

# WISA®-Spruce<sup>WR</sup>

WISA-Spruce<sup>WR</sup> is a lightweight water repellent plywood panel for structural uses. The wood-based water repellent coating agent protects the panel from the weather and adds efficiency to construction work. The wood-based agent creates a barrier slowing the rate of moisture penetration to the structure. At the same time, the surface allows the panel to breath and dry freely.

## Bonding

Weather resistant glueing according to EN 314-2/class 3 Exterior. WISA-Spruce<sup>WR</sup> fulfills the requirements of EN 13986 E1 low formaldehyde emission class. On request deliveries according to TSCA Title IV / CARB Phase II / JAS Four Stars.

## Surface

Face veneer grades II and III (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 Thick ply	Thickness (mm)		Weight (kg/m <sup>2</sup> ) abt Thick ply
		Min	Max	
12	5	11.5	12.5	5.7
15	5	14.3	15.3	7.0
18	7	17.1	18.1	8.1
21	7	20.0	20.9	9.4

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



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MANAGEMENT SYSTEM CERTIFICATION  
ISO 9001 • ISO 14001





## Panel sizes

### Standard sizes

2400/2440/2500 x 1200/1220/1250 mm

Tongued and grooved 2400/2440 x 600/1200 mm

Other sizes on request.

<b>Size tolerances</b>	< 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<sup>WR</sup> 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 Guide to Good Practice 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.



**UPM Plywood**

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