10										
1,20										

Bending stiffness perpendicular to grain

Nominal thickness = 18 mm – 7p

$$f = L/360$$

LOAD KN/m ²	1	2	3	4	5	6	7	8	9	10
LOAD Kgf/m ²	100	200	300	400	500	600	700	800	900	1000
SPAN (m)	Deflection (mm)	Deflection (mm)	Deflection (mm)	Deflection (mm)	Deflection (mm)	Deflection (mm)	Deflection (mm)	Deflection (mm)	Deflection (mm)	Deflection (mm)
0,30	0,05	0,09	0,14	0,19	0,23	0,28	0,33	0,38	0,42	0,47
0,45	0,24	0,47	0,71							
0,60	0,75									
0,75										
0,90										
1,00										
1,10										
1,20										

