Building
better
together

Prolam®
PLX Column

RESIDENTIAL | COMMERCIAL

prolamnz.com

Prolam®
Engineered Laminated Timber

Prolam®
PLX Column

Powerful bracing for open plan designs

The PLX Column is a compact, high-performance bracing solution that helps you meet bracing requirements– while giving you the freedom to design open, spacious layouts with fewer walls and larger openings. Lightweight, easy to install, and made from sustainably grown New Zealand timber, it's simply a smarter way to brace.

Maximum bracing, minimal footprint

The glulam timber-steel hybrid PLX Column delivers up to 120 bracing units in a single member. Specifically engineered to offer high bracing capacity in minimal wall lengths, it's perfect for modern builds where every millimetre matters.

More space for living

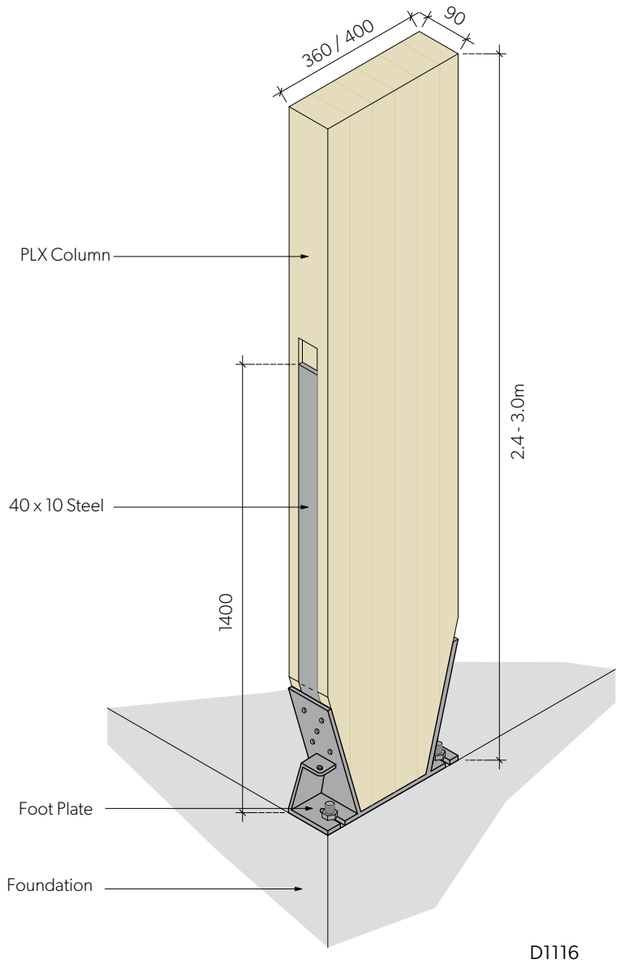
By providing more bracing power but taking up less space, the PLX Column unlocks extra space in floorplans – enabling wider openings, cleaner lines, better flow and more light-filled, liveable interiors.

Simple to install

The PLX Column cuts complexity and costs on construction sites. The prefabricated column and foundation connection are delivered in a build-ready kitset with easy-to-follow instructions for a fast and secure install.

Compliant and carbon efficient

The PLX Column has been designed and tested in accordance with the BRANZ P21 methodology for use in NZS3604 compliant dwellings. Made from sustainably grown radiata pine, it is a low-carbon solution that offers superior thermal performance.

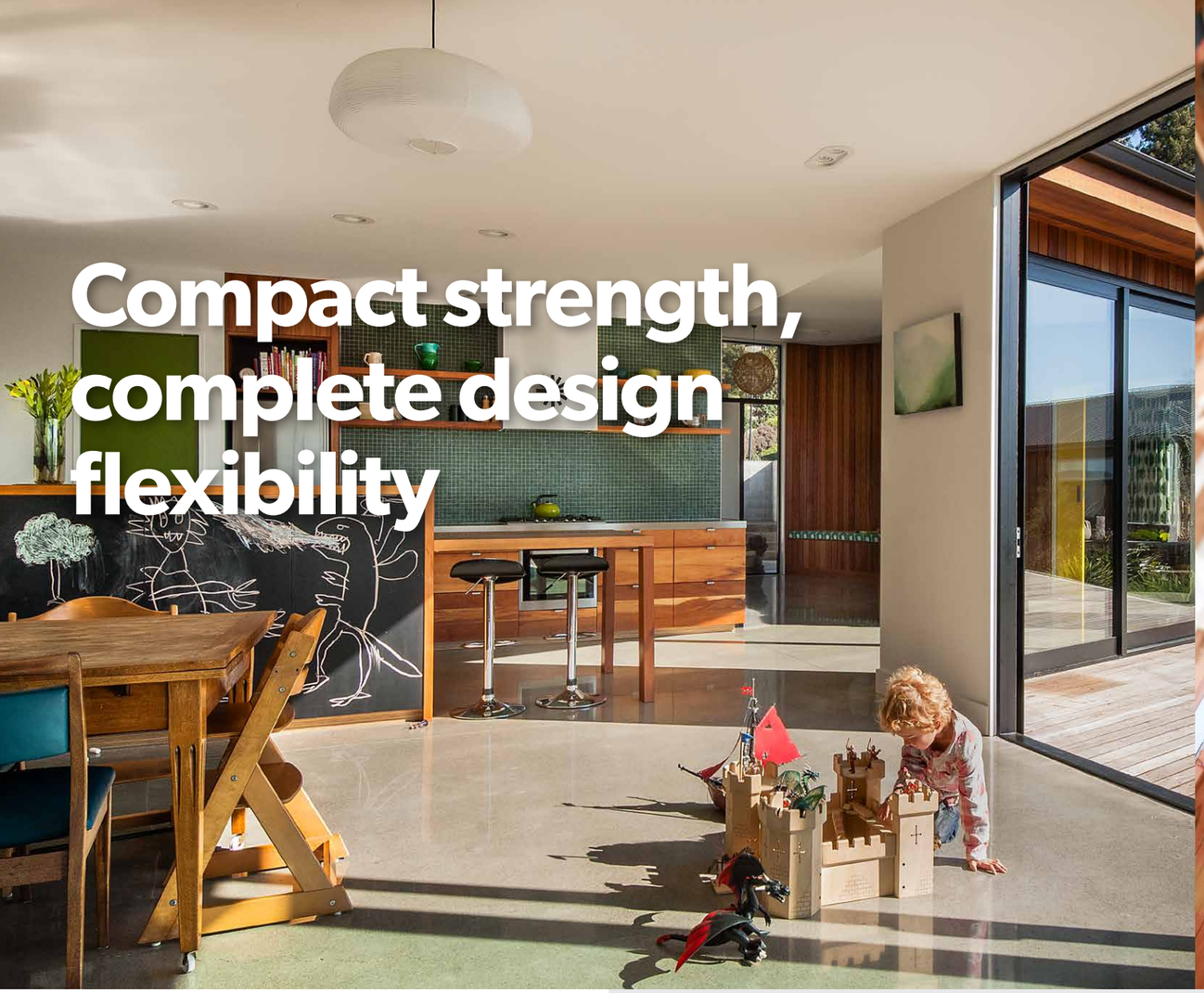


D1116
03/2025

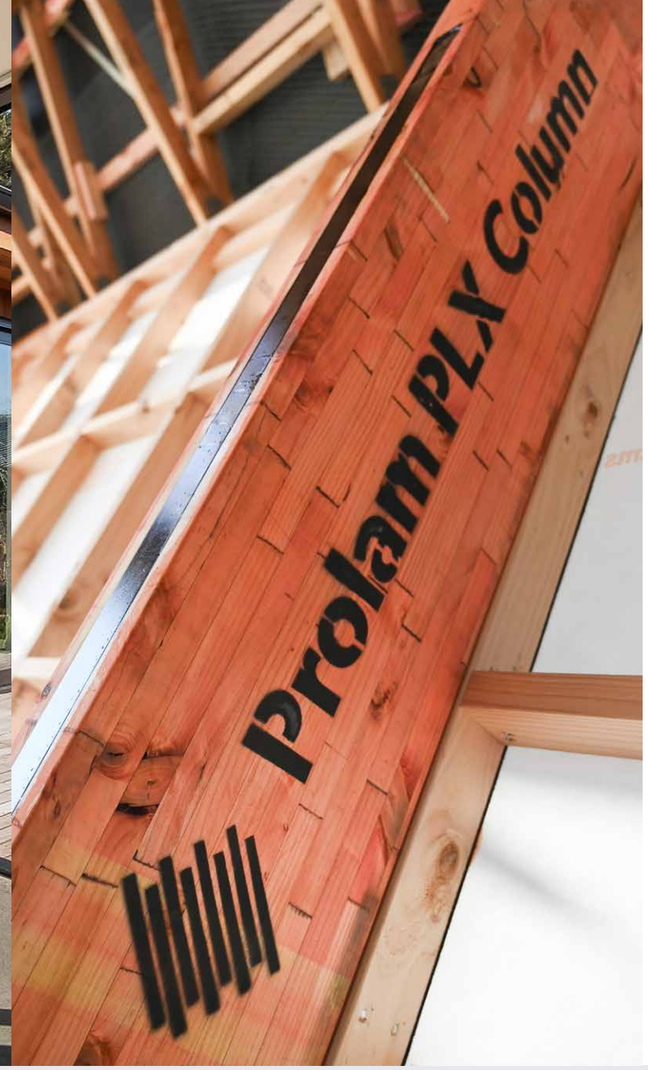
Prolam®
Engineered Laminated Timber

The PLX Column opens up exciting new possibilities in structural timber design. Developed in collaboration with structural engineers, architects and builders it's a space-saving, space-making bracing solution that balances the demand for building integrity with the desire for more open, light-filled homes.

John Woodman, Prolam Founder & Managing Director



Compact strength, complete design flexibility



Prolam®
Engineered Laminated Timber

Tested and proven bracing breakthrough

The result of extensive research and development, the PLX Column has been tested in accordance with the BRANZ P21 (2010) bracing test and evaluation procedure and third-party verified.

The PLX Column provides bracing units to resist wind and earthquake loads and has a ductility of μ = 3.0, making it compatible with NZS3604 bracing systems.

Features & Benefits

- Premium glulam structural timber column
- Exceptional bracing capacity in minimal wall lengths
- Angled anchors for edges of insulated foundations
- Delivered as a prefabricated kit-set ready to install
- Cut to length on site for an exact fit
- Connects easily to other timber members (no packing needed)
- Lightweight and easy to install
- Simple to specify
- A sustainable choice – made from NZ plantation grown pine
- NZ-made innovation
- Available nationwide

Prolam® PLX Column

As the size of the average New Zealand home shrinks and design trends continue to favour open plan living, architects, structural engineers and builders face a growing challenge: meeting bracing requirements without sacrificing space, natural light, or layout.

Whether you're seeking to maximise space for living in a new home, renovation or multi-residential build, the PLX Column gives you more room to move – delivering high bracing performance in a compact footprint.

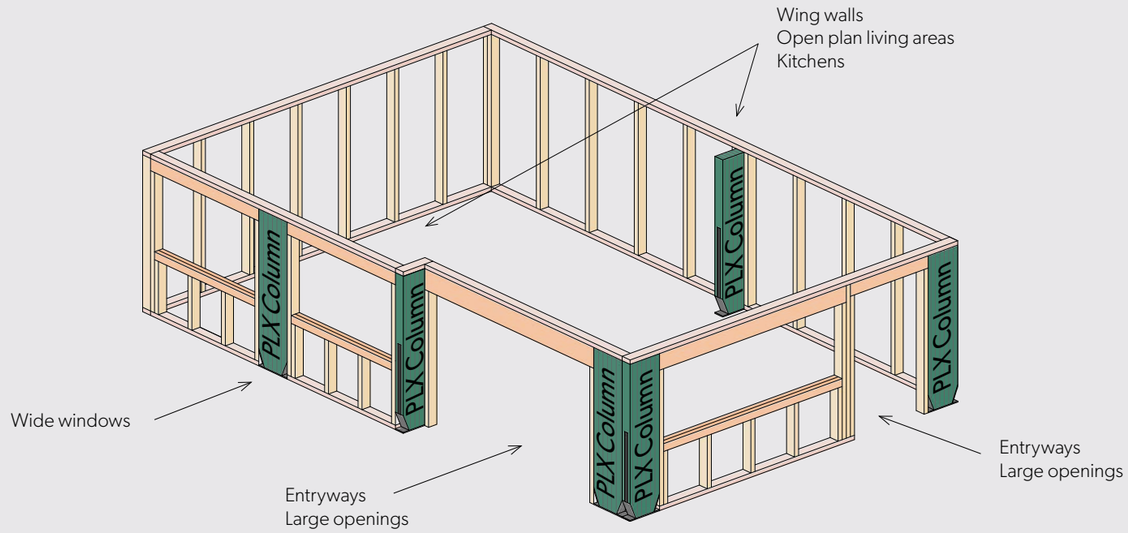
A wide range of applications:

The PLX Column is a versatile bracing solution for single storey homes and the ground floor of multi-storey homes, including narrow townhouses where space is at a premium.

It is ideal for:

- **Open plan living areas**
- **Kitchens**
- **Entryways**
- **Wing walls**
- **Large openings**

Or anywhere you need bracing and have or want minimal wall lengths.



Prolam®
PLX Column

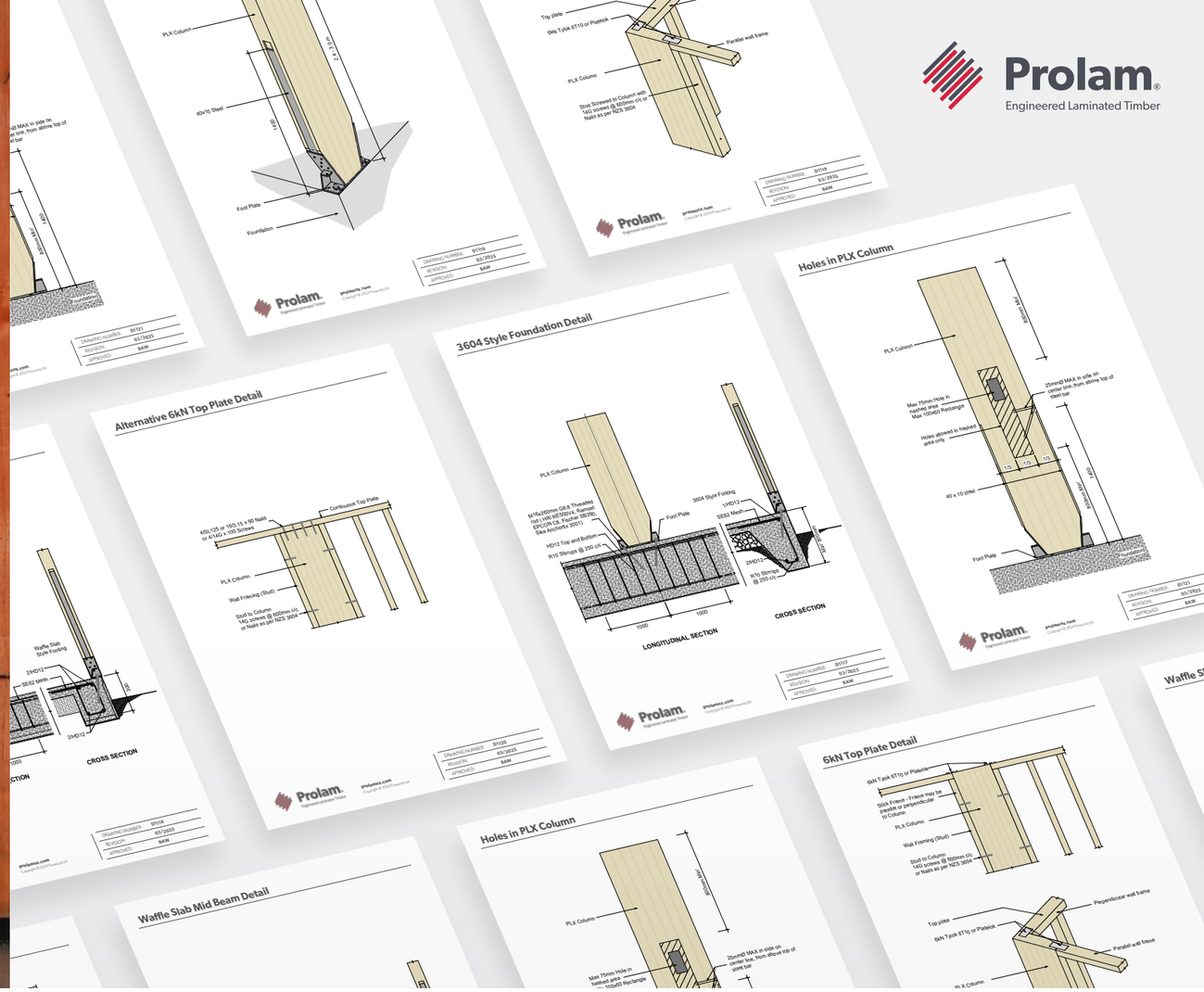
Brace better, build smarter

Every aspect of the PLX Column has been designed to cut complexity at the construction stage – saving time and costs on-site.

The PLX Column comes prefabricated, build-ready kitset including the column and foundation connection for fast and secure installation.

The custom foot plate has been specifically designed to tackle edge distance for insulated concrete slabs, with a drill guide for precise positioning of the anchor rods.

The PLX Column also connects directly to other timber framing elements using standard top fixing options, making it a simple fix and go solution.



Bracing design

The PLX Column has been tested using the BRANZ P21 test methodology for use for NZS3604 style residential buildings.

The PLX Column has a ductility of μ = 3.0, making it compatible with NZS3604 bracing systems.

Bracing Design

Code	Description	Column Size (mm x mm)	Column Height (m)	Wind BU	Earthquake BU
PLXCH1-400100-2.4H	Prolam PLX Column 360x90 H1.2 2.4H	360 x 90	Up to 2.4	91	103
PLXCH1-400100-2.7H	Prolam PLX Column 360x90 H1.2 2.7H		2.7	81	91
PLXCH1-400100-3.0H	Prolam PLX Column 360x90 H1.2 3.0H		3	73	82
PLXCH1-450100-2.4H	Prolam PLX Column 400x90 H1 2 2.4H	400 x 90	Up to 2.4	116	131
PLXCH1-450100-2.7H	Prolam PLX Column 400x90 H1.2 2.7H		2.7	103	117
PLXCH1-450100-3.0H	Prolam PLX Column 400x90 H1.2 3.0H		3	93	105

For higher columns the bracing capacity (@2.4m high) can be reduced by a 2.4/column height ratio.

Connection details

Scan the code below to view.

CLICK TO VIEW

Foundation Type	Detail
3604 Style Foundation Detail	D1117
Waffle Slab Edge Beam Detail	D1118
6kN Top Plate Detail	D1119
Alternative 6kN Top Plate Detail	D1120
Holes in PLX Column	D1121
Waffle Slab Mid Beam Detail	D1122

Note: The PLX Column is suitable for concrete foundations only.

Prolam® PLX Column

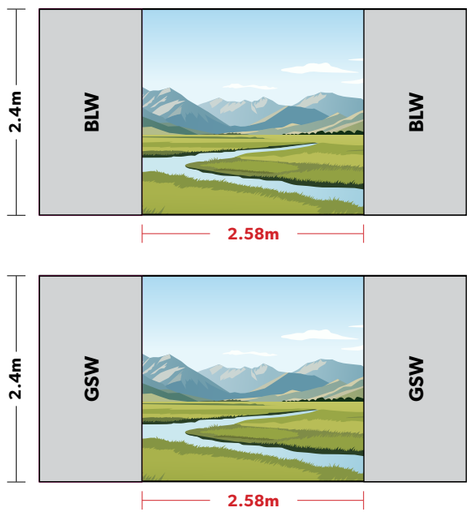
More PLX power

Broaden your view

The PLX Column's combination of strength and simplicity gives designers more freedom where they've been constrained by traditional bracing options.

Prolam® PLX Column

Alternative solutions



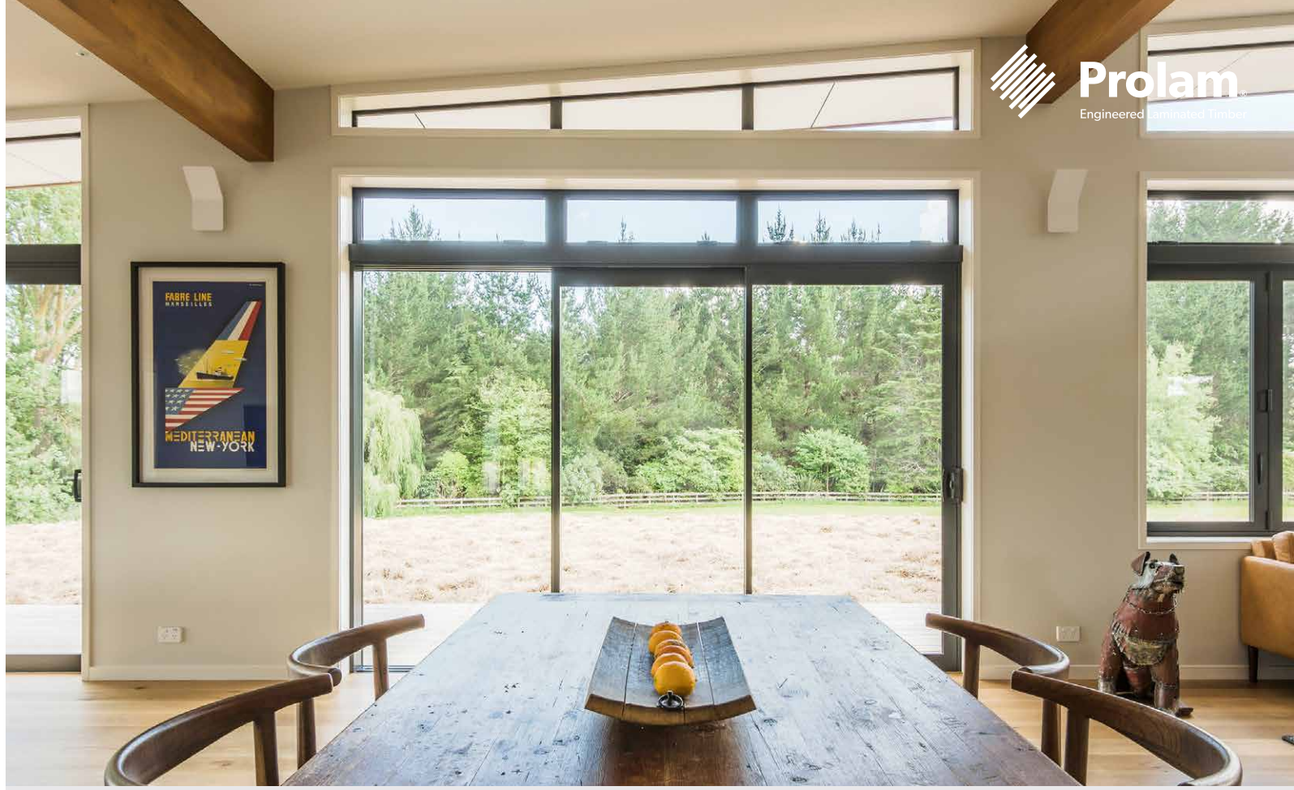
Part of the innovative Prolam PLX range

Prolam® PLX Portal

Strong but lightweight, simple to install and sustainably made, the PLX Portal is the smart alternative to steel and other bracing portal options.

Prolam® PLX20

With a superior span-to-size of beam ratio, the PLX20 Beam offers unparalleled load-bearing capacity and spanning capability.



Prolam® Engineered Laminated Timber

Compliance Statement

The PLX Column has been specifically designed and independently tested in New Zealand to provide a structural bracing solution for residential buildings within the scope of NZS3604. Testing has been carried out in accordance with the BRANZ P21 (2010) bracing test and evaluation procedure, which is cited by NZS3604, paragraph 8.3.1.2.

When the PLX Column is installed as per installation details D1116-D1121, it will meet the requirements of the New Zealand Building Code with respect to:

- Clause B1 Structure: Performance B1.3.1, B1.3.2 and B1.3.3 and B1.3.4
- Clause B2 Durability: Performance B2.3.1 of not less than 50 years, internal use only.

Once the PLX Column has been installed and prior to lining, the Building Consent Authority should inspect the Column fixings.

For use other than with NZS3604 type structures, Specific Engineering design will be required.

Inspection Schedule

1. Foundation steel before pouring concrete as per details on page 7 of Connection Details (D1117, D1118 & D1122).
2. Foundation connection. Ensure the chem set bolts are tightened to 65Nm torque.
3. Ensure there is a 6kN top plate connection to adjacent walls.

Producer Statement

Potius Building Systems Ltd have been engaged by Prowood to develop and prepare the PLX Column technical data.

P21 testing has been performed at the ProLab test facilities and engineering design has been carried out in accordance with widely accepted engineering principals of AS/NZS1170, NZS3604, NZS3101 & NZS/AS1720.

On behalf of Potius Building Systems Ltd (Producer statement to be reviewed by May 2030)

Andy Van Houtte
CMEngNZ, CPeng 250791

POTIUS™ BUILDING SYSTEMS LTD

Building better together

At Prolam, we support engineers, architects and building professionals to design and build with strength, confidence and ease using premium engineered timber solutions.

NZ made quality

Innovative timber solutions designed and made in New Zealand using high quality, locally sourced materials – creating local employment and training opportunities.

Solid eco-credentials

Made from New Zealand plantation timber, with research-backed resistance to harsh environmental conditions, FSC certified timber options available.

Confident compliance

Prolam sets the benchmark in building code compliance and certification for glulam timber products – for smooth engineering and building consent approvals.

Built-in ease

Control at every step, with expert technical advice on tap – from knowledge of local industry codes, precise product specification to installation and after sales support.

Fast and efficient

Industry-best lead times via a secure supply chain, proactive management of stock holdings and next level production efficiencies.

Strong and safe

Precision engineered for a superior fit, optimal structural integrity, dimensional stability, and easy and safe installation.

Cutting edge technology

Advanced manufacturing processes and smart tools that streamline product specification, supply, installation and certification.

Have technical questions?

Our sales team and structural engineers are on-hand to support you to find the right solution for your project.

Call 03 526 7436 or visit our Prolam Specifier at specifier.prolamnz.com

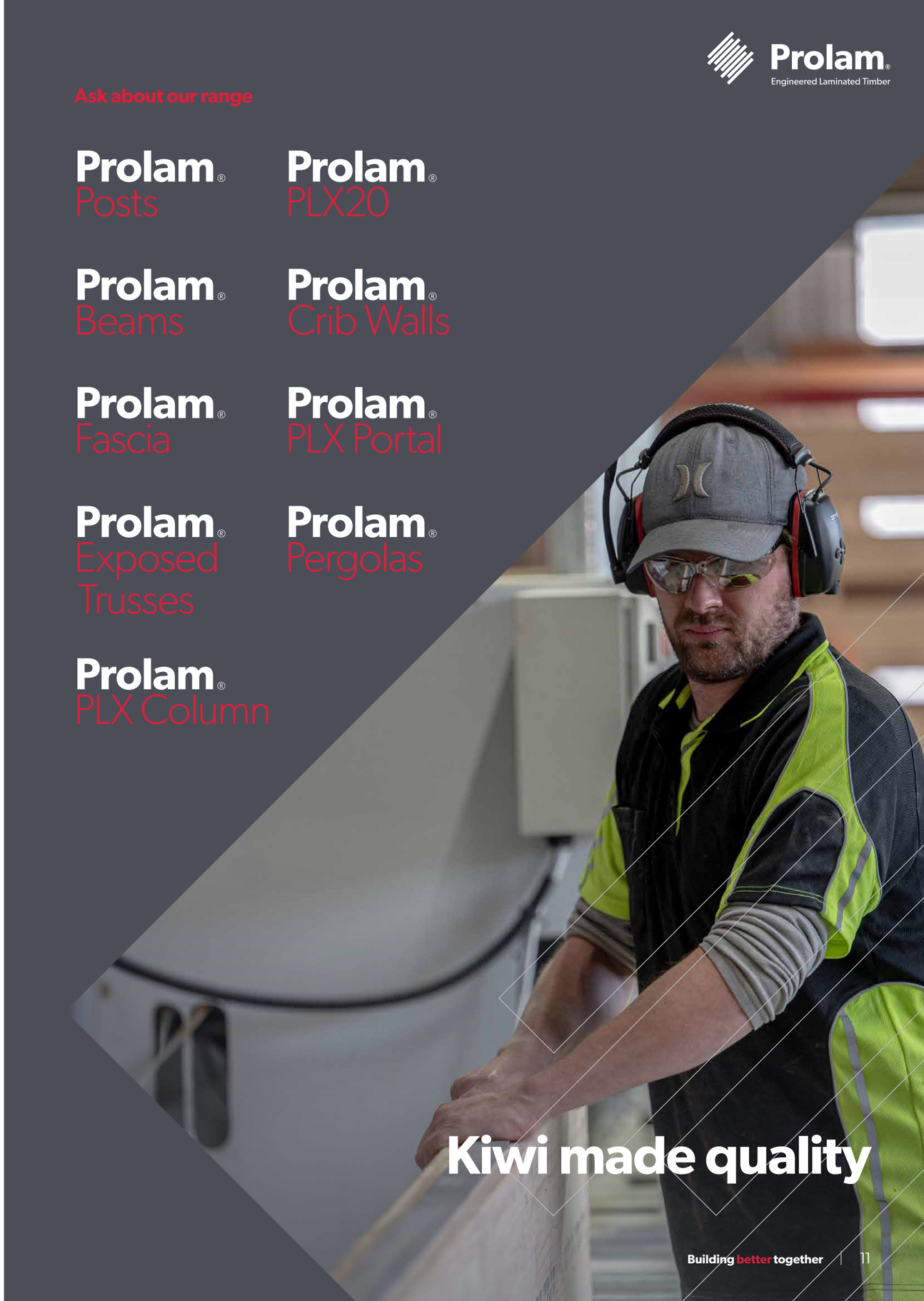
Prolam® Specifier

Specify with certainty

Prolam®
Engineered Laminated Timber

Ask about our range

- Prolam® Posts
- Prolam® PLX20
- Prolam® Beams
- Prolam® Crib Walls
- Prolam® Fascia
- Prolam® PLX Portal
- Prolam® Exposed Trusses
- Prolam® Pergolas
- Prolam® PLX Column



Kiwi made quality

Planning a project?
Our team of experts are ready to assist.

03 526 7436
info@prolamnz.com
prolamnz.com

Prolam®
Engineered Laminated Timber