	General Notes		Steel Grades	
G01	The Design and Details shown in these Drawings are applicable to this Project	300 PLUS	Universal Beams & Columns, Parallel Flange Channels, Large	Building (
	only.		Angles to AS/NZS3679.1	Design Wind S
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	Colu
	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	Ra
000		250	Hot Rolled Plates, Floor Plates & Slabs to AS/NZS3678	Mu
G03	All Materials and Workmanship shall be in accordance with the relevant and 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	Eave P
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.	Brid
	provided by the contractor(s) to keep the building works and excavations stable at all times.	G500	Slab mesh and deformed reinforcement bars.	Fly Bra
G05		G2070	AS2841. Galvanized Steel Wire Strand. Unless noted otherwise,	Bra
	Designs as it may see fit without prior notification or penalty.		all Cable Bracing is G2070.	Roller Door Ja
G06	The Structure has not been designed for snow loads.	Australian	Roller Door He	
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		Plates & Bra
	Foundation Notes	AS/NZS 1163	Cold-formed Structural Steel Hollow Sections	Technical
F01	Foundations have been designed assuming an allowable bearing capacity of 100 kPa.	AS/NZS 1170.0	Structural Design Actions - Part 0: General Principles	
F02	The Owner is advised to obtain a Geotechnical Report and/or Site Foundation Report to confirm F01 above.	AS/NZS 1170.1	Structural Design Actions - Part 1: Permanent, Imposed & Other Actions	
F03	•	AS/NZS 1170.2	Structural Design Actions - Part 2: Structural Design, Wind Actions	
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	
S01	All Workmanship and Materials shall be in accordance with AS 4100, AS/NZ	AS/NZS 4671	Steel Reinforcing Materials	
000	4600 and AS 1554 except where varied by the Project documentation.	AS/NZS 4680	Hot-dip Galvanized (Zinc) Coatings on Fabricated Ferrous Articles	
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.	Suitable for Regions A1-5 & B1. TC2.5 without Shielding: Terrain with a few trees or isolated obstructions. This category is intermediate between TC2 and TC3 and represents the terrain in developing outer urban areas with scattered houses, or large acreage developments with fewer than ten buildings per hectare.		
S04	All metal cladding should comply with AS/NZS 4680 G550, AZ150 (550 MPa minimum yield stress, 150 g/m2 minimum coating mass).	$V_{\text{design}} = V_R \times M_c \times M_d \times (M_{z,\text{Cat}} \times M_s \times M_t) \\ V_{\text{design}} = 57 \times 1 \times 0.95 \times (0.87 \times 1 \times 1) = 47.11 \text{ m/s} \\ \textbf{Site Description} : \text{Typical farmland or developing outer suburban areas. The building has no protection from wind in the immediate area. The site is not on the slope or crest of a hill, ridge or escarpment. \\ \text{Foundations have been designed assuming an allowable bearing capacity of 100 kPa, undrained cohesion $C_u = 50$ kPa. Concrete Strength = 25 MPa.} \\$		
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.			

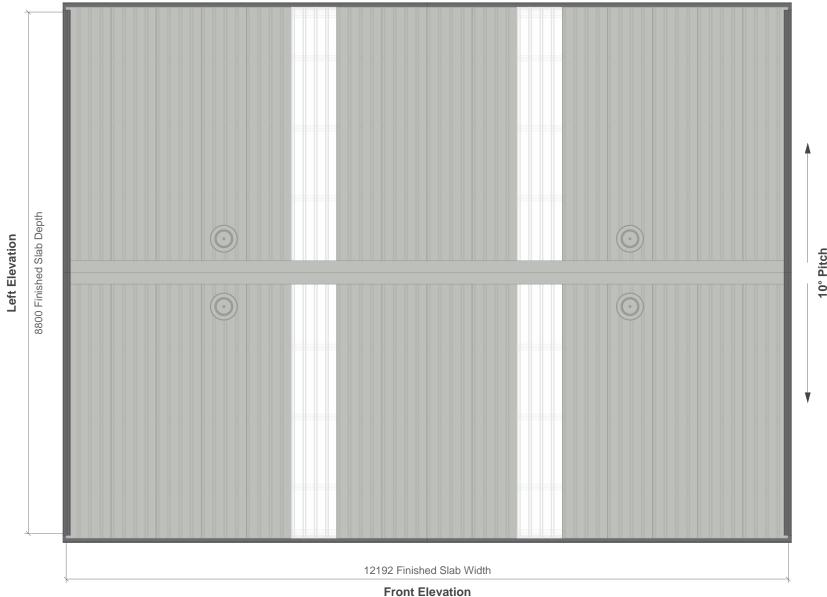
Design Notes & Structural Members		
Building Class	10a · Importance Level 2	
Design Wind Speed	47.11 m/s	
Columns	C15015 & C20019	
Rafters	C15015 & C20019	
Mullions	C15015	
Eave Purlins	C15012	
Purlins	Z10012	
Girts	Z10012	
Bridging	TH22x0.4	
Fly Bracing	G500 1.15 mm as per Detail	
Bracing	6 mm Cable (7 x 7) Construction	
Roller Door Jambs Marked as J: in the Elevations		
Roller Door Header	Marked as H: in the Elevations	
Plates & Brackets Gauge as per Connection Detail.		
Technical Data	Page 46	



Standard.

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

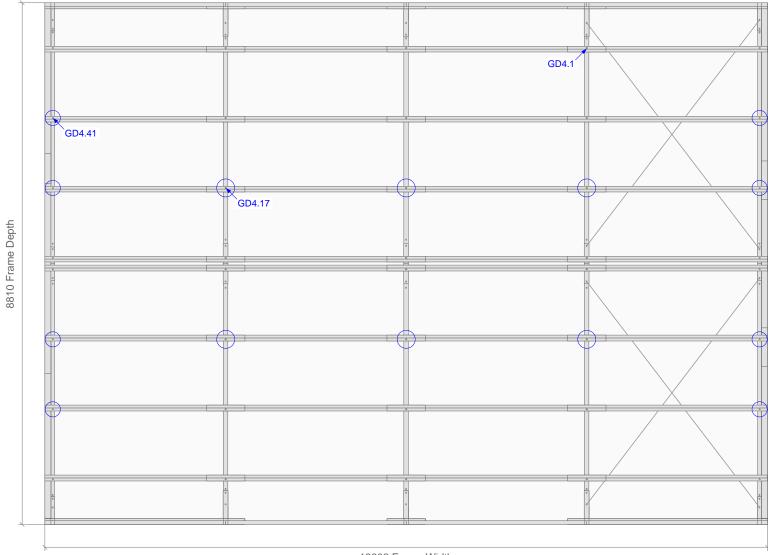
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Roof structure is light foot trafficable for maintenance purposes.



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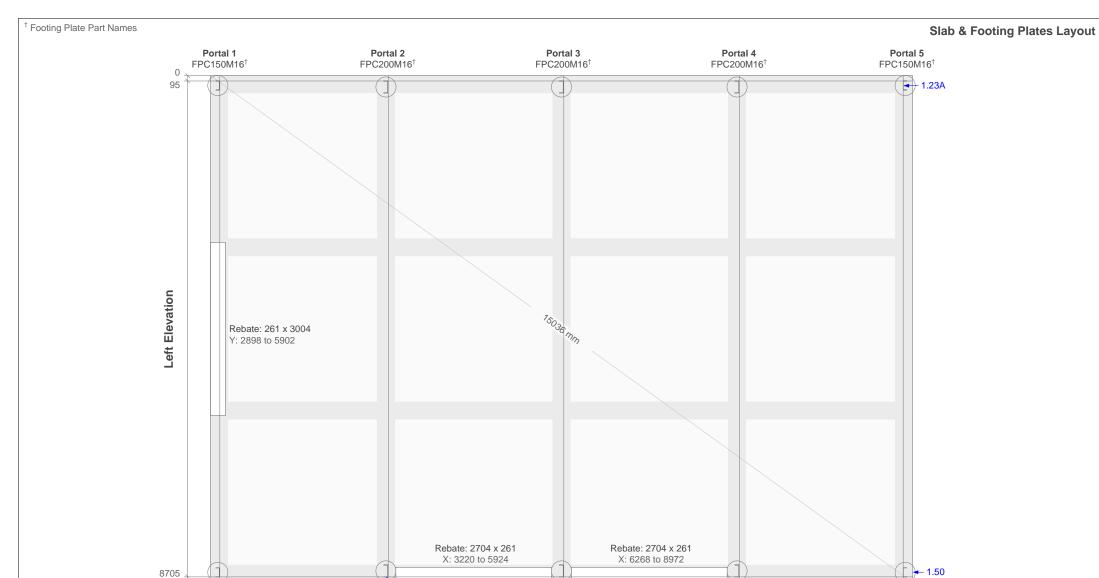
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Note: X coordinates are to the outer edge of the Footing Plate Web. Y coordinates are to the outer edge of the Footing Plate Flange, closest to and parallel to the Slab edge.

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Note: X coordinates are to the outer edge of the Footing Plate Web. Y coordinates are to the outer edge of the Footing Plate Flange, closest to and parallel to the Slab edge.

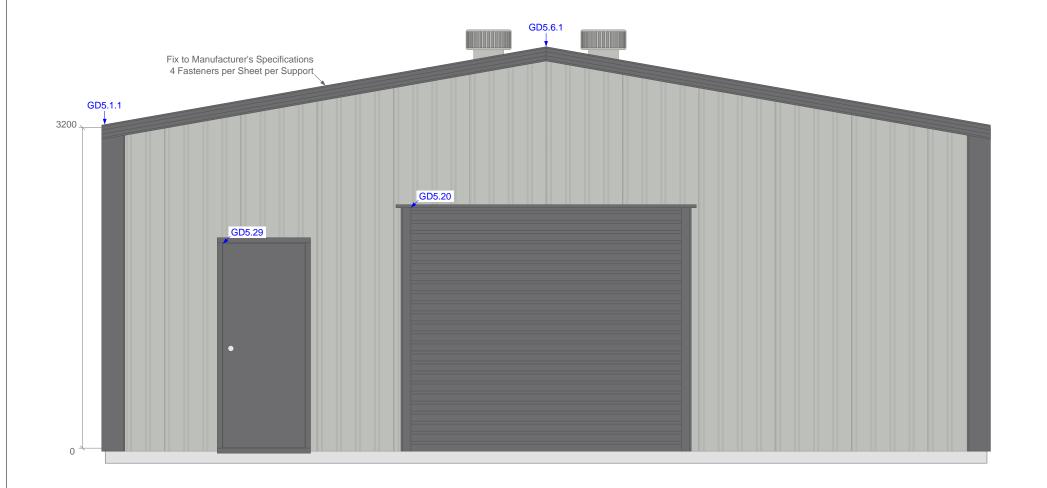


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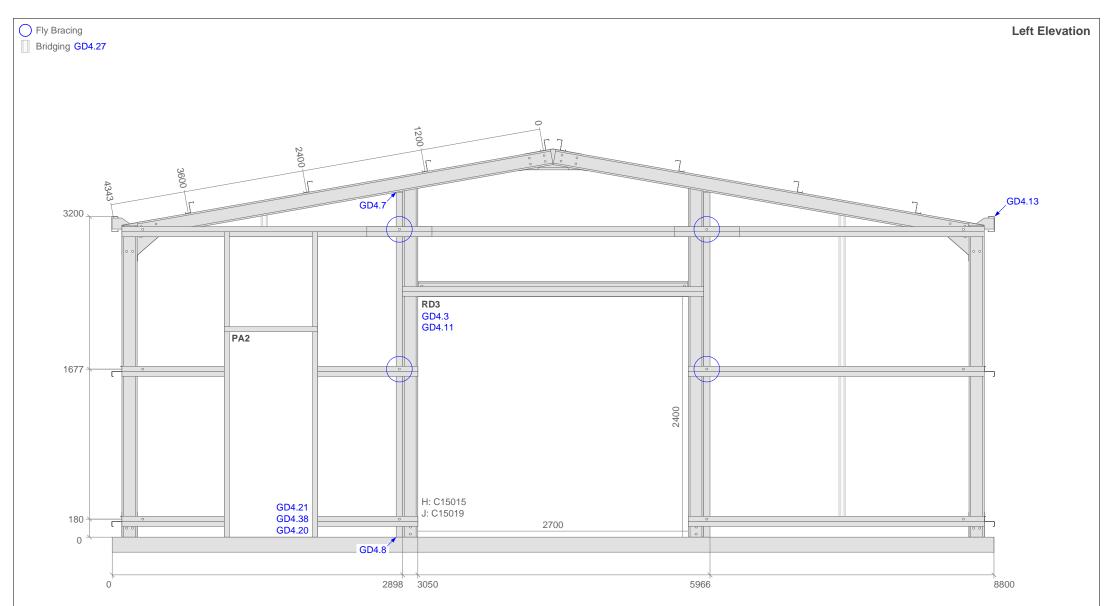
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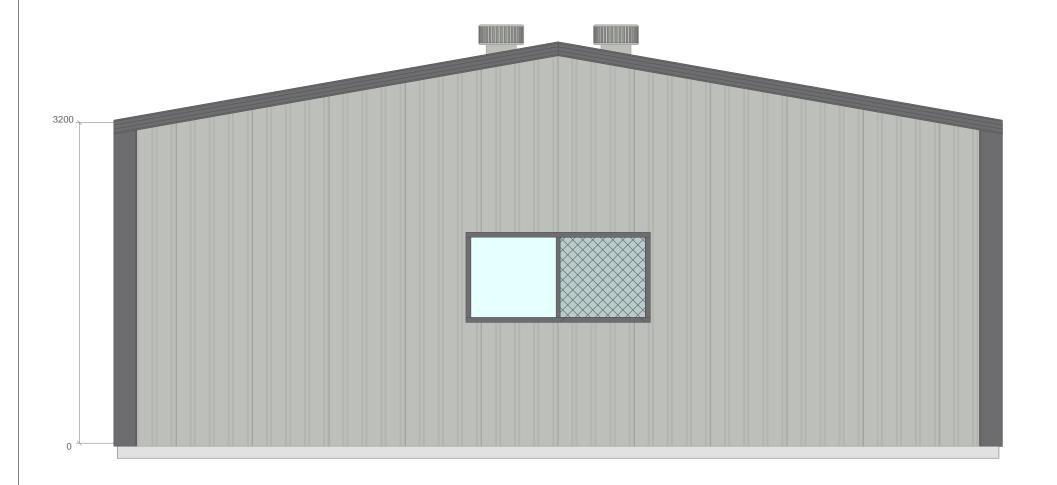


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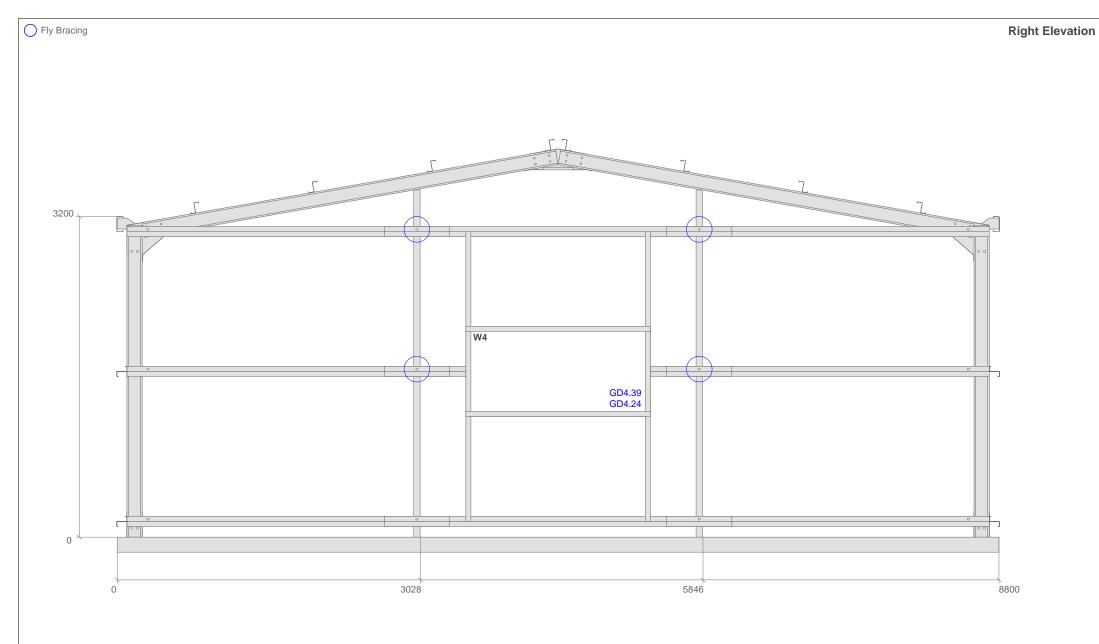


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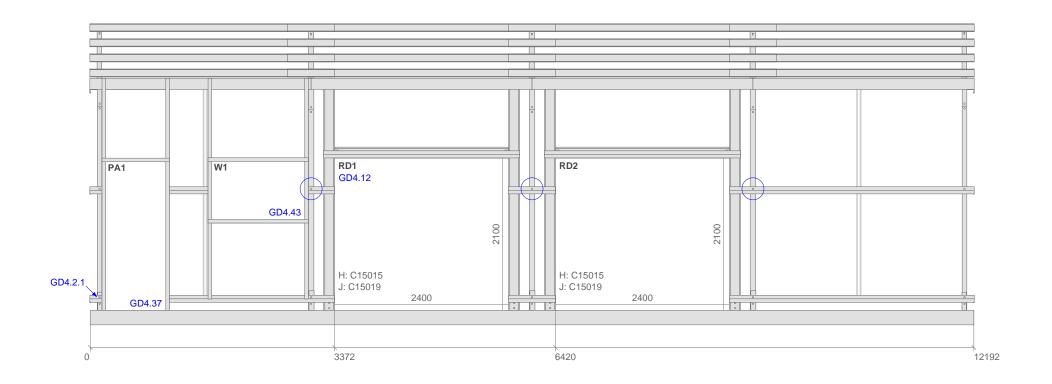
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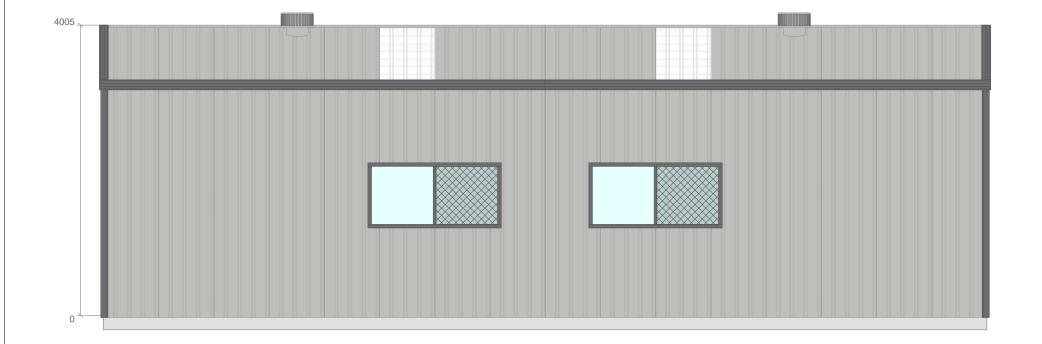
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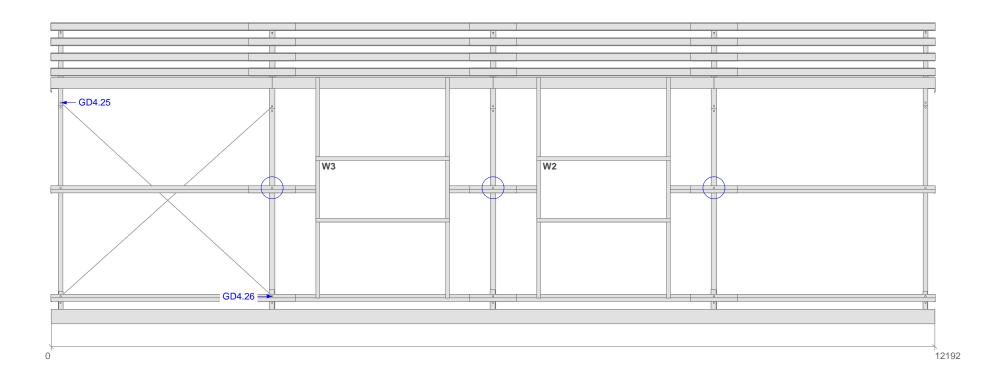


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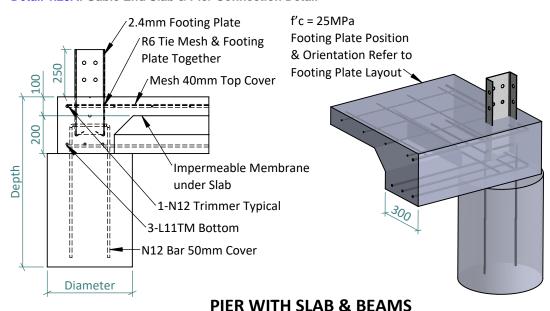
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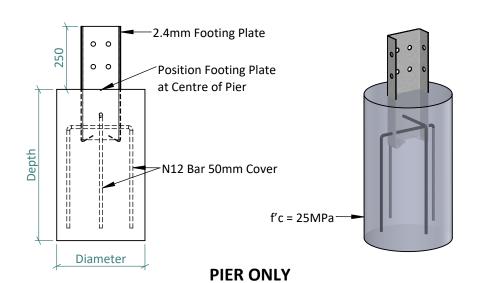


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« Detail 1.23A: Gable End Slab & Pier Connection Detail





Example Street, Suburb QLD 4444

Foundation Notes:

Foundations have been designed assuming an allowable bearing capacity of 100 kPa, undrained cohesion $C_u = 50$ kPa. Concrete Strength = 25MPa, Site Class M.

Video: Scan or Right-Click

Maximum of 2.5kPa uniformly distributed load and 13kN concentrated load.

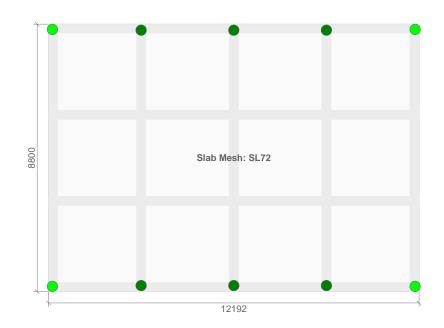
Pier with Slab & Beams Gable Ends Output Description:

Depth 400mm

Diameter 350mm

Pier Only

Depth 1000mm Diameter 350mm



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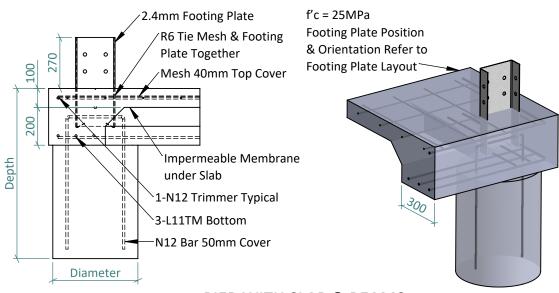
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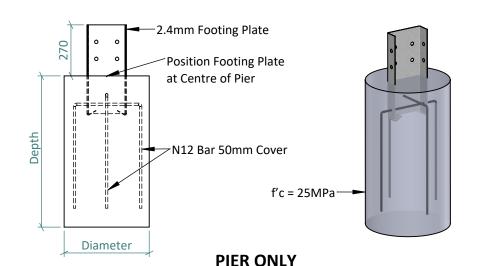
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« Detail 1.24B: Internal Portal Slab & Pier Connection Detail



PIER WITH SLAB & BEAMS

Example Street, Suburb QLD 4444



Foundation Notes:

Foundations have been designed assuming an allowable bearing capacity of 100 kPa, undrained cohesion $C_u = 50$ kPa. Concrete Strength = 25MPa, Site Class M.

Video: Scan or Right-Click

Maximum of 2.5kPa uniformly distributed load and 13kN concentrated load.

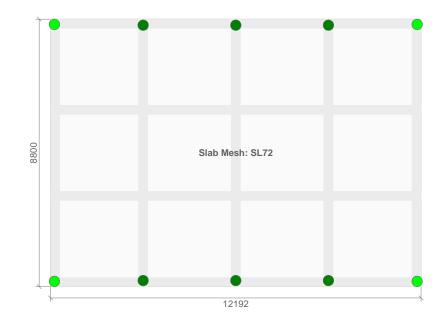
Pier with Slab & Beams Internal Portals

Depth 500mm

Diameter 350mm

Pier Only

Depth 1200mm Diameter 350mm



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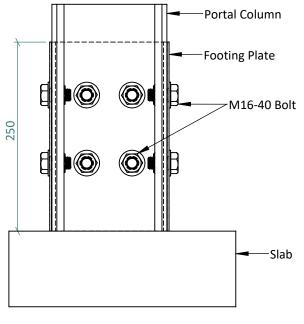


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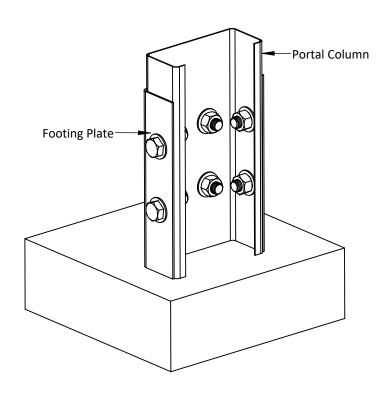
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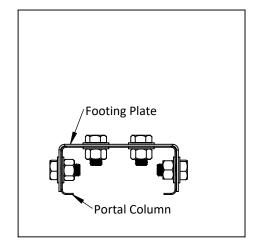
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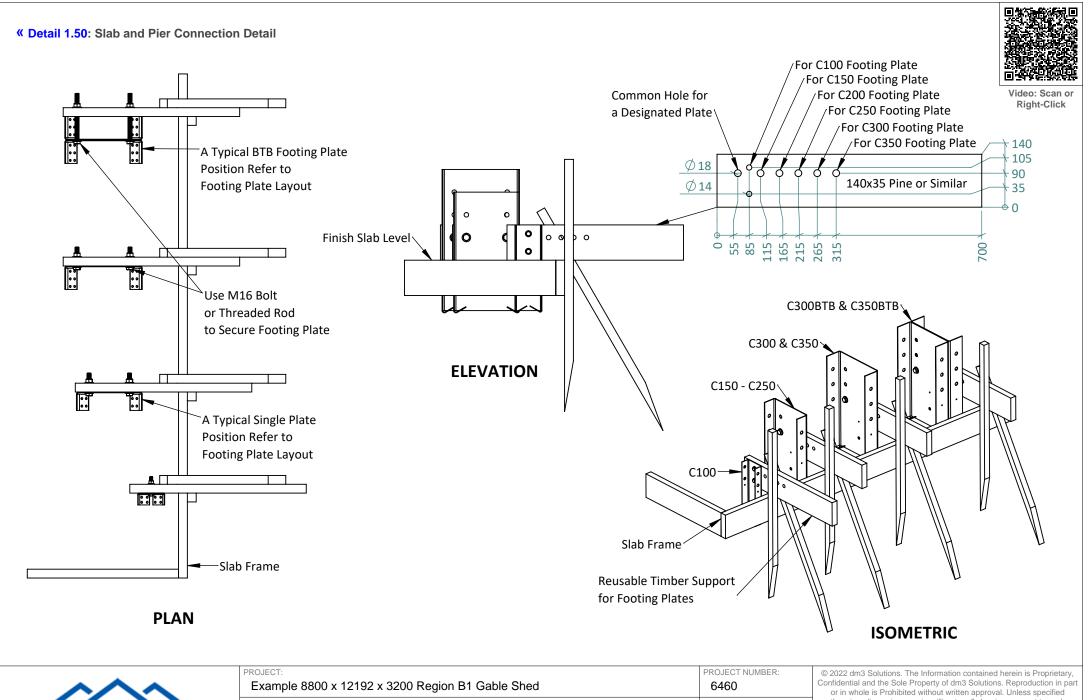
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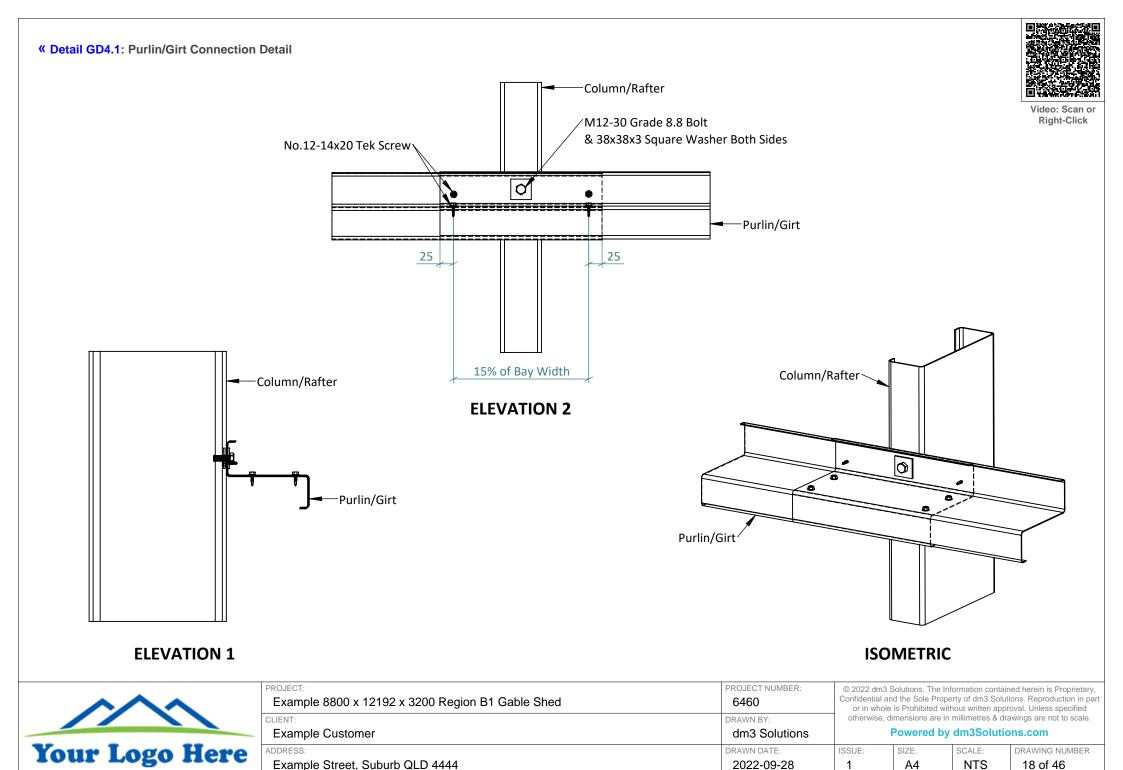




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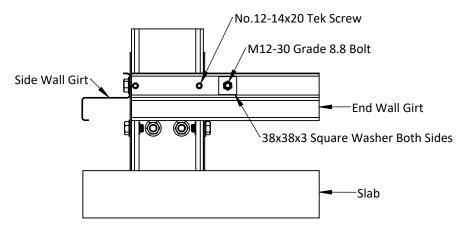


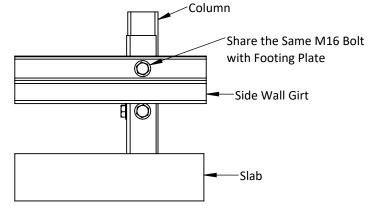
« Detail GD4.2.1: Girt Corner Connection Detail



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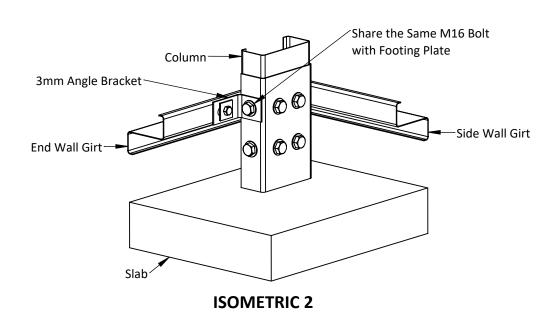
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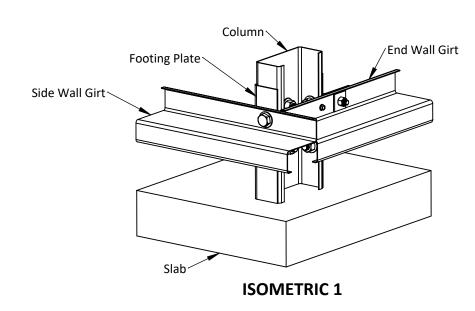


END ELEVATION

SIDE ELEVATION



Example Street, Suburb QLD 4444



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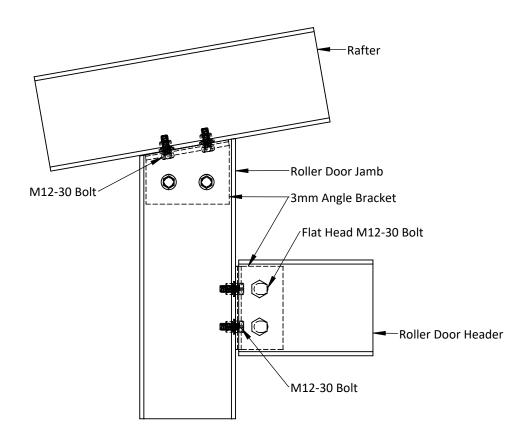
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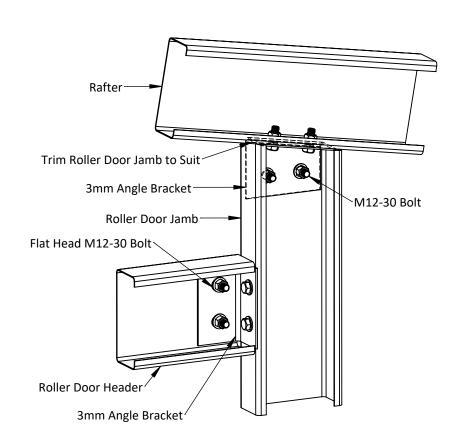
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ELEVATION (VIEW FROM INSIDE BUILDING)



ISOMETRIC



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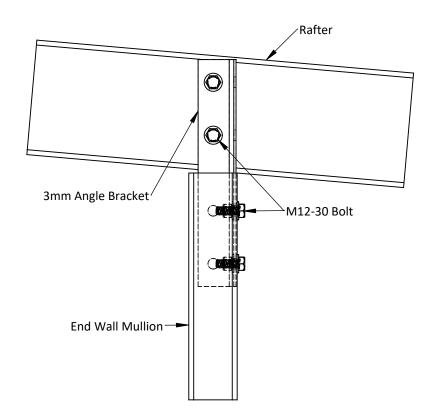
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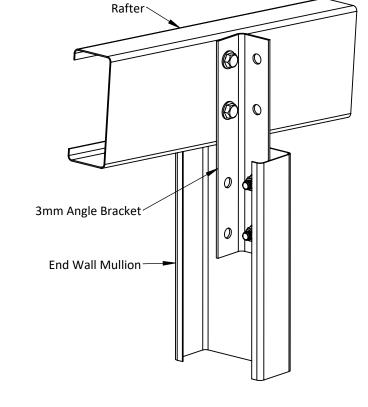
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2022-09-28	1	A4	NTS	20 of 46
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Video: Scan or Right-Click





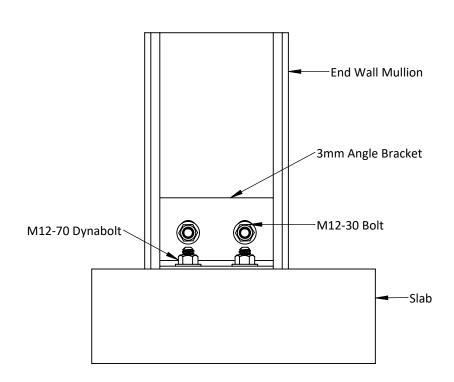
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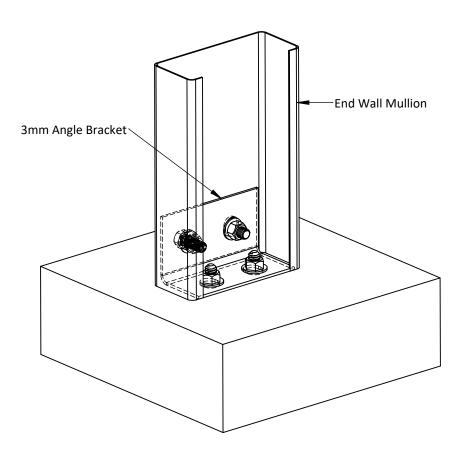
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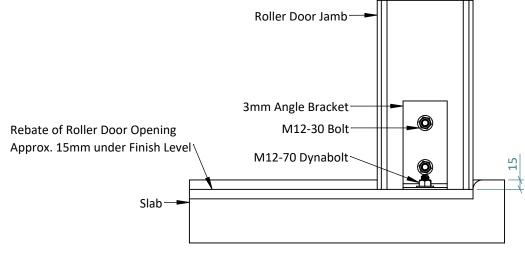
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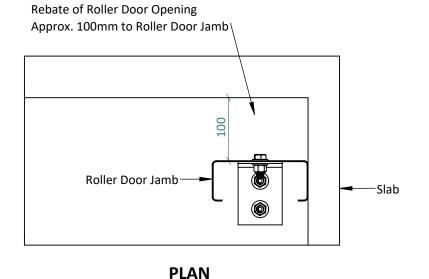
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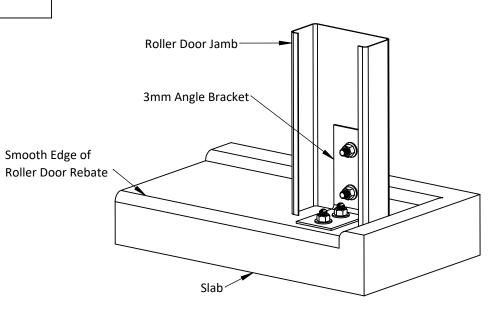
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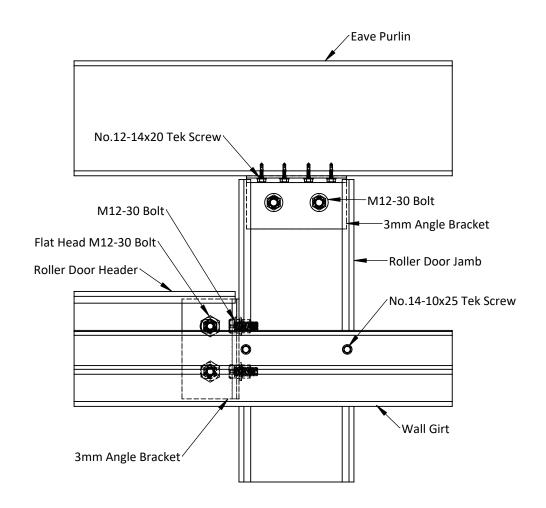
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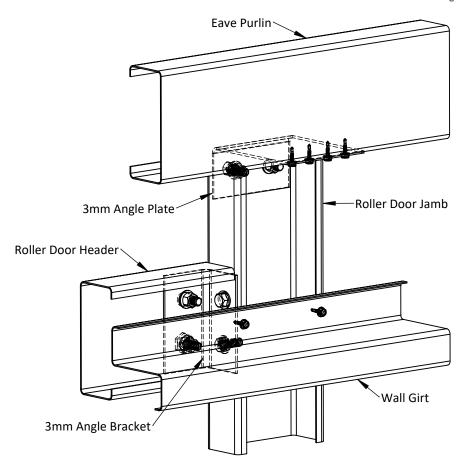
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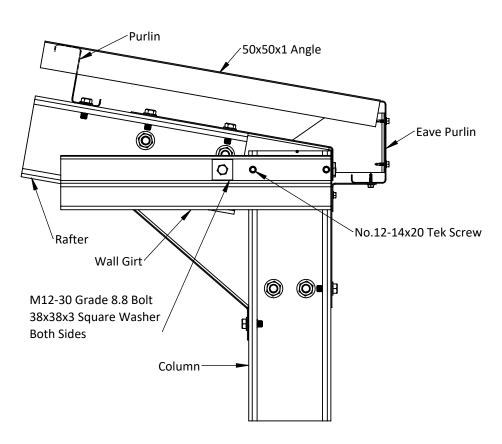


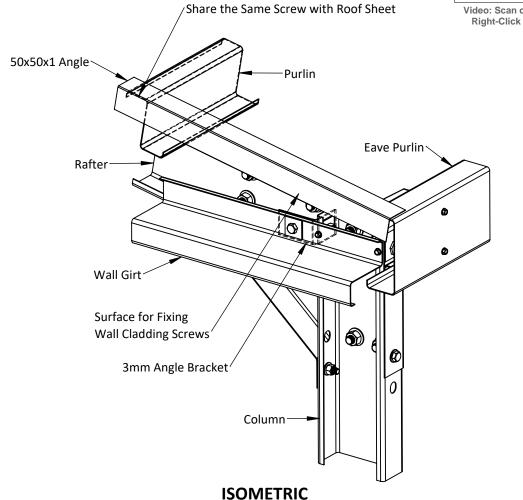
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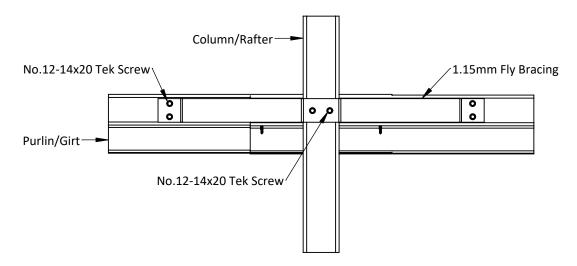
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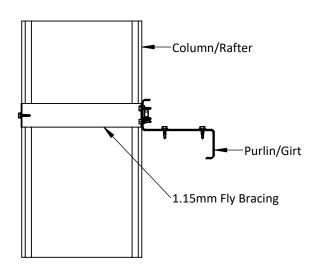
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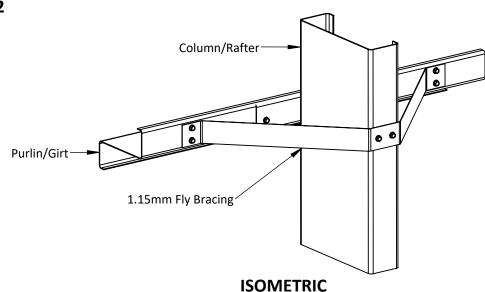


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Example Street, Suburb QLD 4444



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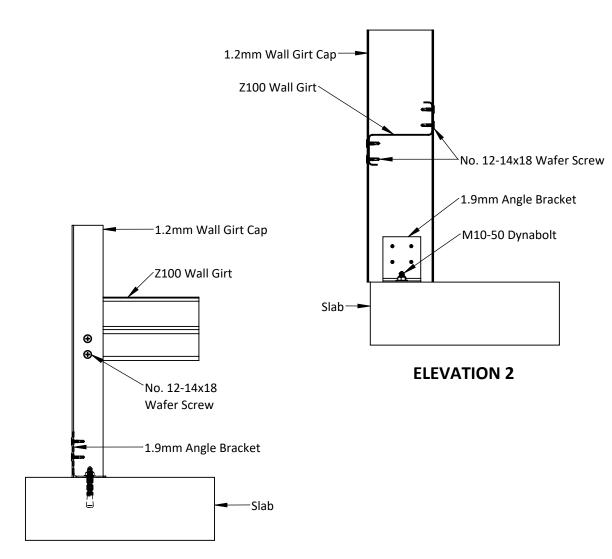
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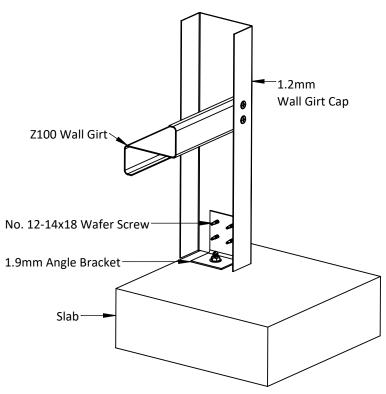
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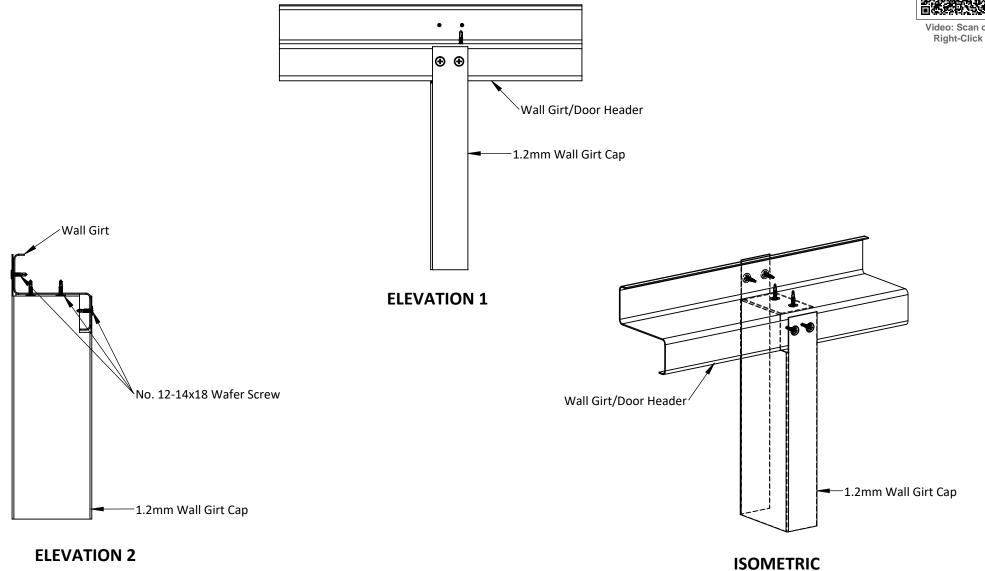
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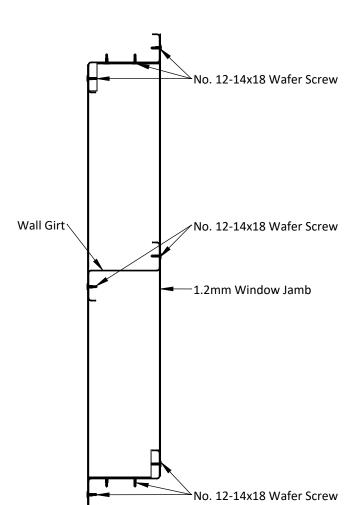




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Wall Girt 1.2mm Window Jamb Trim to Suit \ **ISOMETRIC**

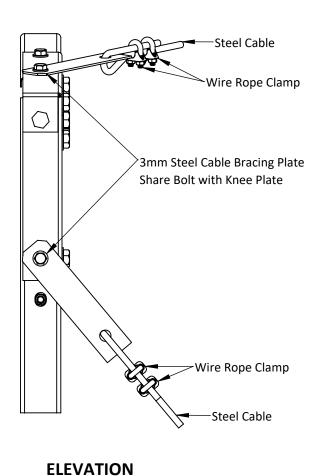
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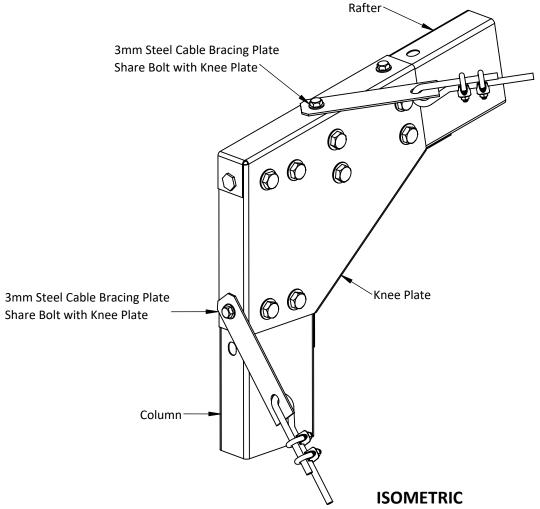


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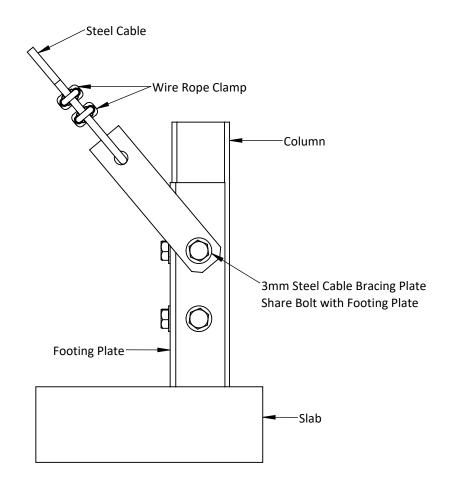


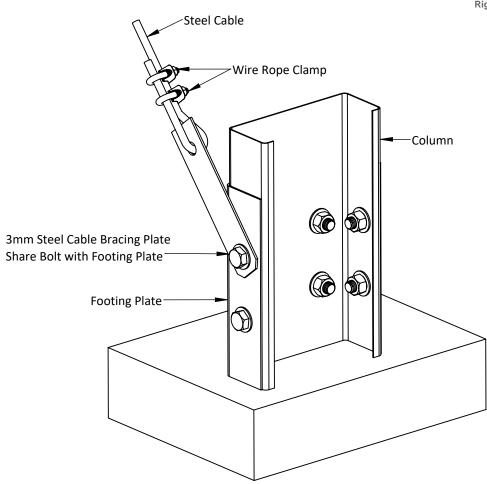
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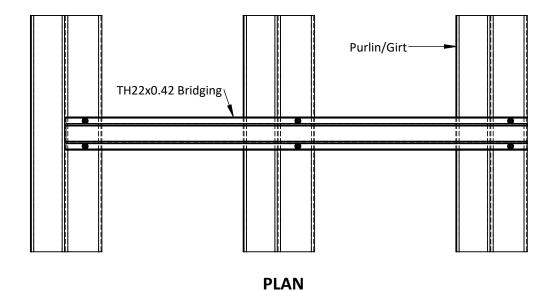
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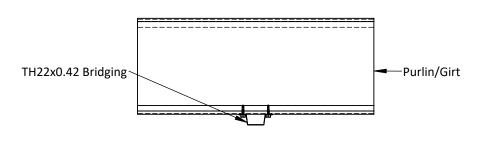
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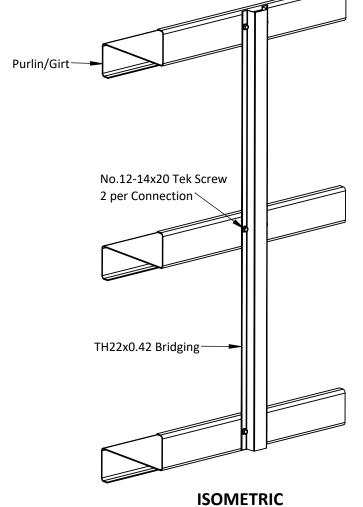
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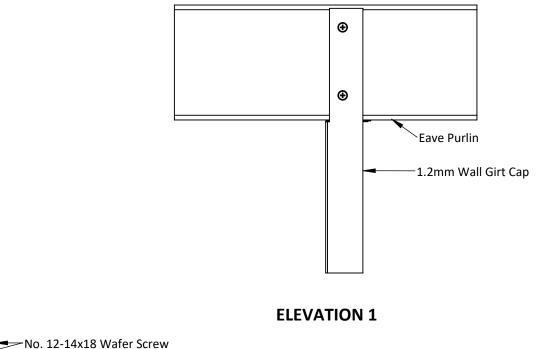


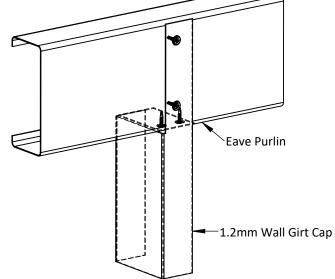


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ELEVATION 2

—1.2mm Wall Girt Cap

Example Street, Suburb QLD 4444



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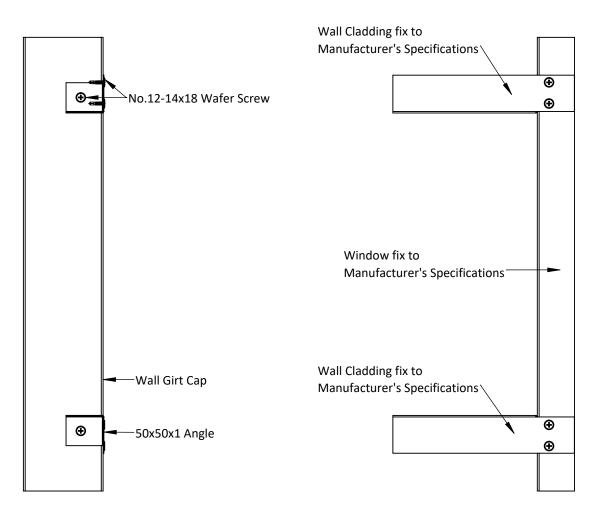
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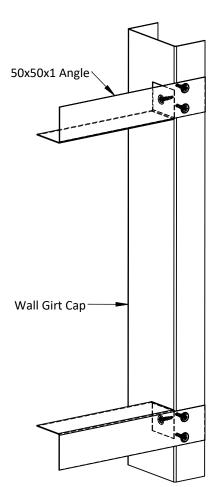
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ELEVATION 2 ELEVATION 1 ISOMETRIC

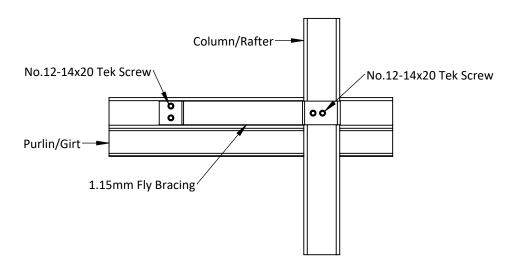


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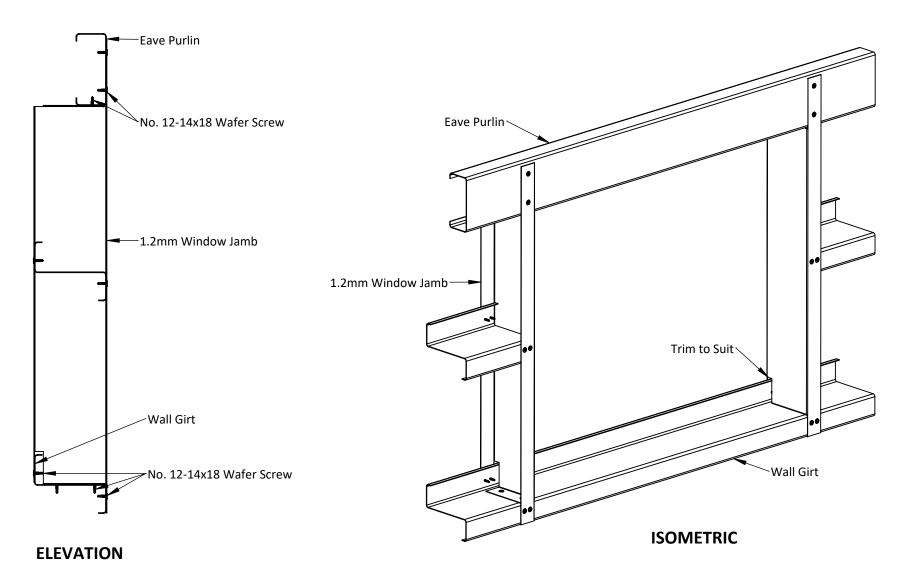
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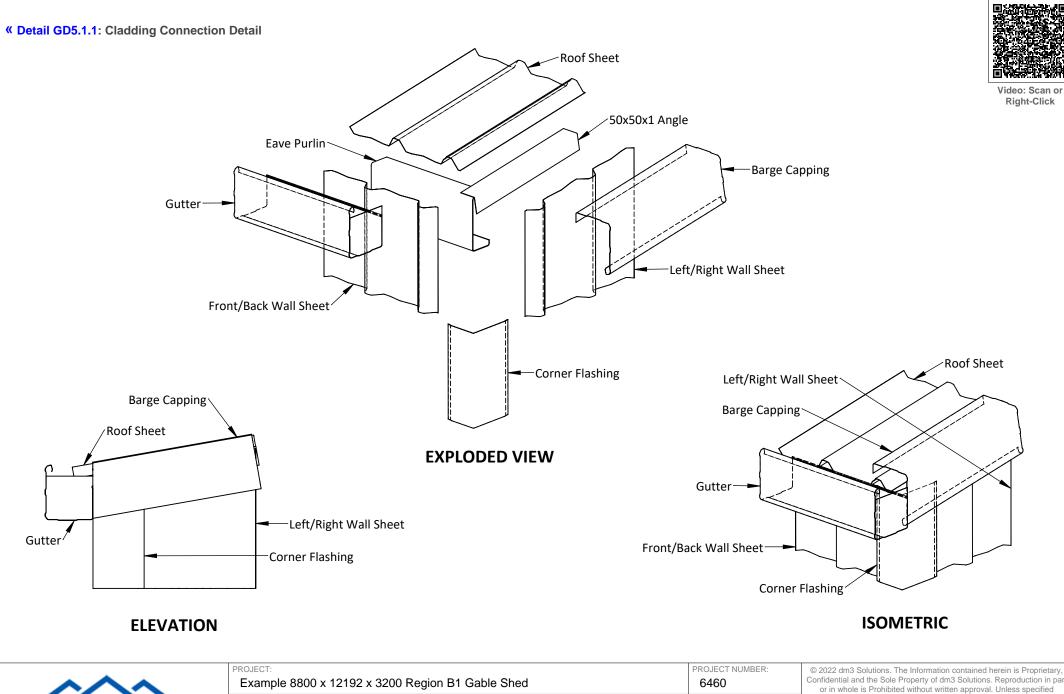


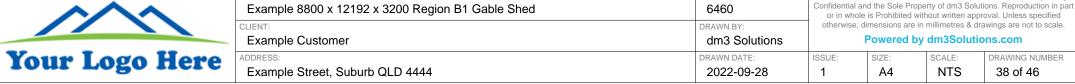
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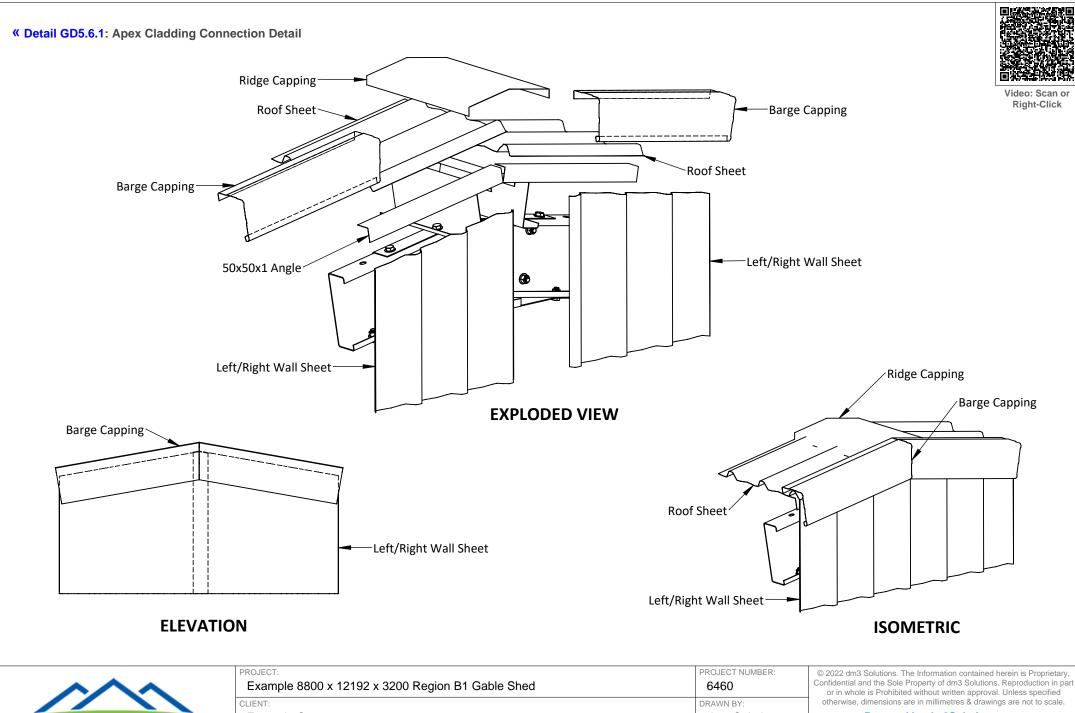


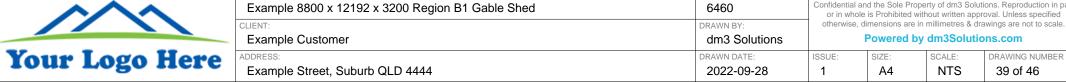
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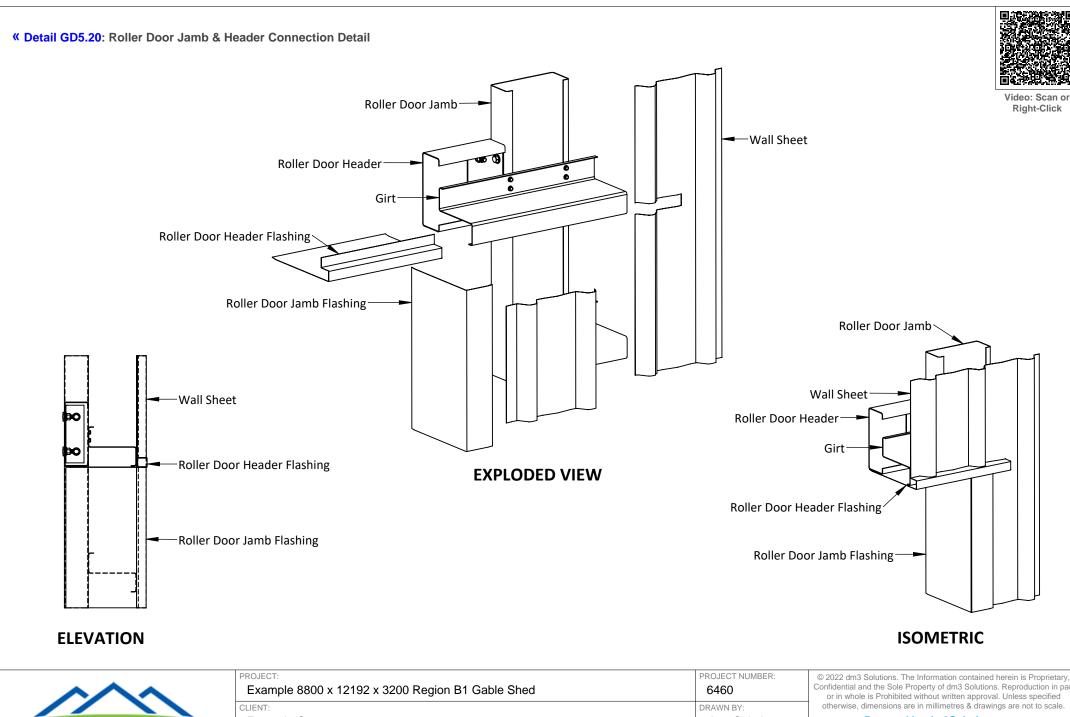
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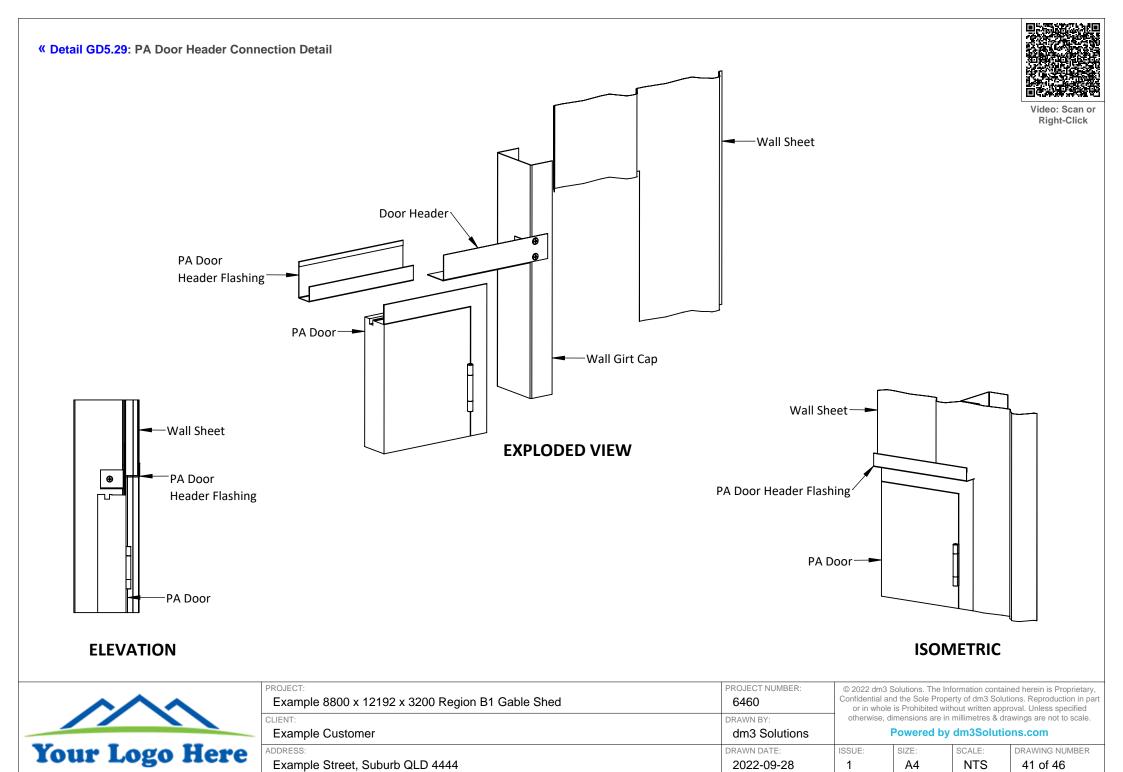


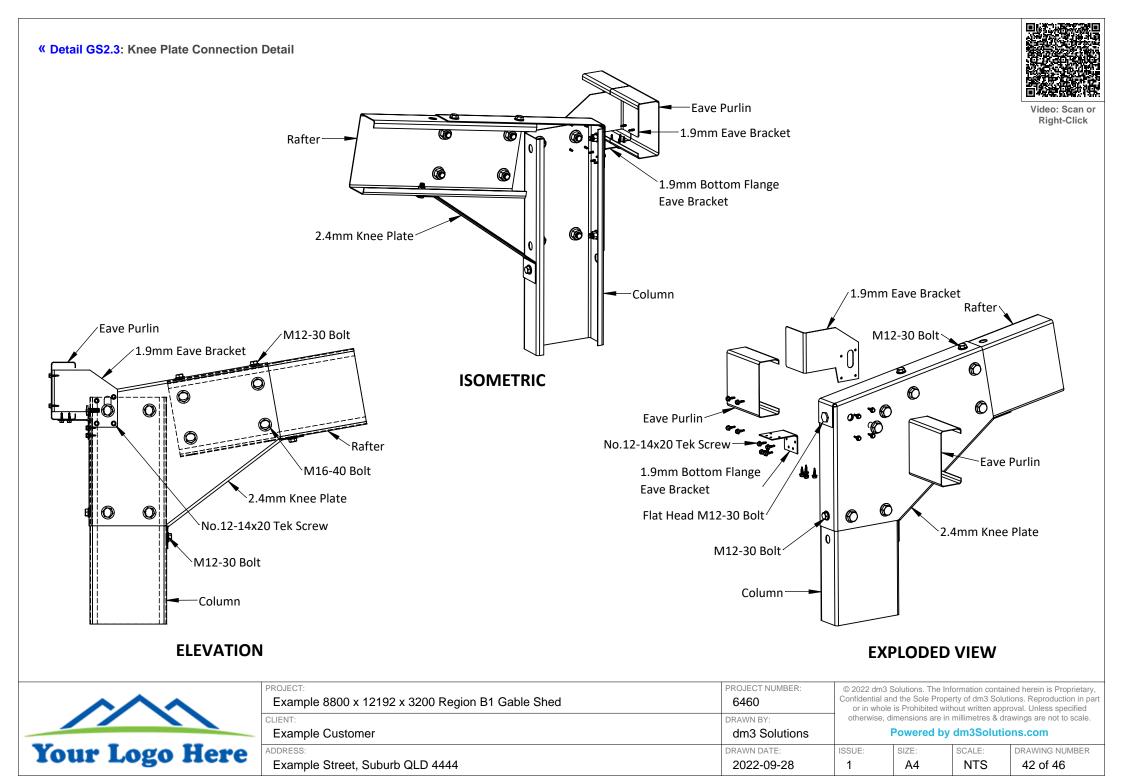






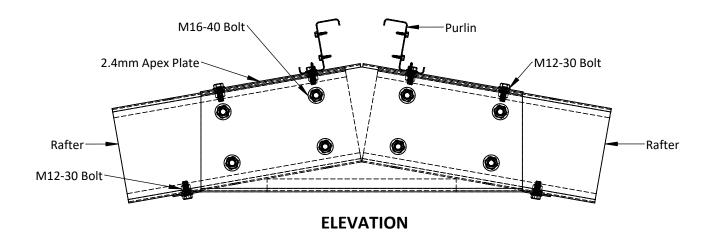
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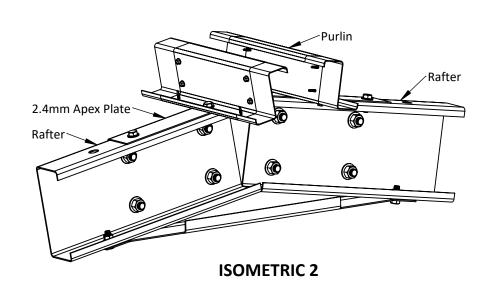


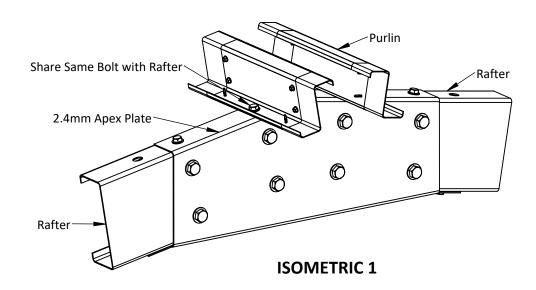




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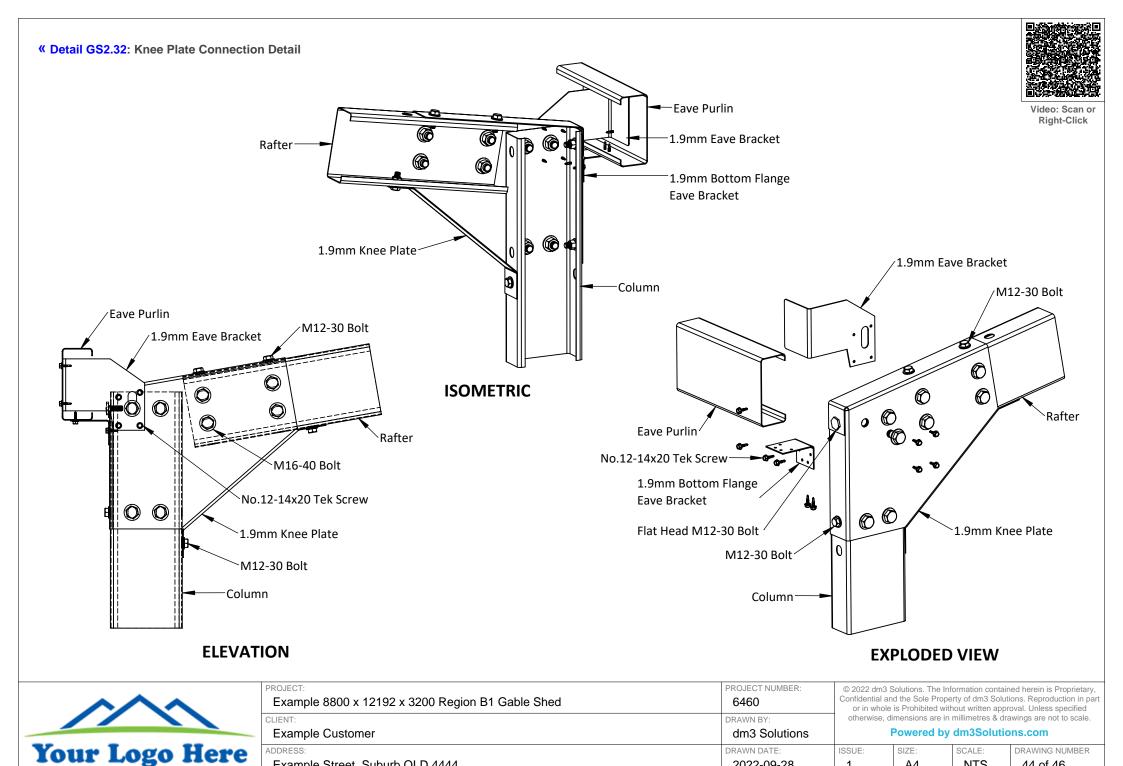
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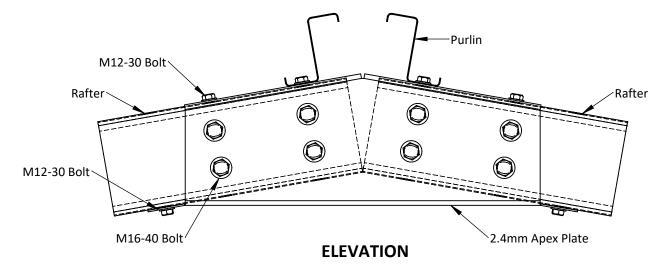
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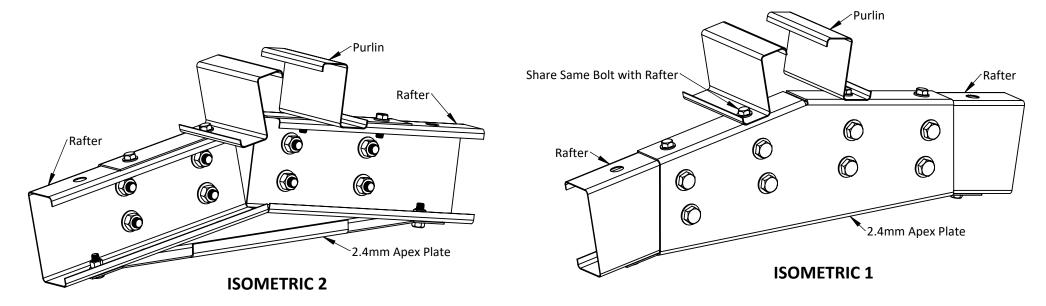
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Technical Data		Internal Portal		Mullions · LM1,LM2				
		⊘M Req Rafter	Moment Resistant · G450 Plate 11.900 kNm C20019 with 1 row of Bridging		Min Yield Stress · G Gov Span · Loa	irade · I _x ad Width	C15015 with 2 rows of Bridging 450 MPa · G450 · 1.61 x 10 ⁶ mm ⁴ 3350 mm · 2881 mm Pin · Top & Bottom	
	ing Design Wind Speeds	Min Yield Stress · Grade · I _x					3.071 kN/m	
	47.11 m/s \cdot _{maj} = Major Structural Members \cdot	Gov Span · Load Width Capacity · Req	3621 mm · 3048 mm 2.649 kN/m		Outw		1.994 kN/m 3.780 kN/m · min(Inward, Outward)	
$V_{ m design\ min}$		Actual	4.500 kN/m · min(Inward, Outward) Source: Lysaght [®] & Stramit [®] Span Tables		Moment ·	ØM Req	Source: Lysaght [®] & Stramit [®] Span Tables 4.313 kNm	
$V_{service\;maj}$	Purlins & Girts 32.23 m/s · _{service} = Service Deflection		14.823 kNm · L _{ex} 3621 · L _{ey} 1200 · L _{ez} 362 3.7 mm · 12.1 mm Permitted	21			6.926 kNm · L _{ex} 3350 · L _{ey} 1497 · L _{ez} 1597	
V _{service min} 32.23 m/s		Column					Iullions · RM1,RM2	
Govern	ning Roof Design Loads		C20019 with 1 row of Bridging		Min Viold Stress . G	Member	C15015 with 2 rows of Bridging 450 MPa · G450 · 1.61 x 10 ⁶ mm ⁴	
Pressure_{maj} · Inward Req Outward Reg	0.653 kPa · Req = Required		450 MPa · G450 · 4.51 x 10 ⁶ mm ⁴ 2622 mm · 3048 mm		Gov Span · Loa	nd Width	3373 mm · 2818 mm	
Pressure _{min} · Inward Req	0.009 KPa	·	Fixed · G450 Embedded Plate				Pin · Top & Bottom	
Outward Req		Capacity · Req	3.249 kN/m				3.004 kN/m	
Service _{maj} · Inward Req	0.495 kPa	Actual	11.250 kN/m · min(Inward, Outward) Source: Lysaght® & Stramit® Span Tables		Outw		1.950 kN/m 3.780 kN/m · min(Inward, Outward)	
Outward Req		Moment · ∅M	14.823 kNm · L _{ex} 2622 · L _{ey} 1497 · L _{ez} 133				Source: Lysaght [®] & Stramit [®] Span Tables	
Service_{min} · Inward Req Outward Req		Deflection · Top of Column	2.3 mm · 6.4 mm Permitted		Moment ·		4.275 kNm	
<u>'</u>	ning Wall Design Loads		Purlins			VIVI	6.926 kNm · L _{ex} 3373 · L _{ey} 1497 · L _{ez} 1597	
Pressure _{maj} · Inward Req			Z10012	-	D f D	D	Lateral Bracing	
Outward Req		^	500 MPa · G500 · 0.54 x 10 ⁶ mm ⁴		Root Braci		23.302 kN 27.186 kN	
Pressure _{min} · Inward Req		·	3048 mm · 1200 mm		Wall Bracing · Fro			
Outward Req	1.385 kPa	Capacity · Inward Req			Wall blacing 110		20.876 kN	
Service _{maj} · Inward Req	0.499 kPa		1.618 kN/m 2.670 kN/m · 4 Lapped Spans · min(Inwai	rd	Wall Bracing · Ba			
Outward Req		Member	Outward) · Source: Lysaght [®] & Stramit [®] S				21.436 kN	
Service_{min} · Inward Req Outward Req			Tables	рап			Cladding Details	
Outward Keq	End Portal	Deflection	7.3 mm · 10.2 mm Permitted		Roof C	BlueScope® Colorbond®		
Vaca Connection		Eave Purlins		Min Yield Stress		550 MPa · G550		
	Moment Resistant · G450 Plate 6.039 kNm	Member	C15012				TrimDek®	
Rafter	0.039 KMIII	Min Yield Stress \cdot Grade \cdot I _x					0.42 mm	
	C15015 with 2 rows of Bridging	Gov Span · Load Width					BlueScope® Colorbond®	
	450 MPa · G450 · 1.61 x 10 ⁶ mm ⁴	Capacity · Inward Req			Min Yield Stress		550 MPa · G550 TrimDek®	
	3783 mm · 1529 mm · Gov = Governing	· ·	0.535 kN/m				0.42 mm	
Capacity · Req		Member 2.280 kN/m · min(Inward, Outward) · Source: Lysaght [®] & Stramit [®] Span Tables		-			d Portal · Bored Piers	
Actual	3.220 kN/m · min(Inward, Outward) Source: Lysaght [®] & Stramit [®] Span Tables	Deflection	1.0 mm · 10.2 mm Permitted	H			1.967 kNm	
Moment · ∅M	6.926 kNm · L _{ex} 3783 · L _{ey} 1200 · L _{ez} 1600		Girts			u	5.064 kN	
	6.3 mm · 12.6 mm Permitted	Member	Z10012 with 1 row of bridging				3.165 kN	
Column		Min Yield Stress · Grade · I _x	3 3		Dimensions · P	ier Only	350 mm diameter x 1000 mm deep	
	C15015		2919 mm · 1497 mm		Pier w	vith Slab	350 mm diameter x 400 mm deep	
~	450 MPa · G450 · 1.61 x 10 ⁶ mm ⁴ 2672 mm · 1529 mm	Capacity · Inward Req	2.154 kN/m 2.073 kN/m	į		Interr	nal Portal · Bored Piers	
•	Fixed · G450 Embedded Plate		2.370 kN/m · Single Span · min(Inward,			\emptyset M \cdot M _u	3.921 kNm	
Capacity · Req		Picilibei	Outward) · Source: Lysaght [®] & Stramit [®] S	ban	U	olift $\cdot V_u$	10.095 kN	
	6.730 kN/m · min(Inward, Outward)		Tables				6.309 kN	
	Source: Lysaght [®] & Stramit [®] Span Tables						350 mm diameter x 1200 mm deep	
Moment · ØM Deflection · Top of Column	6.926 kNm · L _{ex} 2672 · L _{ey} 1497 · L _{ez} 1355 3.2 mm · 6.4 mm Permitted				Pier w	vith Slab	350 mm diameter x 500 mm deep	
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