

# Spruce Ply

## Conifer



Metsä Wood Conifer is uncoated plywood made out of thin softwood plies. It is an excellent general purpose panel, ideal for any uses where strength, stability, light weight and versatility are valued.

### APPLICATIONS

Metsä Wood Conifer is a multi-purpose panel that is suitable for various applications.

- Construction applications: internal structural use in dry conditions, internal or protected external structural use in humid conditions.

### MAJOR ADVANTAGES

- **Lightweight and dimensionally stable**
- **Strong and rigid**
- **Can act simultaneously as load-bearing construction and stiffening element**
- **Easy to machine and install using conventional woodworking tools and fasteners**
- **Panel is impact resistant and does not crumble**
- **Good base for fasteners**
- **Weather- and boil-proof bonding**
- **Made of sustainable Nordic wood and PEFC (PEFC/02-31-03) certified**

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### BASE PLYWOOD

Metsä Wood Conifer plywood is made of cross-bonded 1,4 mm thick coniferous veneers and bonded with a weather- and boil-resistant phenol formaldehyde adhesive.

### SURFACE PROPERTIES

Metsä Wood Conifer plywood panels are sanded on both sides. The surface can be treated with standard paints, lacquers, varnishes and protection treatments applicable to wood products. It is recommended to confirm the compatibility of the surface treatment with the supplier.

The surface grades are determined by the grade of the surface veneers as follows:

#### Conifer plywood surfaces –Typical properties

III – standard quality, with open defects such as knotholes and veneer checks

Classification of Metsä Wood Conifer surface grade meets the requirements of EN 635.

### PANEL SIZES

Metsä Wood Conifer is available in sizes:

- 1220 mm x 2440 / 2500 mm

The first measurement indicates the orientation of the surface veneer grain.

### SIZE TOLERANCES

Measured in accordance with standard EN 324, the plywood size and squareness tolerances meet EN 315 requirements.

### PANEL TOLERANCES

LENGTH / WIDTH	TOLERANCE
< 1 000 mm	± 1 mm/m
1 000 - 2 000 mm	± 2 mm/m
>2 000 mm	± 3 mm/m
Squareness	± 0.1 % or ±1 mm/m
Edge straightness	± 0.1 % or ±1 mm/m

### THICKNESSES, STRUCTURES AND THICKNESS TOLERANCES

The thickness tolerances fulfil the requirements of standard EN 315 and are in part more stringent than the official requirements.

### THICKNESSES, STRUCTURES AND THICKNESS TOLERANCES OF THE PANELS\*

NOMINAL THICKNESS	NUMBER OF PLYS	THICKNESS TOLERANCE		WEIGHT
(mm)	(no.)	min. (mm)	max. (mm)	kg/m <sup>2</sup>
9	7	8.8	9.5	4.7
12	9	11.5	12.5	6.3
15	11	14.3	15.3	7.8
18	13	17.1	18.1	9.4
21	15	20.0	20.9	10.9
24	17	22.9	23.7	12.5
27	19	25.2	26.8	14.0
30	21	28.1	29.9	15.6

\* The moisture content of the product affects its dimensions

\* Average density of Metsä Wood Conifer plywood is 520 kg/m<sup>3</sup> (at a relative humidity of RH 65%)

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### BONDING CLASSES

Metsä Wood plywood panels are bonded with a weather- and boilresistant phenol formaldehyde adhesive. The gluing meets the requirements of the standard EN 314-2 / Class 3 (exterior).

### FORMALDEHYDE EMISSIONS

Determined according to EN 717-1, the formaldehyde emitted by Metsä Wood Conifer falls far below the Class E1 requirement of  $\leq 0.100$  ppm and also fulfils the most stringent requirements in the world ( $\leq 0.030$  ppm). The formaldehyde emission of Metsä Wood Conifer is approximately 0.018 ppm.

### APPROVALS AND DESIGN PROPERTIES

Metsä Wood Conifer is CE and UKCA marked and the design properties are determined according to standard EN 13986. The design properties given in the Declaration of Performance (DoP) and in the UK Declaration of Conformity (UK DoC) are to be used for structural calculations with EN 1995 (Eurocode 5). The DoP documents can be downloaded from [www.metsawood.com/dop](http://www.metsawood.com/dop) and the UK DoC documents can be downloaded from [www.metsawood.com/ukdoc](http://www.metsawood.com/ukdoc).

Conifer plywood production is managed according to the principles of standard ISO 9001. The quality and the constancy of performance of the product is controlled by regular third party inspections and audits.

### PACKAGING

Metsä Wood Conifer panels are packed in moisture resistant plastic wrapping.

### PACKING QUANTITIES

PANEL SIZE (mm)	NUMBER OF PANELS PER PALLET BY THICKNESS							
	9	12	15	18	21	24	27	30
1220 x 2440 / 2500 mm	65	50	40	35	30	25	25	20

### FURTHER INFORMATION

- Metsä Wood Conifer Declaration of Performance ([www.metsawood.com/dop](http://www.metsawood.com/dop))
- Metsä Wood Conifer the UK Declaration of Conformity ([www.metsawood.com/ukdoc](http://www.metsawood.com/ukdoc))

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