ALSINA COMPENSADO

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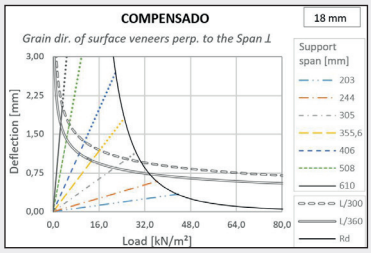
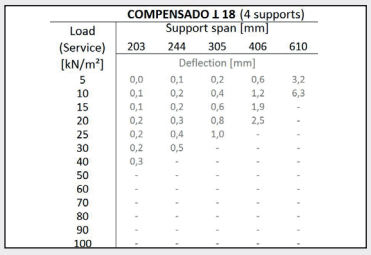
Plywood panel with a combination of Elliotis Pine and Eucalyptus, protected with brown or black phenolic film of more than 125 g/m², with 11 ply construction. Calibrated and pressed in 2 processes allowing a homogeneous surface without imperfections, glued with phenolic resins in a degree greater than 54%, edges sealed with a special water-repellent edge.

Indicated for concrete formwork in construction sites with many cuts with up to 20 reuses with proper maintenance. Medium durability material thanks to the large number of veneers per plate and glued surface, **indicated for moderate loads and medium or short secondary beam distances**. Certifications: CE 2+, PS 1-09, FSC, GARB / EPA.

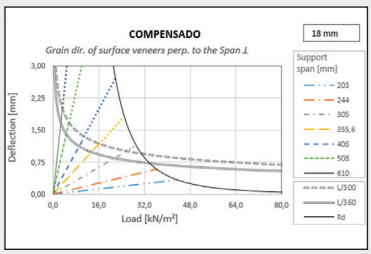
	18 mm - 1220x2440		18 mm - 2440x610		21 mm . 2440x1220	
	44328	SP FEN. COMPENSADO 18 2C/125 IMP. M2	44376	SP FEN. MED COMPENSADO 18 2C/125 IMP. M2	44381	SP FEN. COMPENSADO 21 2C/125 IMP. M2
Thickness tollerances EN315 -2000	17,1-18,1mm		17,1-18,1mm		20-20,9mm	
Veeners	11		11		13	
Type of wood	Pinus / Eucalyptus		Pinus / Eucalyptus		Pinus / Eucalyptus	
Film g/m²	125		125		125	
Weight kg/sheet	30,3		15,5		37	
Densidad (kg/m³)	567		567		605	
Moisture content %	10%		10%		10%	
Grade	B/B		B/B		B/B	
40' container Units	850		1800		756	
Repetitions *	<15 Rep		<15 Rep		<15 Rep	
Wear resistance (Taber Test)	>300		>300		>300	
Bonding EN 314-2	Class 2		Class 2		Class 2	
Mean modulus Elasticity Bending (N/mm²)	4256 II	3327 T	4256 II	3327 T	4092 II	2955 T
Bending Strength (N/mm²)	31 II	35 T	31 II	35 T	35 II	32 T

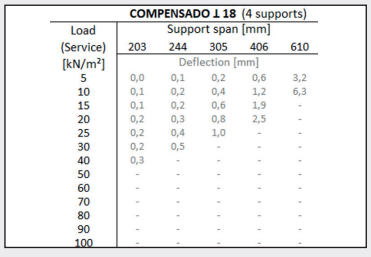




COMPENSADO ⊥ 18 (4 supports)

Load (Service) [kN/m²]	Support span [mm] 203	244	305	406	610
	Deflection [mm]				
5	0,0	0,1	0,2	0,6	3,2
10	0,1	0,2	0,4	1,2	6,3
15	0,1	0,2	0,6	1,9	-
20	0,2	0,3	0,8	2,5	-
25	0,2	0,4	1,0	-	-
30	0,2	0,5	-	-	-
40	0,3	-	-	-	-
50	-	-	-	-	-
60	-	-	-	-	-
70	-	-	-	-	-
80	-	-	-	-	-
90	-	-	-	-	-
100	-	-	-	-	-





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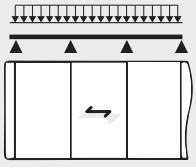
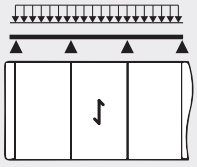
40	0,3	-	-	-	-
50	-	-	-	-	-
60	-	-	-	-	-
70	-	-	-	-	-
80	-	-	-	-	-
90	-	-	-	-	-
100	-	-	-	-	-

	Secondary Beams Span	Admissible Load (kN/m2) per span and per each orientation *	
Resistance in service, $R_{d\ ser}$	610 mm	12,33 II	14,50 T
	406 mm	19,3 II	21,79 T
	305 mm	25,69 II	29,00 T
	245 mm	31,98 II	36,10 T
	200 mm	39,17 II	44,23 T

Grain direction of surface veeners: **II** - Parallel to the span



Grain direction of surface veeners: **T** - Perpendicular to the span



Handle boards carefully and clean between shifts with an appropriate quantity of release agent, in order to increase the service life of these and provide a better surface concrete finish. In all terms, the customer /user is responsible for maintaining the material at site. For further indications about maintenance follow our instructions guide.

* This is an estimate number that can differ depending on the correct use in the material, concrete finishing required, care in the pouring of the concrete, treatment and storage of the board, type and quality of the release agent and other factors.

PLYWOOD
GENERAL RECOMENDATIONS FOR STORAGE AND USE

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1. These considerations are in addition to those described in the process of assembly and disassembly of the different systems where plywood and boards are used.
2. It is also and responsibility of the customer to verify that the information about products is updated.
3. The system is designed and calculated for the uses and applications specifically described in these instructions and is therefore Alsina declines any liability on its utilization in any situations other than those reflected in this document
4. The Alsina group is not involved in the direction and execution or the work is the exclusive responsibility of the customer the correct use of the materials that have been supplied at all stages of the work.
5. Alsina products combine with other suppliers can be dangerous. It is the responsibility of the customer to ensure compatibility between the two systems and adopt for calculate the worst case scenario.
6. Any modification or manipulation not provided or referred to in this document will be considered as an alteration of the original design and constitutes a risk which should be assumed by the client to perform these actions.
7. The plywood must not be used as gateways, coverage gaps, mounting platforms formwork, scaffold platforms, or the like.
8. Use boards with similar number of repetitions if possible, avoid mixing new boards with other widely used. Otherwise it can be the cause of differences in the surface finish of the concrete, as well as an uneven finishing.
9. Fix the boards to supports the formwork system shall be placed so avoiding solely supported.
10. In case of cutting or drilling panels, it will be recommended to protect immediately the edges or holes exposed by at the least two coats of paint acrylic moisture resistant to humidity.
11. Pouring must be executed from a low height as smoothly and homogeneously as possible, avoiding big impacts to the form and uneven load transmissions.
12. The pressure should not be exceeding maximum pressure established concreting otherwise be incurred in excessive deformation of the board and the risk of collapse.
13. Plywood as Wood derivate is inflammable , therefore we recommend to maintain safety distanced from any source of fire.
14. All materials will be perfectly stacked, avoiding uneven stacking of the same, without exceeding heights that may cause collapse or hinder their attached for lifting or transport.
15. The stockpiling of materials will be carried out in a stable way, placed horizontally to avoid planar deformations.
16. Stockpiles cannot be placed on unsafe slopes, not compacted or unstable or loose terrain or unstable elements.
17. Store the boards protected from the weather, avoiding long exposure to the sun and rain . Cover them to avoid over drying.
18. Do not store the boards in very hot or dry environments where distortions can occur.
19. For those transitory storage situations at work outdoors in extremely hot conditions, you should keep the moisture spraying them with water boards. Thereby preventing possible excessive deformation and / or cracking.
20. After removing the strapping, a package should not be transported by mechanical means, since face contact can be slippery and accidents may occur.
21. The load will be distributed evenly compensating weights. It must be well stabilized, and lifting or lowering loads will be done slowly, avoiding any torn or sudden stop.
22. Handle boards carefully and clean between shifts to increase the service life of these, and provides a better surface finish on concrete.
23. If Alsina supply the plywood, by all means, once the material is delivered at site according with Alsina quality specifications, it is responsible of the customer or user the maintenance and the appropriate use of the material
24. The conditions of the material must be checked before starting a journey, when back from strong winds, rain, snowfall, etc, because it is possible that a piece has fallen, displaced, loosened or damaged.
25. Always apply a release agent before use to protect and facilitate the work surface stripping. The quality of the type of release and its suitability for a coating of phenol / melamine resin will determine the useful life of the boards and the surface finish of the concrete.
26. Try applying the release agent in a not excessively thick layer. Using a thin layer of release agent will result in better quality on the surface of the concrete.
27. After his stripping and before the next shift, nails must be removed and surfaced cleaned of concrete. Wait to perform this task until the time of the next start will involve to increase the difficulty the cleaning, and surface damage.
28. Perform boards cleaning carefully, recommended tools for this plastic and nylon brushes. using metal and high pressure cleaning brushes should be avoided.
29. Once cleaned the boards, small scratches can be repaired with putty, and deep scratches with epoxy resin or putty. It should be noted that such repairs will impact the surface finish of the concrete.
30. At the end of its useful life, the boards can be chipped and used as bioenergy for a power plant.
31. Simultaneously to the assembly, a review of the material will always be carry out by a competent professional, to verify its suitability for further use or rejection, discarding damage by deformation, corrosion and any other kind of degradation, since in case of any piece damaged, it should not be used.