



PlyBrace™ Plywood Technical Note

Version 3 July 2026

Endless possibilities.



bbi® PlyBrace™ Plywood Wall Bracing Specifications –

Product	Min Wall Length	PlyBrace™ Thickness	Max Stud Spacing	Wind*	Earthquake**
	mm	mm	mm	BU/m	BU/m
bbi® AraucoPly® F8	200	7	600	41	49
bbi® AraucoPly® F8	400	7	600	56	58
bbi® AraucoPly® F8	600	7	600	72	80
bbi® AraucoPly® F8	1200	7	600	93	100
bbi® AraucoPly® F8 (LVL 8)	1200	7	600	138	141
bbi® AraucoPly® F8	400	9	600	24	28
bbi® AraucoPly® F8	600	9	600	75	83
bbi® AraucoPly® F8	1200	9	600	122	127
bbi® Blondeline® Birch Poplar Core	1200	9	600	102	114
bbi® Blondeline® Birch Poplar Core	1200	12	600	106	106
bbi® Redline® Poplar Core	1200	9	600	109	111
bbi® Redline® Poplar Core	1200	12	600	101	108
bbi® Redline® Premium Hardwood Core	1200	12	600	134	157

As limited by the serviceability load capacity.* As limited by the ultimate load capacity.**

Maximum hold down rating for NZS 3604:2011 timber floors is 120BU's/m.

Maximum hold down rating for NZS 3604:2011 concrete floors is 150BU's/m.

bbi® PlyBrace™ Plywood Wall Bracing Systems

bbi® has a range of wall bracing systems in 7 mm, 9 mm, and 12 mm thicknesses used to resist earthquake and wind loads on timber framed buildings.

These products have been manufactured and tested in accordance with NZS3604:2011.

Wall Framing

Wall framing must comply with the New Zealand building code requirements. Nogs are not required to achieve the above bracing unit loadings.

Sheet Fastenings

50 x 2.8 flat head galvanised nails at 150mm centres around the perimeter of the sheet with fixings at 300 centres on internal stud.

Endless possibilities.

Frame Connections

GIB Handibrac® with M12 hold down bolts, except 7mm DD F8 200mm wall which uses 1 M12 hold down bolt with 50 x 50 x 3 square washer centered in the frame.



Installation Requirements

bbi® AraucoPly® F8 can be installed prior to the building being fully enclosed if H3.2 treated. The building must be fully enclosed within 60 days of installation.

bbi® Redline® and **Blondeline®** must only be installed once the building has been fully enclosed and the moisture content of the supporting timber framing does not exceed 18%.

Finishing System

All visible surfaces, including edges must be finished with three coats of polyurethane or a paint system comprising of a primer/sealer, and two topcoats*.

* Excludes bbi® AraucoPly® F8 ® RedLine Matt UV and Blondeline Matt UV®

Durability

bbi® PlyBrace™ Wall Bracing Systems have a serviceable life of at least 50 years providing they remain dry.

Design Considerations

bbi® PlyBrace™ Wall Bracing Systems are for use in dry, internal, protected locations of thermally insulated buildings which are heated, intermittently heated and predominantly unheated in accordance with NZS 3602 Section 110, Table 1E and Section 205. The internal environment must be such that the moisture content of the supporting timber framing does not exceed 18%.

bbi® PlyBrace™ Wall Bracing Systems must be located within the building thermal envelope and must either be exposed to view or be in locations easily accessible for inspection. **bbi® PlyBrace™** Wall Bracing Systems must not be located in any high moisture environment or in areas subject to water splash. They must not be used in areas such as bathrooms, toilets, laundries or kitchens.

* Excludes AraucoPly F8 when H3.2 Treated

bbi® PlyBrace™ sheets must not be used in saunas or steam rooms. **bbi® PlyBrace™** Wall Bracing Systems must not be exposed to temperatures of 50°C or greater for prolonged periods. Refer to appliance and fitting manufacturers for installation details.

Prevention of Fire Occurring

Separation or protection must be provided to **bbi® PlyBrace™** Wall Bracing Systems from heat sources such as stoves, heaters, flues and chimneys. Part 7 of NZBC Acceptable Solutions C/AS1 to C/AS6 and NZBC Verification Method C/VM1 provide methods for separation and protection of combustible materials from heat sources.



bbi® PlyBrace™ Wall Bracing Systems are designed to meet the requirements of the New Zealand Building Code and have been tested using the P21 method by Scion Research New Zealand as referenced in NZS3604:2011