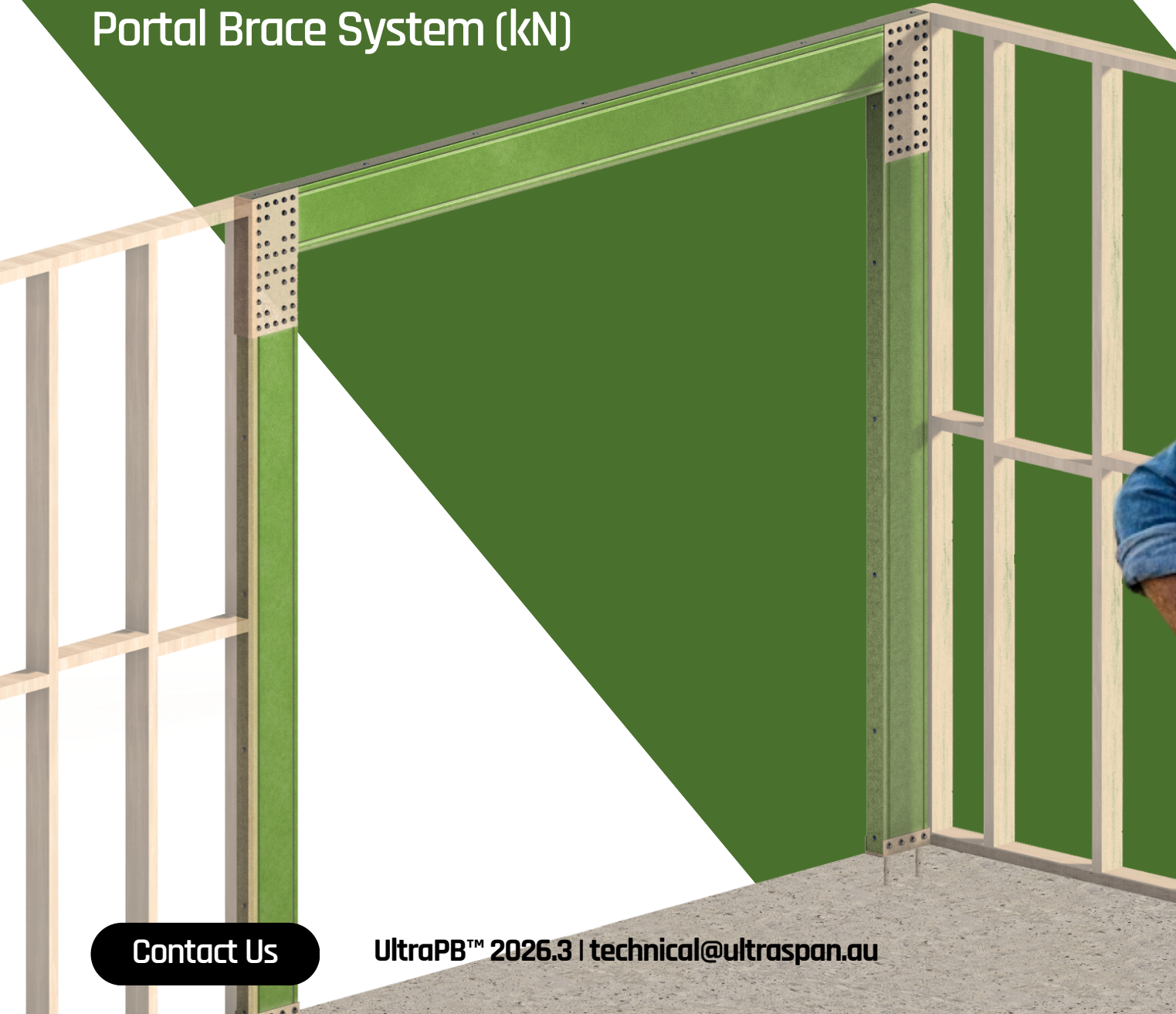


UltraPB™

Portal Brace System (kN)



Contact Us

UltraPB™ 2026.3 | technical@ultraspan.au

UltraPB™

Portal Brace System



About Ultraspan

Ultraspan™ is an Australian, family-owned business founded in 2024, backed by more than 25 years of hands-on steel construction experience. We specialize in metal products that are built for real-world use on site, designed, engineered, and thoroughly tested specifically for builders.

Our range includes structural systems made for both timber and steel construction, giving you reliable options that slot straight into standard building methods without slowing down your workflow

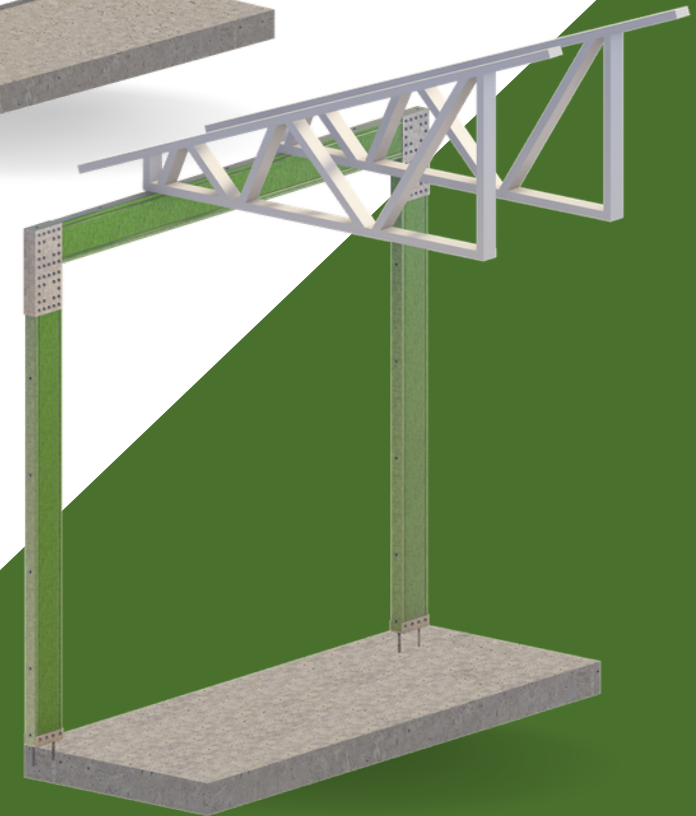
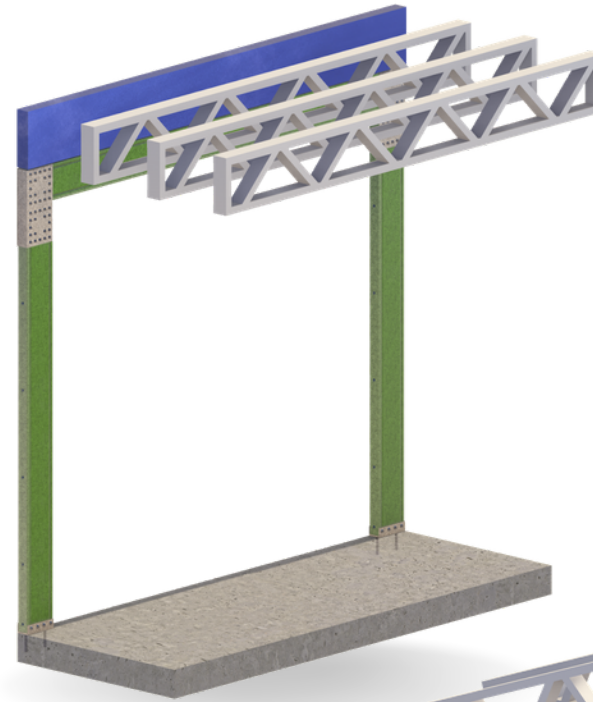
About UltraPB™

UltraPB™ is the latest product added to the Ultraspan™ range, built to make jobs quicker, easier, and more cost-effective on site. The whole idea behind UltraPB™ is to give builders a smarter system that saves time, reduces labour, and helps projects run smoother from start to finish.

The Portal Brace system is a lightweight alternative to structural steel, meaning it's easier to handle, faster to install, and cuts down on wait times for materials. UltraPB™ suits both single-storey and double-storey builds and fits straight into standard building methods without complicating the job.

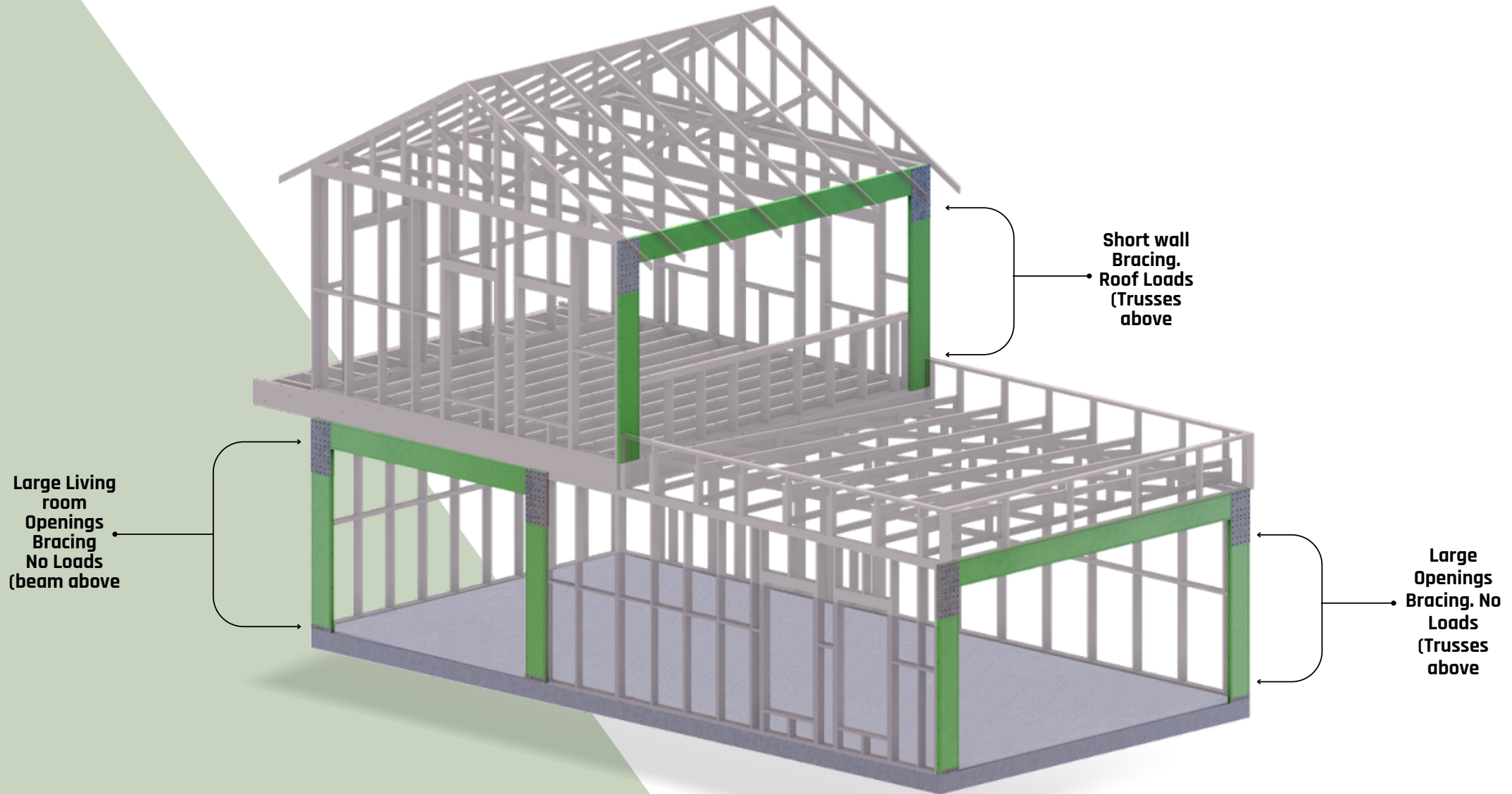
It's designed for multi-residential builds, townhouses, and off-site construction—anywhere you need reliable bracing that installs quickly and performs well without adding unnecessary weight or cost.

Ultraspan™ is focused on helping builders work smarter and stay ahead with products that improve efficiency and deliver better results on every project.



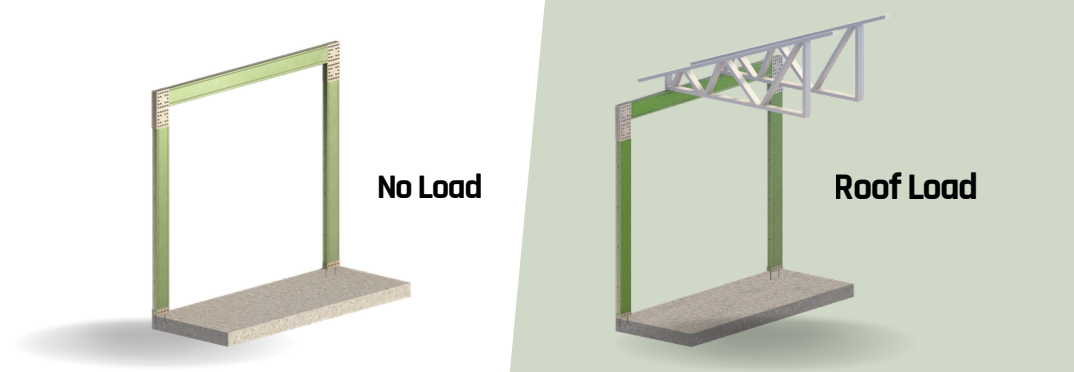
Applications

UltraPB™
Portal Brace System



Lateral Bracing (kN)

Roof Loads / No Loads



UltraPB™ Code	Member Size	RL Top of Beam	Opening Height	2400 Wide Opening		3600 Wide Opening		4800 Wide Opening	
				No Load②	Roof Load①	No Load②	Roof Load①	No Load②	Roof Load①
200-22	200	2400	2200	6.7	6.7	5.7	1.9	5	N/A
200-23	200	2500	2300	6.2	6.2	5.4	1.9	4.7	N/A
200-25	200	2700	2500	5.5	5.5	4.7	N/A	4.2	N/A
250-21	250	2400	2150	11.5	11.5	9.9	7.1	6.6	N/A
250-22	250	2500	2250	10.8	10.8	9.3	6.9	6.4	N/A
250-24	250	2700	2450	9.4	9.3	8.2	6.5	5.9	N/A
300-21	300	2400	2100	18.2	18.2	13	9.2	7.9	N/A
300-22	300	2500	2200	16.9	16.9	12.5	8.8	7.6	N/A
300-24	300	2700	2400	14.8	14.8	11.6	8.3	7	N/A
360-20③	360	2400	2040	27	26.3	14.3	10.7	8.8	N/A
360-21	360	2500	2140	27	26.3	14.3	10.7	8.8	N/A
360-23	360	2700	2340	23.6	23.6	13.3	10	8.1	N/A

① UDL=6m RLW max (Wind Regions A+B/N2-N4, Sheet Only). Max. UDL (kN/m): 5.13 downward/11.1 upward

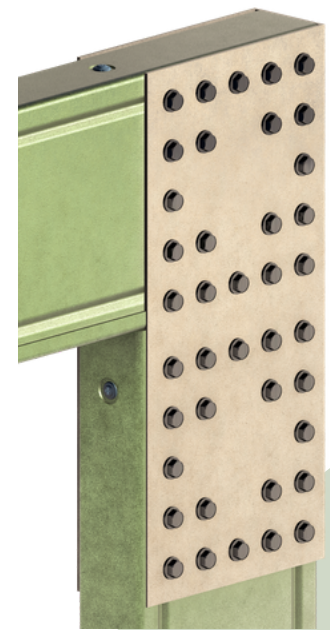
② No Load can be used in Wind Regions A-B-C-D

③ 360-20 kN is same as 360-21 due to clash with standard opening heights but can be raised to achieve standard opening height. The additional raised height reduces capacity to 360-21.

Installation

Uncracked Concrete

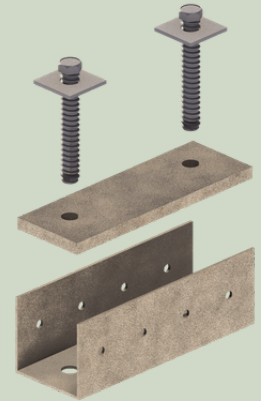
Member Size	Product	Anchor Qty	Min. End Distance (X)	Anchor Spacings (Y)	Min. Slab Edge Distance (Z)	Anchor HD end distance (W)	Min. Embed
200.24	Ramset Chemset Reo 502 Plus + Chemset Anchor 8.8**	2/M16	50	120	50	40	200
250.24		2/M16	110	170			200
300.24		2/M16	190	220			200
360.24		2/M20	250	280			240



Specifications

Installation Data

Member Size	Knee Bracket Size	Knee Tek Qty	HD Tek Qty	HD Bracket Size
200.24	190x70x190	40 per side	4 per side	200x65x200+ 10mm plate
250.24	240x70x240	40 per side	5 per side	250x65x250+ 10mm plate
300.24	290x70x290	44 per side	6 per side	300x65x300+ 10mm plate
360.24	350x70x350	44 per side	7 per side	360x65x360+ 10mm plate



- Design method based on AS 5216:2021. Design for quasi-static loading (NOT Seismic Application)
- In 'Cracked-concrete' Hold Down anchors provide less resistance.
- Min. concrete strength of 20MPa
- Min. slab/Footing thickness of 300mm
- Min. end & edge distance to slab - Diagram 1
- To be concealed within wall cavity, protected from elements
- For Portal Located at upper level, use 2/M16 Bolts 8.8/s as Hold Down (fixed into structural beam)

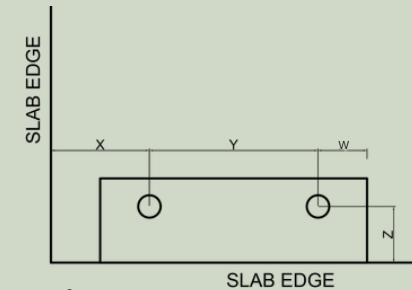


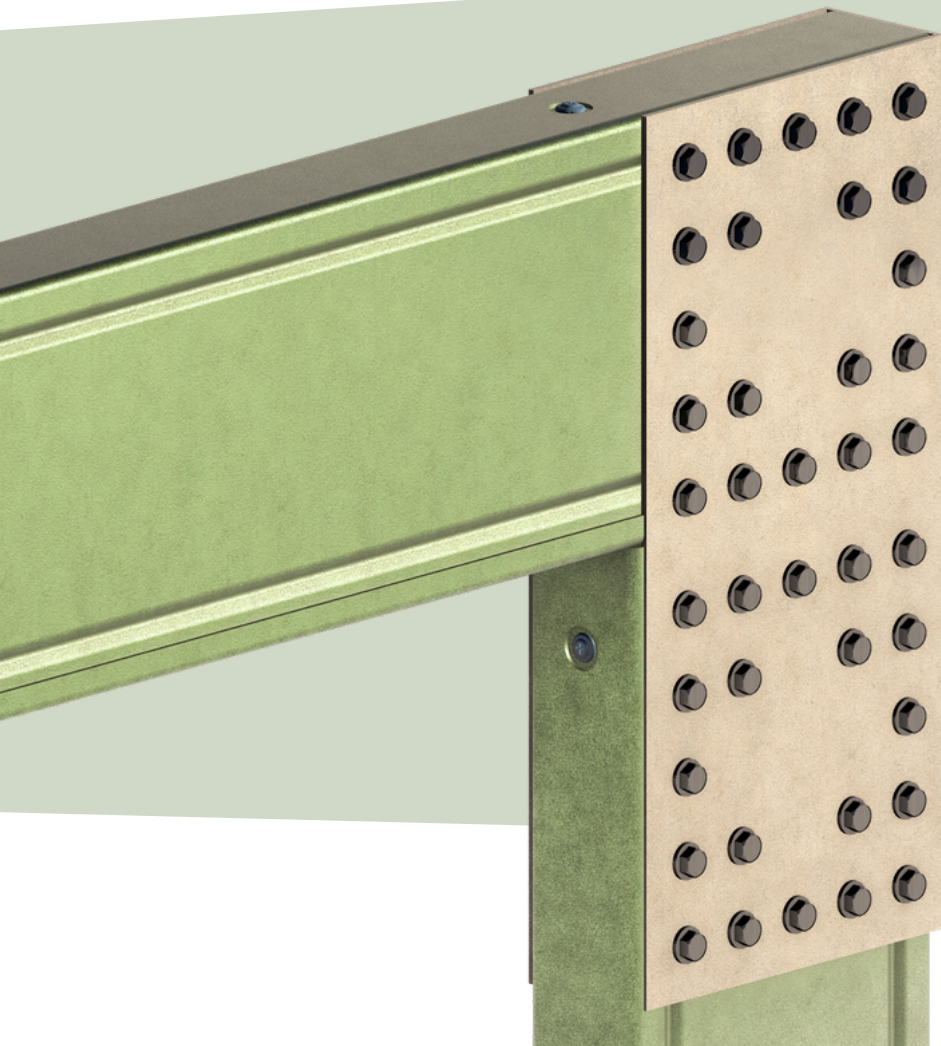
Diagram 1

Certification

Producer Statement

For compliance - installer must follow approved **UltraPB™ 2026.3** document certified by **STA Consulting Engineers Ltd**

- Use nominated brackets, fasteners and tie down details
- Use 10mm thick plate and 30x3mm C3 washer to meet AS4100 compliance
- Knee Bracket Material Spec: 2.4mm I Z350 I G350 (min.)
- Fasteners: M8-17 (C3 min.)



Smart, practical engineering for residential
and commercial construction projects

UltraSpan

3/17 Computer Rd
Yatala
QLD 4207

To Whom It May Concern

RE: UltraPB (Portal Brace System) for Non-Bearing and Roof Loads Only

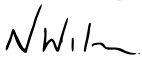
We, STA Consulting Engineers, being professional engineers, verify that the UltraPB Portal Brace System for non-Bearing and Roof Loads will be compliant with the following codes and standards:

- NCC 2022 Vol 1: Section B Structure, Part B1 Structural provisions
- NCC 2022 Vol 2: Section H, Part H1 Structure
- AS/NZS 1170.0:2002 Structural Design Actions, Part 0: General principles
- AS/NZS 1170.1:2002 Structural Design Actions, Part 1: Permanent, imposed and other actions
- AS/NZS 1170.2:2021 Structural Design Actions, Part 2: Wind actions
- AS 4055:2021 Wind loads for housing
- AS/NZS 4600:2018 Cold-Formed Steel Structures
- NASH Series (Part 1/2)

Application or project specific certification of the UltraPB tables is subject to correct interpretation, by the designer, of various parameters (e.g. applied loads, support conditions, deflection, durability requirements). For cases outside of the parameters outlined within the product manual design notes, a full assessment needs to be undertaken by UltraSpan.

This letter does not constitute project specific certification. For all projects, the overall bracing system (inclusive of UltraSpan system) must be reviewed and certified by an accredited structural engineer.

Yours faithfully


Nigel Wilson

BE(Civil), MIEAust CPEng, RPEQ (4488), NER

Engineering Manager