

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.



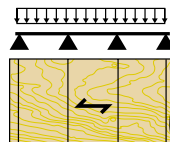


Design data

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

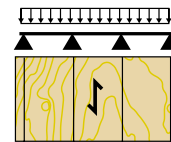
Nominal thickness (mm)	Mean modulus of elasticity bending (N/mm ²)		Characteristics strength bending (N/mm ²)	
	E _{mll}	E _{ml-}	f _{mll}	f _{ml-}
15	8259	6337	33.0	18.5
18	8767	5988	35.1	17.1
21	7621	6774	30.5	18.9

Face grain parallel to the span (||)

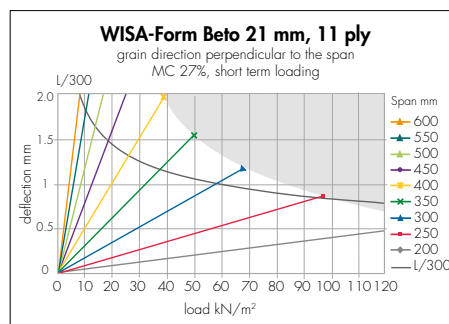
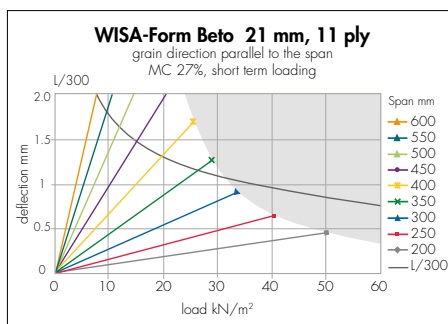
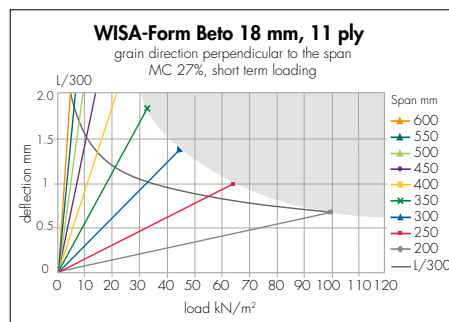
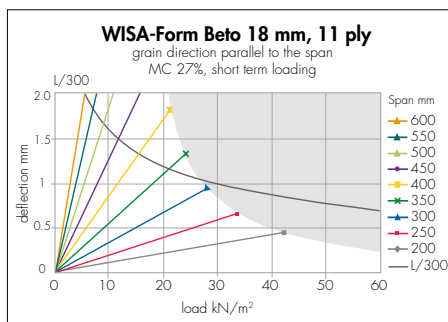


← grain direction of surface veneers

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.

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



www.upm.com

UPM Plywood

Niemenkatu 16

P.O. Box 203

FI-15141 Lahti, Finland

Tel. +358 204 15 113

Fax +358 204 15 112

www.wisaplywood.com