Metsä Wood Spruce is a multi-purpose construction panel that is also suitable for various other applications.

- **Building applications**: floor, wall and roof structures, renovations, agricultural structures, pedestrian bridges, construction platforms etc.
- **Concrete formwork**: concrete moulds for arched casting and other loose-panel formwork
- **Transport industry**: walls of containers, coaches and trailers etc.
- **Other applications**: packing applications, furniture, fences, hoardings, canopies etc.

**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
- Environmentally friendly
- Available with square edges and tongue-and-groove profiles
- Weather- and boil-proof bonding

**BASE PLYWOOD**
Metsä Wood Spruce plywood is made of cross-bonded 3 mm thick coniferous veneers and bonded with a weather- and boil-resistant phenol formaldehyde adhesive.
SURFACE PROPERTIES
Metsä Wood Spruce plywood panels can be unsanded or 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:

Spruce plywood surfaces

II
Typical properties
– sound surface, might be repaired with filler, unreppaired defects with Ø max. 5 mm are permitted

III+
– open defects repaired with filler

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

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

PANEL SIZES
Metsä Wood Spruce is available in sizes:

- 2400 / 2440 / 2500 mm x 1200 / 1220 / 1250 mm
- 2400 / 2440 mm x 600 / 610 mm

Other sizes are available on request.

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

THICKNESS, STRUCTURES AND THICKNESS TOLERANCES
The thickness tolerances fulfil the requirements of standard EN 315 and are, in part, more stringent than the official requirements.

BONDING CLASSES
Metsä Wood plywood panels are bonded with a weather- and boil-resistant phenol formaldehyde adhesive (WBP, BFU, AW, exterior).

The gluing meets the requirements of the following international standards:
- EN 314-2 / Class 3 (exterior)
- DIN 68705-3 / BFU 100
- BS 6566 Part 8 / WBP
- JAS / Structural plywood / Class 2

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

PANEL STRENGTH PROPERTIES

- Matsä Wood Spruce is a CE marked product. The strength and elasticity properties are specified according to standards EN 789 and EN 1058 and can be found in the Metsä Wood Spruce Declaration of Performance (DoP). The DoP documents can be downloaded from www.metsawood.com/dop.

MACHINING
Metsä Wood Spruce plywood can be delivered with tongue-and-groove edge machining on either two sides or four sides. Tongue-and-groove panels are always sanded. Tongue-and-groove machining decreases net panel size by 10 mm. Tongue-and-groove machining is available for panel thicknesses ≥ 12 mm.

PACKING
Metsä Wood Spruce panels are packed in moisture resistant plastic wrapping.

FURTHER INFORMATION
- Metsä Wood Spruce Declaration of Performance (www.metsawood.com/dop)
- Metsä Wood Spruce Plywood Manual
- Metsä Wood Spruce Plywood for Construction brochure
- Metsä Wood Concrete Formwork brochure