SELECTION TABLES FOR

CARPORTS & VERANDAHS

(Flat Roof—Attached and Freestanding)

Effective Date 11 January 2024

MATERIALS

- Decking (Roofing)
- Fascia Gutter
- 'C' Section Beams & Gutter Truss
- SHS Columns
- Connections & Fixings
- Footing Details

Structural Engineering and Design by FYFE Pty Ltd

OLYMPIC INDUSTRIES Built to last

1233 Main North Road, Para Hills West

South Australia 5096

Phone (08) 8349 5744 Fax (08) 8349 4222

Website www.olympicindustries.com.au

84B Hypatia Street
Chinchilla QLD 4413

PO Box 955
Chinchilla QLD 4413
T 617 4672 6102

Fyfe Pty Ltd
ABN 57 008 116 130
fyfe.com.au

11 January 2024

Our Ref: 68570-1-2

Olympic Industries.
1233 Main North Road
Para Hills West, SA, 5096

Attention: Mr. Nathan Paterson

Dear Sir.

RE: OLYMPIC CARPORTS & VERANDAHS (Attached and Freestanding)
DESIGN CERTIFICATE

We confirm that we have prepared Selection Tables for Carports and Verandahs (Attached and Freestanding) for Olympic Industries (RotaForma Pty. Ltd.).

The Tables have been prepared in accordance with the structural requirements of the Building Code of Australia 2022 Volume 2, and the Australian Standards referenced therein.

Relevant Tables – Project No. 68570-1 Issue Date 11/01/2014

TABLES				
Attachment	Type	Height		
		2400	3000	3600
Attached carports & verandahs	Type 1	1A.24	1A.30	1A.36
	Type 2	2A.24	2A.30	2A.36
	Type 3	3A.24	3A.30	3A.36
	Type 4	4A.24	4A.30	4A.36
Freestanding carports & verandahs	Type 1	1F.24	1F.30	1F.36
	Type 2	2F.24	2F.30	2F.36
	Type 3	3F.24	3F.30	3F.36
	Type 4	4F.24	4F.30	4F.36
Details	DS.01			

The above tables have been provided tom Olympic Industries for inclusion in the following publication: -

SELECTION TABLES FOR
CARPORTS & VERANDAHS
(Flat Roof—Attached and Freestanding)
Effective Date 11 January 2024

Trevor John FIEAust CPEng NER APEC Engineer IntPE(Aus)
Chartered Professional Engineer

Herriot consulting
civil & structural engineers

INDEPENDENT PRIVATE CERTIFICATION

CERTIFICATION OF INDEPENDENT TECHNICAL EXPERT PURSUANT TO REGULATION 61 (PLANNING, DEVELOPMENT AND INFRASTRUCTURE (GENERAL) REGULATIONS 2017)

Project: Re: Olympic Industries Carport and Verandah Selection Tables

Designer: Fyfe Pty Ltd, Consulting Engineers

Job No: R2006-045

Date: 16 February 2024

Extent of Certification: Herriot Consulting at the request of the designer, has conducted an independent review of the design Software which produces the carport and verandah selection tables for Olympic Industries. This review included an examination of the software against AS4600:2018 being the Cold-formed Steel Structures Code.

I, Andrew Lee, practising Professional Engineer, hereby provide technical details that I have prepared which certify that the designs included in the following tables dated 11/01/2024 prepared by Fyfe Pty Ltd comply with the structural requirements of the National Codes of Construction, specifically NCC2022.

1A.24	1A.30	1A.36	1F.24	1F.30	1F.36
2A.24	2A.30	2A.36	2F.24	2F.30	2F.36
3A.24	3A.30	3A.36	3F.24	3F.30	3F.36
4A.24	4A.30	4A.36	4F.24	4F.30	4F.36

This is subject to the following conditions:

1. There are no pertinent changes to the relevant Australian Standards or the National Construction Code of Australia or relevant technical data following the date of this certificate.

Subject to the fulfilment of this condition, I agree that this certificate may be relied upon for the purposes of Regulation 61 of the Planning, Development and Infrastructure (General) Regulations 2017, as the certificate of an independent technical expert certifying that the materials, forms of construction and systems to which the tables relate will, if installed or carried out in accordance with the details, particulars, plans, drawings or specifications, comply with the requirement of the National Construction Code of Australia. I provide this certificate having carried out all relevant tests on the software which produces the tables, by comparing the output of the Software with the specifications, rules, standards, codes of practice or other publications applicable to the designs produced by the software.

Analysis, investigation into and testing of the software that produces the tables included:

1. General appraisal of the software
2. Identifying software functional requirements
3. Confirmation that all required spreadsheet functionality is met through an exhaustive cross checking process of all related cells
4. Independent member and connection design analysis

ANDREW LEE MIEAust CPEng NER.
HERRIOT CONSULTING

OLYMPIC INDUSTRIES *Built to last*

CARPORT and VERANDAH

Domestic and Industrial

ATTACHED

COLUMNS TYPES AND FOOTING SIZES

COLUMN TYPES	
TYPE	SECTION
1	SHS 50 x 50 x 1.6
2	SHS 65 x 65 x 1.6
3	SHS 65 x 65 x 2.0
4	SHS 75 x 75 x 2.5
5	SHS 75 x 75 x 3.0
6	SHS 90 x 90 x 2.0
7	SHS 90 x 90 x 2.5
8	SHS 100 x 100 x 3.0
9	SHS 100 x 100 x 4.0
10	SHS 100 x 100 x 5.0
11	SHS 100 x 100 x 6.0

FOOTING TYPES		
TYPE	SQUARE	DEPTH
1	400	450
2	400	600
3	400	750
4	500	600
5	500	750
6	500	900
7	600	600
8	600	750
9	600	900
10	600	1200

CARPORT AND VERANDAH SYSTEMS

(ATTACHED AND FREESTANDING)

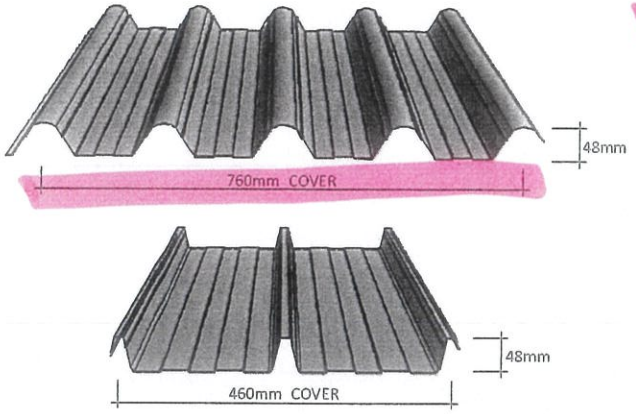
Olympic Industries system provides an economical solution for undercover leisure space and outdoor entertaining areas.

The system incorporates all of our proven products and components, manufactured by the company into an attractive, easily assembled structure. The simplicity and variety of fixing alternatives provides for a system which is versatile and adaptable to a variety of situations.

THE COMPONENTS

Decking

The roof decking should be carefully selected not only for appearance but also for wind load and local Council requirements. Olympic Industries has proven and tested available roof profiles for use as decking.



HI DECK

Colours—Available in Zincalume finish or Colourbond colours

Roof Pitch—Minimum of 1° (1:60) is recommended

RIB ROOF

Colours—Available in Zincalume finish or Colourbond colours

Roof Pitch—Minimum of 1° (1:60) is recommended

* Walking and standing on roof sheets shall be confined to
(a) the sheeting ribs, or
(b) the purlins supporting sheeting, or
(c) by using walk boards to spread the load

ALLOWABLE SPANS HI-DECK		
THICKNESS	N1 - N2	N3
0.47 T.C.T	3900	3500

ALLOWABLE SPANS RIB ROOF			
Thickness		N1 - N2	N3
Base	T.C.T.		
0.55	0.61	3000	3000
0.7	0.76	3600	3600

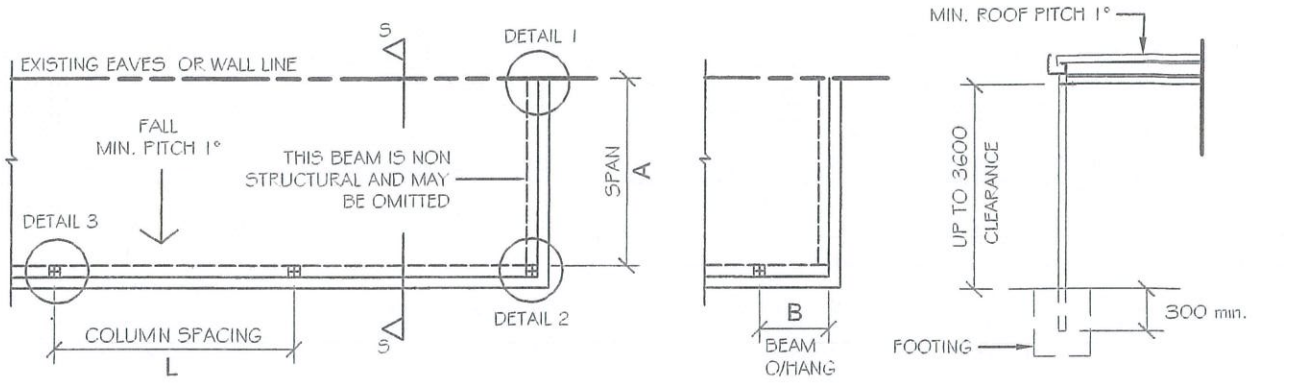
The above spans are based on load tests conducted by Techsearch Inc. (S.A. Institute of Technology) and calculations done by Trevor John and Associates Pty. Ltd.

Column and Footing Sizes

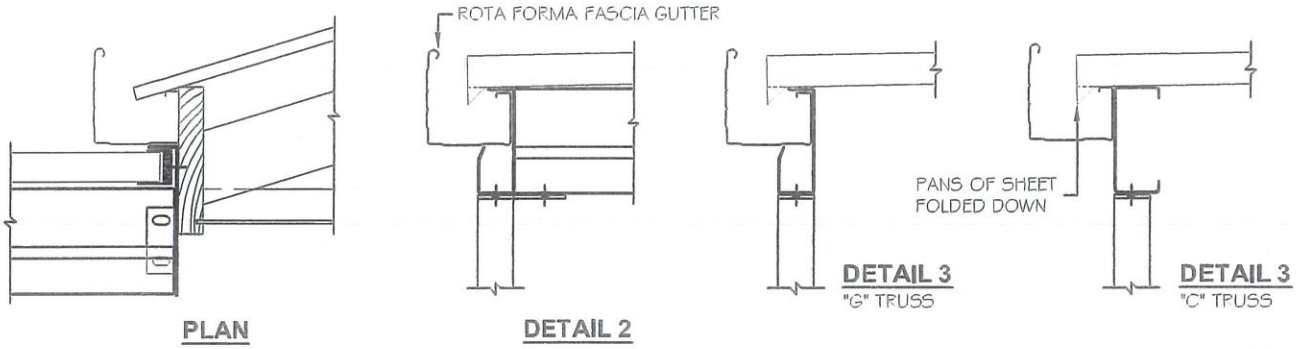
COLUMN TYPES	
TYPE	SECTION
1	SHS 50 x 50 x 1.6
2	SHS 65 x 65 x 1.6
3	SHS 65 x 65 x 2.0
4	SHS 75 x 75 x 2.5
5	SHS 75 x 75 x 3.0
6	SHS 90 x 90 x 2.0
7	SHS 90 x 90 x 2.5
8	SHS 100 x 100 x 3.0
9	SHS 100 x 100 x 4.0
10	SHS 100 x 100 x 5.0
11	SHS 100 x 100 x 6.0

FOOTING TYPES		
TYPE	SQUARE	DEPTH
1	400	450
2	400	600
3	400	750
4	500	600
5	500	750
6	500	900
7	600	600
8	600	750
9	600	900
10	600	1200

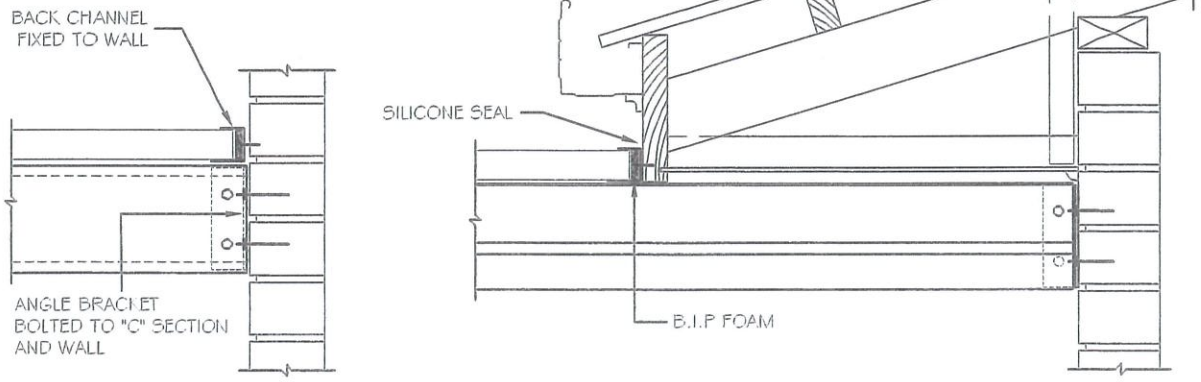
TYPE 1 - 1 BEAM, NO DECK OVERHANG, FRONT FALL



PLAN **OPTIONAL OVERHANG** **TYPICAL SECTION S-S**



PLAN **DETAIL 2**



ALTERNATIVE DETAIL 1 **DETAIL 1**

NOTES:

1. These tables must be read in conjunction with the "General Notes" and detail drawing within this book.
2. "Span" is the distance between the wall or eave line, and the inside of the fascia beam.
3. Column Spacing is the distance between column centers.
4. Beam spacing "C" (if applicable), is the distance between beam centers.
5. All dimensions are in millimeters.
6. Bolts are 10mm diameter.
7. Interpolation may be used for values required between those shown in the tables.
8. Sheeting must be securely trough fixed to front Fascia Beam (B2) with 2-3mm rivets per pan or self drilling screws with neoprene washers.
9. Intermediate Beams "B2" (if applicable), must be positioned mid-span of distance "A"

OLYMPIC INDUSTRIES

ATTACHED - CARPORT / VERANDAH SELECTION TABLES

TYPE 1 - DOMESTIC and INDUSTRIAL

NOTES

Wind Classifications Domestic N1, N2, N3 refer to AS4055

Wind Classifications Industrial TC1, TC2, TC2.5, TC3 refer to AS/NZS1170.2 and apply in Region A, No Shielding and Topographic Factor = 1.0

Size Code L = Column spacing

Column / Footing Type See Pages 8 or 120 for Column and Footing Sizes

* Rota-Forma HI Deck Only

** Rota-Forma Rib Roof Only

ATTACHED CARPORT - VERANDAH		HEIGHT 3600mm											1A.36.1
MAXIMUM ALLOWABLE SPANS		TYPE 1											
FASCIA BEAM	SPAN A	Wind Classification N1				Wind Classification N2				Wind Classification N3			
		Spacing L	Col. Type	Foot Type	Bolt to Slab	Spacing L	Col. Type	Foot Type	Bolt to Slab	Spacing L	Col. Type	Foot Type	Bolt to Slab
GT15015	1500	5300	1	1	Yes	4800	1	2	Yes	4200	1	2	Yes
	1800	5000	1	1	Yes	4600	1	2	Yes	4000	1	2	Yes
	2100	5000	1	1	Yes	4500	1	2	Yes	4000	1	3	Yes
	2400	4900	1	1	Yes	4500	1	2	Yes	3900	1	3	Yes
Beam O/hang	2700	4900	1	2	Yes	4400	1	2	Yes	3900	1	3	Yes
B = 1000 max	3000	4800	1	2	Yes	4400	1	2	Yes	3800	1	3	No
	3300	4800	1	2	Yes	4300	1	2	Yes	3800	1	3	No
	3600	4800	1	2	Yes	4300	1	2	Yes	**3800	1	3	No
	3900	*4700	1	2	Yes	*4300	1	2	Yes				
C15015	1500	5900	1	1	Yes	5400	1	2	Yes	4700	1	3	Yes
	1800	5600	1	2	Yes	5100	1	2	Yes	4500	1	3	Yes
	2100	5600	1	2	Yes	5100	1	2	Yes	4400	1	3	No
	2400	5500	1	2	Yes	5000	1	2	Yes	4400	1	3	No
Beam O/hang	2700	5500	1	2	Yes	5000	1	2	Yes	4300	1	3	No
B = 1000 max	3000	5400	1	2	Yes	4900	1	2	Yes	4300	1	3	No
	3300	5400	1	2	Yes	4900	1	2	Yes	4200	1	3	No
	3600	5400	1	2	Yes	4900	1	2	Yes	**4200	1	3	No
	3900	*5300	1	2	Yes	*4800	1	2	Yes				
C15019	1500	6000	1	1	Yes	6000	1	2	Yes	5300	1	3	No
	1800	6000	1	1	Yes	5700	1	2	Yes	5000	1	3	No
	2100	6000	1	2	Yes	5600	1	2	Yes	5000	1	3	No
	2400	6000	1	2	Yes	5600	1	2	Yes	4900	1	3	No
Beam O/hang	2700	6000	1	2	Yes	5500	1	2	Yes	4900	1	3	No
B = 1200 max	3000	6000	1	2	Yes	5500	1	2	Yes	4800	1	5	No
	3300	6000	1	2	Yes	5400	1	2	Yes	4800	1	5	No
	3600	5900	1	2	Yes	5400	1	3	Yes	**4700	1	5	No
	3900	*5900	1	2	Yes	*5400	1	3	Yes				
C15024	1500	6100	1	1	Yes	6000	1	2	Yes	5700	1	3	No
	1800	6000	1	2	Yes	6000	1	2	Yes	5500	1	3	No
	2100	6000	1	2	Yes	6000	1	2	Yes	5400	1	5	No
	2400	6000	1	2	Yes	6000	1	2	Yes	5400	1	5	No
Beam O/hang	2700	6000	1	2	Yes	6000	1	2	Yes	5300	1	5	No
B = 1200 max	3000	6000	1	2	Yes	5900	1	2	Yes	5300	1	5	No
	3300	6000	1	2	Yes	5900	1	3	Yes	5200	1	5	No
	3600	6000	1	2	Yes	5900	1	3	Yes	**5200	1	5	No
	3900	*6000	1	2	Yes	*5800	1	3	Yes				