METSÄ WOOD
PLYWOOD
FOR CONCRETE
FORMWORK
Metsä Wood plywood products and solutions are widely recognised for their quality thanks to the premium Nordic raw material and up-to-date and technologically advanced production processes, not to mention the decades of experience in manufacturing plywood.

The Metsä Wood concrete formwork product range includes a wide variety of panels for different concreting applications. There are several panel and overlay types, and a wide variety of thicknesses and sizes including XL and King Size panels. In addition to a cut-to-size service, the panels can be ordered with customer specific machining if required.

PREMIUM PANELS FOR CONCRETE FORMWORK

Metsä Wood Plywood panels are used extensively in the concrete formwork industry and by some of the largest concrete formwork contractors. Being able to deliver the right formwork panel for each type of casting, whether it is a shuttering system or loose panel formwork, slab or wall casting, flat or curved surfaces, our product portfolio is wide-ranging to suit all applications. Metsä Wood Formwork panels can be used both in building site casting and in prefabricated concrete element manufacturing. All Metsä Wood concrete formwork panels have been designed to meet the requirements of different types of castings in order to achieve the highest concrete cast finish quality. In addition to plywood standard sizes, Metsä Wood is able to offer XL and King Size panels that enable large concrete surfaces with less joints.

Be our partner in meeting demanding concrete formwork applications!

METSÄ WOOD ADVANTAGES

Sustainable Forestry  Renewable Raw Material  Cooperation Values  Production Technology  High-quality Plywood Products

R&D with New Ideas  Machining & Logistics Network  On-time Deliveries  Sustainability  Continuous Development

METSÄ WOOD PLYWOOD TAILORED FOR A PERFECT CONCRETE FINISH

Withstands high concrete pressure & multiple re-uses

Sustainable and renewable wood resources

Secured raw material supply through 125,000 Metsä Group forest owners
Superior quality concrete finish

NEW SOLUTIONS FOR FUTURE CHALLENGES

Constantly good quality

Easy to use

LARGE PRODUCT PORTFOLIO

KEY BENEFITS

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Metsä Wood Form is a birch plywood panel, both sides overlaid with a phenol film with the edges sealed. The Metsä Wood Form panel is a smooth surfaced, maintenance-free and multi-purpose formwork panel for various concrete formwork uses: system shuttering, girder formwork and regeneration panels.

Metsä Wood Form PLUS plywood is the phenolic film overlaid panel choice for all formwork uses with high concrete surface quality requirements. The FormPLUS plywood surface has a special treatment to resist surface rippling, which ensures a smooth high-quality concrete surface from the first use.

Metsä Wood Form XL is a large size birch plywood panel with a smooth phenolic overlay. Form XL is a tough-surfaced, durable shuttering panel for demanding formwork applications. The durable overlays and large panel size ensure multiple uses and a high quality concrete finish with fewer joints. XL panels enable larger one-piece components.

Metsä Wood King Size is an extra large size phenolic overlaid birch plywood panel jointed from standard size panels. King Size panels enable larger one piece components with visible scarf-joints.
SLAB FORMWORK

Loose panels
Building sites

METSÄ WOOD FORM
Metsä Wood Form is a birch plywood panel, both sides overlaid with a phenol film with the edges sealed. The Metsä Wood Form panel is a smooth surfaced, maintenance-free and multi-purpose formwork panel for various concrete formwork uses: system shuttering, girder formwork and regeneration panels.

METSÄ WOOD SPRUCE
Metsä Wood Spruce is an uncoated softwood plywood manufactured from a long-grained, homogenous Nordic conifer. Spruce plywood is an excellent general purpose construction panel.

SCAFFOLDING SYSTEMS

METSÄ WOOD DECK
Metsä Wood Deck is birch plywood overlaid with phenol film with a rough wire mesh pattern. The rough-surfaced Deck is a durable, multipurpose flooring panel.

METSÄ WOOD TOP
Metsä Wood Top is a phenolic film overlaid birch plywood panel with a raised nub pattern. High visual quality and a wear-resistant surface makes Metsä Wood Top an extremely durable, multipurpose flooring panel.

METSÄ WOOD KERTO MASTER PLANK®
Metsä Wood Master Plank is LVL made out of spruce veneers and it is designed specifically for use as a scaffold board. Master Plank is light in weight and has proof-tested strength properties.
Metsä Wood’s Birch plywood formwork panels are designed for demanding system shuttering and special formwork applications.

Architects and professional builders are increasingly demanding higher quality concrete surfaces with excellent cost-efficiency. Metsä Wood formwork panels have thick and durable overlays providing a high number of re-uses with extra smooth and high-quality concrete surfaces. Fast and easy surface cleaning and repairing allow short pouring cycles with consistent high quality. Their superior weight-to-strength ratio allows the design of lighter systems but to still achieve high allowed concrete pressures.

With Metsä Wood formwork panels, excellent concreting results can be achieved with an excellent price performance ratio.

TOP OF THE LINE PRODUCTS

Metsä Wood Form is birch plywood with both sides overlaid with phenol film and the edges sealed. Form plywood is the choice for smooth surfaced concrete elements. Metsä Wood Form is a maintenance-free panel for different concrete formwork uses: system shuttering, girder formwork and regeneration panels. It can also be used as a multipurpose, maintenance-free formwork panel for various other uses. The durable overlays ensure smooth concrete cast finishes and multiple uses. The number of uses ranges from between 30–100 depending on the used overlay, site practice, requirements of concrete finish, the quality of the release agent and the maintenance, handling and storage practices.

Metsä Wood FormPLUS has a patent-pending treatment which provides more resistance to moisture absorption in order to dramatically reduce the ripple and grain marks that conventional plywood panels can leave on visual concrete. FormPLUS delivers a significant improvement on the surface finish quality compared with traditional phenol-coated shuttering panels.

FormPLUS makes smooth concrete finishes affordable in more applications – not just in prestige architectural projects.
KEY ADVANTAGES OF COATED BIRCH PLYWOOD
• Strong and rigid panels
• Smooth durable overlays
• High hardness and scratch resistance
• Standard and custom sizes + XL and King sizes
• Weather and boil-proof bonding
• Easy to clean and re-use
• Easy to repair
• Good chemical resistance
• Easy to machine and fasten using conventional woodworking tools and fasteners
• Can withstand impacts and other forms of bruising
• Environmentally friendly

SUITABLE METSÄ WOOD PLYWOOD
• Form
• FormPLUS
• Form XL
• King Size

FORMPLUS EXTRA FEATURES
• Surface resists rippling
• Smooth durable overlay
• High-quality concrete finish from the first use

DID YOU KNOW
• WITH FORMPLUS PANELS YOU CAN REDUCE SURFACE RIPPLING.
The concrete element industry has high quality standards and requirements for concrete elements as the demand for visually aesthetic and smooth concrete surface is continuously growing. Metsä Wood plywood meets the high visual end technical properties required by the element industry.

Metsä Wood offers XL size panels that are especially tailored for the concrete element industry. The large size panels reduce the number of visible concrete joints. This gives a better visual appearance for large size concrete elements.

The Form XL panel has double-sided, durable, smooth and maintenance-free phenolic overlays.

Choosing XL Formwork panels will give you high-quality concrete surfaces with less visible joints.

FOR SMALL CORNERS AND PIECES WE RECOMMEND THAT YOU USE METSÄ WOOD FORM PLYWOOD PANELS.
SUITABLE METSÄ WOOD PLYWOOD

- FormXL
- Form Plus
- Form
- King Size

KEY ADVANTAGES OF METSÄ WOOD PRODUCTS

- Large XL panel sizes with one piece surface overlay
- High-quality concrete cast surface
- Minimal deflection due to exceptional stiffness
- High durability with multiple re-uses
- Easy to machine and fix using standard machining and fastening methods
- Good chemical resistance
- Wide variety of different overlays and sizes available
- High quality technical service

LARGE SIZE PANELS FOR DEMANDING USE

DID YOU KNOW

OVER 4,000 LARGE SIZE CONCRETE ELEMENTS IN THE LEIPZIG PORSCHE FACTORY HAVE BEEN MADE WITH FORM XL PLYWOOD PANELS.
When it comes to construction site safety, your workers deserve the best.

Metsä Wood plywood can be used in a wide variety of scaffolding systems: from construction sites to industrial working platforms, events and stages. The advantages are safety and its light weight. Our scaffolding products panels are manufactured according to high-quality standards in order to achieve the highest safety regulations.

Metsä Wood Deck is birch plywood overlaid with phenol film with a rough wire mesh pattern. The rough-surfaced Metsä Wood Deck is a durable, multipurpose scaffolding and flooring panel.

Metsä Wood Top is phenolic film overlaid birch plywood panel with a raised nub pattern. High visual quality and a wear-resistant surface combine to make Metsä Wood Top extremely durable, multi-purpose scaffolding and flooring panels. They are especially suitable for more aesthetic platforms such as for fairs and stages.

Kerto Master Plank® is an LVL product designed specifically for use as a scaffold board. Lightweight and durable, the scaffold board is dimensionally stable and cost effective. The unique process manufacturing disperses the inherent defects found in solid-sawn timber.

### Suitable Metsä Wood Products

- Deck
- Top
- Kerto Master Plank®

### Key Advantages

- Guaranteed quality for high safety standards
- Slip resistant surface
- Favorable weight to strength ratio
- Minimal deflection due to exceptional stiffness
- High durability with multiple re-uses
- Easy to machine and fix using standard machining and fastening methods
- Lightweight and easy to handle on site
- Tailor-made cut-to-size and machining services

### Service, Machining and Logistics

Thorough knowledge of our customers’ manufacturing processes and logistics is one of our key targets. As a reliable and long-standing business partner, we support our industrial customers’ value chain while improving their profitability and efficiency.

Metsä Wood provides a ready supply of components via its machining and logistics network. We can free your resources saving you time and money, allowing you to concentrate on your core business.

- Cut-to-size services
- T & G profiles
- CNC machining
- JOT deliveries

### Metsä Wood Machining Offers

- Tailored solutions for demanding industrial applications
- Processed ready-made components for assembling
- Technical support
- Logistics services

### Metsä Wood Machining Techniques

- CNC machining (up to 13,500 mm x 2,850 mm)
- Cut-to-size services
- Edge profiling & sealing

### Reliable Supply Chain

Metsä forest owners

Own plywood mills

Wide product portfolio

Metsä Wood machining
- CNC machining
- Cut-to-size
- Edge profiling

Logistics services
- Labelling
- Packing
- Stocking
- Shipment

END USE
Metsä Wood plywood products for Concrete Formwork

**TECHNICAL DATA**

Metsä Wood plywood products for Concrete Formwork

**Strength and elastic properties of Metsä Wood plywood products**

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>PANEL SIZES</th>
<th>PANEL TYPE</th>
<th>SURFACE</th>
<th>APPLICATIONS</th>
<th>NUMBER OF RE-USES CA.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>METSÄ WOOD FORM &amp; FORMPLUS</td>
<td>All standard sizes</td>
<td>Birch plywood</td>
<td>Phenolic film, Less Rippling surface</td>
<td>Walls and slabs</td>
<td>30 - 100</td>
</tr>
<tr>
<td>METSÄ WOOD FORM XL</td>
<td>XL sizes max.6000 mm x 2200 mm</td>
<td>Birch plywood</td>
<td>Phenolic film, CPL</td>
<td>Walls and slabs, Element industry</td>
<td>30 - 100</td>
</tr>
<tr>
<td>METSÄ WOOD FORM KING SIZE</td>
<td>max. 13700 mm x 2800 mm</td>
<td>Birch plywood</td>
<td>Phenolic film</td>
<td>Walls and slabs</td>
<td>30 - 100</td>
</tr>
<tr>
<td>METSÄ WOOD SPRUCE III+/III</td>
<td>Spruce plywood standard sizes + Half Sizes</td>
<td>Spruce plywood</td>
<td>Uncoated</td>
<td>Mainly slabs</td>
<td>2 - 5</td>
</tr>
<tr>
<td>METSÄ WOOD DECK &amp; TOP</td>
<td>All standard sizes</td>
<td>Birch plywood</td>
<td>Phenolic film</td>
<td>Scaffolding</td>
<td>N.A.</td>
</tr>
</tbody>
</table>

1 The number of re-uses is highly dependent on site practice, requirements of the concrete finish, the quality of the release agent and the maintenance, handling and storage practices

**Nominal thickness, thickness tolerance, modulus of elasticity, bending, characteristic strength, modulus of rigidity, planar shear, characteristic strength planar shear, approx. weight, face veneer direction**

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>NOMINAL THICKNESS [mm]</th>
<th>THICKNESS TOLERANCE MIN. [mm]</th>
<th>MAX. [mm]</th>
<th>E_a[N/mm²]</th>
<th>E_b[N/mm²]</th>
<th>f_m a[N/mm²]</th>
<th>f_m b[N/mm²]</th>
<th>G_a[N/mm²]</th>
<th>G_b[N/mm²]</th>
<th>f_r a[N/mm²]</th>
<th>f_r b[N/mm²]</th>
<th>WEIGHT [kg/m²]</th>
<th>VENEER DIRECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>METSÄ WOOD FORM &amp; FORMPLUS</td>
<td>9</td>
<td>8.8</td>
<td>9.5</td>
<td>6105</td>
<td>11395</td>
<td>32.1</td>
<td>45.6</td>
<td>155</td>
<td>206</td>
<td>2.35</td>
<td>2.68</td>
<td>6.1</td>
<td>b</td>
</tr>
<tr>
<td>METSÄ WOOD FORM XL &amp; KING SIZE</td>
<td>18</td>
<td>16.9</td>
<td>18.1</td>
<td>10048</td>
<td>7452</td>
<td>23.9</td>
<td>34.1</td>
<td>206</td>
<td>183</td>
<td>2.67</td>
<td>2.34</td>
<td>12.2</td>
<td>a</td>
</tr>
<tr>
<td>METSÄ WOOD FORM XL &amp; KING SIZE</td>
<td>21</td>
<td>19.8</td>
<td>20.9</td>
<td>9858</td>
<td>7642</td>
<td>24.0</td>
<td>34.3</td>
<td>206</td>
<td>186</td>
<td>2.59</td>
<td>2.41</td>
<td>14.3</td>
<td>a</td>
</tr>
<tr>
<td>METSÄ WOOD SPRUCE III+/III</td>
<td>12</td>
<td>11.5</td>
<td>12.5</td>
<td>8237</td>
<td>1363</td>
<td>20.6</td>
<td>6.5</td>
<td>35.5</td>
<td>3.1</td>
<td>0.94</td>
<td>-</td>
<td>5.5</td>
<td>a</td>
</tr>
<tr>
<td>METSÄ WOOD SPRUCE III+/III</td>
<td>15</td>
<td>14.3</td>
<td>15.3</td>
<td>9237</td>
<td>2763</td>
<td>23.1</td>
<td>11.1</td>
<td>50.5</td>
<td>29.1</td>
<td>1.63</td>
<td>0.87</td>
<td>6.9</td>
<td>a</td>
</tr>
<tr>
<td>METSÄ WOOD DECK &amp; TOP</td>
<td>18</td>
<td>17.1</td>
<td>18.1</td>
<td>8615</td>
<td>3385</td>
<td>21.5</td>
<td>12.3</td>
<td>71.4</td>
<td>24.9</td>
<td>1.76</td>
<td>0.64</td>
<td>8.3</td>
<td>a</td>
</tr>
</tbody>
</table>

All technical details and design data – concrete pressure tables and design nomograms – for Metsä Wood Concrete Formwork plywood products can be found in the "Metsä Wood Plywood for Concrete Formwork – Technical Data and Design" brochure.

**Special construction**

Metsä Wood Form and FormPLUS panels can be ordered with special veneer construction to improve strength and stiffness properties in the main load bearing direction of the panel. Detailed strength and stiffness values as well as design data for the Metsä Wood plywood panels with special construction can be found in the "Metsä Wood Plywood for Concrete Formwork - Technical Data and Design" brochure.
**Phenolic film**
A smooth and durable phenolic film is hot-pressed onto the panel surface. The film consists of special base papers impregnated with phenolic resin. The film surface is semi-glossy, smooth, hard and slippery. It withstands abrasion, is moisture resistant and can tolerate commonly used chemicals as well as diluted acids and alkalis. The surface is easy to clean with water or steam. Moisture absorption is minimal.

Films with a basis weights from 120 up to 450g/m² are normally used. Standard film colours are dark brown, light brown, yellow and black. Other colours are available by order. The phenol film is not UV resistant and the colour may change if exposed to sunlight over prolonged periods. Metsä Wood plywood: Form, FormPLUS, Form XL, Form KingSize, Deck.

**FormPLUS panel**
In addition to Phenolic film, Metsä Wood FormPLUS panel surface has a special treatment which makes the surface moisture repellent. Hence the FormPLUS panel surface is able to significantly reduce surface rippling and provides a smooth concrete cast surface from the first use.

**Overlay properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>EN 438-2</th>
<th>FORM 120G</th>
<th>FORM 220G</th>
<th>FORM XL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abrasion Resistance (Taber value)</td>
<td>EN 438-2</td>
<td>300</td>
<td>700</td>
<td>1000</td>
</tr>
<tr>
<td>Surface Hardness (Brinell)</td>
<td>EN 1534</td>
<td>HBa</td>
<td>2.41</td>
<td>2.44</td>
</tr>
<tr>
<td>Crack Resistance</td>
<td>EN 13696</td>
<td>Conemin [mm]</td>
<td>1.8 mm</td>
<td>0.8 mm</td>
</tr>
<tr>
<td>Impact Resistance</td>
<td>EN 13329</td>
<td>[IC class]</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Scratch Resistance</td>
<td>EN ISO 1518</td>
<td>A* [N]</td>
<td>14</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B** [N]</td>
<td>20</td>
<td>32</td>
</tr>
<tr>
<td>Water Penetration (Cobb168h)</td>
<td>EN 20535</td>
<td>166</td>
<td>67</td>
<td>64</td>
</tr>
<tr>
<td>Resistance to Water Vapour</td>
<td>EN 438-2</td>
<td>5</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Temperature Resistance</td>
<td>EN 12722</td>
<td>100°C [class]</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>

A* Minimum load for visible scratch
B** Minimum load for coating penetration
**XL and King Size plywood**

Metsä Wood XL and King Size panels are large sized panels jointed from standard size panels with a special jointing method. The Form XL Plywood has a one-piece overlay where as King Size panels have visible scarf-joint. The maximum size of Form XL panels is 6000 x 2200 mm. The King size panel can be ordered in size up to 13700 x 2800 mm.

The stiffness values of XL and King Size panels are similar to standard Metsä Wood Birch plywood. The strength values of Form XL and KingSize panels in the longitudinal direction of the panel are ca. 70% of standard Birch plywood values. In the cross direction of the panel the strength values are similar to standard Birch plywood.

**Edge sealing**

Panel edges are sealed against moisture absorption with acrylic edge sealing paint. The standard colour of the edge sealing is dark brown, but edge sealing colour can also be ordered to match the surface film colour. Even though edge sealing slows down the absorption of moisture into the wood, it does not eliminate it completely.

**Repairing**

Metsä Wood plywood panel surfaces can be repaired with several methods. Phenol film surfaces can be repaired with overlaid wooden plugs or by using suitable water proof filler.

**Size tolerances**

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

**Packing**

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

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**PRODUCT** | **MAXIMUM SIZE** | **VISIBLE SCARF-JOINT**
---|---|---
FormXL | 6000 x 2200mm | No
KingSize | 13700 x 2800mm | Yes

---

**PACKING QUANTITIES FOR BIRCH PLYWOOD STANDARD SIZES**

<table>
<thead>
<tr>
<th>PANEL SIZE</th>
<th>NUMBER OF PANELS PER PALLET BY THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500/1525 x 2400/3660</td>
<td>150 90 65 50 40 35 30 25 25 20 15 10</td>
</tr>
<tr>
<td>1200/1220/1250 x 3000-3660</td>
<td></td>
</tr>
<tr>
<td>1500/1525 x 1500/2135</td>
<td></td>
</tr>
<tr>
<td>1200/1220/1250 x 1200-2750</td>
<td>240 140 100 75 60 50 45 40 35 30 25 20</td>
</tr>
</tbody>
</table>

**PACKING QUANTITIES FOR PLYWOOD XL SIZES**

<table>
<thead>
<tr>
<th>PANEL SIZE</th>
<th>NUMBER OF PANELS PER PALLET BY THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000 x 2000</td>
<td>80 60 45 40 30 30 25 20 20</td>
</tr>
<tr>
<td>4000 x 2000</td>
<td>60 45 35 30 25 20 20 15</td>
</tr>
<tr>
<td>5400 x 2000</td>
<td>45 30 25 25 20 15 15 10</td>
</tr>
<tr>
<td>6000 x 2000/2200</td>
<td>35 25 20 20 15 15 10 10</td>
</tr>
</tbody>
</table>

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**PACKING QUANTITIES FOR PLYWOOD XL SIZES**

<table>
<thead>
<tr>
<th>PANEL SIZE</th>
<th>NUMBER OF PANELS PER PALLET BY THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2400/2440/2500 x 1200/1220/1250</td>
<td>85 65 55 45</td>
</tr>
<tr>
<td>2400/2440/2500 x 600</td>
<td>160 130 110 90</td>
</tr>
<tr>
<td>1200/1220 x 1200/1220</td>
<td>75 65 55 45</td>
</tr>
</tbody>
</table>
GOOD SITE PRACTICES

Before use

• Unopened packages can be temporarily stored outside due to the plastic wrapping. (A)

• Once the wrapping has been removed, protect the panels from contact with water and direct sunlight by storing in a building or by covering with a suitable waterproof cover. Also avoid very dry and hot storage areas. (A)

• Individual panels can be removed from the plastic wrapping. However, remember to close the package after opening. (B)

• Loose panels should not be transported around the site using mechanical handling equipment, as overlaid panels are slippery. (C)

• Individual panels should always be moved by lifting and carrying them manually or by vacuum lifting. They must not be pulled along the ground or the floor. (D)

• Plywood panels should always be stored horizontally. (E)

• To achieve the best results we recommend that the plywood should be fastened to the formwork support members from the back of the panel. Fasteners specification and centres dependant on design. (H)

• A suitable approved release agent must be used to ensure cleaner and easier striking, and also more re-uses. (H)

• The quality of the release agent may also affect the quality or appearance of the concrete finish. Please follow the instructions of the release agent supplier. (H)

After use

• Plywood panels should be cleaned carefully with water or steam after use. Avoid damaging the panel surface when cleaning the concrete residues. Plastic or nylon tools and brushes are recommended. (I)

• Repair any face defects with a suitable water resistant filler. (J)

• Apply a fresh coat of release agent prior to each subsequent use. (H)

• Cleaned boards should be allowed to dry before re-packing and storing.

• Store the forms and the loose formwork panels against sun and rain. (A)

• At the end of their service life, Metsä Wood plywood panels can be chipped and utilised in the bio mass energy production industry. (K)

• All Metsä Wood plywood packing material is recyclable. (L)

Formwork preparation

• Coated Metsä Wood plywood is delivered with all edges protected with suitable edge paint to avoid moisture penetration. (F)

• Metsä Wood formwork panels can be cut, shaped and drilled using standard woodworking tools. Seal the resulting raw edges and holes with a suitable water resistant paint. (G)
SUSTAINABILITY

At Metsä Wood we engage in responsible operations and consider the economic, social and environmental impacts of our actions.

Metsä Wood’s environmental policy is based on the principles of minimising environmental impacts, continuous improvement, the efficient use of raw materials and open communication. Our certified environmental and quality systems support operational monitoring and the systematic improvement in our production units.

GLUING
Metsä Wood plywood panels are glued with weather- and boil-proof phenolic resin adhesive (WBP, BFU, AW, exterior). The plywood panel gluing meets the requirements of the following international standards:
• EN 314-2/class 3 (Exterior)
• DIN 68705 - 3/BFU 100
• BS 6566 - 8/WBP

QUALITY CONTROL
In addition to Metsä Wood’s own quality control, the VTT Technical Research Centre of Finland oversees production operations and the internal quality control at Metsä Wood plywood mills. External plywood quality control is conducted according to standard EN 13986 and its CE-marking rules in cooperation with VTT.

FORMALDEHYDE EMISSIONS
Determined according to EN 717-1, the formaldehyde emitted by Metsä Wood Plywood products falls far below the Class E1 requirement of ≤ 0.100 ppm and most products also fulfill the most stringent requirements in the world (≤ 0.030 ppm). More information on the formaldehyde emissions of different products is given in the Product Data Sheets.

FURTHER INFORMATION
• Metsä Wood product data sheets
• Metsä Wood Plywood for Concrete Formwork - Technical Data and Design brochure 2013
• Handbook of Finnish Plywood, Finnish Forest Industries Federation, 2001
• www.metsawood.com

RENEWABLE AND SUSTAINABLE MATERIAL
The ISO 9001 and ISO 14001 certified quality and environmental management systems of Metsä Group include a wood origin management system. The PEFC logo ensures that the raw material is sourced from sustainably managed forests.
Metsä Wood products are manufactured with low energy and emissions, using the best available technology. Wood raw material is utilised to the fullest during the manufacture of different products. The by-products – wood chips, sawdust and bark – are used as raw material for production plants or bioenergy production.

RECYCLING AND DISPOSAL
The disposal of Metsä Wood plywood products can be carried out by several methods. It should be noted that the instructions for disposal may vary in different countries depending on current legislation. Recycling of plywood by utilising it in other applications is always preferred, but Metsä Wood plywood products can be safely burnt when the combustion temperature is at least 850°C and the correct combustion conditions are maintained. Metsä Wood plywood products contain nothing classified as hazardous waste.
Metsä Wood offers competitive and eco-efficient wood-based solutions for industrial construction customers, other industrial customers and the home and lifestyle sectors. We manufacture products from Nordic wood, a sustainable raw material of premium quality. Metsä Wood is part of Metsä Group.

Further information & sales contacts

WWW.METSAWOOD.COM