

# BUILD YOUR WORLD WITH WISA® – Special Plywoods for multiple end-uses



# PLYWOOD by WISA®

Derived from a sustainable resource and combining strength, lightness and outstanding visual appearance, responsibly manufactured WISA plywood offers unmatched properties for a wide range of uses.

UPM's WISA product selection offers a versatile range of materials for countless end uses. The materials include birch and spruce plywood, from standard products to ready-made components which are also available with special coatings or treatment.

## It is what our products can do for you that matter

Whether we're talking concrete casting, building and construction, vehicle industry or decoration, our WISA products provide you with the solutions you need today and tomorrow. We place strong emphasis on offering well-thought-out solutions that make our customers' lives easier. Product development combines fresh ideas with a strong knowledge of plywood and veneer. We focus on keeping our product range up to date and ready to meet new challenges.

Here is just a glimpse of WISA plywood products and what we have to offer you.









Environmental protection and continuous attention to environmental issues are an essential part of our daily work. Our operational management system is certified in accordance with both ISO 9001 and ISO 14001 standards. We know the origin of the wood we use – we have certified FSC®/PEFC chain of custody (CoC) system for all mills. We use wood from sustainable and well managed forests and follow a strict policy of forest management and harvesting practices to ensure economic, ecological and social sustainability.

For further information visit our website on [www.wisaplywood.com](http://www.wisaplywood.com).









# CONSTRUCTION PLYWOODS



	DESCRIPTION/OUTLOOK	MAIN END USE AREA	THICKNESSES AND PANEL SIZES
<b>WISA-Birch</b>	 <ul style="list-style-type: none"> <li>• Birch plywood.</li> <li>• Face veneer qualities S, BB, WG.</li> <li>• S-quality allows colour variations.</li> <li>• Excellent strength/weight ratio and smooth hard surface.</li> </ul>	<p>Where high strength is required:</p> <ul style="list-style-type: none"> <li>• construction</li> <li>• vehicle floors</li> <li>• furniture</li> <li>• joinery</li> </ul>	<ul style="list-style-type: none"> <li>• Standard nominal thicknesses</li> <li>• Standard panel sizes</li> <li>• Scarf-jointed maxi sizes up to 12 500 x 2 750 mm</li> </ul>
<b>WISA-Twin</b>	 <ul style="list-style-type: none"> <li>• Birch faced spruce plywood.</li> <li>• Face veneer quality BB/WG.</li> <li>• Fully sanded long grain birch face veneers.</li> </ul>	<p>Building, construction, furniture and joinery industries.</p>	<ul style="list-style-type: none"> <li>• Nominal thicknesses 5–24 mm</li> <li>• Panel sizes 2 500 x 1 250 mm 2 440 x 1 220 mm</li> </ul>
<b>WISA-Spruce</b>	 <ul style="list-style-type: none"> <li>• Spruce plywood.</li> <li>• Face veneer qualities II and III.</li> <li>• Panel surfaces fully sanded.</li> </ul>	<p>Lightweight and economical multi-purpose plywood for structural uses or packaging and joinery where the light weight of spruce is an advantage.</p>	<ul style="list-style-type: none"> <li>• Standard nominal thicknesses</li> <li>• Standard panel sizes</li> <li>• Panel sizes 2 400–2 500 x 1 200–1 250 mm</li> </ul>
<b>WISA-Roof</b>	 <ul style="list-style-type: none"> <li>• Spruce plywood with strength oriented veneer structure.</li> <li>• Surface grade III unsanded to give better grip. Sanded on request.</li> <li>• Tongue and groove on long edges.</li> <li>• Yellow anti-mould agent is applied on both surfaces.</li> </ul>	<p>Roofing substructures.</p>	<ul style="list-style-type: none"> <li>• Nominal thicknesses 16, 18, 20 mm</li> <li>• Panel sizes 2 700/2 400 x 1 200/600 mm</li> </ul>
<b>WISA-Paintply</b>	 <ul style="list-style-type: none"> <li>• Spruce plywood, coated with paint base overlay. Reverse coated with dark brown phenolic film or paint base overlay.</li> </ul>	<p>WISA-Paintply is developed to provide a good base for painted applications and the type of paint used should be determined by the end use. Unpainted WISA-Paintply surface should not be left outside without protection.</p>	<ul style="list-style-type: none"> <li>• Standard nominal thicknesses 12–24 mm</li> <li>• Panel sizes 2 440 x 1 220/2 500 x 1 250 mm 1 500 x 3 000/1 525 x 3 050 mm</li> </ul>
<b>WISA-Decor WISA-Panel</b>	 <ul style="list-style-type: none"> <li>• Grooved, ready-to-install decorative spruce plywood with a half-lap joint on the edges.</li> <li>• Face: grade II.</li> <li>• Reverse: grade III.</li> <li>• WISA-Decor grooving profile is W-shaped.</li> <li>• WISA-Panel grooving profile is U-shaped.</li> </ul>	<p>Lining and panelling interior walls and ceilings. Backs for solid softwood furniture.</p>	<ul style="list-style-type: none"> <li>• Nominal thicknesses WISA-Decor 7.5, 10 and 12 mm WISA-Panel 10 and 12 mm</li> <li>• Panel sizes 2 500/2 440/2 400 x 1 210/610 mm</li> </ul>

# TRANSPORT PLYWOODS



	DESCRIPTION/OUTLOOK	MAIN END USE AREA	THICKNESSES AND PANEL SIZES
WISA-Multiwall	 <ul style="list-style-type: none"> <li>Birch plywood overlaid with a polypropylene coating.</li> <li>Standard colours: white (RAL 9010) and grey (RAL 7001).</li> <li>Other colours available with certain minimum order size.</li> </ul>	<ul style="list-style-type: none"> <li>Horse trailers</li> <li>Van linings</li> <li>Shop fittings</li> <li>Interior linings</li> </ul>	<ul style="list-style-type: none"> <li>Standard nominal thicknesses</li> <li>Standard panel sizes</li> </ul>
WISA-Multifloor	 <ul style="list-style-type: none"> <li>Birch plywood overlaid with grey thermoplastic coating with ripple pattern.</li> <li>Reverse side coated with moisture barrier.</li> </ul>	Good looking UV- resistant flooring material for e.g. light commercial vehicles and small car trailers and stages.	<ul style="list-style-type: none"> <li>Standard nominal thicknesses</li> <li>Standard panel sizes</li> </ul>
WISA-Phon N	 <ul style="list-style-type: none"> <li>Birch plywood with improved sound insulation properties.</li> <li>Face quality BB.</li> <li>Coated version available on request.</li> </ul>	Buses, trains and where sound-absorbing properties are needed.	<ul style="list-style-type: none"> <li>Nominal thicknesses 16 and 21 mm</li> <li>Standard panel sizes</li> </ul>
WISA-Wire	 <ul style="list-style-type: none"> <li>Birch plywood overlaid with a phenolic film imprinted with a wire mesh pattern. Smooth or wire mesh pattern reverse.</li> <li>Standard colour dark brown.</li> </ul>	Various flooring applications in transport and building industry.	<ul style="list-style-type: none"> <li>Standard nominal thicknesses 9–35 mm</li> <li>Standard panel sizes</li> </ul>
WISA-Hexa Grip	 <ul style="list-style-type: none"> <li>Birch plywood overlaid with a phenolic film imprinted with a hexagonal pattern. Reverse side has smooth phenolic moisture barrier with imprinted text "WISA Special Plywoods".</li> <li>Standard colours dark brown and grey.</li> </ul>	Various flooring applications in transport and building industry.	<ul style="list-style-type: none"> <li>Standard nominal thicknesses 9–30 mm</li> <li>Standard panel sizes</li> </ul>
WISA-Trans	 <ul style="list-style-type: none"> <li>Birch plywood overlaid with a multilayer laminate imprinted with a special pattern.</li> <li>Reverse side smooth phenolic moisture barrier with imprinted text.</li> <li>Standard colour dark brown.</li> </ul>	Hard-wearing flooring in the vehicle industry, e.g. trucks and trailers.	<ul style="list-style-type: none"> <li>Nominal thicknesses 18–35 mm</li> <li>Standard panel sizes</li> </ul>



# FORMWORK PLYWOODS



	DESCRIPTION/OUTLOOK	MAIN END USE AREA	THICKNESSES AND PANEL SIZES
WISA-Form Spruce	 <ul style="list-style-type: none"> <li>• Spruce plywood, coated both sides with smooth phenolic film with imprinted text "WISA-Form Spruce".</li> <li>• Edges sealed with paint to prevent moisture penetration.</li> </ul>	Horizontal castings with lower visual demands.	<ul style="list-style-type: none"> <li>• Standard nominal thicknesses 12–21 mm</li> <li>• Standard panel sizes</li> </ul>
WISA-Form Beto	 <ul style="list-style-type: none"> <li>• Birch faced plywood, with mixed spruce and birch core veneers, coated both sides with smooth phenolic film with imprinted text "WISA-Form Beto".</li> <li>• Edges sealed with paint to prevent moisture penetration.</li> </ul>	<ul style="list-style-type: none"> <li>• Mainly horizontal castings.</li> <li>• Special attention needs to be paid to support design if used in vertical castings.</li> </ul>	<ul style="list-style-type: none"> <li>• Nominal thicknesses 15, 18 and 21 mm</li> <li>• Panel sizes 1 220/1 250 x 2 440/2 500 mm</li> </ul>
WISA-Form Slab	 <ul style="list-style-type: none"> <li>• Spruce plywood coated both sides with phenolic film combination with imprinted text "WISA-Form Slab".</li> <li>• Edges sealed with paint to prevent moisture penetration.</li> </ul>	Horizontal castings.	<ul style="list-style-type: none"> <li>• Standard nominal thicknesses 15–21 mm</li> <li>• Panel sizes 2 400–2 500 x 1 200–1 250 mm</li> </ul>
WISA-Form MDO	 <ul style="list-style-type: none"> <li>• Spruce plywood coated one side with a Medium Density Overlay (MDO), and reverse side with smooth phenolic film – as a balancer only.</li> <li>• Edges sealed with paint to prevent moisture penetration.</li> </ul>	<ul style="list-style-type: none"> <li>• Mainly horizontal castings.</li> <li>• Special attention needs to be paid to support design if used in vertical castings.</li> </ul>	<ul style="list-style-type: none"> <li>• Standard nominal thicknesses 18 and 21 mm</li> <li>• Panel sizes 2 400–2 500 x 1 200–1 250 mm</li> </ul>
WISA-Form Birch	 <ul style="list-style-type: none"> <li>• Birch plywood, coated both sides with smooth phenolic film. Different coating weights available on request.</li> <li>• Edges sealed with paint to prevent moisture penetration.</li> </ul>	Universal concrete forming panel suitable for various type of castings.	<ul style="list-style-type: none"> <li>• Standard nominal thicknesses</li> <li>• Standard panel sizes</li> <li>• Scarf-jointed maxi sizes up to 12 400 x 2 700 mm, in thicknesses from 9–24 mm.</li> </ul>
WISA-Form Elephant	 <ul style="list-style-type: none"> <li>• Birch plywood coated with a special light grey WPC overlay.</li> <li>• Reverse side with dark brown phenolic film or optionally with WPC overlay both sides.</li> <li>• Edges sealed with paint to prevent moisture penetration.</li> </ul>	Wear resistant solution for formwork systems.	<ul style="list-style-type: none"> <li>• Standard nominal thicknesses 18–21 mm</li> <li>• Standard panel sizes</li> <li>• Max. panel size 1 525 x 3 660 mm</li> </ul>
WISA-Form Pro	 <ul style="list-style-type: none"> <li>• Birch plywood coated with grey composite coating.</li> <li>• Reverse side coated with phenolic film.</li> <li>• Edges sealed with paint to prevent moisture penetration.</li> </ul>	Universal high quality concrete forming panel for visually demanding applications.	<ul style="list-style-type: none"> <li>• Standard nominal thicknesses 15–21 mm</li> <li>• Standard panel sizes</li> </ul>

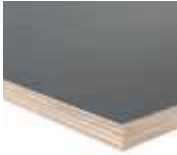
## OTHER APPLICATIONS

### DESCRIPTION/OUTLOOK

### MAIN END USE AREA

### THICKNESSES AND PANEL SIZES

#### WISA-PremiumCut Grey



- Birch plywood with grey UV lacquer on both sides. Clear lacquer available according to separate agreement.
- Face veneer qualities S and BB.
- White glueline, EN 314-2/class 1.
- Also available without lacquering = WISA-PremiumCut.

- WISA-PremiumCut Grey is a high performance panel specifically designed to meet the demanding needs of the flat die-cutting industry. The excellent strength properties of the panel enable die tools to be manufactured very accurately.

- Standard nominal thicknesses 9–21 mm
- Panel sizes
  - 1 220 x 1 220/2 440 mm
  - 1 250 x 2 500/3 000 mm
  - 1 500 x 1 100/2 150/2 500/3 000 mm
  - 1 525 x 1 525/3 050 mm

#### WISA-PremiumCut

#### WISA-EasyCut



- Birch faced plywood with spruce core.
- Face veneer qualities WGE/WGE.
- White glueline, EN 314-2/class 1.
- Also available with lacquering = WISA-EasyCut Clear.

- Die cutting industry. WISA-EasyCut is designed for flat die cutting of the short production series of large sized boxes. It is recommended to have only a small amount of box frame multiples per one die-tool.

- Standard nominal thicknesses 12 mm, 15 mm and 18 mm
- Panel sizes
  - 1 220 x 2 440 mm
  - 1 250 x 2 500 mm

#### WISA-EasyCut Clear

#### WISA-SP



- Birch plywood, coated with paint base overlay.
- Reverse coated with dark brown phenolic film or paint base overlay.

- WISA-SP is developed to provide a good base for painted applications and the type of paint used should be determined by the end use.
- Unpainted WISA-SP surface should not be left outside without protection.

- Standard nominal thicknesses 6.5–30 mm
- Standard panel sizes
- Scarf-jointed maxi sizes up to 12 300 x 2 700 mm, in thicknesses from 9–27 mm.



### STANDARD NOMINAL THICKNESSES

6.5, 9, 12, 15, 18, 21, 24, 27, 30 mm. Other thicknesses on request. Please see the Handbook of Finnish Plywood for actual thicknesses and tolerances.

### STANDARD PANEL SIZES

1 200/1 220/1 250/1 500/1 525x2 400/2 440/2 500/3 000/3 050 mm. Other sizes available on request. The first dimension stated indicates the dimension running parallel with the face grain.

### FACE VENEER GRADES

Standard Finnish plywood is classified according to the grades of its face veneers which comply with the standard EN 635 parts 1, 2 and 3. Surface grades do not have any significant effect upon the structural performance of a panel.

### BONDING

WISA plywoods are bonded with weather resistant phenolic resin adhesive and meet the requirements of the following standard: EN 314-2: Class 3, exterior, unless otherwise mentioned.

### CE MARKING

WISA plywoods are CE marked and comply with the standard EN 13986.

### MACHININGS

WISA plywoods can be edge and/or CNC machined.

### APPROXIMATE PLYWOOD DENSITIES

WISA-Birch 680 kg/m<sup>3</sup>

WISA-Spruce 460 kg/m<sup>3</sup>

More detailed information available on [www.wisaplywood.com](http://www.wisaplywood.com)

RECOMMENDED USAGE	UNCOATED										COATED SMOOTH										COATED PATTERNED				
	WISA-Birch	WISA-Twin	WISA-Spruce	WISA-Roof	WISA-Decor	WISA-Panel	WISA-Phon N	WISA-PremiumCut	WISA-PremiumCut Grey	WISA-EasyCut	WISA-EasyCut Clear	WISA-Form Spruce	WISA-Form Birch	WISA-Form Belo	WISA-Form Slab	WISA-Form MDO	WISA-Form Elephant	WISA-Form Pro	WISA-Painiply	WISA-SP	WISA-Multiwall	WISA-Multifloor	WISA-Wire	WISA-Hexa Grip	WISA-Trans
<b>TRANSPORTATION</b>																									
Passenger cars	●		●																						
Small trailers																					●		●	●	
Delivery vans	●																				●	●	●	●	
Buses	●		●						●															●	
Trucks and Trailers	●		●																		●		●	●	●
Trains									●														●	●	●
<b>CONSTRUCTION</b>																									
Fitting and supporting structures	●		●																						
Roofing	●	●	●	●																					
Flooring	●	●	●																						
Interior lining panels					●	●												●	●						
Exterior cladding																		●	●						
Scaffoldings																							●	●	
<b>FORMWORK</b>																									
Wall formwork												●			●	●	●								
Slab formwork											●	●	●	●	●		●								
Frame formwork systems												●				●	●								
Girder formwork systems												●				●	●								
Special formwork											●	●	●	●	●	●	●								
<b>FURNITURE</b>																									
Upholstered furniture	●	●	●																						
Veneering and laminating industry	●																								
Plywood furniture	●																								
<b>OTHER APPLICATIONS</b>																									
Joinery	●	●																							
Signs and fences																				●					
Noise barriers and hoarding panels																		●	●						
Die cutting of short series										●															
Die cutting of long series								●																	
Special floor and platform structures	●																					●	●	●	●



## UPM – The Biofore Company

UPM leads the integration of bio and forest industries into a new, sustainable and innovation-driven future.



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