ALSINA NORDIC

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Plywood board with 120 g/m² phenolic surface coating. Its exclusively birch composition generates very high mechanical strength and makes it possible to reuse it many times.

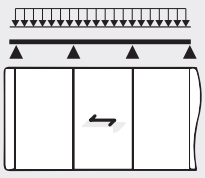
Highly versatile board suitable **for slab or wall framework requiring a high level of surface finish**.

The Alsina Nördic board is durable for up to 40 reuses.

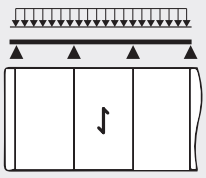
	18 mm - 2500 x 1250		21 mm - 2500 x 1250	
	44263	PLY. NÖRDIC 18 2C/120 MET. M2	44272	PLY. NÖRDIC 21 2C/120 MET. M2
Thickness tollerances EN315 -2000	17,1-18,1mm		18,9-21mm	
Veeners	13		15	
Type of wood	Birch		Birch	
Film g/m²	120		120	
Weight kg/sheet	39,4		45,9	
Density (kg/m³)	670		670	
Moisture content %	10%		10%	
Grade	A/A		A/A	
40' container Units	704		585	
Repetitions *	<40 Rep		<40 Rep	
Wear resistance (Taber Test revolutions)	>350		>350	
Bonding EN 314-2	Class 3		Class 3	
Mean modulus of Elasticity Bending (N/mm²)	10048 II	7452 T	9858 II	7642 T
Bending Strength (N/mm²)	40,2 II	34,1 T	39,4 II	34,3 T

	Secondary Beams Span	Admissible Load (kN/m²) per span and per each orientation *			
Resistance in service, $R_{d\ ser}$	625 mm	15,26 II	16,18 T	29,19 II	21,97 T
	417 mm	42,84 II	36,34 T	50,66 II	47,14 T
	313 mm	59,88 II	52,48 T	67,49 II	62,80 T
	250 mm	74,97 II	65,71 T	84,50 II	78,63 T
	208 mm	90,11 II	78,97 T	101,57 II	94,51 T

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

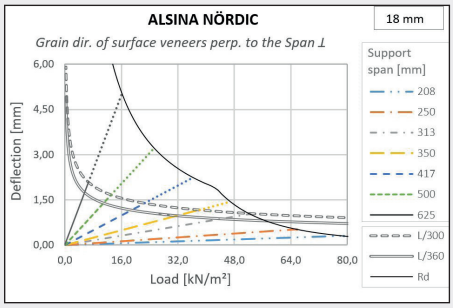


Grain direction of surface veeners:
T - Perpendicular to the span



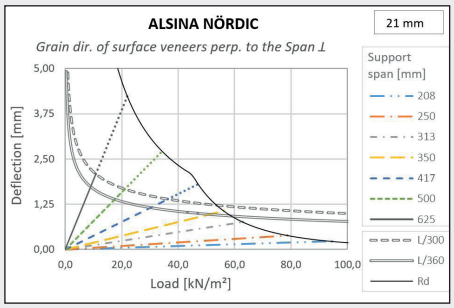
Handle boards carefully and clean between shifts with an appropriate quantity of release agent, in order to increase the service life of these and provide a better surface concrete finish. In all terms, the customer /user is responsible for maintaining the material at site. For further indications about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



ALSINA NÖRDIC ⊥ 18 (4 supports)

Load (Service) [kN/m²]	Support span [mm] 208	250	313	417	625
	Deflection [mm]				
5	0,0	0,0	0,1	0,3	1,6
10	0,0	0,1	0,2	0,6	3,1
15	0,1	0,1	0,3	0,9	4,7
20	0,1	0,2	0,4	1,2	-
25	0,1	0,2	0,5	1,5	-
30	0,1	0,2	0,6	1,8	-
40	0,2	0,3	0,8	-	-
50	0,2	0,4	1,0	-	-
60	0,2	0,5	-	-	-
70	0,3	-	-	-	-
80	-	-	-	-	-
90	-	-	-	-	-
100	-	-	-	-	-



ALSINA NÖRDIC ⊥ 21 (4 supports)

Load (Service) [kN/m²]	Support span [mm] 208	250	313	417	625
	Deflection [mm]				
5	0,0	0,0	0,1	0,2	1,0
10	0,0	0,0	0,1	0,4	1,9
15	0,0	0,1	0,2	0,6	2,9
20	0,0	0,1	0,2	0,8	3,9
25	0,1	0,1	0,3	1,0	-
30	0,1	0,1	0,4	1,1	-
40	0,1	0,2	0,5	1,5	-
50	0,1	0,2	0,6	-	-
60	0,1	0,3	0,7	-	-
70	0,2	0,3	-	-	-
80	0,2	-	-	-	-
90	0,2	-	-	-	-
100	-	-	-	-	-

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.