Metsä Wood Flex Smooth is a birch plywood overlaid with a smooth and glossy ABS based overlay. Flex Smooth has ready finished surface which is UV-resistant and therefore suitable for interior and exterior applications. The combination of superior surface with high technical properties makes Flex Smooth an excellent panel for various applications.

APPLICATIONS
Metsä Wood Flex Smooth provides a larger size ready finished surface solution for the transport industry such as side walls for horse- and box trailers, light and medium size truck side walls, doors and bulk heads.

MAJOR ADVANTAGES
- High quality smooth and glossy surface
- Ideal surface for stickers and decals
- Excellent UV and weather resistance
- Easy to fix and cut
- Easy to clean
- Excellent strength-to-weight ratio
- Dimensionally stable
- Environmentally friendly

BASE PLYWOOD
The base plywood of Metsä Wood Flex Smooth 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.

OVERLAY
The panel is overlaid with smooth and glossy ABS based overlay. The overlay has UV-additives to make it resistant against the sunlight.

The overlay is bonded to plywood with water resistant glue. Metsä Wood Flex Smooth is available in white colour. Flex Smooth surface is covered with blue protection foil in order to avoid damages during transportation and handling.
SURFACE PROPERTIES
The surface of the overlay is smooth and glossy. Overlay is elastic and does not crack easily. It is also moisture and UV resistant. The overlay is safe to use and dispose. It is free of chlorine, halogen, plasticizer, formaldehyde and heavy metals.

The surface is easy to clean with water and normal detergents. Strong acids, alkalis and e.g. acetone may cause visual changes on the surface.

Metsä Wood Flex Smooth plywood products have very high surface quality and the surface is susceptible to scratches due to its softer appearance, extra caution has to be practised in handling and storing the panels to prevent damage. Extreme moisture penetration may cause visible changes on the appearance of the product.

Technical properties of surface
- Colour stability 2 according to EN ISO 3668
- Colour change ∆E < 1.5 according to ISO 4892-2 (600 h)

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

PANEL SIZES
Metsä Wood Flex Smooth is available in sizes:
- 1500 / 1525 mm x 2500 / 3000 / 3050 / 3660 mm
The first measurement indicates the orientation of the surface veneer grain. Other sizes are available on request. Larger size scarf-jointed XL panels are also available by special order.

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

PANEL TOLERANCES

<table>
<thead>
<tr>
<th>PANEL SIZES mm</th>
<th>1500 / 1525 x 2500</th>
<th>3000</th>
<th>3050 / 3660</th>
</tr>
</thead>
<tbody>
<tr>
<td>LENGTH / WIDTH</td>
<td>±1 mm</td>
<td>±2 mm</td>
<td>±3 mm</td>
</tr>
<tr>
<td>Squareness</td>
<td>±0.1 % or ±1 mm/m</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Edge straightness</td>
<td>±0.1 % or ±1 mm/m</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

THICKNESSES, STRUCTURES AND THICKNESS TOLERANCES

THICKNESSES, STRUCTURES AND THICKNESS TOLERANCES OF THE PANELS

<table>
<thead>
<tr>
<th>NOMINAL THICKNESS</th>
<th>NUMBER OF PLIES</th>
<th>THICKNESS TOLERANCE</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>(mm)</td>
<td>(pcs)</td>
<td>min. (mm)</td>
<td>max. (mm)</td>
</tr>
<tr>
<td>11</td>
<td>7</td>
<td>10.3</td>
<td>11.6</td>
</tr>
<tr>
<td>14</td>
<td>9</td>
<td>13.0</td>
<td>14.6</td>
</tr>
<tr>
<td>17</td>
<td>11</td>
<td>15.8</td>
<td>17.4</td>
</tr>
</tbody>
</table>

* Moisture content of the product affects its dimensions
* Average density of Metsä Wood birch plywood is 680 kg/m³ (at relative humidity of RH 65 %)
* Special structures and thicknesses are available on request
* Customised tolerances are possible but must be agreed separately by

FURTHER INFORMATION
• Metsä Wood Birch Declaration of Performance (www.metsawood.com/dop)
• Metsä Wood Flex Product Data Sheet