

WISA®-Spruce^{FR}

WISA-Spruce^{FR} is a fire-retardant plywood product for use in construction. The fire retardant treatment significantly improves fire resistance properties of the product without compromising the plywood panel's excellent technical properties. WISA-Spruce^{FR} works equally as well as the base product – WISA-Spruce – in all kind of construction, especially in structural uses and load bearing structures.

Bonding

Weather resistant gluing according to EN 314-2/class 3 Exterior. WISA-Spruce^{FR} fulfills the requirements of EN 13986 E1 low formaldehyde emission class. On request deliveries according to TSCA Title IV / CARB Phase II.

Surface

Face veneer grades II and III (comply with standard EN 635-3).
Additional grade G (improved/solid grade II). Fire retardant treatment is applied on both surfaces.

Fire classification

According to standard EN 13501-1+A1:
B-s1, d0 (roof and wall structures)
B_f-s1 (floors)

Fire protection ability of a covering (K-class)

According to standard EN 13501-2:2016 (CWFT):
K₂10 & K₁10

Machining

Tongue & Groove on request

Thicknesses and weights

Nominal thickness (mm)	Number of plies	Thickness (mm)		Weight kg/m ²
		Min	Max	
12	5	11.5	12.5	6.1
15	5	14.3	15.3	7.4
18	7	17.1	18.1	8.6
21	7	20.0	20.9	9.8
24	9	22.9	23.7	11.1
27	9	25.2	26.8	12.4
30	11	28.1	29.9	14.3

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



For PEFC™ products, visit www.pefc.org



For FSC® products, visit www.fsc.org





Panel sizes

Standard sizes: Length from 2400 to 2500 mm
Width from 1200 to 1250 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^{FR} is CE marked according to AVCP System 1 and suitable for structural use.

For all detailed technical values, please see DoP UPM024CPR
(Declaration of Performance) on www.wisaplywood.com/dop.

Storage instructions

Panels should be stored horizontally on a level surface in a dry, covered area.

Installation instructions

The panels can have dimensional changes due to changes in air humidity. The square edge of the panel should have 1 mm/m expansion gap between panels. You can also saw and drill holes in WISA-Spruce^{FR} without losing the fire retardant functionality. Fire classification is not limiting re-cutting the panels. Cut edges do not require additional treatment. For more information on handling, please see Guide to Good Practice on www.wisaplywood.com.

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.

Additional information

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

For further information on installation, maintenance, disposal, environmental matters etc. please contact your supplier or visit www.wisaplywood.com.

