	General Notes		Steel Grades	
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	
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	
	Instructions as may be issued during the course of the Project. Any discrepancy shall be referred to the Engineer before proceeding with the work.	300	Welded Sections to AS/NZS3679.2	
G03	All Materials and Workmanship shall be in accordance with the relevant and	250	Hot Rolled Plates, Floor Plates & Slabs to AS/NZS3678	
G03	current SAA Codes and Authorities Except where varied by the Project Specifications.	250	Hollow Sections to AS1163. Circular Sections less than 165mm Outside Diameter. Sections other than the above	
G04	The Structure must be maintained in a stable condition and no part must be overloaded during construction. Temporary bracing must be designed and	G450-G550	Cold Form AS4600. Unless noted otherwise, all purlins, plates & brackets are G450.	
	provided by the contractor(s) to keep the building works and excavations	G500	Slab mesh and deformed reinforcement bars.	
	stable at all times.	G2070	AS2841. Galvanized Steel Wire Strand. Unless noted otherwise,	
G05	The Issuer of these Designs reserves the right to alter Specifications and Designs as it may see fit without prior notification or penalty.		all Cable Bracing is G2070.	
G06	The Structure has not been designed for snow loads.	Australian Standard <sup>™</sup> & Australian/New Zealand Standard <sup>™</sup> Adopt		
G07	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	
	100 kPa.	AS/NZS 1170.1	Structural Design Actions - Part 1: Permanent, Imposed & Other	
F02	The Owner is advised to obtain a Geotechnical Report and/or Site Foundation Report to confirm F01 above.		Actions	
F03	Footings shall be located centrally under walls and columns unless noted	AS/NZS 1170.2	Structural Design Actions - Part 2: Structural Design, Wind Action	
1 03	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	
	Found Footings in uncontrolled fill.	AS/NZS 1554	Structural Steel Welding	
F05	Engineer to be contacted if Foundation Conditions vary from F01 above.	AS 4100	Steel Structures	
	Steelwork Notes	AS/NZS 4600	Cold-formed Steel Structures	
004	All Workmanship and Materials shall be in accordance with AS 4100, AS/NZ	AS/NZS 4671	Steel Reinforcing Materials	
S01		AS/NZS 4680	Hot-dip Galvanized (Zinc) Coatings on Fabricated Ferrous Articles	

S01	All Workmanship and Materials shall be in accordance with AS 4100, AS/NZ	
	4600 and AS 1554 except where varied by the Project documentation.	

- S02 Bolting Categories are identified on the Structural Drawings as follows: 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
- S03 Unless noted otherwise, all M16 fasteners shall be Category 8.8/S. Standard 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.
- S04 All metal cladding should comply with AS/NZS 4680 G550, AZ150 (550 MPa minimum yield stress, 150 g/m2 minimum coating mass).
- S05 Steelwork intended to be concrete encased shall be unpainted. Encasing concrete shall be Grade N25 unless noted otherwise providing a cover 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 Bars to AS 4671 at 150 mm pitch.
- Unless noted otherwise, all steel shall comply with the relevant Australian Standard.

G450-G550	Cold Form AS4600. Unless noted otherwise, all purlins, plates & brackets are G450.		
G500 Slab mesh and deformed reinforcement bars.			
G2070	AS2841. Galvanized Steel Wire Strand. Unless noted otherwise, all Cable Bracing is G2070.		
Australian	Standard <sup>™</sup> & Australian/New Zealand Standard <sup>™</sup> Adopted		
AS 1111.1	ISO Metric Hexagon Bolts and Screws – Product Grade C Part 1: Bolts		
AS/NZS 1163	Cold-formed Structural Steel Hollow Sections		
AS/NZS 1170.0	Structural Design Actions - Part 0: General Principles		
AS/NZS 1170.1	Structural Design Actions - Part 1: Permanent, Imposed & Other Actions		
AS/NZS 1170.2	Structural Design Actions - Part 2: Structural Design, Wind Actions		
AS/NZS 1170.4	Structural Design Actions - Part 4: Earthquake Actions in Australia		
AS 1252	AS 1252 Structural Assemblies		
AS/NZS 1554	Structural Steel Welding		
AS 4100	Steel Structures		
AS/NZS 4600	Cold-formed Steel Structures		
AS/NZS 4671	Steel Reinforcing Materials		
AS/NZS 4680	Hot-dip Galvanized (Zinc) Coatings on Fabricated Ferrous Articles		
Region & Site Details			
his is a freestanding roof only structure. It is assumed that cars, goods or materials			

This is a freestanding roof only structure. It is assumed that cars, goods or materials stored under the roof block less than 50 percentage of the cross section exposed to

Suitable for Regions A1-5 & B1. TC2.5 without Shielding: Terrain with some trees or isolated obstructions, terrain in developing outer urban areas with scattered houses, or large acreage developments with more than two and less than 10 buildings per hectare. The site is not on the slope or crest of a hill, ridge or escarpment.

 $V_{design} = V_R \times M_c \times M_d \times (M_{z,Cat} \times M_s \times M_t)$ 

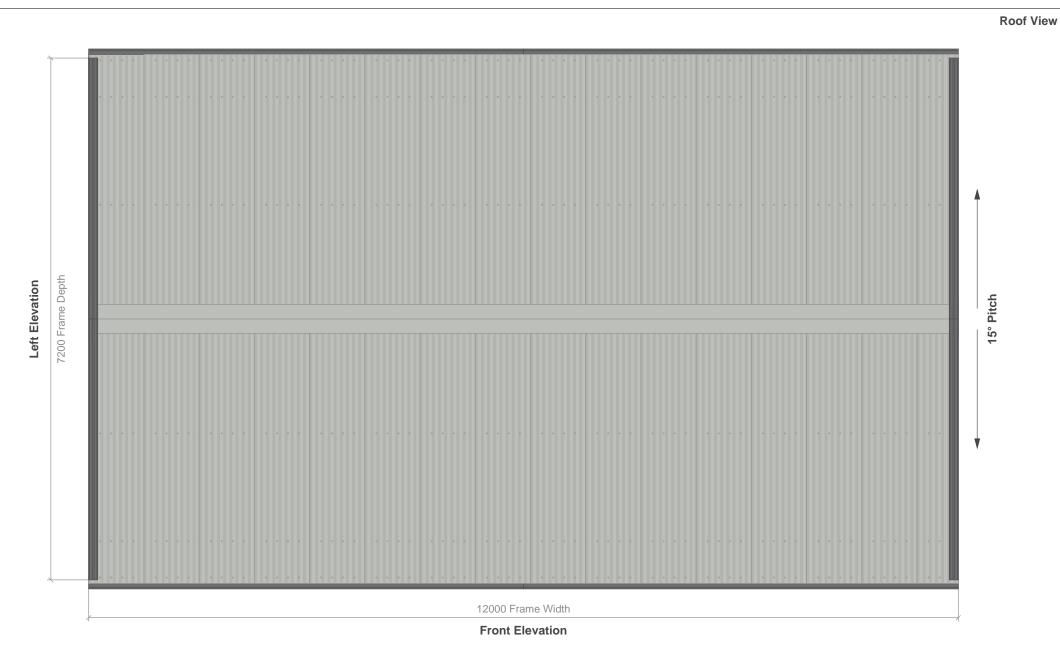
 $V_{design} = 57 \times 1 \times 0.95 \times (0.87 \times 1 \times 1) = 47.11 \text{ m/s}$ 

Foundations have been designed assuming an allowable bearing capacity of 100 kPa, undrained cohesion C<sub>u</sub> = 50 kPa. Concrete Strength = 25 MPa.

	Design Notes & Structural Members			
	Dimensions	7200 x 12000 x 2400		
	Building Class	10a		
	Design Wind Speed	47.11 m/s		
	Columns C	See Post & Footing Layout		
	Rafters R	C15015 G450		
	Purlins P	C15012 G500		
	Fascia Beam FB	C15012 G500		
	Bridging	TH22x0.40 G550		
	Footings	Cast In		
	All Brackets	3.0 mm G450		
,	Technical Data	Page 29		



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Note: Roof structure is non foot trafficable.



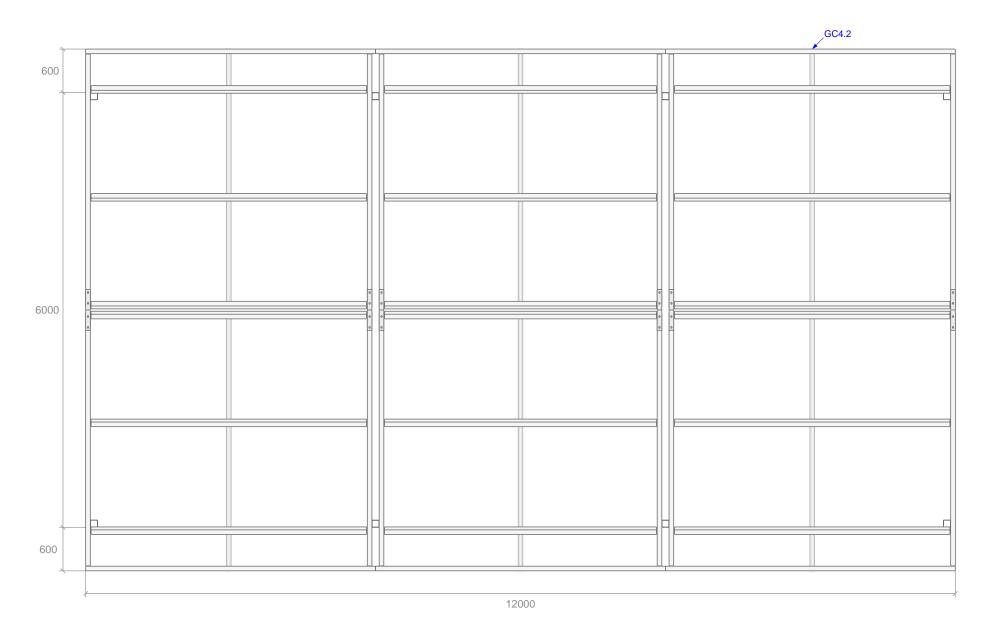
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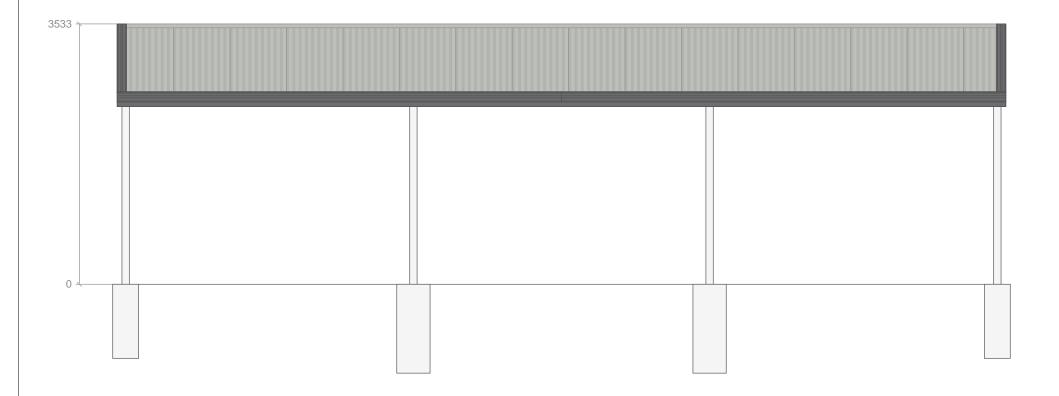
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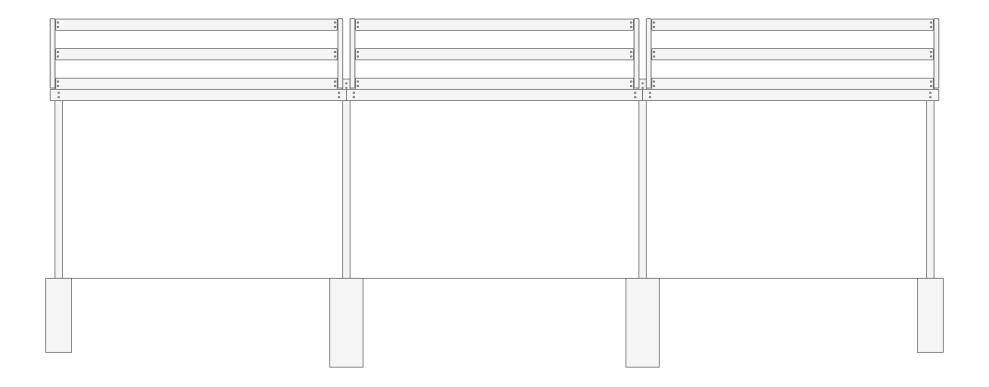
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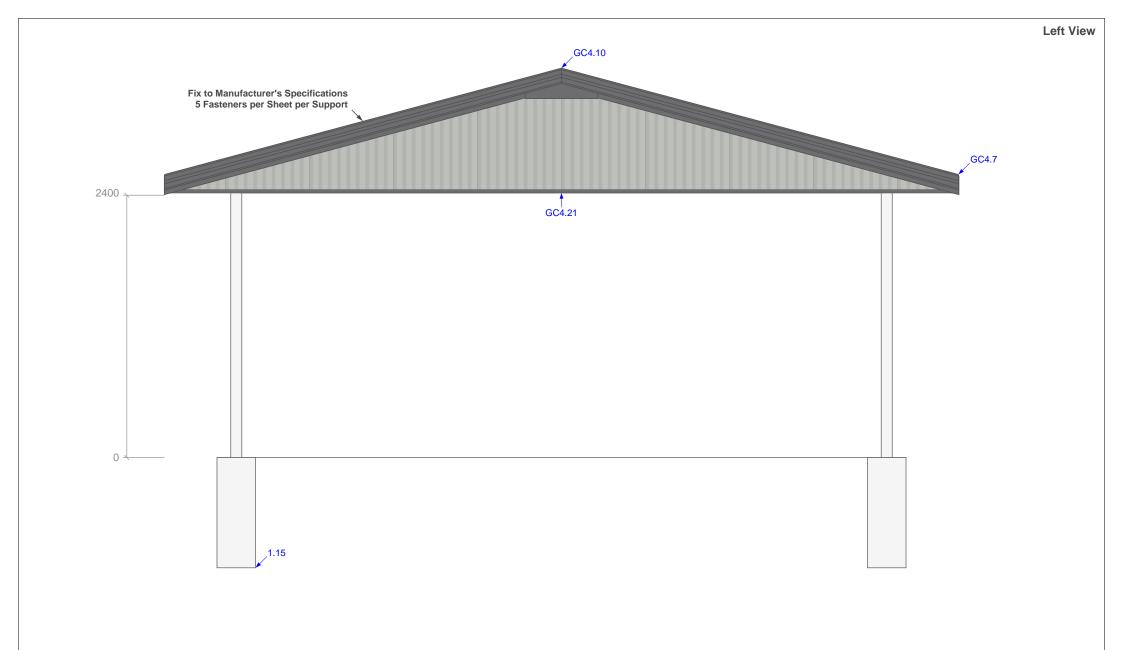
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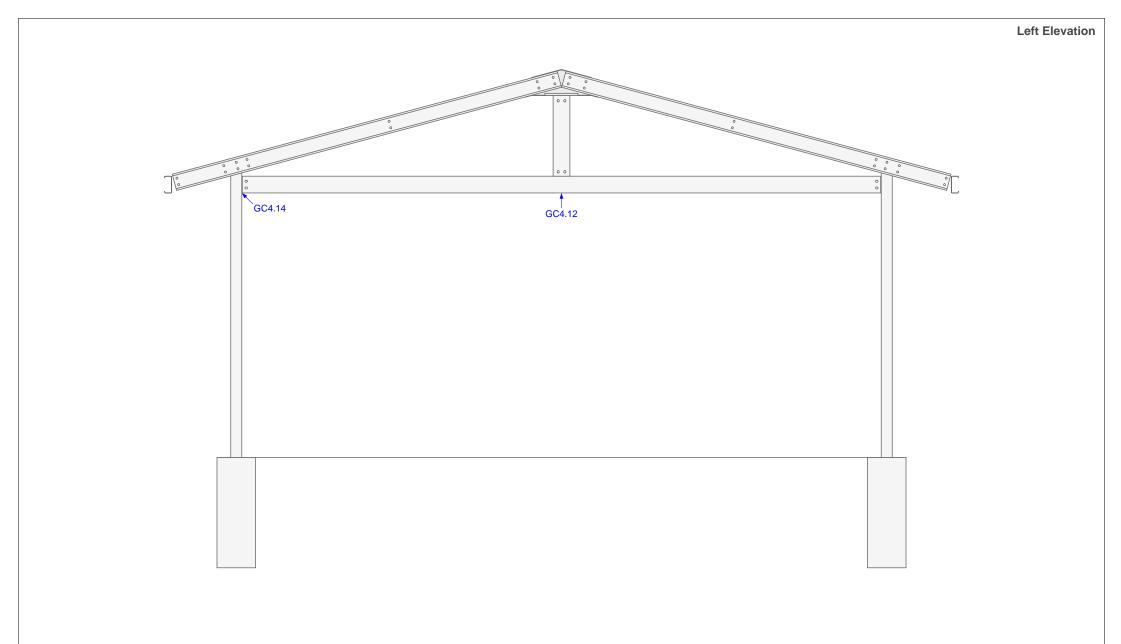
Note: Gutters & Downpipes not shown



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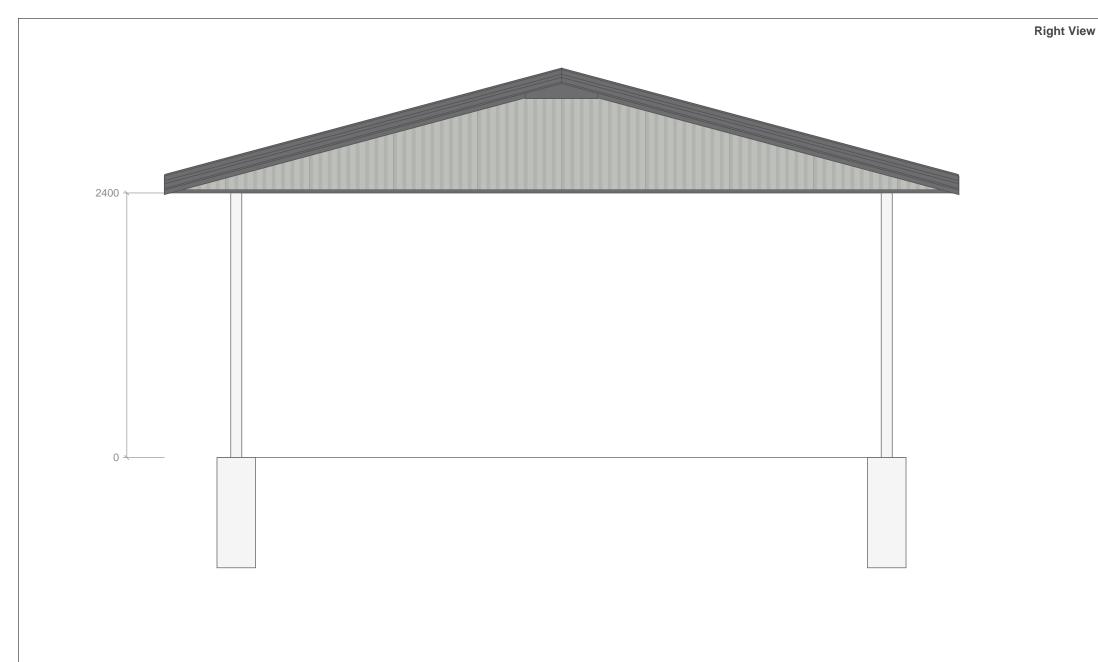
Left Gable Infill Members: C15015 Beam & C15012 Mullion



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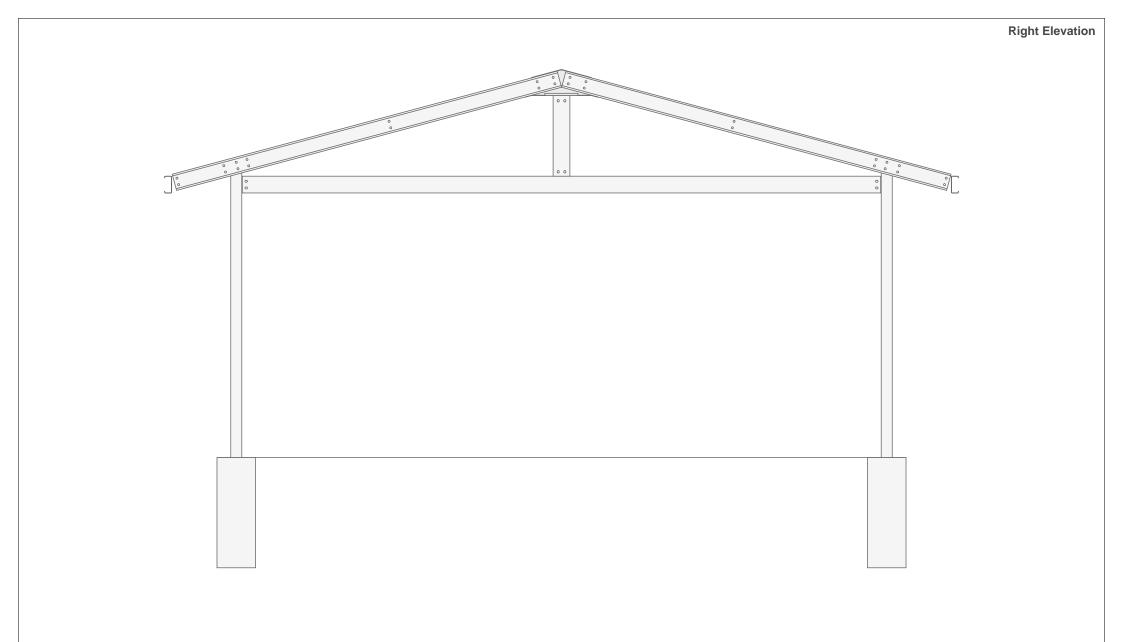
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Right Gable Infill Members: C15015 Beam & C15012 Mullion



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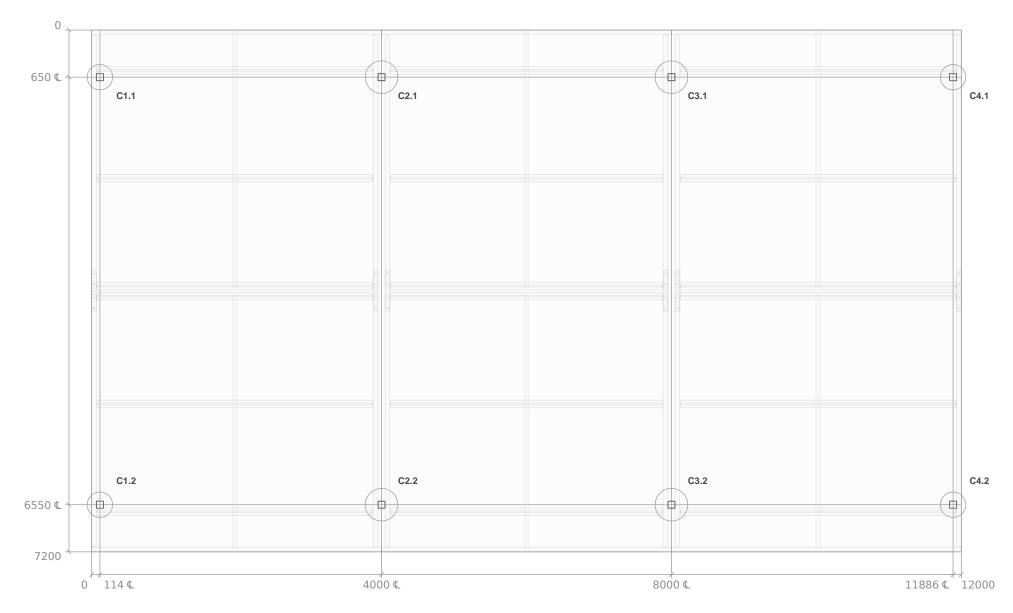
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### Post & Footing Layout



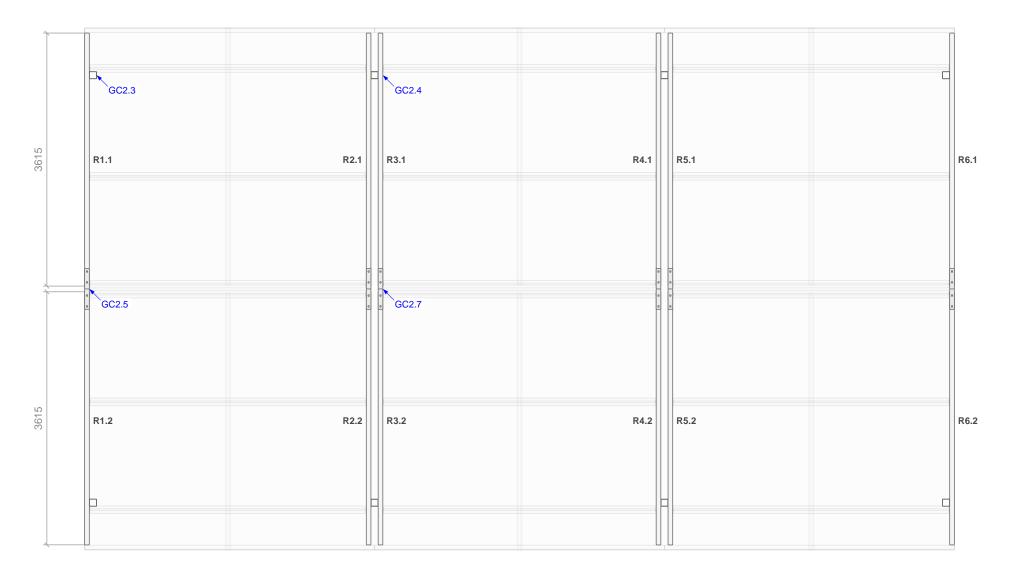


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### Rafter Layout



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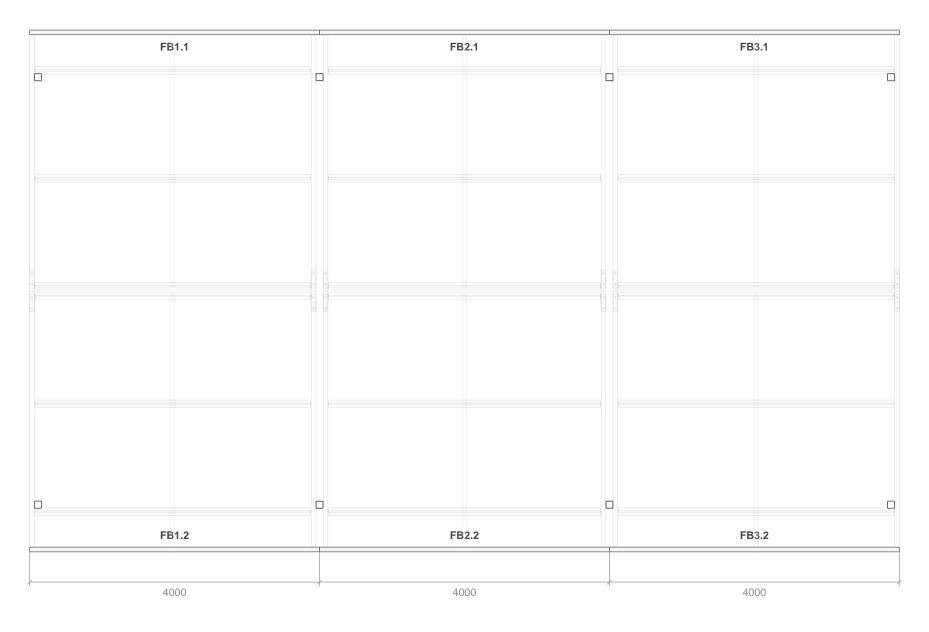
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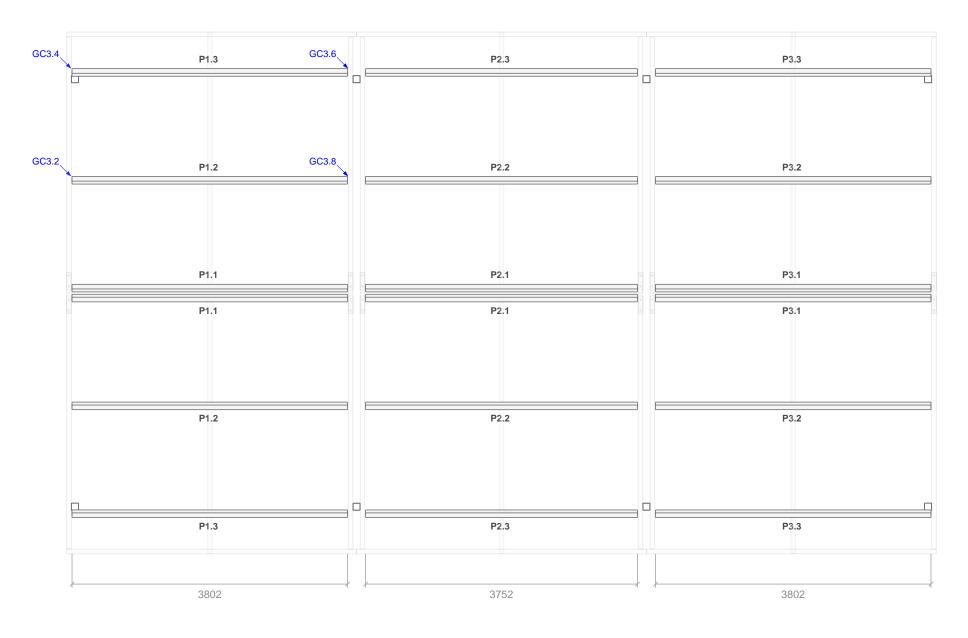
### Fascia Beam Layout





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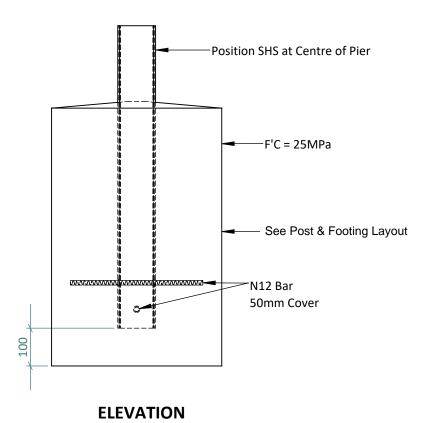


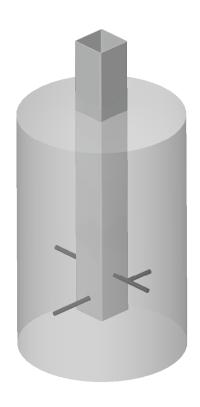
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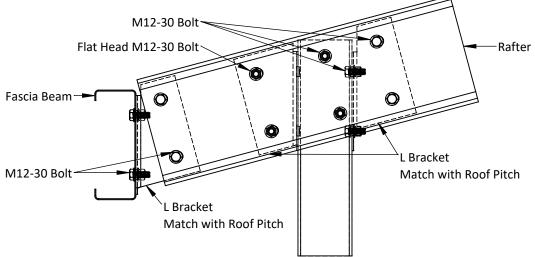
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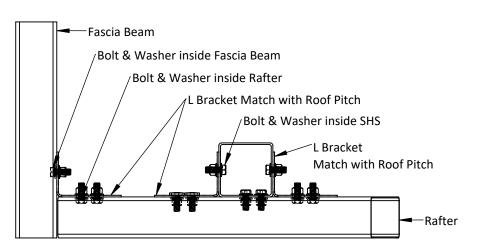
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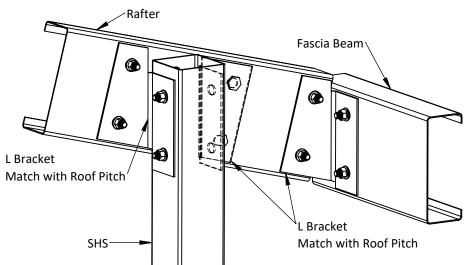


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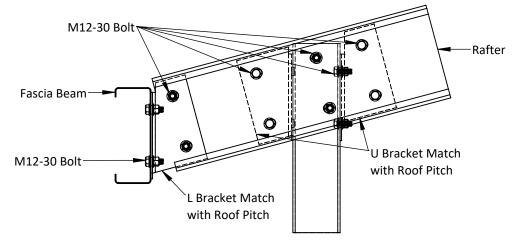
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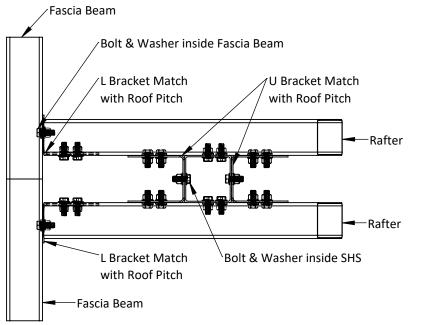
### **« Detail GC2.4: Back to Back Rafter Connection Detail**

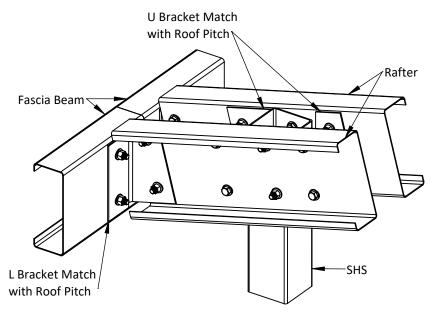


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**ELEVATION** 





## PLAN ISOMETRIC



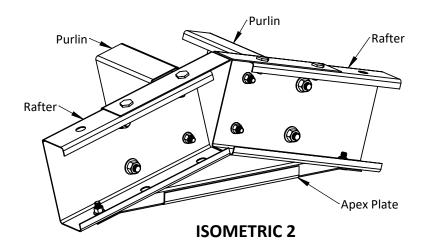
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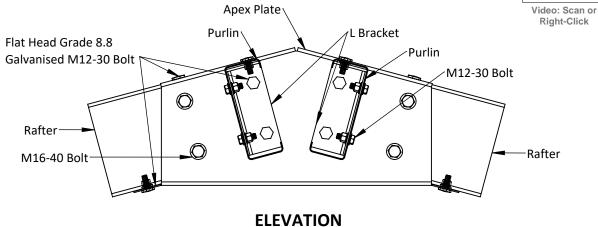
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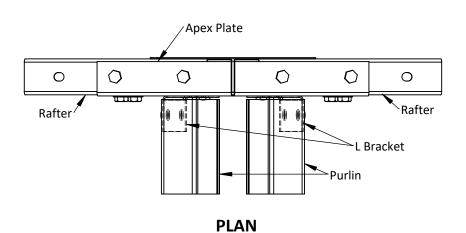
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### **« Detail GC2.5: Apex Plate Connection Detail**

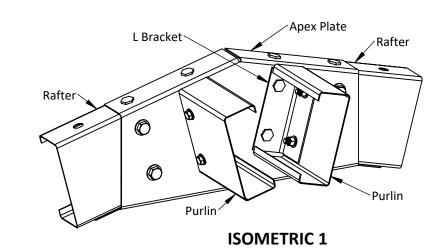








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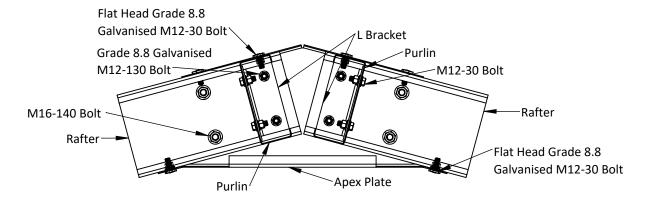
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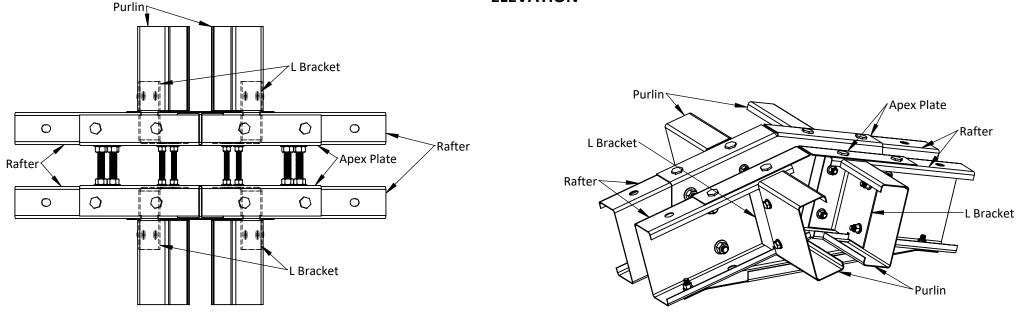
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### **ELEVATION**



**PLAN** 

**ISOMETRIC** 

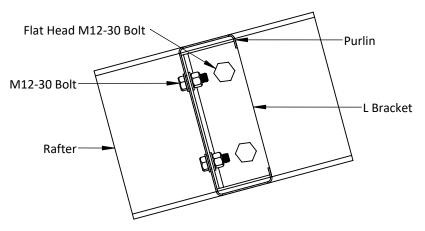


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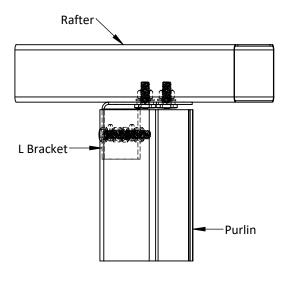
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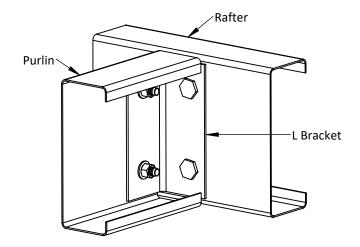


Right-Click



## **ELEVATION**

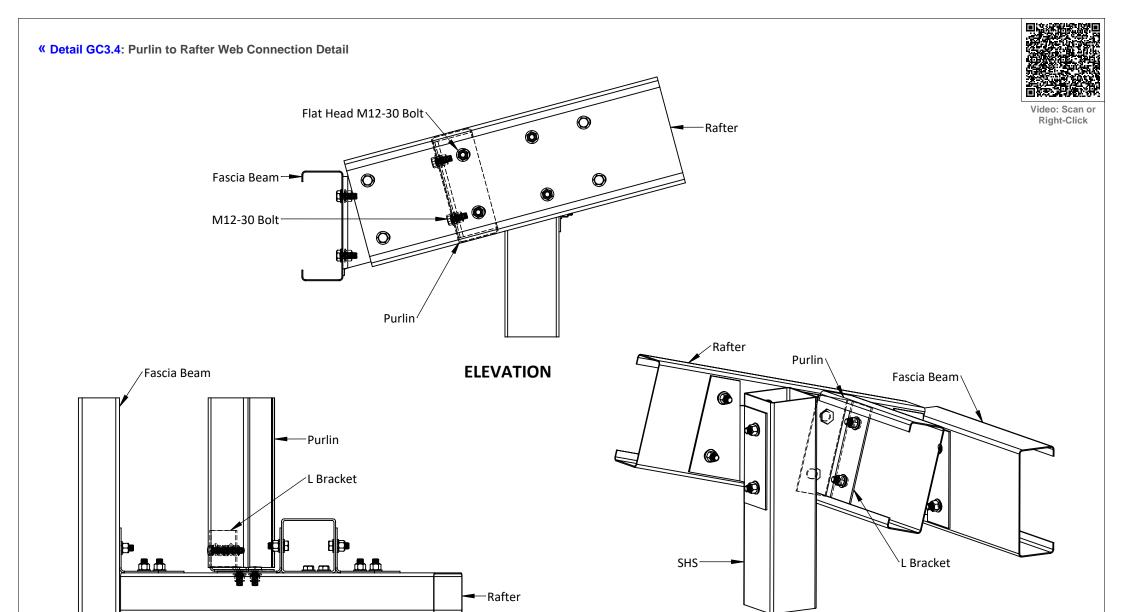




**ISOMETRIC PLAN** 



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	Example 7200 x 12000 x 2400 Region B1 Gable Carport	6458	Confidential and the Sole Property of dm3 Solutions. Reproduction in or in whole is Prohibited without written approval. Unless specified			oval. Unless specified
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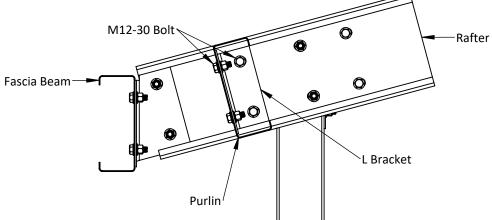
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1	A4	NTS	20 of 29

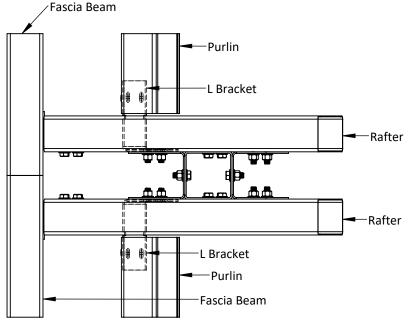
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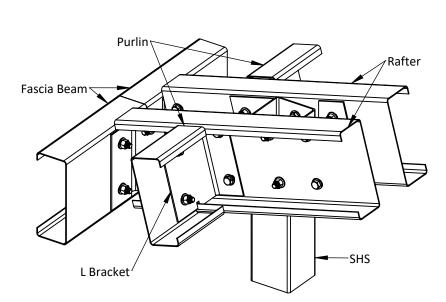


Video: Scan or Right-Click



**ELEVATION** 





# PLAN ISOMETRIC



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-Purlin

-L Bracket

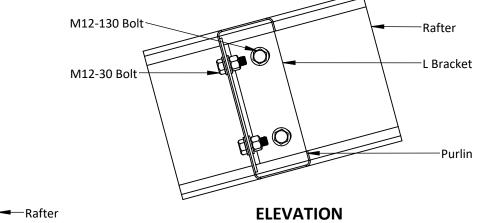
-L Bracket

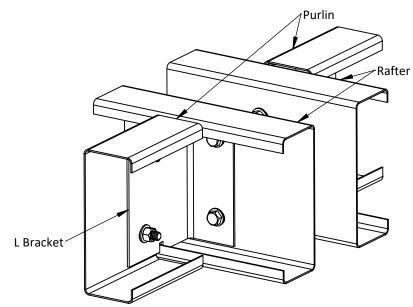
-Purlin

**−**Rafter



Video: Scan o Right-Click





**ISOMETRIC** 

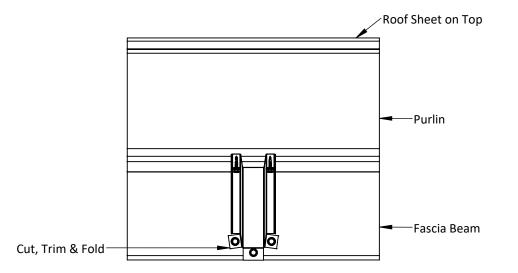


**PLAN** 

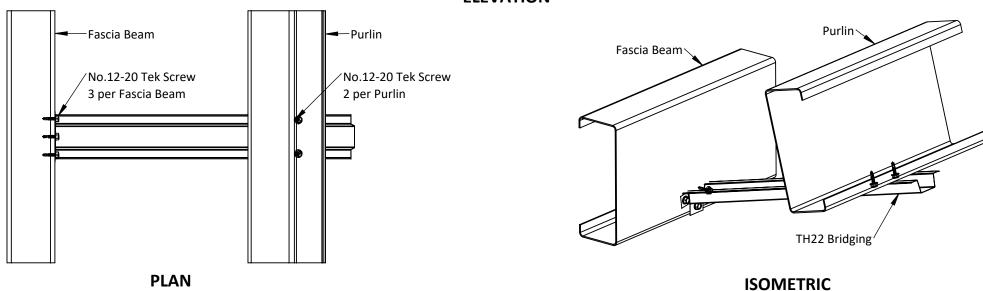
PROJECT: Example 7200 x 12000 x 2400 Region B1 Gable Carport	PROJECT NUMBER: 6458	© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale.  Powered by dm3Solutions.com			ions. Reproduction in part
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ADDRESS:  Example Street, Suburb NSW 2222	DRAWN DATE: 2022-09-28	ISSUE:	SIZE:	SCALE: NTS	DRAWING NUMBER 22 of 29



Video: Scan or Right-Click

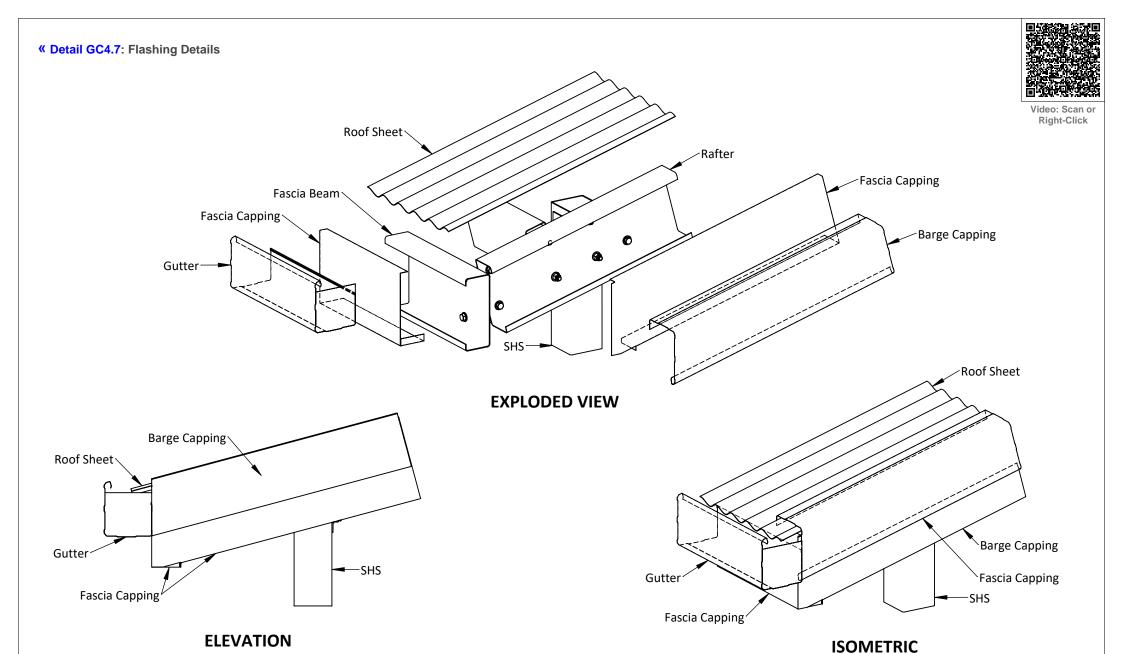


## **ELEVATION**





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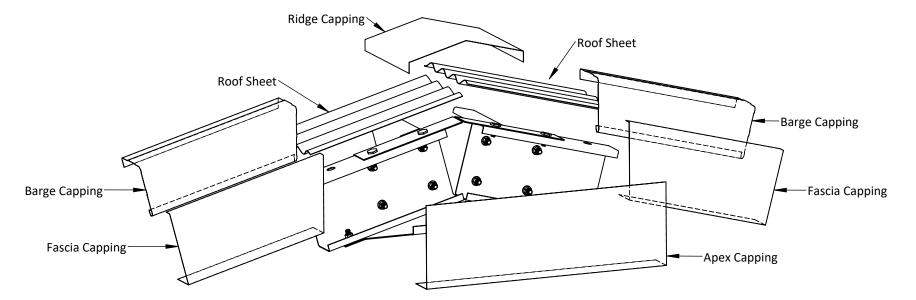


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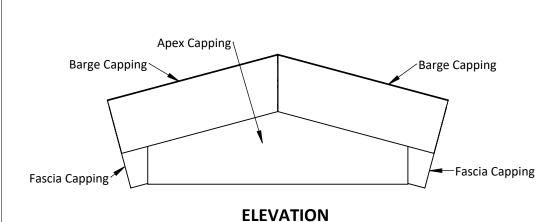


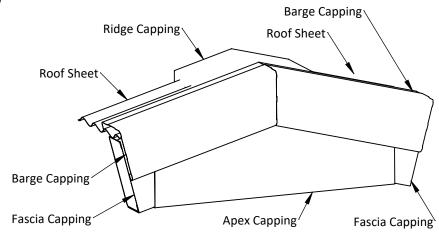


Video: Scan or Right-Click



### **EXPLODED VIEW**





## **ISOMETRIC**

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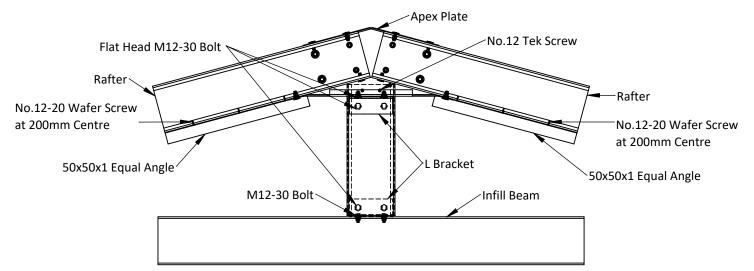
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A4	NTS	25 of 29

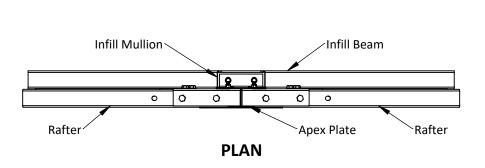
#### **« Detail GC4.12: Infill Mullion Connection Detail**



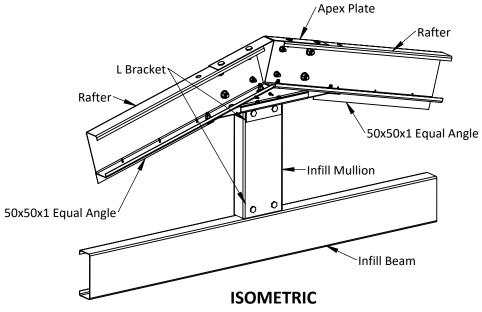
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Example Street, Suburb NSW 2222

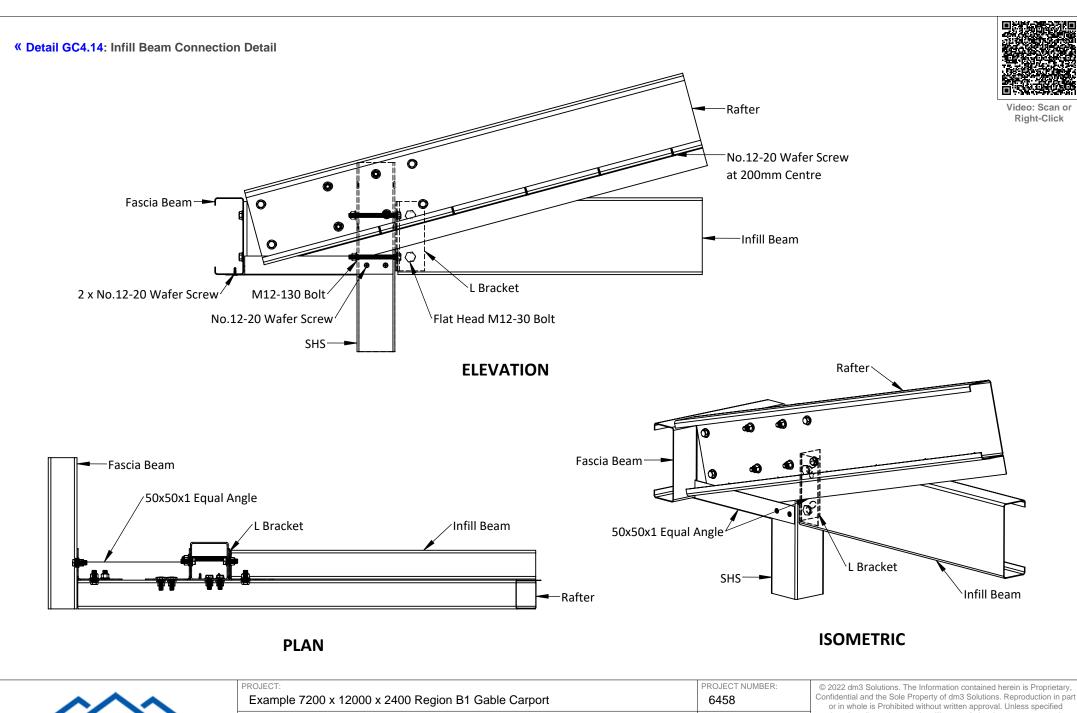


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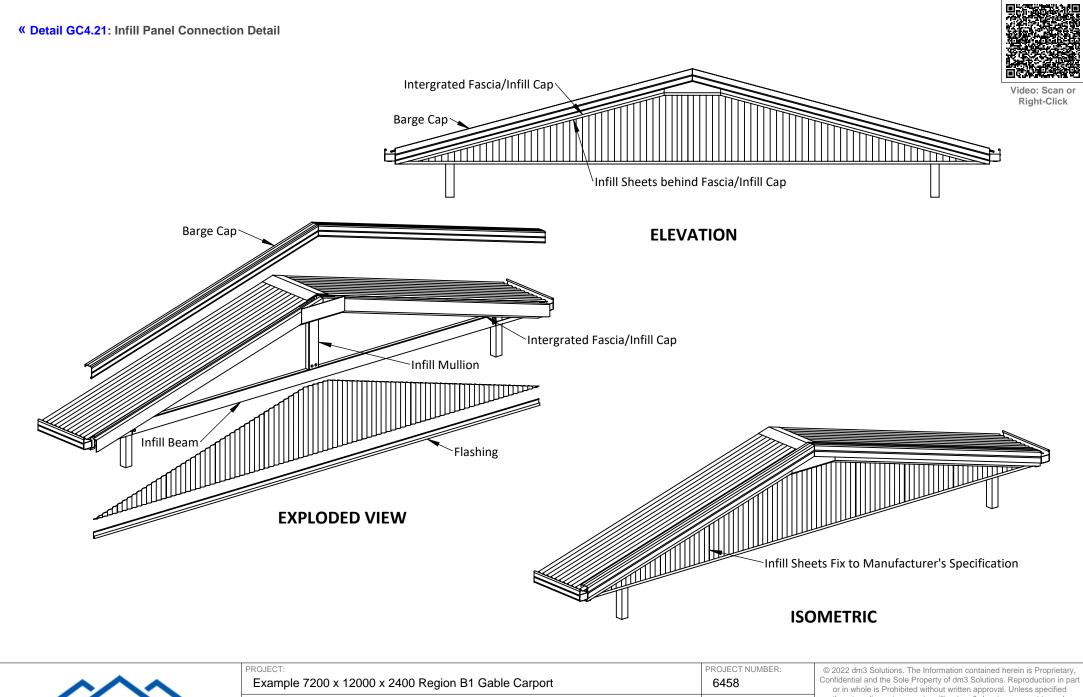
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	Technical Data	Profile	CustomOrb®			
Region	B1 · Regional Wind Speed 57 m/s		0.42 mm			
Terrain Category		End Posts Bored Piers				
Shielding	No		7.546 kNm			
$V_{design}$	47.11 m/s	u u	4.702 kN			
	1.332 kPa	Shear · H.				
	<b>0.653 kPa</b> · max(0.495, 0.653, 0.12) <b>0.443 kPa</b> · max(0.31, 0.443)	Dimensions	350 mm diameter x 1000 mm deep			
		Internal Posts Bored Piers				
	after Calculations	Ø <b>M</b> · M <sub>u</sub>	15.216 kNm			
	<b>C15015</b> with 2 rows of C15012 Bridging <b>450 MPa · G450 · 1.61 x 10</b> <sup>6</sup> mm <sup>4</sup> · Min =		9.403 kN			
Mili Held Stress · Grade · I <sub>x</sub>	Minimum	<b>Shear</b> · H <sub>u</sub>				
Gov Span · Load Width	<b>5900 mm ⋅ 2000 mm ⋅</b> Gov = Governing	Dimensions	450 mm diameter x 1200 mm deep			
<b>Capacity</b> · Req	1.306 kN/m · Req = Required	Con	nection Calculations			
Member Capacity	5.450 kN/m · min(Inward, Outward)	Connections · Rafters	2 x M12 4.6/S Bolts			
	Source: Lysaght <sup>®</sup> & Stramit <sup>®</sup> Span Tables	Purlins	2 x M12 4.6/S Bolts			
	5.683 kNm	Connection Type				
	<b>6.926 kNm</b> · L <sub>ex</sub> 2975 · L <sub>ey</sub> 1541 · L <sub>ez</sub> 1541 <b>9.8 mm</b> · 19.7 mm Permitted		2 x M12 4.6/S Bolts			
		Capacity Req	<b>3.853 kN 30.2 kN</b> · 2 x M12 4.6/S Shear Capacity			
	Purlin Calculations		Web Bearing Capacity			
	C15012 with 1 row of Bridging 500 MPa · G500 · 1.29 x 10 <sup>6</sup> mm <sup>4</sup>	•	<b>24.883 kN</b> · 1.5 mm Gauge C-Section			
	3742 mm · 1541 mm		<b>31.519 kN</b> · 1.9 mm Gauge C-Section			
Capacity · Req			<b>39.813 kN</b> · 2.4 mm Gauge C-Section			
	2.450 kN/m · min(Inward, Outward)		Plate Bearing Capacity			
	Source: Lysaght <sup>®</sup> & Stramit <sup>®</sup> Span Tables	1 × M16 9 9/5 Polt	49.766 kN · 3.0 mm Gauge Plate Web Bearing Capacity			
Deflection	1.5 mm · 12.5 mm Permitted	1 X 1410 0.0/3 BOIL	<b>53.084 kN</b> · 2.4 mm Gauge C-Section			
Fasc	ia Beam Calculations		<b>66.355 kN</b> · 3.0 mm Gauge C-Section			
	C15012 with 1 row of Bridging		Plate Bearing Capacity			
	500 MPa · G500 · 1.29 x 10 <sup>6</sup> mm <sup>4</sup>		<b>66.355 kN</b> · 3.0 mm Gauge Plate			
Gov Span · Load Width			Tear Out Capacities			
Capacity · Req	<b>0.294 kN/m 2.450 kN/m</b> · min(Inward, Outward)	Minimum · Top Bolt Minimum · Bottom Bolt				
меттрег сарасіту	Source: Lysaght <sup>®</sup> and Stramit <sup>®</sup> Span Tables	Millimani - Bottoni Boit	77.700 KN			
Deflection	<b>0.3 mm</b> · 12.7 mm Permitted					
1	Post Calculations					
Base Connection						
Min Yield Stress	450 MPa					
<b>Uplift</b> · End Post · Req						
	<b>9.403 kN</b> · Int = Internal					
	3.144 kN · RF = Raking Force					
Int Post · Req Ø <b>M</b> · End Post · Req						
	7.630 kNm · 100x100x2					
ØI•I	Source: OneSteel® DuraGal® Hollow Sections					
Int Post · Req	15.216 kNm					
ØM	21.000 kNm · 100x100x4					
	Source: OneSteel® DuraGal® Hollow Sections					
	Cladding Details					
	BlueScope® Colorbond®					
Min Yield Stress · Grade	550 MPa · G550					
	PROJECT:			PF		



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