

WISA®-Form Birch

WISA-Form Birch is a coated special plywood for use in concrete formwork where high requirements are set on the concrete surface and the number of reuses.

Base board

Birch plywood made solely from birch (hardwood) veneers bonded together in a cross banded construction.

Bonding

Phenolic resin cross-banded weather resistant glueing according to EN 314-2/class 3.

Surface and edges

Face and reverse: Dark brown phenolic film 120 g/m² or 220 g/m².

Edge sealing: Water resistant paint.

Constructions and thicknesses

Nominal thickness (mm)	Number of plies	Thickness (mm)		Weight kg/m ²	Maxi panels thickness (abt mm)	
		Min	Max		Min	Max
					1250x2500	1500x3000
6.5	5	6.1	6.9	4.6	140	90
9	7	8.8	9.5	6.3	100	65
12	9	11.5	12.5	8.4	75	50
15	11	14.3	15.3	10.5	60	40
18	13	17.1	18.1	12.6	50	35
21	15	20.0	20.9	14.7	45	30
24	17	22.9	23.7	16.8	40	25
27	19	25.2	26.8	18.9	35	20
30	21	28.1	29.9	20.9	30	15

Moisture content 8-12 %.

Panel size

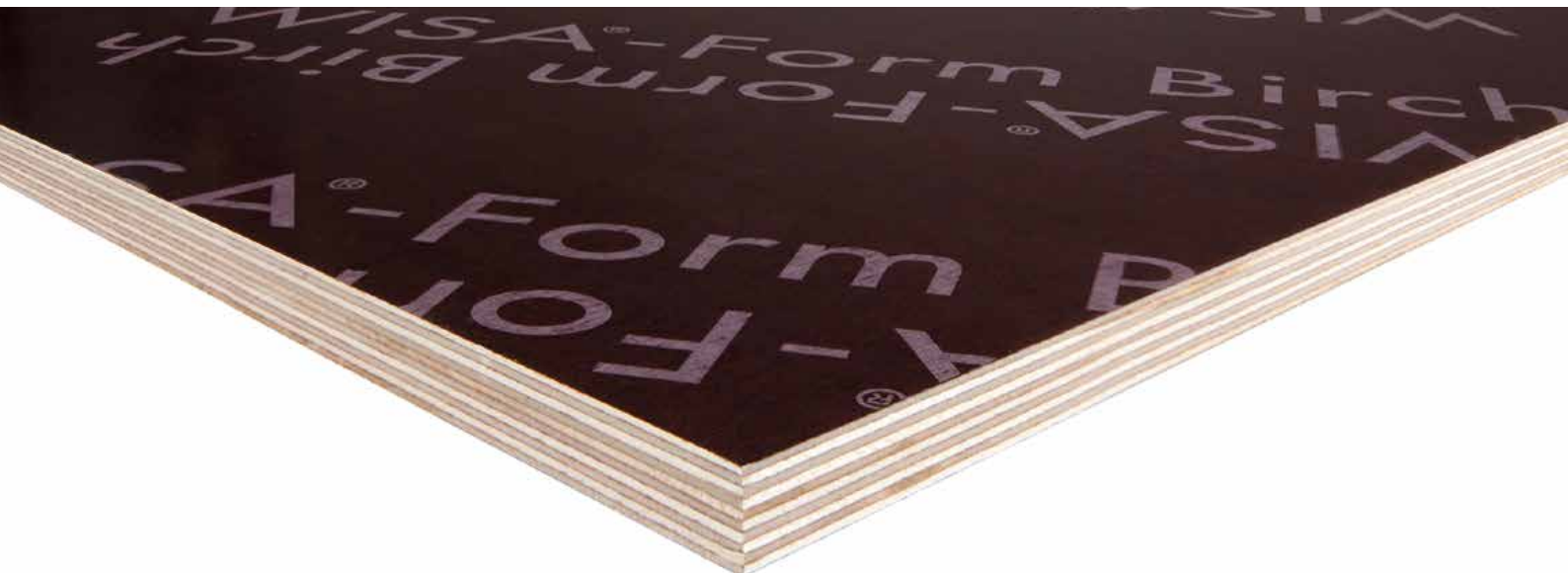
1000 x 2000/2500/3000 mm

1200/1220/1250/1500/1525 x 2400/2440/2500/2700/3000/3050/3600/3660 mm

Cut sizes at customer's request

Size tolerance (length/width) ±1 mm per metre

Squareness tolerance ±1 mm per metre length of diagonal





Reuses

Typical number of reuses is likely to be in the range of 20 – 80 times. However, this will vary according to many different factors including good site practice, required concrete finish, amount of care taken when compacting the concrete, handling and storage of the forms, type and quality of release agent.

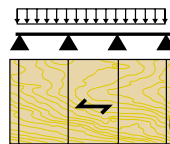
Design Data

Mechanical properties of WISA-Form Birch, in standard thicknesses, moisture content $10 \pm 2\%$

Nominal thickness (mm)	Mean modulus of elasticity bending (N/mm ²)		Characteristic strength bending (N/mm ²)	
	E _{ml}	E _m	f _{ml}	f _m
18	10048	7452	40.2	34.1
21	9858	7642	39.4	34.3

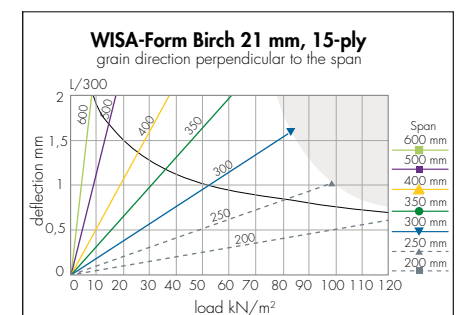
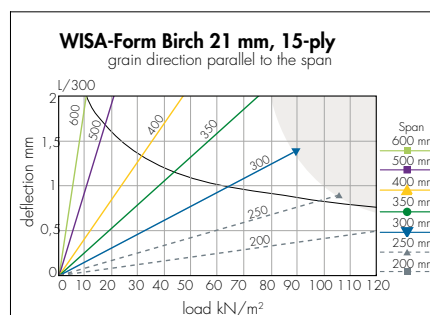
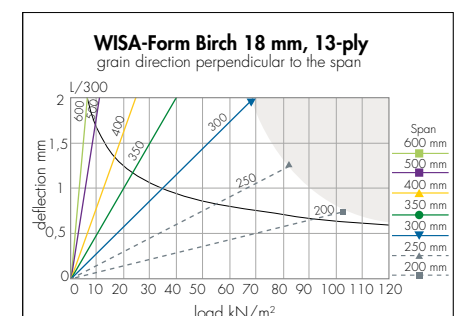
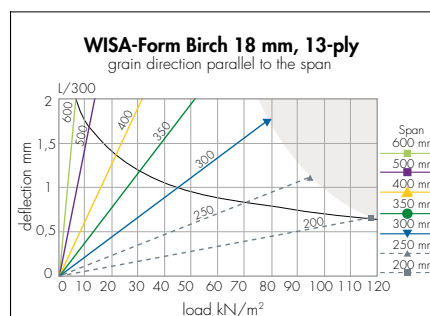
Face grain parallel to the span (II)

← grain direction of surface veneers



Face grain perpendicular to the span (I -)

← grain direction of surface veneers



UPM Plywood

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Moisture content 27 %, short time loading

Partial safety factor for the material is 1.3. Partial safety factor for the loads is 1.2 (according to the Handbook of Finnish Plywood, 2004).

Deflection limit L/300 of the span

Support width is not taken into account in calculations

Instructions for use

See "Guide to Good Site Practice" available from UPM.

UPM policy is one of continuous development. We reserve the right to amend specifications without notice or obligation.