Construction Range

TuffPly™ Structural

IPL

Proven performance and strength

IPL TuffPly™ Structural

IPL TuffPly™ structural plywood is the safe and reliable option when it comes to providing bracing and structural support for timber framed buildings. It's built to withstand earthquakes, high winds, and anything else mother nature throws at your building.

At a glance

- Guaranteed quality via EWPAA Product Certification Scheme
- BRANZ P21 tested and Appraised
- Bonded with durable 'marine' A bond
- Easy and light to handle
- Simple installation (gun nail to within 7mm of edges)
- High strength and stiffness in relatively short panels
- Braces building frame during construction period
- Economical and environmentally friendly
- Super EO – less than 0.3mg/l AS/NZ Standard formaldehyde emissions

Branding

Back of all sheets marked:

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

IPL Name of Manufacturer

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

Structure

Framing that complies with NZS 3604:2011 will meet the requirements of the Building Code. Studs are at a maximum of 600mm centre - dwangs are not necessary for effective bracing but may be used.

TuffPly™ is structural plywood manufactured to AS/NZ 2269:2012, and is suitable for design of earthquake and wind bracing for timber framed buildings in accordance with design codes NZS 3603 and AS/NZ 1170. This has been confirmed by EWPAA testing.

Durability

As TuffPly™ is an integral part of the building structure, it must be durable in each application i.e. have at least 50 years durability rating. In interior dry applications (i.e. 18% moisture content or less) untreated IPL Structural Ply is acceptable for use.

However, in applications where TuffPly™ may be subject to wetting, dampness or condensation (basically where the moisture content may exceed 18% for prolonged periods), TuffPly™ must be preservative treated to at least H3.2 hazard rating and fixed with non-corrosive fasteners (i.e. stainless steel or silicone bronze).

Cut edges must be resealed with timber preservative. Soudal Metalex or similar.

Exposure during construction

TuffPly™ 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.

Installation, Sheet Fasteners and Connections

IPL TuffPly is to be installed and fixed as per the building design. As plywood dimensions can vary with changes in ambient humidity and wetting during construction, it is recommended to allow expansion gaps between adjacent panel edges of at least 2mm.

When used as a bracing element the minimum fastener requirement for 7mm IPL TuffPly™ is 50mmx 2.8mm dia hot dip galvanised flat head power driven or hand driven nails. In sea spray zone D, stainless steel annular groove or ringshank nails must be used. For bottom plate hold downs refer to GIB HandiBrac® installation instructions for correct installation and bolt types to be used for concrete and timber floors. Ground clearance must be as specified in NZBC Acceptable Solution E2/AS1.

BRANZ Appraised
Appraisal No. 1065 [2021]

Face Grade S

Veneer quality S is a premium appearance grade. This veneer showcases an attractive natural wood character, with only minor filled splits permitted, to ensure a consistent and high-quality finish. Suitable for applications where structural integrity and superior visual appearance are paramount. Fine sanded to P150.

Possible Uses:

- Interior wall and ceiling lining
- Soffit lining
- Suitable for clear and translucent finishes
- Decorative walls and panelling
- Furniture and joinery

Available thicknesses:
SS – 12/17/19/25mm
SD – 9/12/17/19mm

Available untreated or clear treated LOSP H3.1

Face Grade B

Veneer quality B is an appearance grade veneer with limited amounts of minor, sound inter-grown knots, filled splits and holes permitted. It is suitable for both structural and visual applications where minor rustic characteristics are acceptable.

Possible Uses:

- Interior and covered exterior linings and soffits
- Suitable for high quality paint finishes
- Decorative walls and panelling
- Shop fittings and cabinetry

Available thicknesses:
BD – 9/12/17mm

Available untreated or clear treated LOSP H3.1

Face Grade C

Veneer quality C is a non-appearance grade with a solid surface. Any open imperfections on the face, such as knot holes or splits, are filled. Suitable for applications where structural performance and a solid face surface is required.

Possible Uses:

- Flooring, decking, roofing and membrane substrates
- Structural and bracing linings
- Hoardings

Available thicknesses:
CD – 7, 9, 12, 15, 17, 19, 21, 25, 32mm

Available untreated or treated CCA H3.2

Face Grade D

Veneer quality D is a non-appearance grade with unfilled, open imperfections including knots and splits. It is designed specifically for structural applications where strength is the primary requirement and visual appearance is not a consideration.

Possible Uses:

- Structural bracing
- Metal roofing substrate
- Concrete formwork

Available thicknesses:
DD – 7, 9, 12, 15, 17, 19, 21mm

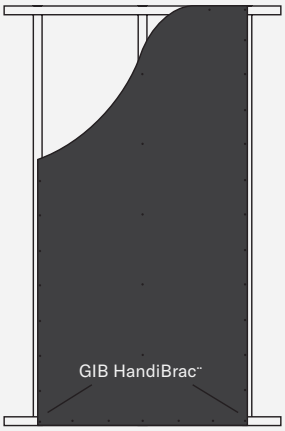
Available untreated or treated CCA H3.2

IPL Bracing Ply Bracing BU Values

	Lining	Min Length (mm)	Wind (BU/m)	Earthquake (BU/m)
IPL 1	7mm Bracing Ply™ one side	400mm	85	95
	7mm Bracing Ply™ one side	600mm	105	105
	7mm Bracing Ply™ one side	1200mm	130	125
IPL 2	7mm Bracing Ply™ both sides	400mm	110	130*
	7mm Bracing Ply™ both sides	600mm	140*	150*

Above P21 testing conducted on behalf of IPL by BRANZ

*Bracing panels must not exceed 120 BU/m when used on timber framed floor as per NZ3604:2011 Section 5.4.2



7mm Structural Ply fixed with 50 x 2.8mm flat head nails at 150mm centres around perimeter at no less than 7mm from sheet edge. 300mm centres to intermediate studs

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Crafted on the Coast
Made for New Zealand