

LOAD SPAN

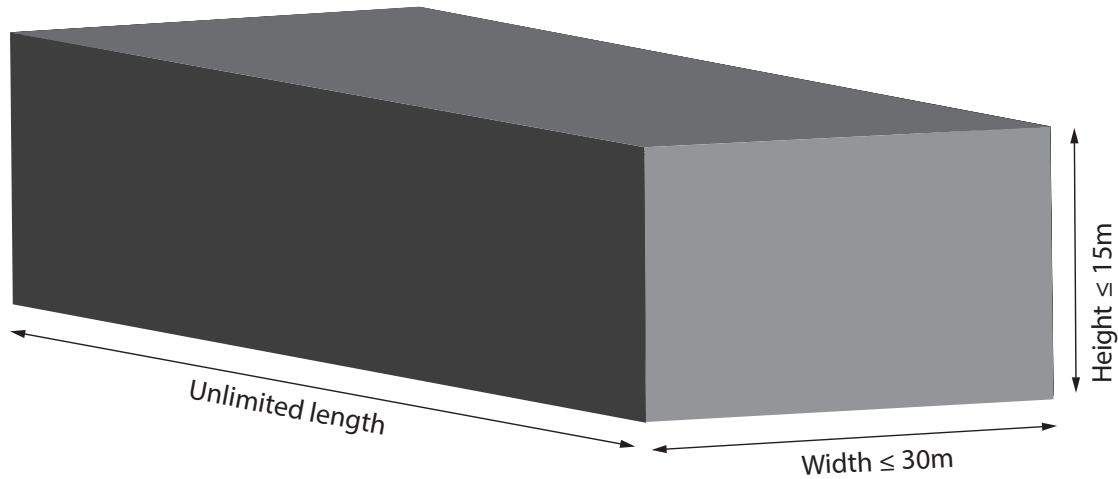
LOAD SPAN TABLES FOR CONQUEROR NZ PANEL PRODUCTS

Conqueror NZ Ltd has a policy of continuous product improvement; we reserve the right to change design or specifications without prior notice.



CONQUEROR

TYPICAL COMMERCIAL BUILDING CLADDING



EXTERNAL WALL, S-LINE TRIPLE RIB (0.4 metal facing thickness)

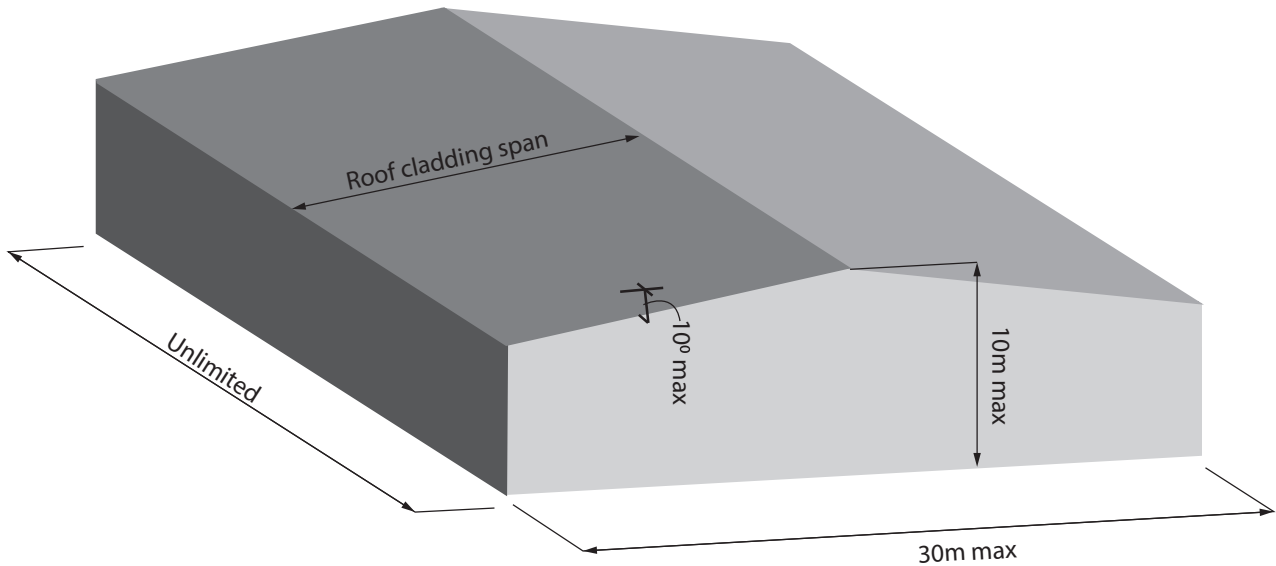
Thickness (mm)	50	75	100	150
Maximum Span (m)	3.0	4.3	5.0	-

ROOF-TYPE ISJ QUAD RIB (0.4 metal facing thickness)

Thickness (mm)	50	75	100	150
Maximum Purlin Spacing (m)	3.0	4.3	5.0	5.5

- Capacity based on BS EN 14509:2006 material reduction factors excluding temperature effects.
- Demand calculated in accordance with AS/NZS 1170.2 for a building in wind region A7 with no lee, shadow or topographic effects. Terrain category 3 used “numerous closely spaced obstructions at 3m to 5m height expected for typical building.”
- Localised wind effects taken into account using $k_l=1.5$ for walls and $k_l=2.0$ for the roof.
- The ground snow load has been taken as 0.9kPa. Allowance has not been made for accumulation of snow behind a parapet.
- Dimensions are given are for a typical 4 storey commercial building in NZ and are limited to the spacings and spans specified.
- Wall cladding can span both vertical and horizontal.
- Roof can be either mono-pitched or duo-pitched.

TYPICAL INDUSTRIAL WAREHOUSE CLADDING



EXTERNAL WALL, S-LINE TRIPLE RIB (0.4 metal facing thickness)

Thickness (mm)	50	75	100	150
Maximum Span (m)	3.5	4.5	5.0	-

ROOF-TYPE ISJ QUAD RIB (0.4 metal facing thickness)

Thickness (mm)	50	75	100	150
Maximum Purlin Spacing (m)	3.2	4.2	-	-

- Capacity based on BS EN 14509:2006 material reduction factors excluding temperature effects.
- Wind demand calculated in accordance with AS/NZS 1170.2 for a building in wind region A7 with no lee, shadow or topographic effects. Terrain category 3 used "numerous closely spaced obstructions at 3m to 5m height expected for typical building."
- Localised wind effects taken into account using $kl=1.5$ for walls and $kl=2.0$ for the roof.
- Allowance for ground snow = 0.9kPa.
- Dimensions are given are for a typical industrial building in NZ and are limited to the spacings and spans specified.
- Wall cladding can span both vertical and horizontal.

structex limited
219 main south road
christchurch
new zealand

tel: +64 3 341 8952
fax: +64 3 341 8953
eng@structex.co.nz
www.structex.co.nz

13 December 2012

Trevor Bills
Managing Director
Conqueror International
57 West Coast Road
RD 6
Christchurch 7676

email: tbills@xtra.co.nz

**Re: Structural Certification – Producer Statement
Conqueror International PIR Sandwich Panel**

Structex Harvard Ltd, hereby certify that the span tables attached have been designed in accordance with sound and widely accepted engineering standards and principles, current at this time.

The design properties of Conqueror PIR panels were determined from bending and shear testing and analysis in accordance with the standard BS-EN14509: 2006 "Self supporting double skin metal faced panels – Factory made products – Specification".

The testing was undertaken by Conqueror International Ltd, under the supervision of Imtest Laboratories Ltd (SAI Global, New Zealand Ltd).

When designed in accordance with the New Zealand Loadings Code AS/NZS1170 series and accepted engineering design practice for PIR panel design, using the attached tables, Conqueror PIR panels will comply with the New Zealand Building Code, clause B1/VM1.



Julius Long
Structural Engineer
BE Civil (Hons) MIPENZ CPEng #231242

CONTACT



57 West Coast Road
Yaldhurst, Christchurch 7676



0800 799 923



info@cnzltd.co.nz



www.conquerornz.co.nz



www.facebook.com/conquerornz



www.linkedin.com/company/conqueror-nz

CONQUEROR