

WISA[®]-Form Beto

WISA-Form Beto is a coated special plywood for use in slab loose panel concrete formwork.

Base board

Mirror construction plywood made from birch and spruce veneers bonded together in a cross banded construction.

Bonding

Phenolic resin cross-banded weather resistant glueing according to EN 314-2/class 3, EN 636-3.

Surface and edges

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

Imprinted text: "WISA-Form BETO".

Edge sealing: Water resistant paint.

Thicknesses and weight

Nominal thickness (mm)	Number of plies	Min. thickness (mm)	Max. thickness (mm)	Weight kg/m ²	Pallet Panels/pallet
15	8	14.3	15.3	8.4	60
18	11	17.1	18.1	10.2	50
21	11	20.0	20.9	11.8	45

Moisture content: 8-10%

Panel size

1220/1250 x 2440/2500 mm

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 10 -15 times. However the number of reuses will depend on a wide range of factors including good site practice, the required concrete finish, careful handling & storage of forms and the type and quality of release agent.



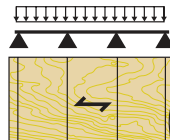


Design data

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

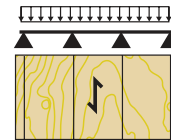
Nominal thickness (mm)	Mean modulus of elasticity bending (N/mm ²)		Characteristics strength bending (N/mm ²)	
	E _{mll}	E _{ml-}	f _{mll}	f _{ml-}
15	8259	6337	33.0	18.5
18	8767	5988	35.1	17.1
21	7621	6774	30.5	18.9

Face grain parallel to the span (||)

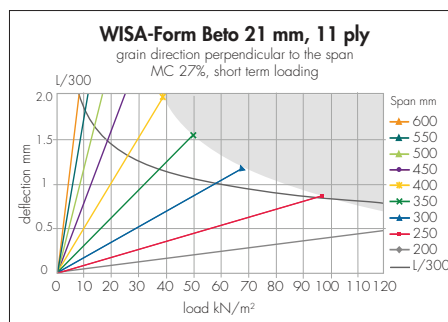
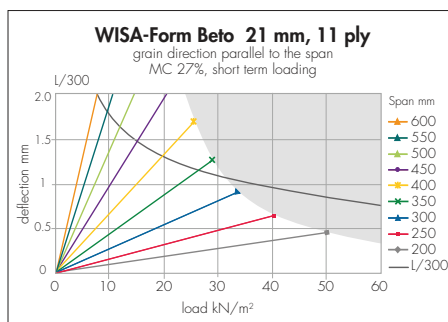
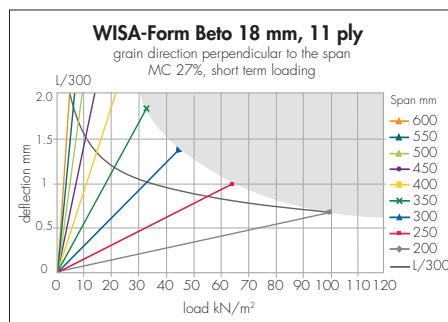
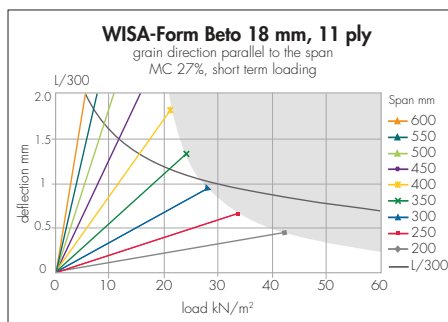


← grain direction of surface veneers

Face grain perpendicular to the span (⊥)



← grain direction of surface veneers



Moisture content 27%, short time loading.

Modification factor for duration of load and moisture content $k_{mod}=0.7$

Deformation factor $k_{def}=0.4$

Partial safety factor for load 1,2 Partial safety factor for material 1.3

Deflection limit $L/300$ of the span

Support width is not taken into account in calculations

Instructions for use

See "Guide to good site practise" and "Site guidance note" available from UPM or www.wisaplywood.com.



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