

# WISA®-Spruce

WISA-Spruce is a truly versatile plywood panel for numerous end uses. The panel is light in weight yet strong and rigid – therefore most suitable in structural uses and load bearing applications like roofing, flooring, wall sheathing, packaging and joinery. The wide size range with several thicknesses and sizes, the CNC machining possibilities in addition to three different surface qualities widen the usage potential beyond traditional end uses. Moreover, our customers appreciate the sustainability of the product as it is made from environmentally certified Nordic Spruce and meets all the relevant environmental requirements.

## Bonding

Weather resistant glueing according to EN 314-2/class 3 Exterior. WISA-Spruce fulfills the requirements of EN 13986 E1 low formaldehyde emission class, German ChemVerbotsV or so-called E05 class / M1 emission classification / French VOC regulation A+. On request deliveries according to TSCA Title VI / CARB Phase II.

## Surface

Face veneer grades II and III (comply with standard EN 635-3).

Additional grade G: WISA-Spruce Special (improved / solid surface with no open defects grade II).

For more information, please see WISA-Spruce Guide to Surface Appearance on [wisaplywood.com](http://wisaplywood.com)

## Machining

Edge machinings available on request.

## Thicknesses and weights

Nominal thickness (mm)	Number of plies		Thickness (mm)		Weight (kg/m <sup>2</sup> ) abt	
	Thick ply	Thin ply	Min	Max	Thick ply	Thin ply
5	–	3	4.8	5.6	–	2.4
6.5	–	3	6.1	6.9	–	3.0
9	3	5	8.8	9.5	4.1	4.2
12	5	7	11.5	12.5	5.7	6.1
15	5	7	14.3	15.3	7.0	6.9
18	7	9	17.1	18.1	8.1	8.5
21	7	11	20.0	20.9	9.4	9.8
24	9	13	22.9	23.7	10.7	10.9
27	9	13	25.2	26.8	12.1	12.2
30	11	15	28.1	29.9	13.9	13.9
40	13	21	38.8	41.2	18.2	19.2
50	17	21	48.5	51.5	23.0	23.1

Sizes and thicknesses relating to moisture content 8 - 12 %.  
Thicknesses and tolerances fulfil the EN 315 requirements.



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### Panel sizes

#### Cross grain construction standard sizes

1200/1220/1250/1500/1525 x 1200/2400/2440/2500/3050 mm  
also long grained 2400/2440/2500 x 1200/1220/1250 mm available.

Tongued and grooved 2400/2440 x 600/610/1200/1220mm

Other sizes on request.

Max panel size 1525 x 3660 mm

Size tolerances	< 1000 mm	±1 mm
	1000 - 2000 mm	±2 mm
	> 2000 mm	±3 mm

Squareness tolerance ±1 mm / 1000 mm

### Strength values and technical properties

WISA-Spruce is CE marked according to AVCP System 2+ for structural use.

For all detailed technical values, please see product-specific DoP (Declaration of Performance) on [www.wisaplywood.com/dop](http://www.wisaplywood.com/dop).

### Storing instructions

Panels should be stored in a covered and dry place and to be kept flatwise.

### Installation instructions

The panels can have dimensional changes due to changes in the air humidity. The square edge of the panel should have 1 mm/m expansion gap between panels. For more information on handling, please see WISA-Spruce Guide to Good Practice and UPM Plywood Product Safety Profile on [www.wisaplywood.com](http://www.wisaplywood.com).

### Additional information

Wood being a living material, every panel is unique. Thus a photograph or a sample piece cannot represent all the panels, as regards colours, shades, graining, knots etc.

For further information of installation, maintenance, disposal, environmental matters etc. please see [www.wisaplywood.com](http://www.wisaplywood.com) or contact your supplier or UPM.

