

Plywood

Western Australia offer only

trade essentials®





This versatile range of plywood is ideal for a host of applications from cabinetry, furniture, and walls to ceilings, joinery, and eaves lining. You'll also find products that are suitable for when weight is a consideration. You can even leave some of the range semi-exposed or utilise the featured edge as a deliberate design feature in residential and commercial settings. In fact, whatever you need, you're sure to find a solution within this outstanding range. So for projects that demand durability and versatility, take a load off your mind with Plywood.

All exposed plywood must be surface finished to prevent mechanical surface breakdown (known as checking or crazing) caused by the absorption and desorption of moisture through the surface veneer. In addition, all plywood used in externally exposed conditions must be type A bonded and preservative treated to ensure long term durability and performance.

Plywood products, being comprised of natural timbers will vary slightly in grain and will react to direct and indirect light, therefore a change of the surface colour and appearance over time is a natural characteristic, not a defect. Additionally, heat and humidity will interact with light to accelerate the ageing process. If exposed to direct and strong light, plywood products may undergo sudden and irregular changes from the original colour. As little as an hour of exposure to sunlight may change the colour of plywood.



CD Structural Plywood (F8)

Trade Essentials CD structural plywood is a versatile FSC and/or PEFC certified structural plywood panel made from 100% renewable softwood plantation pine. It is manufactured to the AS/NZS 2269 plywood structural standard. CD structural plywood can be used in many applications where aesthetic appearance is not critical. The C grade face may have sound knots and putty filled holes and splits as well as some wood patches. The D grade back will have unfilled or open defects.

Density

Approximately 550 kg/m³ in Radiata pine
Approximately 580 kg/m³ in Taeda and Slash pine

Tolerances

±5% in thicknesses up to 7.5mm
±4% in thicknesses over 7.5mm up to 17.5mm
±3% in thicknesses above 17.5mm
±1.5mm in length and width
±0.05% on straightness on the length of that edge
5mm in squareness on a 2400 panel and 6mm on a 2700 panel

Grade and bond

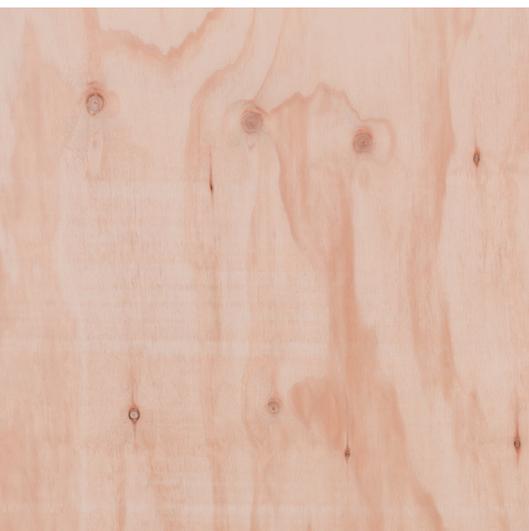
CD grade with a sanded face and unsanded back
A bond E0 glueline

Applications

- ▶ Domestic and commercial building construction
- ▶ Cabinets and kickboards
- ▶ Furniture and shelving
- ▶ Hoardings and barricades
- ▶ Pallets, bins, crates and tool boxes
- ▶ Display and stage settings
- ▶ Cubby houses and dog kennels

| Thickness (mm) | Length x Width (mm) | Pack Size | ASW Code |
|----------------|---------------------|------------|-----------------------|
| 7 | 2400 x 1200 | 128/68/140 | 963851/ 979133/969782 |
| 9 | 2400 x 1200 | 100/108 | 963853/979134/969783 |
| 12 | 2400 x 1200 | 75/80 | 963854/979135/969784 |
| 15 | 2400 x 1200 | 60/65 | 963855/979136/969785 |
| 17 | 2400 x 1200 | 50 | 963856 |
| 18 | 2400 x 1200 | 54 | 969786/979138 |
| 19 | 2400 x 1200 | 40 | 963857 |
| 21 | 2400 x 1200 | 36/22 | 963859/969787 |
| 25 | 2400 x 1200 | 36/19 | 963862/979141/969788 |

Note: Sheet sizes of 2700 x 1200 are also available but are not stocked and subject to lead times and minimum order quantities. Please check for availability. F11 and F14 grades may also be available - premium may apply.



CD Non-Structural Plywood

This grade has essentially the same properties as the CD structural grade plywood but has no "f" strength rating and cannot be used in structural or load bearing applications. It is not manufactured to the AS/NZS 2269 plywood structural standard hence when in doubt always use structural grade to avoid any risk of failure. CD non-structural plywood provides an economical solution where non structural plywood is required. For a better grade check for BC grade availability. BC grade is made to an overseas standard. The B face allows more putty fill and patches. The C face allows for some minor open defects.

Density

Approximately 550 kg/m³ in Radiata pine
Approximately 580 kg/m³ in Taeda and Slash pine

Tolerances

±5% in thicknesses up to 7.5mm
±4% in thicknesses over 7.5mm up to 17.5mm
±3% in thicknesses above 17.5mm
±1.5mm in length and width
±0.05% on straightness on the length of that edge
5mm in squareness on a 2400 panel and 6mm on a 2700 panel

Grade and bond

CD Grade with a sanded face and unsanded back
A-Bond glueline.

Applications

- ▶ Cabinets and kickboards
- ▶ Furniture
- ▶ Tool boxes
- ▶ Dog kennels
- ▶ Non-structural applications
- ▶ Hoardings

| Thickness (mm) | Length x Width (mm) | Pack Size | ASW Code |
|----------------|---------------------|-----------|----------------------|
| 7 | 2400 x 1200 | 128/140 | 962802/979124/969773 |
| 9 | 2400 x 1200 | 100/108 | 962803/979125/969774 |
| 12 | 2400 x 1200 | 75/80 | 962804/979126/969775 |
| 15 | 2400 x 1200 | 60/65 | 962805/979127/969776 |
| 17 | 2400 x 1200 | 50 | 963849 |
| 18 | 2400 x 1200 | 54 | 969777/979129 |
| 19 | 2400 x 1200 | 40 | 963850 |
| 25 | 2400 x 1200 | 36/39 | 962807/979132/969779 |

Note: Thickness of 18mm is subject to availability.



CD Structural Tongue & Groove Plywood Flooring

Structural grade plywood flooring is FSC and/or PEFC certified and is made from renewable plantation pine timber. It is manufactured to the AS/NZS 2269 plywood structural standard, and has an F11 stress grade. Plywood flooring provides a solution to most flooring applications particularly where concentrated loads are required, such as in commercial or large public building applications.

Density

Approximately 500 to 580 kg/m³

Tolerances

±1.5mm in length and width
 ±5% on thicknesses up to 7.5mm
 ±4% on thicknesses over 7.5mm up to 17.5mm
 ±3% on thicknesses above 17.5mm
 ±0.05% on straightness on the length of that edge
 5mm in squareness on a 2400 panel and 6mm on a 2700 panel

Grade and bond

CD grade with sanded C face and unsanded back
 A bond E0 glueline.

Applications

- ▶ Commercial offices and assembly areas
- ▶ Medical clinics and hospitals
- ▶ Transportable homes
- ▶ Can be nailed to within 10mm of edges
- ▶ Stages as well as commercial and domestic flooring

| Thickness (mm) | Length x Width (mm) | Pack Size | ASW Code |
|----------------|---------------------|-----------|----------|
| 15 | 2400 x 1200 | 60 | 963863 |
| 17 | 2400 x 1200 | 32/50 | 963867 |
| 19 | 2400 x 1200 | 28/40 | 963872 |
| 21 | 2400 x 1200 | 36 | 963874 |
| 25 | 2400 x 1200 | 36 | 963877 |

Formply (F14 & F17)

This plywood is made from mixed hardwood and or softwood species and has a phenolic dark coloured film impregnated on both faces to prevent concrete sticking to the plywood. The protective phenolic film (40/120) has a satin to shiny finish and also provides some water protection making washing down and reusing an option. Formply is manufactured to AS/NZS 6669 standard. In a concrete pour application, it will provide a class 3 finish to the AS/NZS 3610 standard, which is the standard off form finish required for carparks and general building work.

Density

Approximately 680 kg/m³

Tolerances

±3% on thicknesses
 ±3mm in diagonals or squareness
 ±1.0mm in length and width
 ±0.05% on straightness on the length of that edge

Grade and bond

B/B grade face
 A bond glueline

Applications

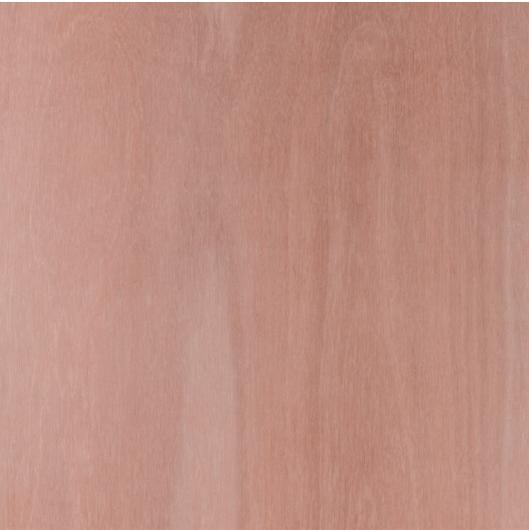
- ▶ Concrete formwork
- ▶ Base of trailers
- ▶ Horse floats and dog kennels
- ▶ Barns and stables
- ▶ Basketball backing boards
- ▶ General home maintenance

| Thickness (mm) | Length x Width (mm) | Pack Size | ASW Code |
|--------------------------|---------------------|-----------|----------|
| 17 | 2400 x 1200 | 22 | 977748 |
| 17 (F17) | 2400 x 1200 | 50/48 | 965926 |
| Non-structural Film Face | | | |
| 17 | 2440 x 1220 | 53 | 963612 |
| 17 (F17) | 1800 x 1200 | 48 | 969882 |

Non-Structural Film Face

This plywood is made in the same way as formply however it is not manufactured to any standard, so should be used for non-structural applications only. The face grade is C/C,

covered with a phenolic film and can be made from softwood or mixed hardwood species (or a combination of both). The bond is a WBP and/or MUF glue line.



Marine Plywood (Mixed Hardwood Species)

This marine plywood is manufactured to the British standard BS 1088, and is made from sustainable mixed hardwood species. Marine species are not naturally durable therefore preservative treatments are required if used in a marine or external environment. Marine plywood is suitable in high impact applications and where high quality faces are required. Several species are used and colour matching may be difficult. Colour will vary from very light pink to dark red.

Density

Approximately 580 kg/m³

Tolerances

±0.6mm in thicknesses up to 18mm
 ±1mm per metre on squareness
 ±3.5mm in length and width
 ±1mm per metre on straightness

Grade and bond

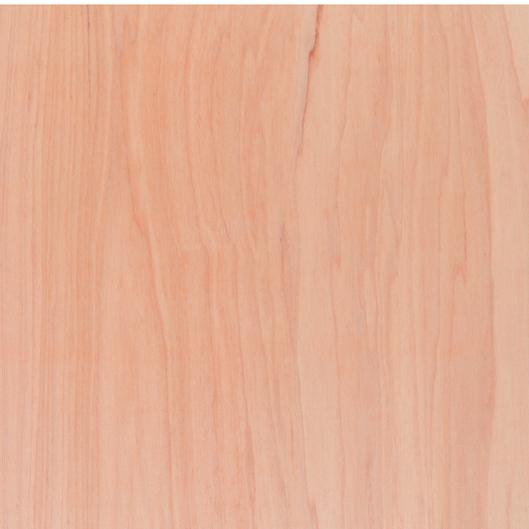
A/A face grade, with minimal core voids
 A bond EI glueline

Applications

- ▶ External and marina applications, provided it has been preservative treated.
- ▶ Boat hulls and internal boat fit outs
- ▶ Pontoons
- ▶ Motor homes
- ▶ Ultra-light aircraft and models

| Thickness (mm) | Length x Width (mm) | Pack Size | ASW Code |
|----------------|---------------------|-----------|----------|
| 4 | 2440 x 1220 | 150 | 898792 |
| 6 | 2440 x 1220 | 150 | 898793 |
| 9 | 2440 x 1220 | 100 | 898794 |
| 12 | 2440 x 1220 | 75 | 898788 |
| 15 | 2440 x 1220 | 60 | 898789 |
| 18 | 2440 x 1220 | 50 | 898790 |
| 25 | 2440 x 1220 | 36 | 898791 |

Note: Please check for Austral Hoop Marine F17 availability.



Bending Plywood

Bending plywood is manufactured from mixed hardwood and pine species. It provides design flexibility with the option to create attractive curves in furniture as well as commercial and domestic structures. For high grade finishes it is recommended that bending plywood is veneered or covered before it is sealed or lacquered.

The bending radius for 5mm thick is 300mm. The bending radius for 8mm thick is 450mm.

Density

Approximately 480 to 560 kg/m³

Tolerances

±1.5mm in length and width
 ±7% on thickness
 ±5mm in diagonals

Grade and bond

B/C grade – mixed hardwood and pine
 A bond glueline

Applications

- ▶ Interior, non-structural curved feature walls
- ▶ Curved benches and tables
- ▶ Columns
- ▶ Decorative features and ceilings
- ▶ Most curved joinery work
- ▶ Furniture

| Thickness (mm) | Length x Width (mm) | Pack Size | ASW Code |
|----------------|---------------------|-----------|----------|
| 5 | 1220 x 2440 | 50 | 898767 |
| 5 | 2440 x 1220 | 50 | 898768 |
| 7 | 1220 x 2440 | 50 | 898769 |
| 7 | 2440 x 1220 | 50 | 898770 |

Note: 5mm has a 1.5mm hoop pine face and mixed hardwood back. 7mm is made from mixed hardwoods.



Birch Plywood

Birch plywood manufactured from white birch, has a warm, light coloured appearance and is suitable for both interior and semi exterior use. Birch plywood is manufactured to a European standard and has FSC certification. Birch plywood has a stylish finish and can be used for furniture, shopfitting and joinery solutions. Grading is not the same as Australian grading. It has a good aesthetic appearance but does have natural features showing.

Grade and bond

B/BB grade.

WBP (water boil proof) phenol formaldehyde glue with a E1 formaldehyde emission rating to European standard and EO to Australian standard.

The B grade has no patches but allows for minor features, such as pin knots, resin veins and minor putty fill. Knot clusters and swirly grain is also allowed.

The BB back allows for small knots and patches that are not grain or colour matched.

Density

Approximately 680 to 700 kg/m³

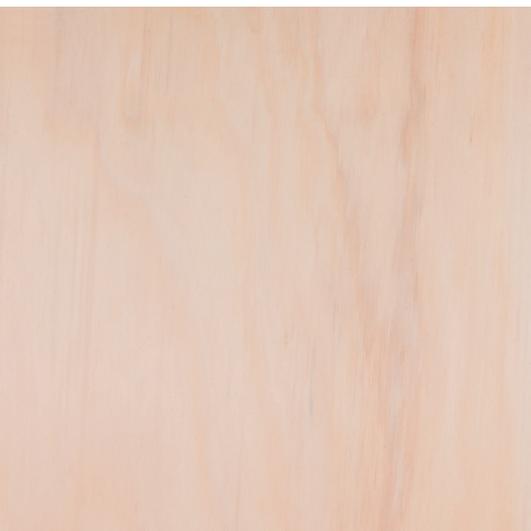
Tolerances

±0.2mm in thickness
±3mm in length and width
±6mm in squareness

Applications

- ▶ Decorative Panels Furniture
- ▶ Cabinets and joinery
- ▶ Table tops
- ▶ Drawer sides
- ▶ Toys and general maintenance work

| Thickness (mm) | Length x Width (mm) | Pack Size | B/BB ASW Code |
|----------------|---------------------|-----------|---------------|
| 4 | 2440 x 1220 | 100 | 965431 |
| 6.5 | 2440 x 1220 | 60 | 965432 |
| 9 | 2440 x 1220 | 44 | 965433 |
| 12 | 2440 x 1220 | 33 | 965434 |
| 15 | 2440 x 1220 | 26 | 965435 |
| 18 | 2440 x 1220 | 22 | 965436 |
| 24 | 2440 x 1220 | 16 | 965438 |



AC Hoop Interior and Exterior Plywood

AC hoop plywood is made from hoop pine veneers and manufactured to the AS/NZS 2270 standard for interior use with a C bond. AC grade hoop plywood is intended for use in an internal application (non - structural) where a high quality aesthetic appearance is required.

Density

Approximately 600 kg/m³

Tolerances

±7% in thicknesses up to 7.5mm
±4% in thicknesses 9mm to 17.5mm
±3% in thicknesses above 17.5mm
±1.5mm in length and width
±0.05% on straightness on the length of that edge
±5mm in squareness

Grade and bond

A grade face and C grade back.
C bond E0 urea formaldehyde glue.
C bond is white in colour, which eliminates glue bleed through and requires less press time resulting in a lighter and more natural appearance.

Applications

- ▶ Internal decorative wall panelling
- ▶ Feature and acoustic features panels
- ▶ Shopfitting
- ▶ Furniture and fitments
- ▶ Ceiling linings
- ▶ Interior door skins

| Thickness (mm) | Length x Width (mm) | Pack Size | INT ASW Code | EXT ASW Code |
|----------------|---------------------|-----------|--------------|--------------|
| 1.5 | 2400 x 1200 | – | 959760 | 895766 |
| 4 | 2400 x 1200 | – | 964849 | 895785 |
| 6 | 2400 x 1200 | – | 896547 | 895792 |
| 9.5 | 2400 x 1200 | 60 | 896552 | 895800 |
| 12.5 | 2400 x 1200 | 45 | 896534 | 895769 |
| 16 | 2400 x 1200 | 35 | 933782 | 895775 |
| 19 | 2400 x 1200 | 28 | 798847 | 895779 |
| 25 | 2400 x 1200 | 20 | 882765 | 895780 |

Note: B/B grade hoop and marine grade hoop is also stocked. Please check for availability.



Hardwood Bracing Plywood (F14)

This plywood is made from mixed hardwood species from legal and sustainable resources and complies with the AS/NZS 2269 plywood – structural standard. It is manufactured in untreated or H2S treatment for termites. Panels may also be scarf jointed.

Tolerances

- ±5% in thickness
- ±0.2% in squareness
- ±1.5mm in length and width
- ±0.05% on straightness on the length of that edge

Grade and bond

C/D grade
A bond E0 glueline

Applications

- ▶ Bracing for domestic house frames
- ▶ Pallet and crate construction
- ▶ Versatile backing boards for cabinets
- ▶ Particularly useful in providing racking resistance against external forces such as wind

| Thickness (mm) | Length x Width (mm) | Pack Size | ASW Code | H2S ASW Code |
|----------------|---------------------|-----------|----------|--------------|
| 6 | 2440 x 1200 | 230 | | 934284 |

Note: Sheet sizes 3050x900mm and 3050x1200mm are available, however not always stocked. Please check for lead times. H25 treated also not always stocked.



Lauan Plywood BB/CC Interior & BB/CC Hardwood Exterior

Lauan plywood is an interior non-structural plywood made from mixed hardwood species (pink in colour). Lauan plywood is also known as Phillipine mahogany, the name lauan actually means “a mixture of woods” from the same area. Lauan plywood can be easily stained and painted, but should not be exposed to wet or damp conditions.

Tolerances

- ±7% on thicknesses
- ±5mm in diagonals or squareness
- ±1.5mm in length and width

Grade and bond

B/B grade face and C/C grade back
C bond glueline
Note: C/C grade back may have joints and patches

Applications

- ▶ General decorative and non-decorative applications
- ▶ Furniture and fitments
- ▶ Backing sheets
- ▶ Office cabinets
- ▶ Ceiling linings
- ▶ Toys and doll houses
- ▶ Light packaging

| Thickness (mm) | Length x Width (mm) | Pack Size | ASW Code |
|----------------|---------------------|-----------|----------|
| 3.6 | 2440 x 1220 | 200 | 896539 |

BB/CC Hardwood Exterior

Mixed hardwood species with a WBP exterior glueline

| Thickness (mm) | Length x Width (mm) | Pack Size | ASW Code |
|----------------|---------------------|-----------|----------|
| 9 | 2440 x 1220 | 100 | 898520 |
| 12 | 2440 x 1220 | 75 | 898509 |
| 15 | 2440 x 1220 | 60 | 954204 |
| 18 | 2440 x 1220 | 50 | 898512 |

Available in the Trade Essentials range:

Adhesives
Craftwood (MDF Products)
Fire Retardant Products
Lightweight PVC Panel Products
Particleboard Products
Plywood Products
Strandboard Products
Triboard Products
Ultra LDF Products
White Board and Edging Products

Plywood is part of the Trade Essentials® range of products

For more information visit tradeessentials.thelaminexgroup.com.au or call 132 136.

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