

# WISA<sup>®</sup>-Spruce

WISA-Spruce is a lightweight multi-purpose panel with high quality. It is made of environmental certified Nordic Spruce and is an ideal panel for structural uses and load bearing applications like roofing, flooring, wall sheathing, packaging and joinery.

## Bonding

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

## Surface

Face veneer grades II and III according to the Handbook of Finnish Plywood (Comply with standard EN 635-3). Additional grade G (improved/solid grade II).

## 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	-	2.6
9	3	5	8.8	9.5	4.1	4.5
12	5	7	11.5	12.5	5.5	6.4
15	5	7	14.3	15.3	6.8	7.3
18	7	9	17.1	18.1	8.6	8.7
21	7	11	20.0	20.9	9.7	10.3
24	9	13	22.9	23.7	11.0	11.0
27	9	13	25.2	26.8	12.0	13.3
30	-	15	28.1	29.9	-	14.5

Other thicknesses (up to 50 mm) and constructions available on request.

Sizes and thicknesses relating to moisture content 8 - 10 %.  
Thicknesses and tolerances fulfil the EN 315 requirements.





### Panel sizes

#### Thin ply 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 available.

Other sizes on special request.

**Max panel size:** 1525 mm x 3660 mm

Size tolerances according to the Handbook of Finnish Plywood.

#### Thick ply construction standard sizes:

Length from 2400 to 2500 mm

Width from 1200 to 1250 mm

Tongued and grooved 2400/2440 x 600/1200

Size tolerances according to the Handbook of Finnish Plywood.

### Strength values

According to the Handbook of Finnish Plywood, please see [www.wisaplywood.com](http://www.wisaplywood.com).

### 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. Please leave 1 mm/m expansion gaps between panels in the installation. The boards can be worked with ordinary hand tools.

### Additional information

All WISA spruce plywoods are made of PEFC certified wood.

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.

Fulfils EN 1084, Class A and EN 13986, class E1

Plywood for use in humid conditions (EN 636-2)

Service class 2 (EN 1995-1-1)

Biological hazard class 2 (EN 335-3)

Reaction to fire class D-s2, d0 (EN13501-1)

WISA-Spruce is CE approved for structural use as CE 0809-CPD-0252 (EN 13986)

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.

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



[www.upm.com](http://www.upm.com)

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