

# WISA<sup>®</sup>-Spruce<sup>BT</sup>

WISA-Spruce<sup>BT</sup> is a spruce plywood panel which is treated with wood protective agent on both sides in controlled factory conditions. The treatment gives a good protection against wood colouring and decaying fungi during the construction work. The panel should be painted with suitable paint on those parts which are left visible in exterior use. WISA-Spruce<sup>BT</sup> is designed for structural uses and load bearing structures like roofing, flooring and wall sheeting.

## Base board

Spruce plywood (WISA-Spruce)

## Bonding

Weather resistant glueing according to EN 314-2/class 3 Exterior.

## Surface

REACH approved yellow or black wood protecting agent is applied on both surfaces.

## Machining

Tongue & Groove on request (yellow panel only).

## 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

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





**Tolerances** < 1000 mm +/- 1 mm  
> 1000 mm +/- 2 mm  
**Squareness tolerance** +/- 1 mm/1000 mm

#### **Panel sizes**

**Maximum size** 1525 x 3280 mm

#### **Suggested end uses**

WISA-Spruce is truly a multipurpose panel and it suits for all construction. Because of its good strength properties it works especially well in structural and load bearing applications such as roofing, flooring and sheeting. The WISA-Spruce<sup>BT</sup> panel which is treated with wood protective agent is ideal in conditions where the relative air moisture content might occasionally rise up to 100%.

#### **Strength values and technical properties**

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 use class 2 (EN 335)

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

WISA-Spruce<sup>BT</sup> is CE marked according to AVCP System 2+

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

#### **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.

#### **Environment**

WISA products are manufactured in Europe according to the strictest sustainability principles. By choosing WISA, our customers can have the confidence that their plywood and veneer come only from legal sources and conform to all relevant standards and regulations, including the European Union Timber Regulation (EUTR).

UPM leads the integration of bio and forest industries into a sustainable future characterised by innovation, responsibility and resource efficiency.

