



INVERNIZZI SPA

A PLYWOOD TRADITION

Mod. 015 Scheda Tecnica
Compensato e multistrato di pioppo
Rev.06 del 15/01/2013

POPLAR PLYWOOD PANELS

This technical sheet is not a contract reference document. Given average values are linked to internal tests effected in our company (unless differently precised) and are subject to changes without any previous advise in accordance to production requirements.

Physical-mechanical properties (1)	Reference standard rule	Measure unit	Thickness (mm)						
			4	10	15	18	25	30	40
Minimum number of layers			3	5	7	9	11	13	17
Density	EN 323	kg/m ³	400 - 450						
Bending strength, longitudinal	EN 310	N/mm ²	42	28	27	28	26	28	25
Bending strength, trasversal	EN 310	N/mm ²	24	24	35	30	28	32	30
Modulus of elasticity in bending, longitudinal	EN 310	N/mm ²	4000	3200	2400	2500	2500	2750	3050
Modulus of elasticity in bending, trasversal	EN 310	N/mm ²	1300	3000	4100	3200	3400	3600	3700
Moisture content	EN 322	%	10±2						
Average formaldehyde release	EN 717/2	mgHCHO/m ² h	< 3,5 (Class E1 - standard)						
	ASTM E 1333	ppm	< 0,05 phase 2 (available on request)						
Glue (bonding) requisites determination	EN 314-1	Class 1: glueing is realized by use of urea-formaldehyde (UF) resins in accordance to the Class 1 glueing requisites - Bonding for the use of panels in dry environments (EN 636 - Plywood bonding quality requirements).							
	EN 314-2	Class 2: glueing is realized by use of melamine-urea-formaldehyde (MUF) resins in accordance to the Class 2 glueing requisites - bonding for the use of panels in humid environments (EN 636 - Plywood bonding quality requirements).							
Reaction to fire class	EN 13986 (prosp.8)	D - s2, d0 / D FL - s1 (panels with thickness >9 mm and density/ volumic mass > 400 kg/m3)							
	EN 13501-1	B - s2, d0 applies only to CE certified product named "Ignipascomp" (different technical sheet)							
Layers' composition	EN 313-2	All outer faces and inner layers composed exclusively by poplar wood veneers							
Tolerances for dimensions	EN 315	Conformity to dimensional tolerances of plywood panels for length, width, thickness, squareness and edge straightness							
Classification By Surface Appearance	EN 635-2	Italian poplar faces and backs, in these possible grades: I, II o III							
CE marking	EN 13986	All panels can be CE marked for internal use as non-structural components							
	EN 13986	On request: CE 2+ for internal (or protected external) use as structural components							

⁽¹⁾ Technical features report indicative average values of poplar plywood, urea based glue line, referring to an average wood moisture content of 10% +/- 2%, realized using wood from the I-214 clone. These values may vary if, though keeping the same relation between thickness and number of layers, a different clone is used or in case there is a variation in the panel's core composition (way the veneers are disposed, thickness of the various layers)

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