

FINNFOREST FORM ULTRA

– CONCRETE SHUTTERING PLYWOOD

finnforest

Finnforest Form Ultra is a strong and highly durable concrete shuttering birch plywood panel. Finnforest Ultra panel is overlaid with a thick special plastic overlay and the number of reuses of the Ultra panel can be two to three times higher when compared to standard concrete shuttering plywood.

APPLICATION

Finnforest Ultra is a special birch plywood panel for use in concrete shuttering. Ultra panels can be easily machined and are as easy to fix as standard birch plywood. In shuttering systems the number of reuses can rise up to 200-300 times but is highly dependent on site practice, requirements of the concrete finish, the quality of release agent and the maintenance, handling and storage practices.

OVERLAY

Ultra panels are coated with a thick special plastic overlay. The colour of the overlay is yellow. The reverse side overlay is dark brown phenolic film. Customized printing on the reverse side is possible and is available by order. Panel edges are sealed with a moisture-resistant acrylic paint.

INSTRUCTIONS FOR USAGE

The Ultra panels must be treated with an appropriate release agent before use and cleaned mechanically after every use. If panels are cut or drilled on site, all cut edges and holes must be sealed with appropriate water resistant paint.

PRODUCT SIZES

Product	Size* [mm]	Thickness [mm]	Thickness tolerance		Weight [kg/m ²]
			min	max	
Finnforest Ultra	2440/2500 x	15	14.3	15.3	11,1
	1220/1250	18	17.1	18.1	13,4
	2500/3000 x 1500	21	20.0	20.9	15,6

*) The maximum strength and stiffness is reached in the longitudinal direction of the panel.

Other sizes available by request

STRENGTH PROPERTIES

The Ultra panels have a special construction to improve strength and stiffness properties in the longitudinal direction of the panel. Mechanical properties of Finnforest Form Ultra - Moisture content 10±2% (T=20° C, RH65%). The values are EN 789 values.

Thickness [mm]	Finnforest Form Ultra mechanical properties			
	Mean Modulus of Elasticity [N/mm ²]		Characteristic bending strength [N/mm ²]	
		⊥		⊥
15	10 660	2780	47.5	14.5
18	10 530	3370	46.7	14.5
21	10 390	3870	46.3	14.6

BONDING

Veneers are bonded with phenolic resin adhesive (WBP, BFU 100, AW, exterior) which is resistant to weather and boiling water and meet the following international bonding standards:

- SFS-EN 314-2 / Class 3
- BS 6566 Part 8 / type WBP
- DIN 68705 / BFU 100

QUALITY CONTROL

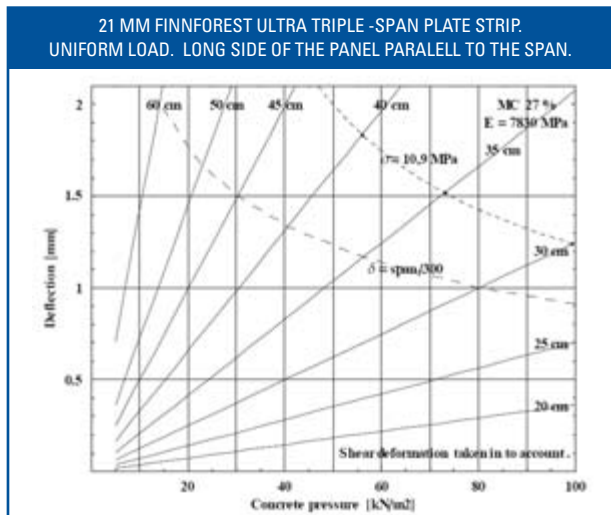
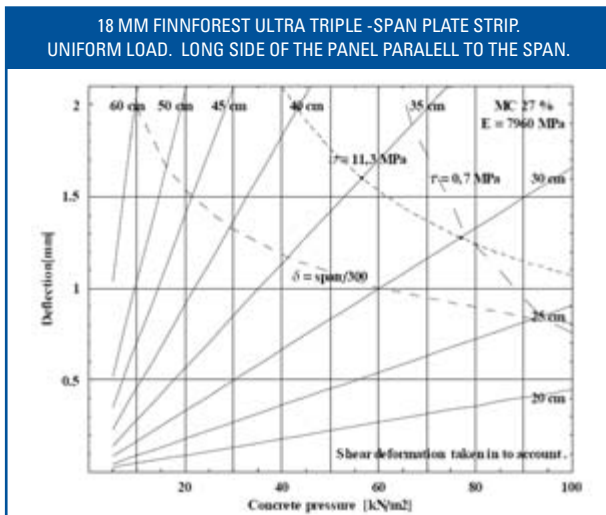
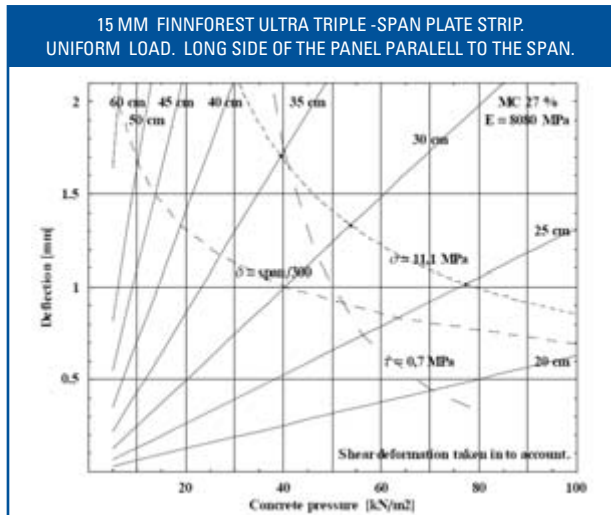
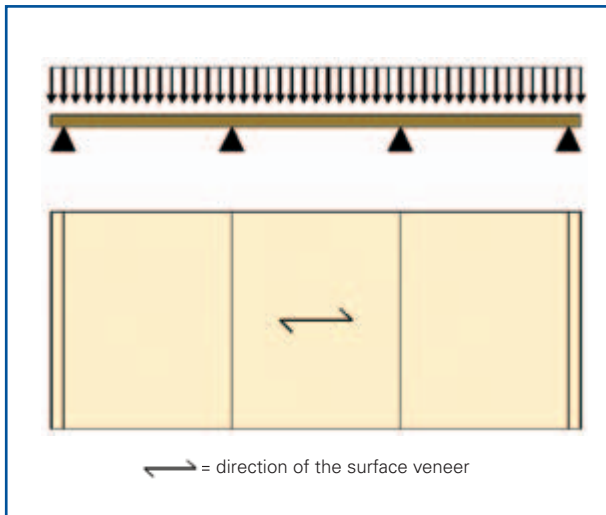
In addition to Finnforest's own quality control, the Technical Research Centre of Finland (VTT) oversees production operations and the internal quality control at Finnforest plywood mills. External plywood quality control will continue to be conducted in accordance with CE rules. The EN ISO 9001:2000 Quality Management system is applied.

DESIGN DATA

Load table, Triple-span plate strip, Deflection max. Span / 300. Moisture content 27%. Surface grain direction (i.e. long side of the panel) parallel to the span.

Span [cm]	15mm / 10ply		18mm / 12ply		21mm / 14ply	
	q [kN/m ²]	δ [mm]	q [kN/m ²]	δ [mm]	q [kN/m ²]	δ [mm]
20	70,3t	0,44				
25	56,2t	0,74	92,1d	0,83		
30	40,4d	1,00	60,2d	1,00	80,2d	1,00
35	27,1d	1,17	41,2d	1,17	56,2d	1,17
40	18,9d	1,33	29,2d	1,33	40,7d	1,33
45	13,7d	1,50	21,4d	1,50	30,2d	1,50
50	10,2d	1,67	16,1d	1,67	23,0d	1,67
60	6,1d	2,00	9,7d	2,00	14,1d	2,00

q = Uniformly distributed load t = planar shear strength limitation
 δ = Deflection d = deflection limitation



THE ENVIRONMENT

Finnforest plywood is manufactured from wood, which is a renewable natural resource. Finnforest plywood has the right to use the PEFC-logo, which ensures that the raw material is sourced from sustainably managed forests.

WASTE HANDLING

Finnforest Ultra plywood can be burnt when the combustion temperature is at least 700° C. It should be noted that the instruction for disposal may vary in different countries depending on current legislation.

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Finnforest reserves the right to change the range without notice.

