

Construction Range

Floorings Ply



Stability from the ground up

IPL NZ Flooring Ply

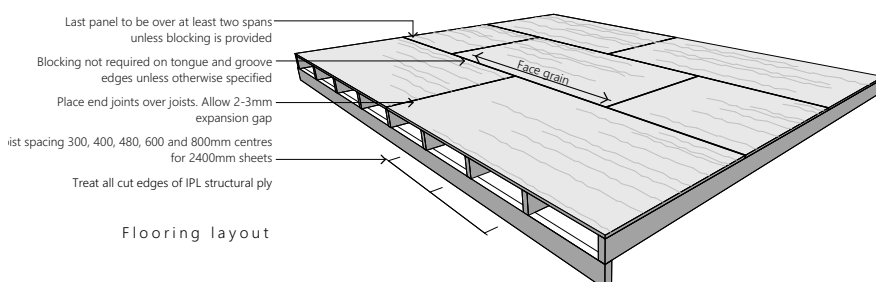
IPL NZ Flooring Ply is perfect for residential, commercial and industrial projects. Renowned for its strength, ease-of-use, and reliability: it won't let you down.

At a glance

- Manufactured to AS/NZ 2269 Construction Plywood.
- High strength-to-weight ratio makes it ideal in a range of applications where strength and stiffness are required.
- Available treated to H3.2 (CCA treated) and, on request, clear treated LOSP to H3.1 standard.
- Also available untreated to be used in areas where contact with moisture is not a consideration.
- Comes with plastic tongue & groove for easy interlocking.
- Available in 15, 17, 19, 21 and 25mm thicknesses.
- Flooring available with a C grade face and with a D grade back although can be manufactured on request with a clean (S grade) face which can be clear coated to take advantage of the natural pine face.
- Bonding of the plywood is made with Super E0 formaldehyde resin. The E0 level is less than 3 parts per million which is often less than the reading that occurs in natural surroundings.

Installation

- Sheets must be laid perpendicular (sheets laid lengthways across joists) to the floor joists.
- Sheets must be laid in brick pattern as per diagram to disperse load more evenly.
- T&G edges should not be forced up tight to allow for some expansion if moisture is taken up during construction. Square edge sheets and end joints on T&G sheets should be left with a 2mm gap to allow expansion. The total floor area should be left with at least a 5mm gap around the perimeter of the floor. This is to allow for any expansion that may take place if moisture is absorbed into sheets.
- Nail or screw at 150mm around perimeter of sheet and 300mm around through the intermediate. When fixing H3.2 (CCA treated) use a minimum of hot dip galvanised but preferably stainless steel 316. If using H3.2 (ACQ treated) use stainless steel 316. Use annular grooved or ring shanked nails for superior holding power
- To eliminate squeaking and to aid screw/nail holding use a continuous bead of construction adhesive on all joists, timber and steel.
- Use suitable thickness plywood flooring as per Flooring Span Table. If special loads are required, consult an engineer for subfloor design and thickness of plywood.
- IPL NZ Flooring Ply can be left exposed to the weather for up



to 3 months, but the surface will deteriorate gradually over a period of time with checking (fine splits) etc. The structural integrity of the sheets will remain even though exposed during construction.

- If floor is to be clear finished, care must be taken to protect the surface. If sanding is required, only a light sand is advisable as heavy sanding weakens the panel and could expose the glue line.

Compliance with Standards

IPL NZ Flooring Ply is manufactured in accordance with AS/NZ 2269 Construction Plywood. The panels are to be installed in accordance with the building design code.

In New Zealand, the maximum joist spacing for 19mm F8 structural plywood is typically 480mm. This spacing is recommended to ensure adequate support and to comply with NZS 3604:2011 standards for structural plywood applications. This spacing is suitable for applications such as flooring and decking where the plywood serves as a structural element.

For 19mm F11 Structural plywood in New Zealand, according to NZS 3604:2011, the maximum joist spacing is 600mm. This spacing is appropriate for structural applications such as flooring and decking, where the

higher stress grade of F11 plywood provides the necessary support for larger spans without compromising structural integrity.

For comprehensive details and to ensure compliance with all relevant standards, you can refer to the full text of NZS 3604:2011, which provides extensive guidelines on timber-framed building construction in New Zealand. You can access the standard through the Standards New Zealand website (Standards.govt.nz).

The Engineered Wood Products Association of Australasia (EWPPA or PAA) audits the production processes and internal quality control procedures to ensure

IPL Plywood meet the requirements of the product Standard. This third party audited, process based, quality assurance scheme meets the requirements of an ISO Type 5 system and ensures constant monitoring of maintaining production of quality.

Environmentally Sustainable

All veneer used in IPL NZ Flooring Ply is from renewable, plantation-grown Pinus Radiata New Zealand plantations.

Bonding

All IPL construction plywood is bonded with phenol formaldehyde resin (dark red in colour). This results in a permanent bond which after manufacture will not part. This is the same bonding material used in Marine type plywood.

Branding

Back of all sheets marked:

CD The back of all sheets marked with sheet face and grade

IPL Company name

A bond Bond type

F8 or F11 Stress grade

AS/NZ 2269 Structural Plywood Standard

914 Engineered Wood Products Association mill number

Construction code eg. 19mm 19-24-7

Flooring Span Table

		17mm F8	19mm F8	19mm F11	22mm F8	25mm F8	32mm F8
Domestic Homes	2kPa/1.8kN	480	480	600	600	800	1200
Domestic Garages	2.5kPa/9kN				400	480	800
Office	3kPa/2.7kN				600	800	1200
Retail Shops	4kPa/1.1kN				400	800	1200
Industrial	2.5kPa/1.8kN					600	800

Fixing Recommendations

Ply Thickness (mm)	Timber Frame		Steel Frame	
	Nails Length x thickness (mm)	Screws Gauge x length (mm)	Screws Steel Thickness <1.15mm	Screws Steel Thickness <2mm
15	50 x 2.8	8 x 40	10-24-40	10-16-40
17	60 x 2.8	8 x 50	10-16-42	10-16-42
19	60 x 2.8	8 x 50	10-16-42	10-16-42
21	60 x 2.8	10 x 50	10-16-42	10-16-42
25	75 x 3.15	10 x 50	10-16-42	10-16-42
32	100 x 4.0	10 x 75		

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Made for New Zealand