Metsä Wood KingSize is an extra large size birch plywood panel jointed from standard size panels. KingSize panels enable larger one piece components. KingSize panels are available uncoated or overlaid with phenolic film.

APPLICATIONS
Metsä Wood KingSize is suitable for applications that require large size panels and high technical properties. Larger panels facilitate and accelerate installation and provide structures with a high degree of rigidity:
- Transport industry: Trailer, truck, lorry, van and refrigerated trailer floors, container floors, walls and ceilings, passenger car floors, railway wagon floors and ship/boat decking
- Building applications: Concrete formwork, loading docks, piers, stages and sport stands

MAJOR ADVANTAGES
- Extra large sizes
- Strong and rigid
- Withstands impacts and other forms of bruising
- Available with durable and weather resistant overlays
- Dimensionally stable
- Easy to machine and fasten using conventional woodworking tools and fasteners
- Environmentally friendly
- Weather- and boil-proof bonding

BASE PLYWOOD
The base plywood of Metsä Wood KingSize is Metsä Wood Birch. Birch plywood is made of cross-bonded 1.4 mm thick birch veneers bonded with weather- and boil-resistant phenol formaldehyde adhesive.

KingSize panels are scarf-jointed from standard size birch plywood panels using weather-resistant adhesive. The scarf-joints appear as thin, visible lines on both sides of the panel, running perpendicularly to the panel length.

OVERLAY
Metsä Wood KingSize panels can be either wood faced or overlaid with phenolic films.

The main KingSize panel options are:
- Metsä Wood Birch KingSize (BB/WG)
- Metsä Wood Form KingSize (220 g/m², smooth surface)
- Metsä Wood Deck KingSize (220 g/m², wire mesh surface)

The reverse side is overlaid with smooth phenolic film.
SURFACE PROPERTIES
Metsä Wood KingSize panels have the same surface properties as the original panels, possibly with slight differences in colouration and gloss between the jointed panels. The surface quality of the wood faced KingSize panels is BB/WG. The scarf-joint may cause a slight variation in the thickness.

Surface properties are dependent on the overlay type. More information on the overlay selection and the surface properties of a single overlay type, see particular Product Data Sheet (Metsä Wood Birch, Form or Deck).

EDGE SEALING
Panel edges of the overlaid panels are sealed against moisture absorption with acrylic edge sealing paint. The colour of the edge sealing is normally dark brown. Even though edge sealing slows down the absorption of moisture into the panel, it does not eliminate it completely.

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SURFACE PROPERTIES
BONDING CLASSES
Metsä Wood plywood panels are bonded with a weather- and boil-resistant phenol formaldehyde adhesive. The gluing meets the requirements of the standard EN 314-2 / Class 3 (exterior). The scarf joint is glued with weather-resistant adhesive.

FORMALDEHYDE EMISSIONS
Formaldehyde emissions are dependent on the overlay type. More information on the formaldehyde emissions of a single overlay type, see particular Product Data Sheet (Metsä Wood Birch, Form or Deck).

PANEL STRENGTH PROPERTIES
Due to the scarf jointed core plywood, the strength values of Metsä Wood KingSize in the longitudinal direction of the panel are ca. 65% of standard Metsä Wood Birch plywood values. In the cross direction of the panel the strength values are similar to standard Birch plywood. Stiffness values in both directions are similar to standard Birch plywood.

MECHANICAL PROPERTIES

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<th>THICKNESS</th>
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Panel strengths and thicknesses are available on request. Customised tolerances are possible but must be agreed separately.

PACKING
Metsä Wood KingSize panels are packed either in covered pallets or moisture-resistant plastic wrapping. The packing quantities must be agreed case by case.

FURTHER INFORMATION
• Metsä Wood Transport brochure
• Metsä Wood Concrete Formwork brochure
• Metsä Wood Concrete Formwork technical data

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