General Notes					
G01	The Design and Details shown in these Drawings are applicable to this Project only.	300 PLUS	Universal Beams & Columns, Parallel Flange Channels, Large Angles to AS/NZS3679.1	Dimen	
G02	These Drawings shall be read in conjunction with all Architectural Drawings, other Consultants' Drawings, Specifications and such other Written	250	Flats, Small Angles, Taper Flange Beams & Columns to AS/NZS3679.1	Building Design Wind S	
	Instructions as may be issued during the course of the Project. Any	300	Welded Sections to AS/NZS3679.2	Colun	
	discrepancy shall be referred to the Engineer before proceeding with the work.	250	Hot Rolled Plates, Floor Plates & Slabs to AS/NZS3678	Raft	
G03	All Materials and Workmanship shall be in accordance with the relevant and current SAA Codes and Authorities Except where varied by the Project	250	Hollow Sections to AS1163. Circular Sections less than 165mm	Pur Fascia Bea	
	Specifications.	0.450.0550	Outside Diameter. Sections other than the above	Bri	
G04	The Structure must be maintained in a stable condition and no part must be	G450-G550	Cold Form AS4600. Unless noted otherwise, all purlins, plates & brackets are G450.	Foo	
	overloaded during construction. Temporary bracing must be designed and provided by the contractor(s) to keep the building works and excavations	G500	Slab mesh and deformed reinforcement bars.	All Bra	
	stable at all times.	G2070	AS2841. Galvanized Steel Wire Strand. Unless noted otherwise,	Technical	
G05	The Issuer of these Designs reserves the right to alter Specifications and		all Cable Bracing is G2070.		
000	Designs as it may see fit without prior notification or penalty.	Australian	Standard [™] & Australian/New Zealand Standard [™] Adopted		
G06 G07	The Structure has not been designed for snow loads. Connections may require on-site drilling by the contractor(s).	AS 1111.1	ISO Metric Hexagon Bolts and Screws – Product Grade C Part 1: Bolts		
	Foundation Notes	AS/NZS 1163	Cold-formed Structural Steel Hollow Sections		
F01	Foundations have been designed assuming an allowable bearing capacity of	AS/NZS 1170.0	Structural Design Actions - Part 0: General Principles		
F02	100 kPa. The Owner is advised to obtain a Geotechnical Report and/or Site Foundation	AS/NZS 1170.1	Structural Design Actions - Part 1: Permanent, Imposed & Other Actions		
	Report to confirm F01 above.	AS/NZS 1170.2	Structural Design Actions - Part 2: Structural Design, Wind Actions		
F03	Footings shall be located centrally under walls and columns unless noted otherwise.	AS/NZS 1170.4	Structural Design Actions - Part 4: Earthquake Actions in Australia		
F04	All Footings to be founded a minimum of 400 mm into Natural Ground. Do not	AS 1252	Structural Assemblies		
104	Found Footings in uncontrolled fill.	AS/NZS 1554	Structural Steel Welding		
F05	Engineer to be contacted if Foundation Conditions vary from F01 above.	AS 2870	Residential Slabs and Footings		
	Steelwork Notes	AS 3600	Concrete Structures		
S01	All Workmanship and Materials shall be in accordance with AS 4100, AS/NZ	AS 4100	Steel Structures		
	4600 and AS 1554 except where varied by the Project documentation.	AS/NZS 4600	Cold-formed Steel Structures		
S02	Bolting Categories are identified on the Structural Drawings as follows:	AS/NZS 4671	Steel Reinforcing Materials		
	4.6/S Commercial Bolts of Grade 4.6 to AS 1111 Snug Tightened 8.8/S High Strength Structural Bolts of Grade 8.8 to AS 1252 Snug Tightened	AS/NZS 4680	Hot-dip Galvanized (Zinc) Coatings on Fabricated Ferrous Articles		
S03	Unless noted otherwise, all M16 fasteners shall be Category 8.8/S. Standard		Region & Site Details		
000	Fixings for C100, C150, C200 and C250 Sections are M12 bolts. Standard Fixings for C300 and C350 Sections are M16 bolts. No Connection shall have less than 2 bolts.		ding roof only structure. It is assumed that cars, goods or materials roof block less than 50 percentage of the cross section exposed to		
S04	All metal cladding should comply with AS/NZS 4680 G550, AZ150 (550 MPa minimum yield stress, 150 g/m2 minimum coating mass).	grassland, with w	ons A0-5 & B1. TC2 without Shielding: Open terrain, including ell-scattered obstructions having heights generally from 1.5 m to 5	to 5	
S05	Steelwork intended to be concrete encased shall be unpainted. Encasing concrete shall be Grade N25 unless noted otherwise providing a cover	crest of a hill, ridg	•		
	adequate to suit fire rating or exposure conditions. Concrete Encasement shall be centrally reinforced with 5 mm wire to AS 4671 or 6 mm Structural Grade		$(x M_d x (M_{z,cat} x M_s x M_t))$		
	Bars to AS 4671 at 150 mm pitch.	5	0.95 x (0.91 x 1 x 1) = 49.28 m/s be been designed assuming an allowable bearing capacity of 100		
		i i oulluations llave	, been designed assuming an anowable bearing capacity (ii 100	1	

	Design Notes & Structural Members		
	Dimensions	6000 x 6000 x 3000	
	Building Class	10a	
	Design Wind Speed	49.28 m/s	
	Columns C	See Post & Footing Layout	
	Rafters R	C20019 G450	
	Purlins P	C15019 G450	
	Fascia Beam FB	C20015 G450	
	Bridging	TH22x0.40 G550	
	Footings	Cast In	
All Brackets 3.0 mm G45		3.0 mm G450	
	Technical Data	Page 21	



Standard.

S06 Unless noted otherwise, all steel shall comply with the relevant Australian

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Foundations have been designed assuming an allowable bearing capacity of 100

kPa, undrained cohesion C_u = 50 kPa. Concrete Strength = 25 MPa.

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Front View

Note: Roof has been designed to support solar panels not exceeding 20 kg/m2. Solar panels to be installed within roof areas and parallel to roof sheets.

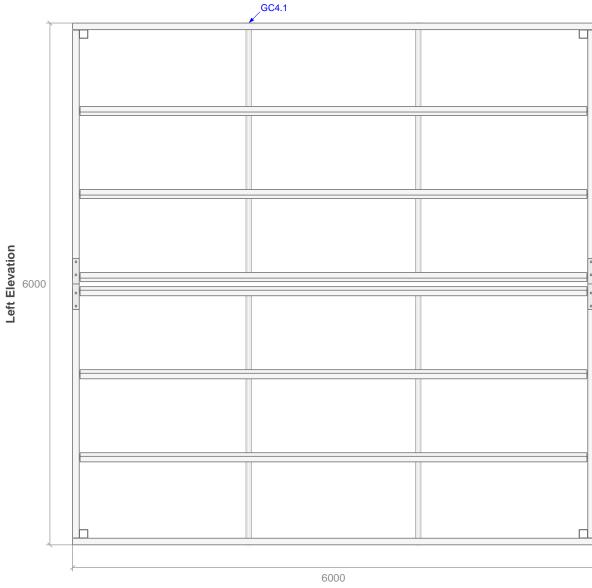


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Front Elevation



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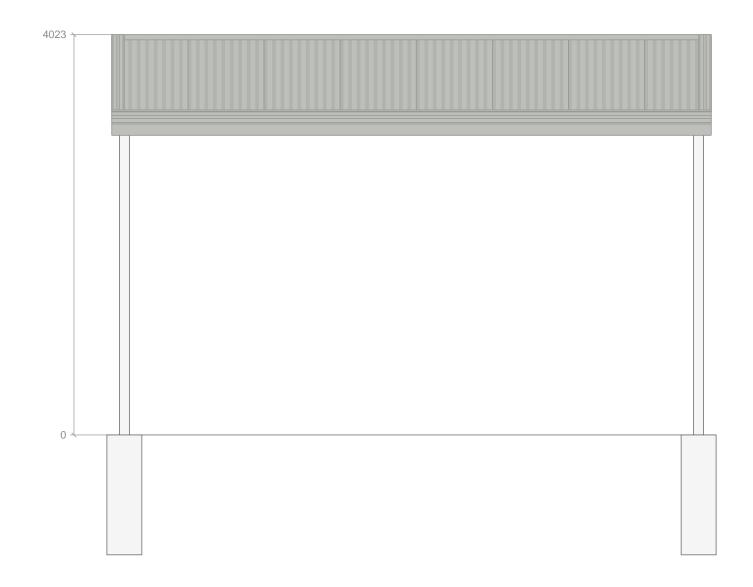
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Front View





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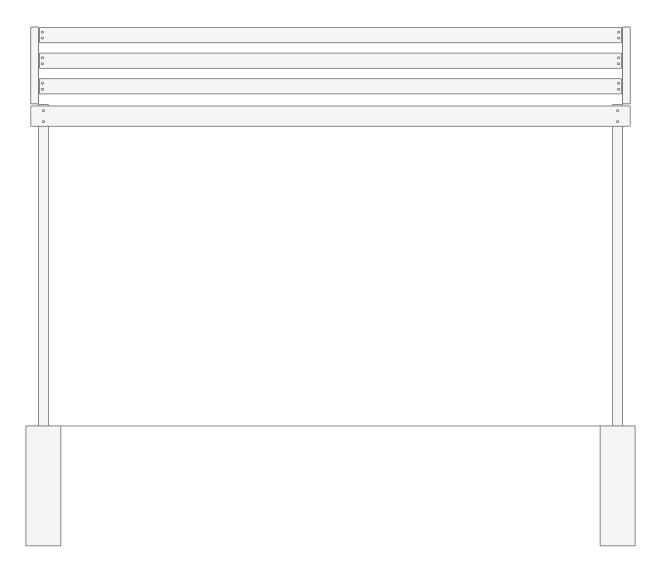
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Front Elevation

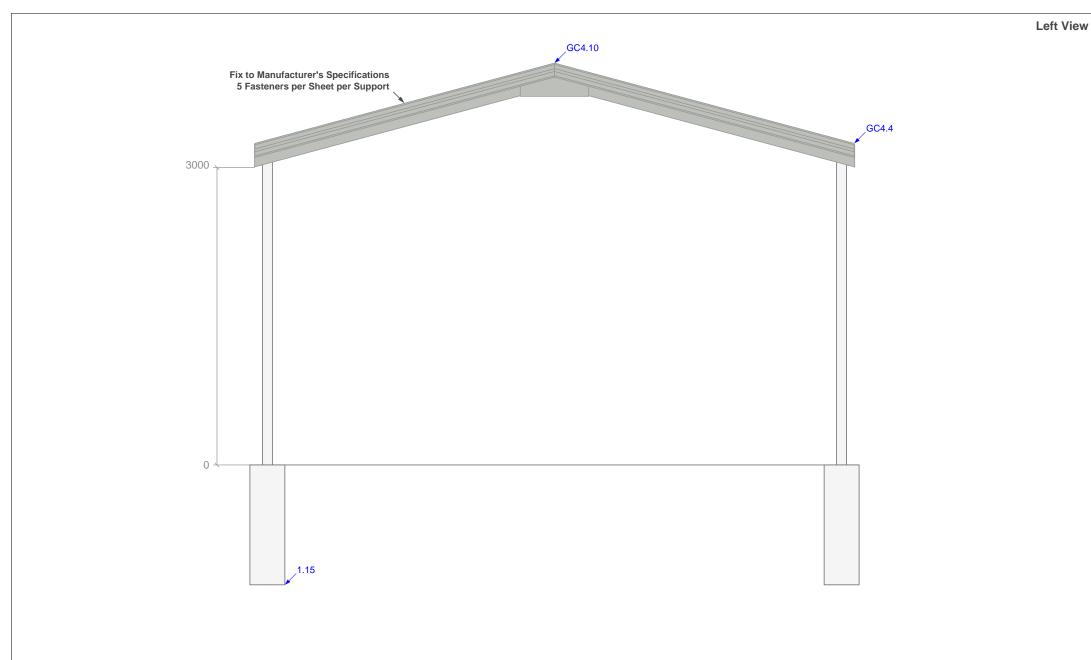




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Note: Gutters & Downpipes not shown

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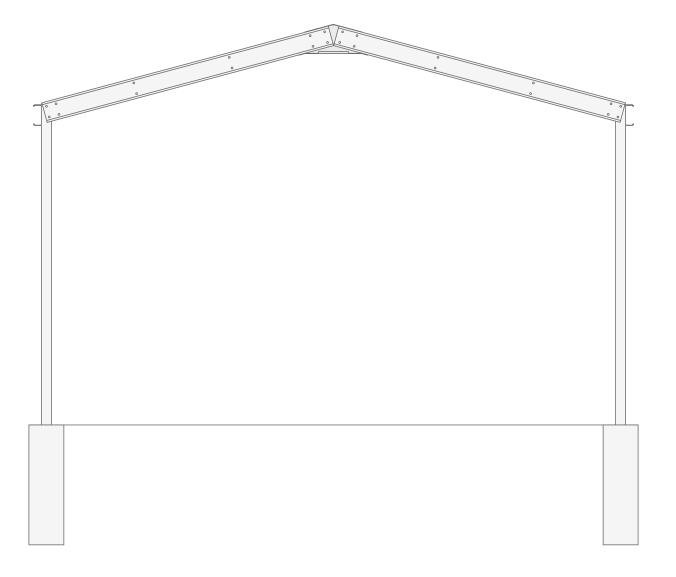
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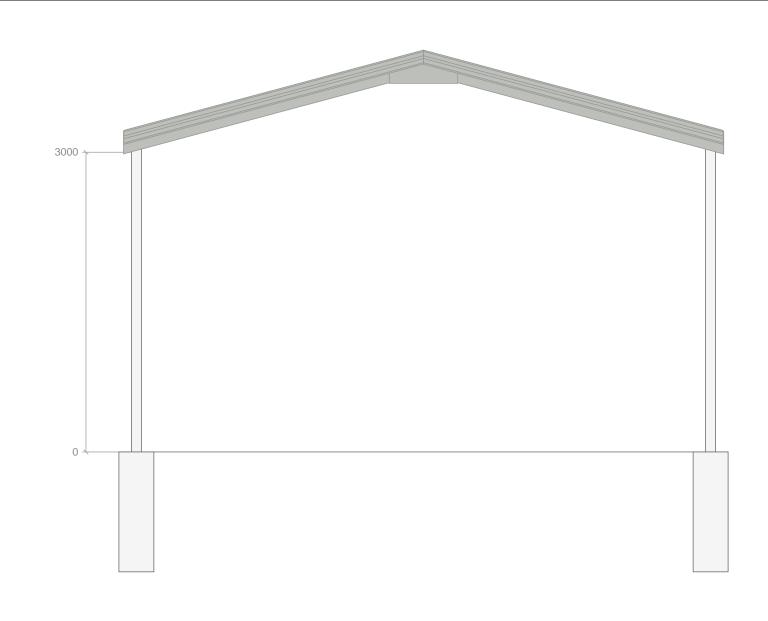
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Left Elevation





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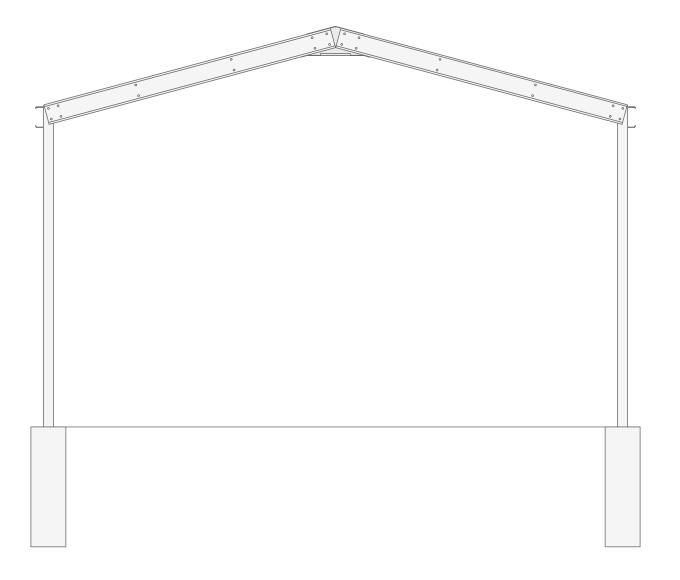




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Right View

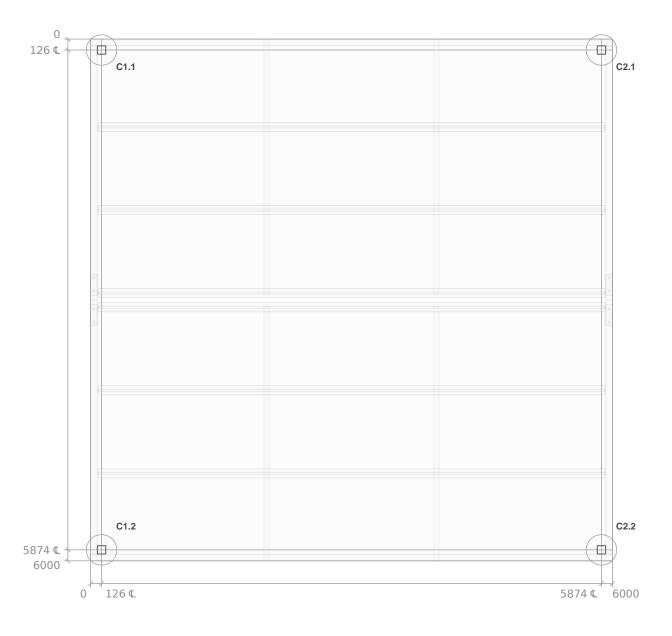






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Post & Footing Layout



Post & Footing Detail: 100x100x4 Grade C450L0 in a Ø350 x 1200mm pier

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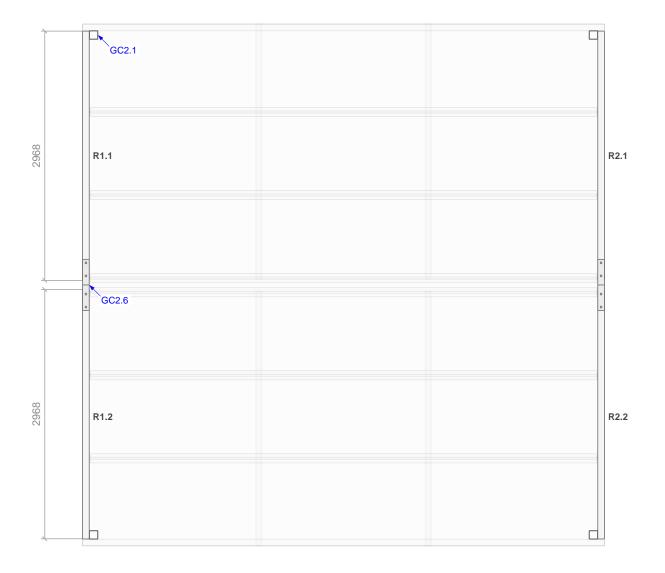
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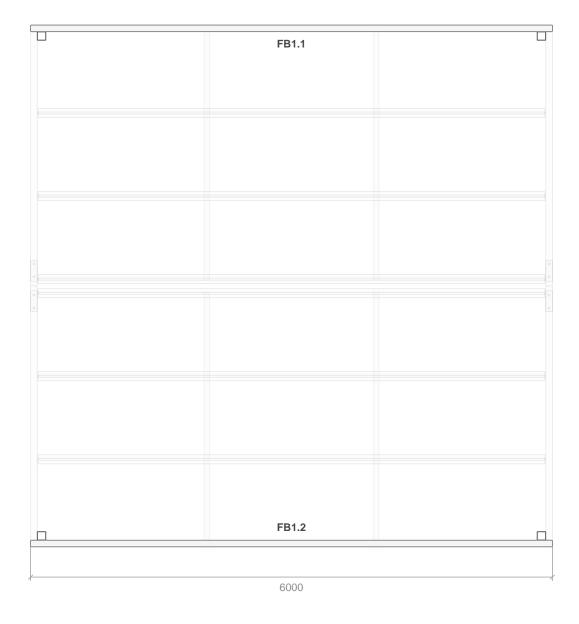
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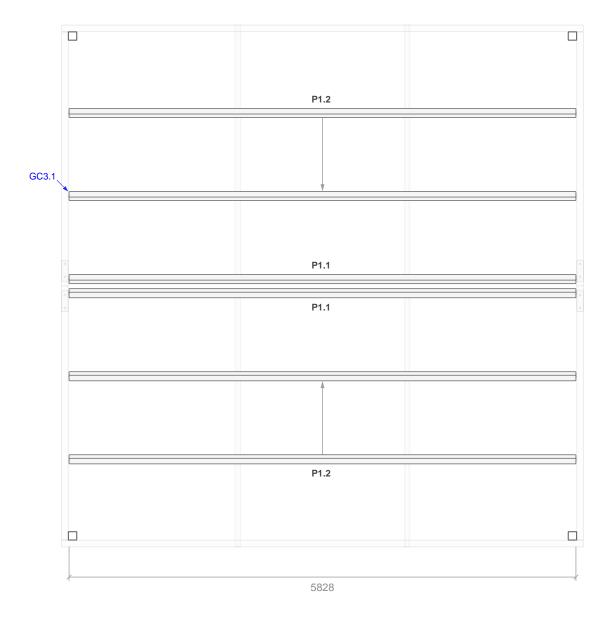
Fascia Beam Layout





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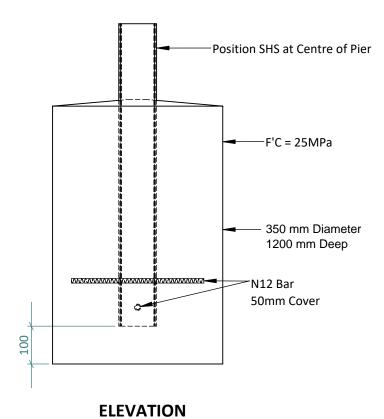


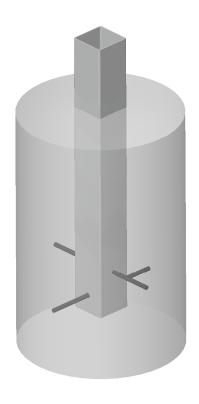


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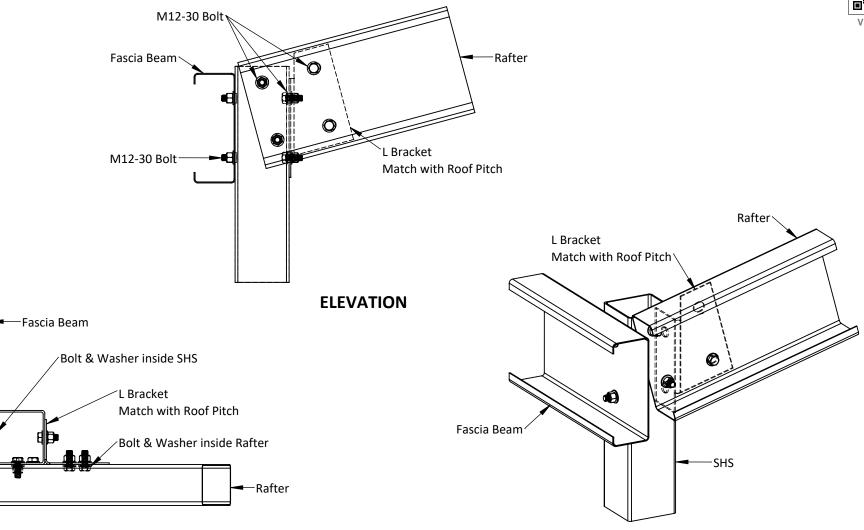
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« Detail GC2.1: Rafter Connection Detail



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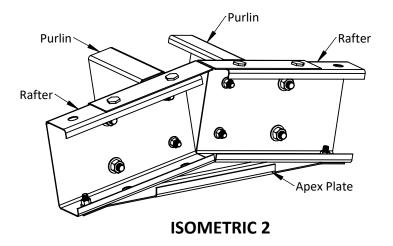
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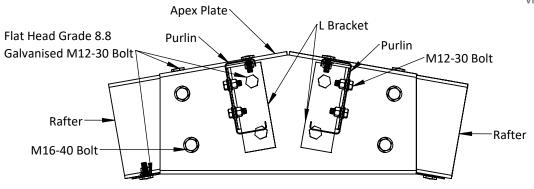
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« Detail GC2.6: Apex Plate Connection Detail

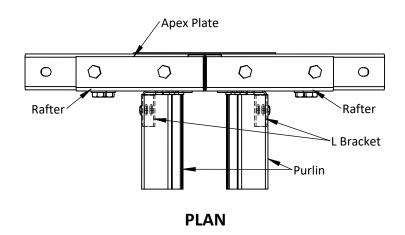


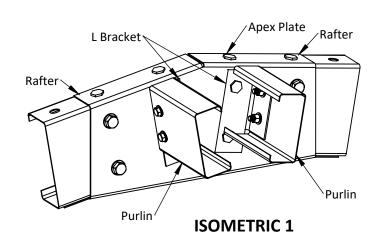
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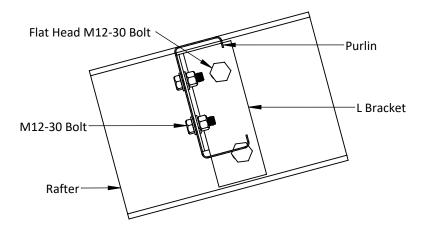


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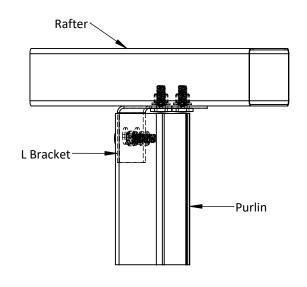
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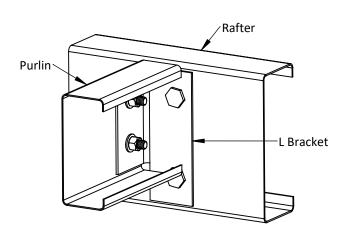


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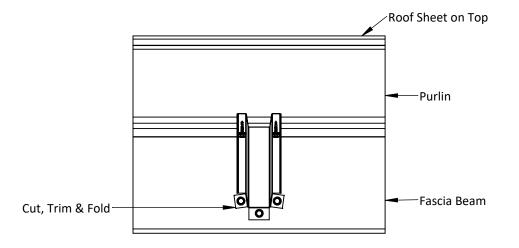


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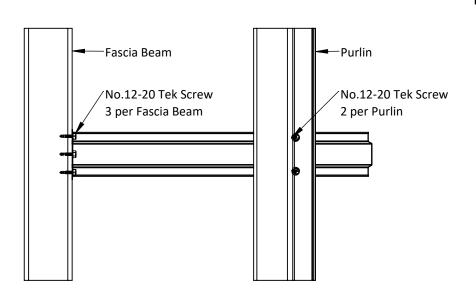
« Detail GC4.1: Purlin Bridging

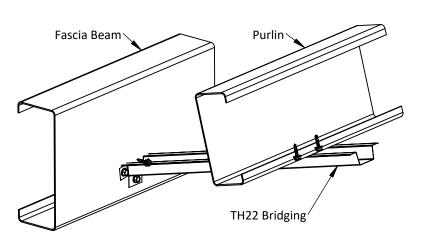


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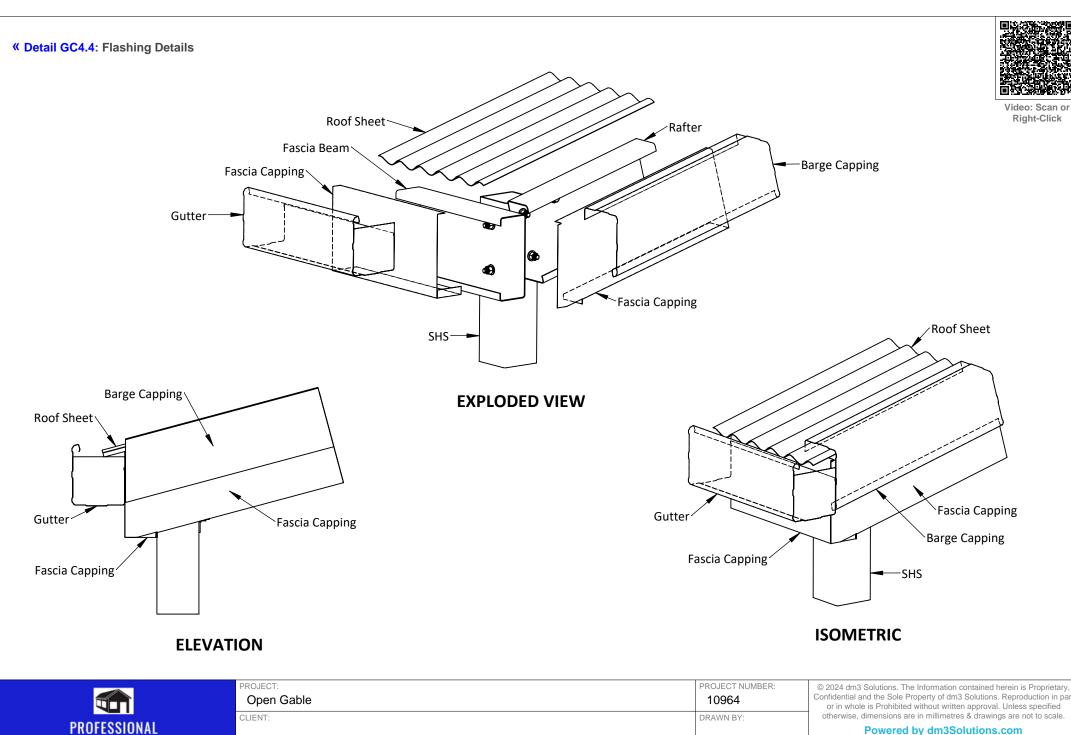
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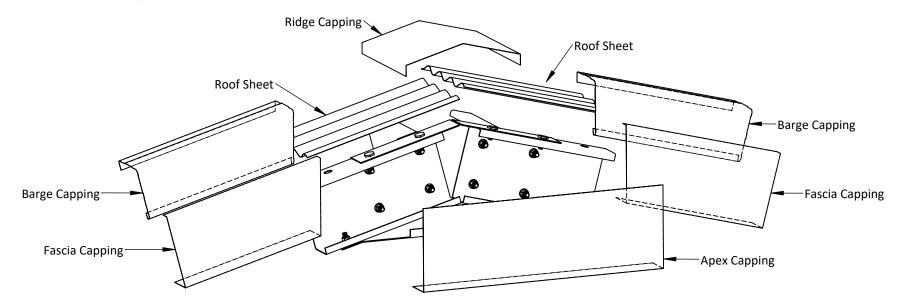
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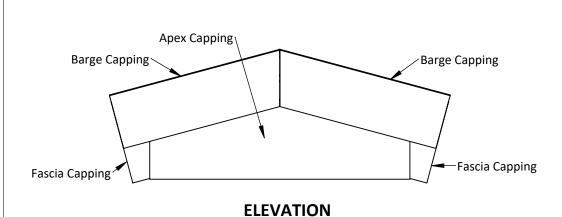


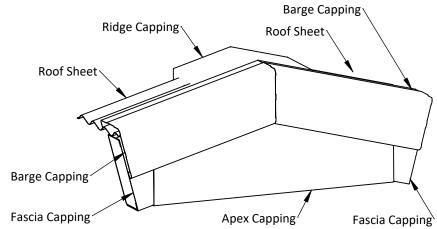


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EXPLODED VIEW





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	Technical Data		Cladding Details		
Region Terrain Category		Min Yield Stress · Grade Profile	BlueScope [®] Colorbond [®]		
Shielding No Wind Speed Requirement · AS/NZS 1170.2		Bored Piers			
V _{design}	•	Uplift V _u Shear H _u	15.123 kNm 8.487 kN 5.041 kN 350 mm diameter x 1200 mm deep		
-	1.457 kPa	Connection Calculations			
Inward	0.943 kPa max(0.735, 0.943, 0.36) 0.313 kPa max(0.167, 0.313)		2 x M12 4.6/S Bolts 2 x M12 4.6/S Bolts		
R	after Calculations	Connection Type			
Min Yield Stress · Grade · I _x Gov Span · Load Width Capacity Required Member Capacity ØM Required Member ØM Deflection Actual	11.250 kN/m · min(Inward, Outward) Source: Lysaght [®] & Stramit [®] Span Tables 11.684 kNm 14.823 kNm · L _{ex} 2883 · L _{ey} 989 · L _{ez} 989	Capacity Required Capacity 1 x M12 4.6/S Bolt	30.2 kN · 2 x M12 4.6/S Shear Capacity Web Bearing Capacity 24.883 kN · 1.5 mm C-Section 31.519 kN · 1.9 mm C-Section 39.813 kN · 2.4 mm C-Section Plate Bearing Capacity 49.766 kN · 3.0 mm Plate Web Bearing Capacity		
	Purlin Calculations	1	53.084 kN · 2.4 mm C-Section 66.355 kN · 3.0 mm C-Section		
Min Yield Stress · Grade · I _x Gov Span · Load Width Capacity Required Member Capacity Deflection Actual	1.399 kN/m 1.800 kN/m · min(Inward, Outward) Source: Lysaght [®] & Stramit [®] Span Tables	Plates Minimum · Top Bolt Minimum · Bottom Bolt	Plate Bearing Capacity 66.355 kN · 3.0 mm Plate Tear Out Capacities 51.840 kN		
Fasc	ia Beam Calculations				
Min Yield Stress · Grade · I _x Gov Span · Load Width Capacity Required Member Capacity Deflection Actual	0.700 kN/m 1.850 kN/m · min(Inward, Outward) Source: Lysaght [®] and Stramit [®] Span Tables				
	Post Calculations				
Ø M Required	450 MPa				
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