Timber Ltd
Part of PT Group Ltd

Superplex™ Plywood

Eco Friendly - GPF
PEFC Controlled
Source Certified

Rubberwood aka "Malaysian Oak".

An Optimal base for different overlaying Methods

Designed and tailor-made to serve in demanding applications, Superplex plywood can be ordered with special oriented veneer structures to provide even higher strength and stiffness properties.

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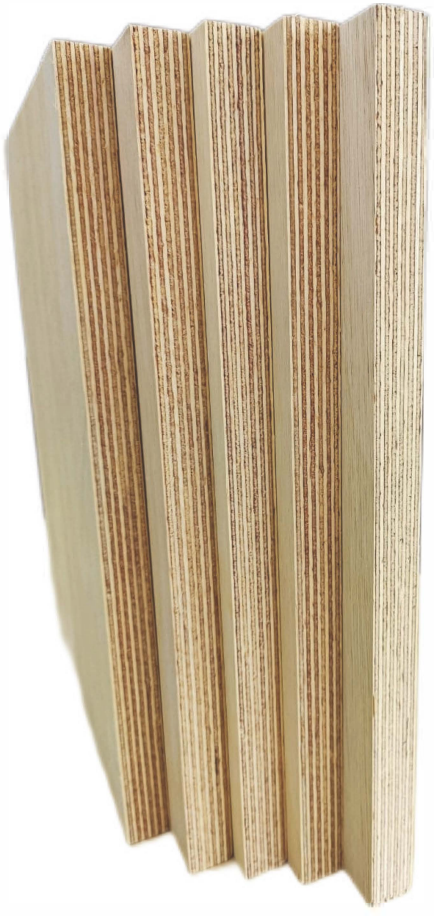
Superplex™ Plywood Series

SP Natural

Plywood is produced from rubberwood, which is used extensively in the furniture industry, and also for exterior application. Rubberwood, which is renowned for its density and hardness, offers a great level of strength as well as attractive grain contrast and patterns. Its comparatively lower cost makes rubberwood a popular hardwood of choice for affordable flooring and furniture.



+ Application

Furniture, cabinets, lamination, building applications, exterior application and other general usages.

Major Advantages

-Strong and rigid
-Dimensionally stable
-Excellent strength-to-weight ratio
-Water- and boil-proof bonding
-Environmentally friendly - Green PF
-PEFC Controlled Source Certified

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Superplex™ Plywood Series

SP Natural

Bonding Classes

SP Natural 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).

Panel Strength Properties

SP Natural plywood is a CE marked product. The strength and elasticity properties are specified according to standards EN 789 and EN 1058

Machining

SP Natural plywood can be machined according to customer specification on request.

Formaldehyde Emissions

SE0

Panel Size

1220mm x 2440mm

Surfaces Properties: Both sides of plywood panels have been sanded to provide a smooth, sturdy surface.

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Superplex™ Plywood Series

SP Natural

Product Grade:

- B/BB
- BB/BB
- BB/CP

Size Tolerances

Measured in accordance with standard EN324, the plywood size and squareness tolerances meet EN 315 requirements.

LENGTH/WIDTH	TOLERANCE
<1,000 mm	±1mm
1,000-2,000mm	±2mm
>2,000 mm	±3mm
Squareness	±0.1% or ± 1mm/m
Edge Straightness	±0.1% or ± 1mm/m

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Superplex™ Plywood Series

SP Natural

Thickness, Structures and Thickness Tolerances of the Panels

Length/Width	Number of Plies	Thickness	Tolerance
(mm)	(pcs)	Min.(mm)	Max.(mm)
9	7	8.8	9.5
12	9	11.5	12.5
15	11	14.3	15.3
18	13	17.1	18.1

**Moisture content of the product affects its dimensions.
**Average density of SP Natural Plywood is 690-775 kg/m3 air dry.
**Customize tolerances are possible but must be agreed separately.
**Special Structures and thickness are available on request.

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Superplex™ Plywood Series

SP FORM

SP Form plywood is rubberwood Plywood, in which both sides are overlaid with phenolic film and the edges are sealed. It is an ideal formwork panel for smooth surfaced concrete elements.

Major Advantages

-Strong and rigid
-Dimensionally stable
-Withstands impacts
-Easy clean and re-use
-Excellent strength-to-weight ratio
-Weather- and boil-proof bonding
-Environmentally friendly - Green PF
-PEFC Controlled Source Certified

+ Application

Concrete Formwork
Transport Industry
Building Applications and others

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Superplex™ Plywood Series

SP FORM

Bonding Classes

SP Form 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).

Panel Strength Properties

SP Form plywood is a CE marked product. The strength and elasticity properties are specified according to standards EN 789 and EN 1058

Machining

SP Form plywood can be machined according to customer specification on request.

Formaldehyde Emissions

SE0

Panel Size

1220mm x 2440mm
1250mm x 2500mm

Surface Properties: F/B (Smooth / Smooth)
Both sides are covered with a smooth film. The film surface is semi-glossy and smooth. It is easy to clean with water or steam.

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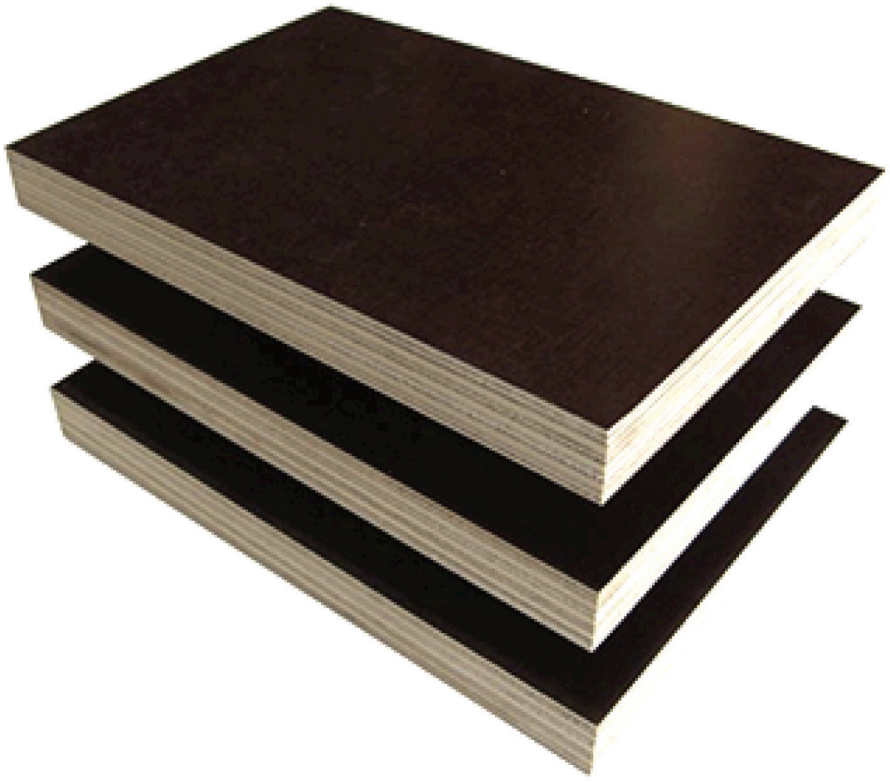
Superplex™ Plywood Series

SP FORM



Product Grade:
-G2S

Size Tolerances

Measured in accordance with standard EN324, the plywood size and squareness tolerances meet EN 315 requirements.

LENGTH/WIDTH	TOLERANCE
<1,000 mm	±1mm
1,000-2,000mm	±2mm
>2,000 mm	±3mm
Squareness	±0.1% or ± 1mm/m
Edge Straightness	±0.1% or ± 1mm/m

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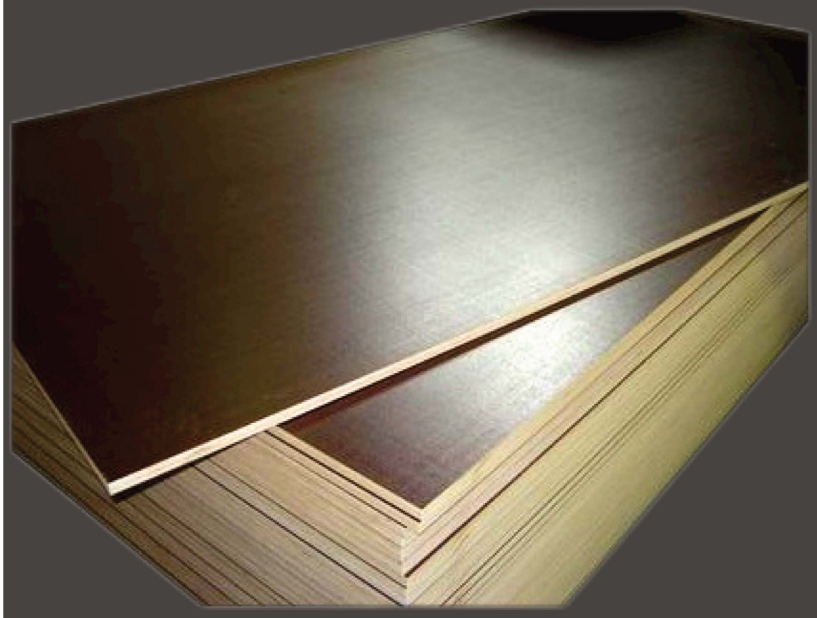
Superplex™ Plywood Series

SP FORM



The durable overlay ensure smooth concrete cast finish and multiple use. The number of uses can rise up to 30-100 times and it is highly dependent on the site practice , requirements of concrete finish, used overlay, handling and storage practices.

Thickness, Structures and Thickness Tolerances of the Panels

Length/Width	Number of Plies	Thickness	Tolerance
(mm)	(pcs)	Min.(mm)	Max.(mm)
15	11	13.7	15.3
18	13	16.5	18.1
21	15	19.4	20.9

**Moisture content of the product affects its dimensions.
**Average density of SP Natural Plywood is 690-775 kg/m3 air dry.
**Customised tolerances are possible but must be agreed separately. **Special Structures and thickness are available on request.

Comparison Between Rubberwood and Birch

Type of plywood / Characteristics	Rubberwood Plywood	Birch Plywood
Appearance	More texture, has a nice deep dark colour	Less texture and lighter in colour
Type	Hardwood	Hardwood
Durability	Quite durable	Quite durable
Wood colour	Medium brown	Light reddish-brown
Workability	Excellent workability	Easy to work
Resistance to the elements	Resistant to burning and eco-friendly	Less resistant to fire
Availability	Easily available	Abundantly available
Rot Resistant	Low natural rot-resistant properties	Does not have rot-resistant properties
Allergies/Toxicity	Not harmful	Skin and respiratory irritation

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Greener Phenol Formaldehyde

GPF

Good runnability;
High resin reactivity

- FSC* Certified Forests
- Non-toxic and non-hazardous
- Lower Carbon Footprint
- Meets Stringent Emission Standards

Stable Glue mix,
workable up to many hours

Comprising of sustainable, non-fossil and renewable material .i.e. Lignin, as it replaces about 50% of Phenol by weight ratio.

Potential application extends beyond plywood to OSB, particleboard, laminated veneer lumber, high pressure laminates & surface films.

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Technical Data Sheet
(Performance Characteristic)
Rubberwood VS Medium Light Hardwood

Plywood Type :			18 mm Rubberwood Plywood		18 mm BB/CC Plywood	
Species			Rubberwood		Medium Light Hardwood	
Panel Size			1220mm x 2440mm			
No. of Plies			13		7	
Bonding / Adhesive			Water Boil Proof (WBP) /Phenol Formaldehyde			
Property		**Test Method**	**Value of Test**			
Moisture Content		EN 322	12.0 %		9.2 %	
Density		EN 323	767 kg/m3		689 kg/m3	
Modulus of Rupture (MOR)	Parallel	EN 310	39.9 N/mm²		25.2 N/mm²	
	Perpendicular		45.4 N/mm²		47.9 N/mm²	
Modulus of Elasticity (MOE)	Parallel		3601 N/mm²		2269 N/mm²	
	Perpendicular		4644 N/mm²		5162 N/mm²	
Class Grade			F30/25 E40/30		F15/30 E20/50	
Bonding Quality (Shear Strength)		EN 314 -1	100%	Requirement ≥ 90%	100%	Requirement ≥ 90%
		EN 314 -2				

This performance characteristic is according to the standard BS13986:2004 + A1:2015 & JIS A 1460:2015.
All figures shown in the report revealed the physical properties of sample plywood, not necessarily the actual plywood you received

Date : 28/7/2022

Prepared by:
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