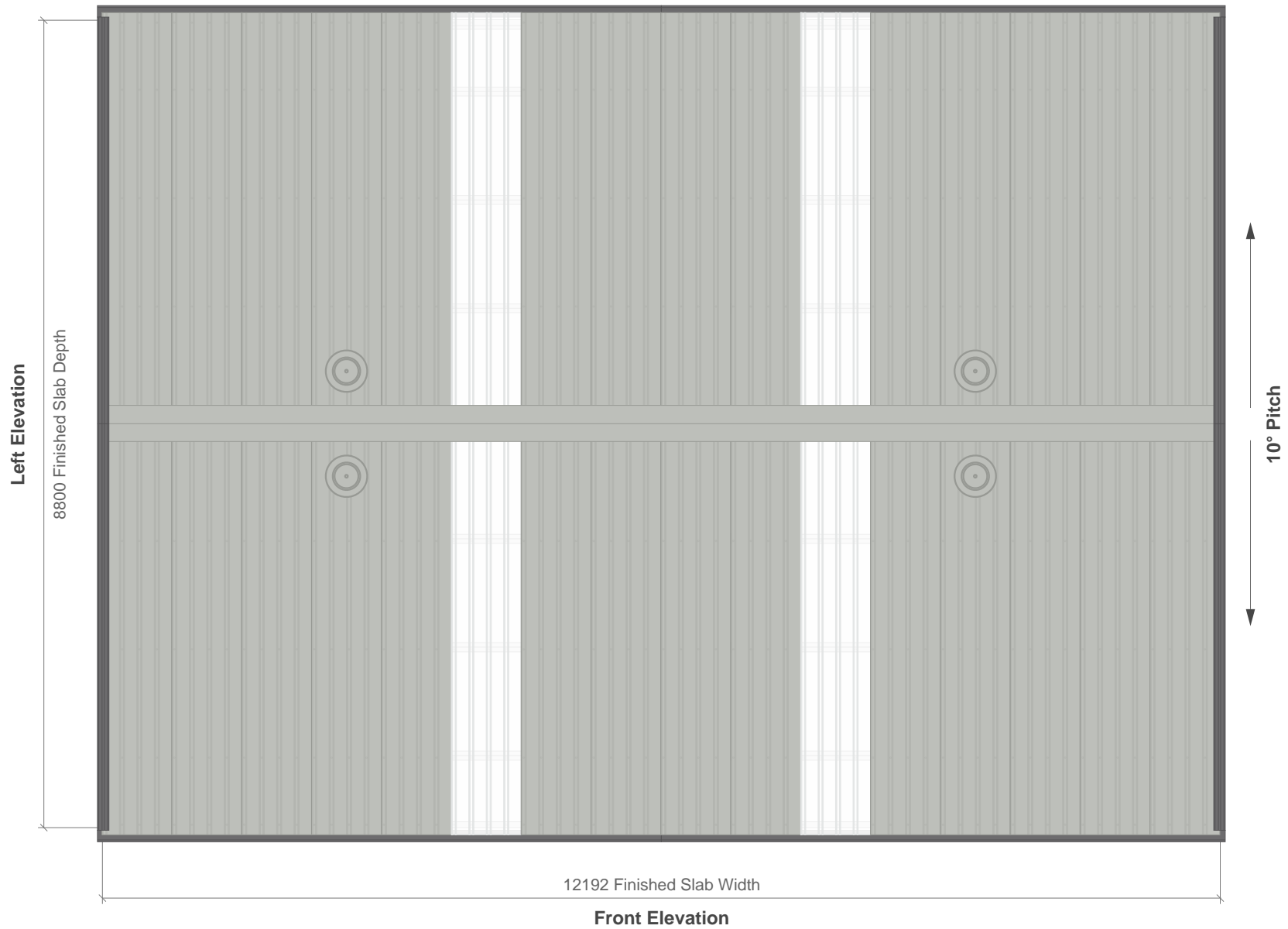

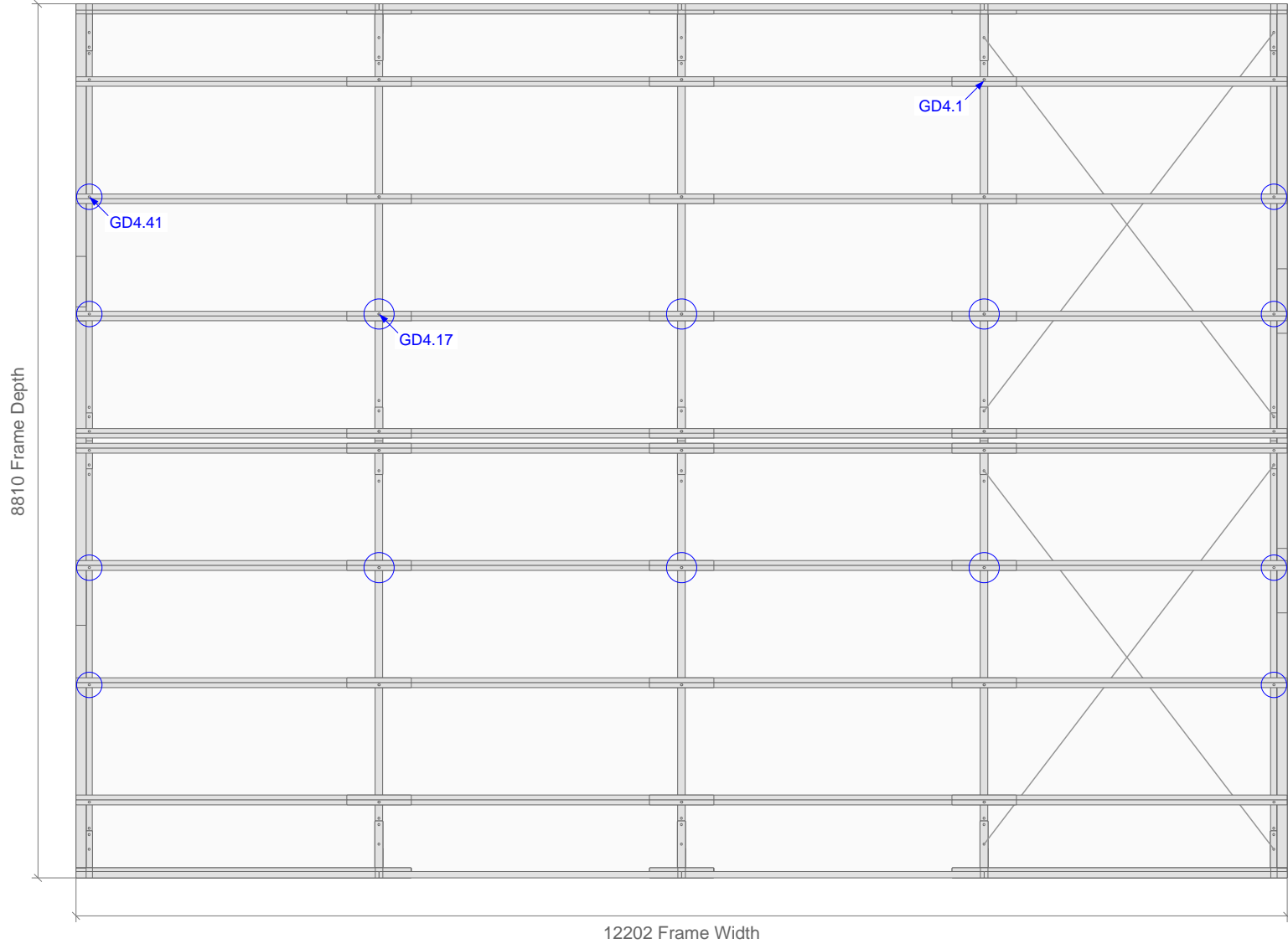


General Notes		Steel Grades		Design Notes & Structural Members				
G01	The Design and Details shown in these Drawings are applicable to this Project only.	300 PLUS	Universal Beams & Columns, Parallel Flange Channels, Large Angles to AS/NZS3679.1	Building Class	10a · Importance Level 2			
G02	These Drawings shall be read in conjunction with all Architectural Drawings, other Consultants' Drawings, Specifications and such other Written Instructions as may be issued during the course of the Project. Any discrepancy shall be referred to the Engineer before proceeding with the work.	250	Flats, Small Angles, Taper Flange Beams & Columns to AS/NZS3679.1	Design Wind Speed	47.11 m/s			
		300	Welded Sections to AS/NZS3679.2	Columns	C15015 & C20019			
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	Hot Rolled Plates, Floor Plates & Slabs to AS/NZS3678	Rafters	C15015 & C20019			
G04	The Structure must be maintained in a stable condition and no part must be overloaded during construction. Temporary bracing must be designed and provided by the contractor(s) to keep the building works and excavations stable at all times.	250	Hollow Sections to AS1163. Circular Sections less than 165mm Outside Diameter. Sections other than the above	Mullions	C15015			
		G450-G550	Cold Form AS4600. Unless noted otherwise, all purlins, plates & brackets are G450.	Eave Purlins	C15012			
G05	The Issuer of these Designs reserves the right to alter Specifications and Designs as it may see fit without prior notification or penalty.	G500	Slab mesh and deformed reinforcement bars.	Purlins	Z10012			
G06	The Structure has not been designed for snow loads.	G2070	AS2841. Galvanized Steel Wire Strand. Unless noted otherwise, all Cable Bracing is G2070.	Girts	Z10012			
G07	Connections may require on-site drilling by the contractor(s).			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			



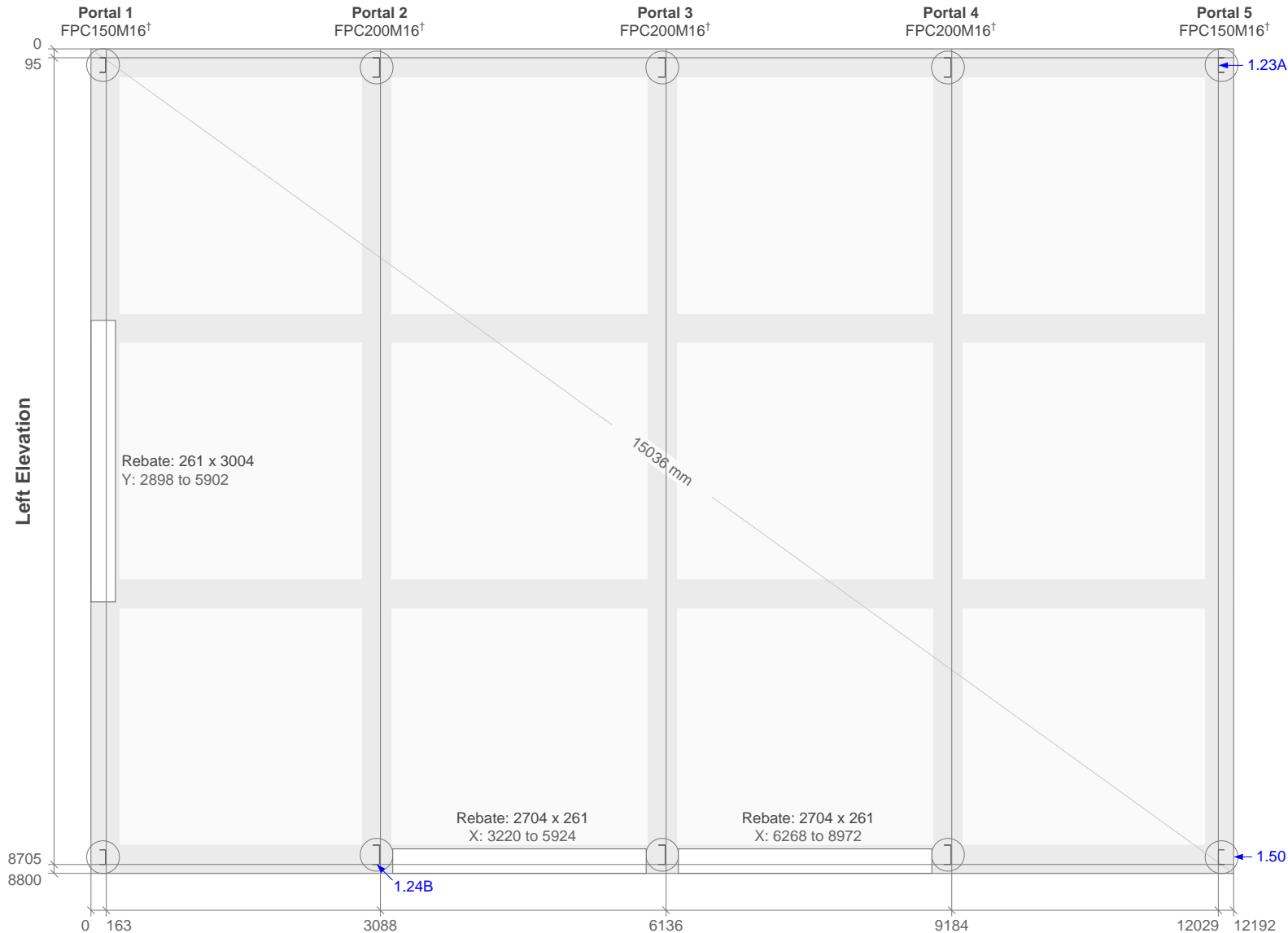
Roof structure is light foot trafficable for maintenance purposes.

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	ADDRESS: Example Street, Suburb QLD 4444	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 2 of 46




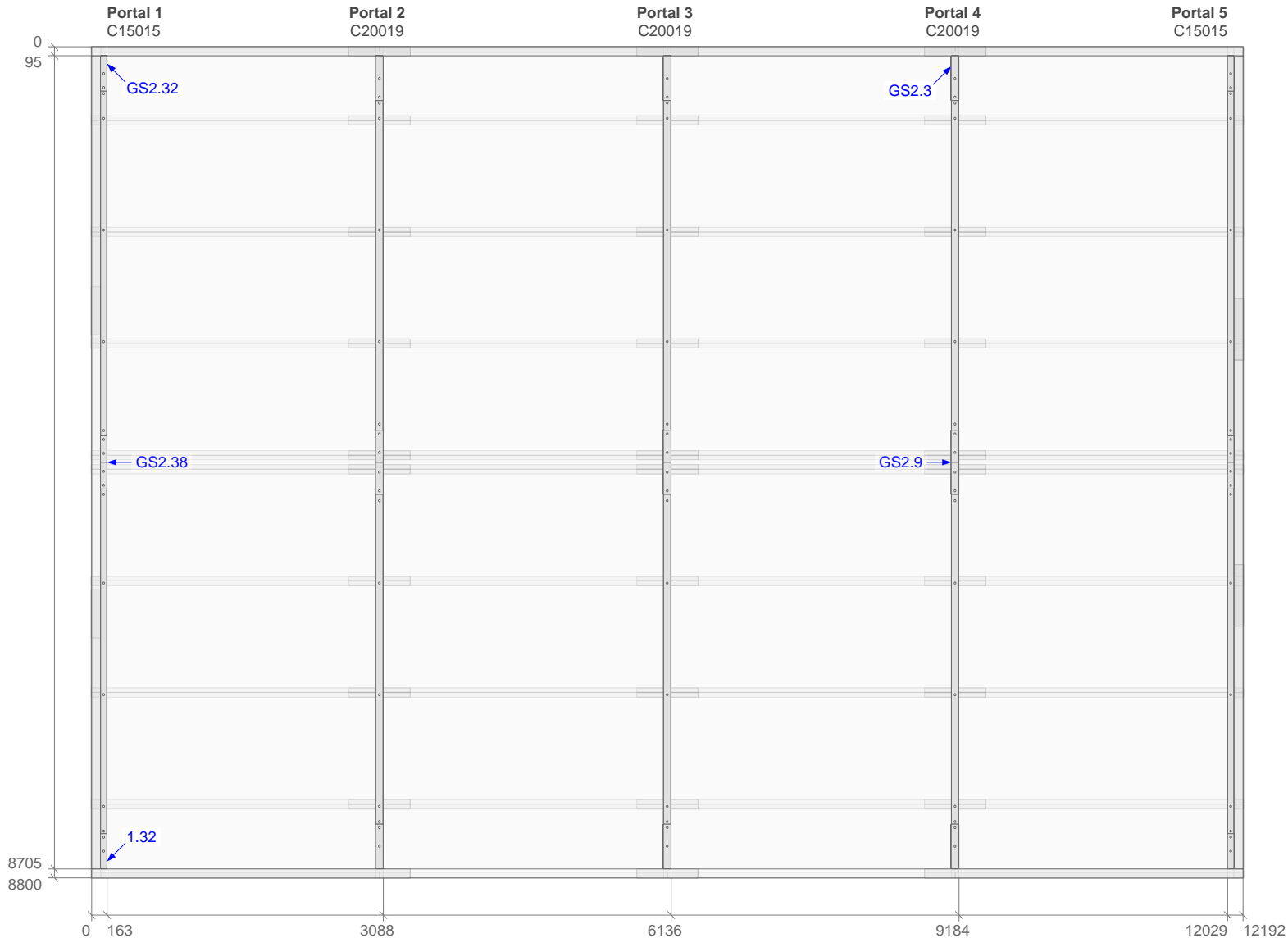
† Footing Plate Part Names

Slab & Footing Plates Layout




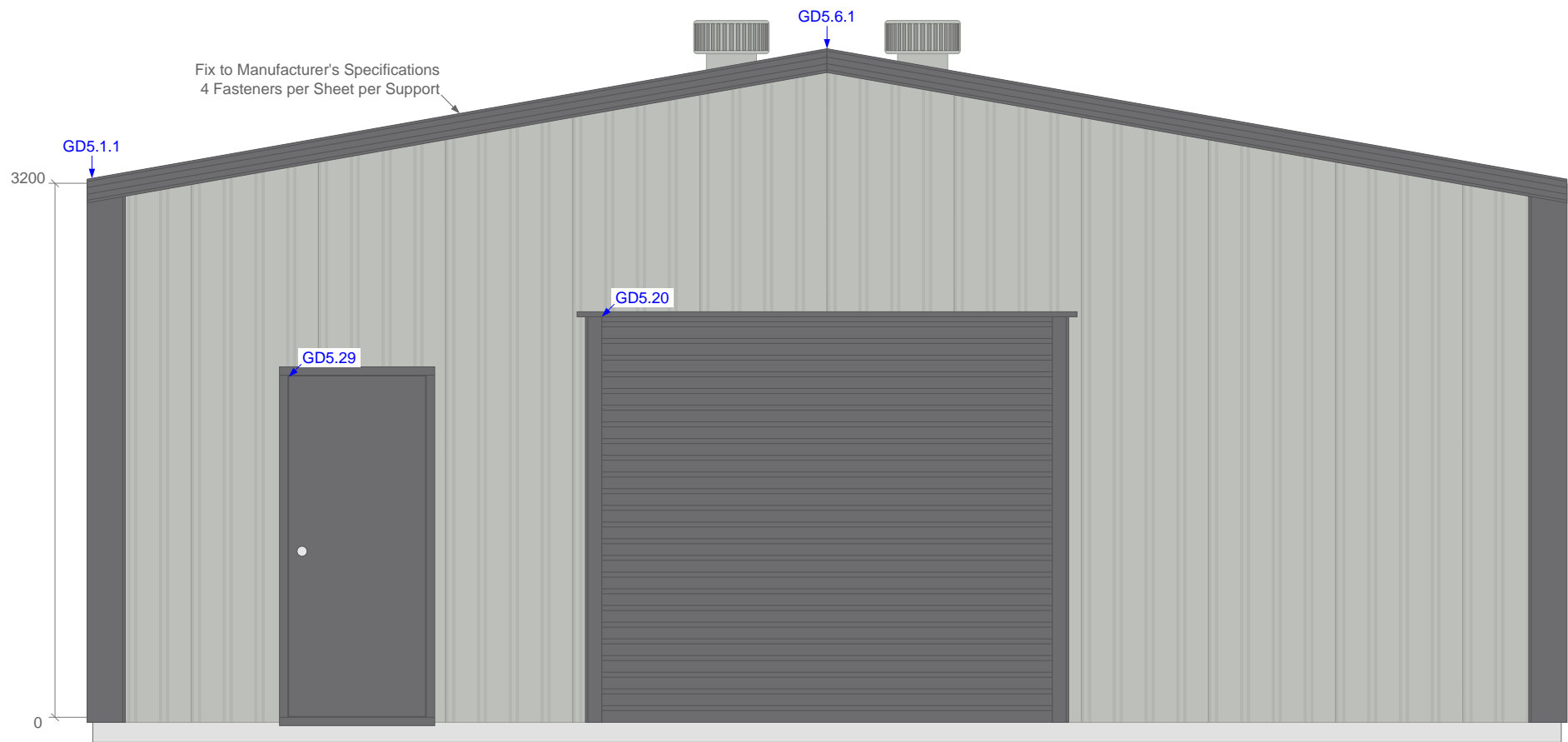
Note: X coordinates are to the outer edge of the Footing Plate Web. Y coordinates are to the outer edge of the Footing Plate Flange, closest to and parallel to the Slab edge.


	PROJECT: Example 8800 x 12192 x 3200 Region B1 Gable Shed		PROJECT NUMBER: 6460		© 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			
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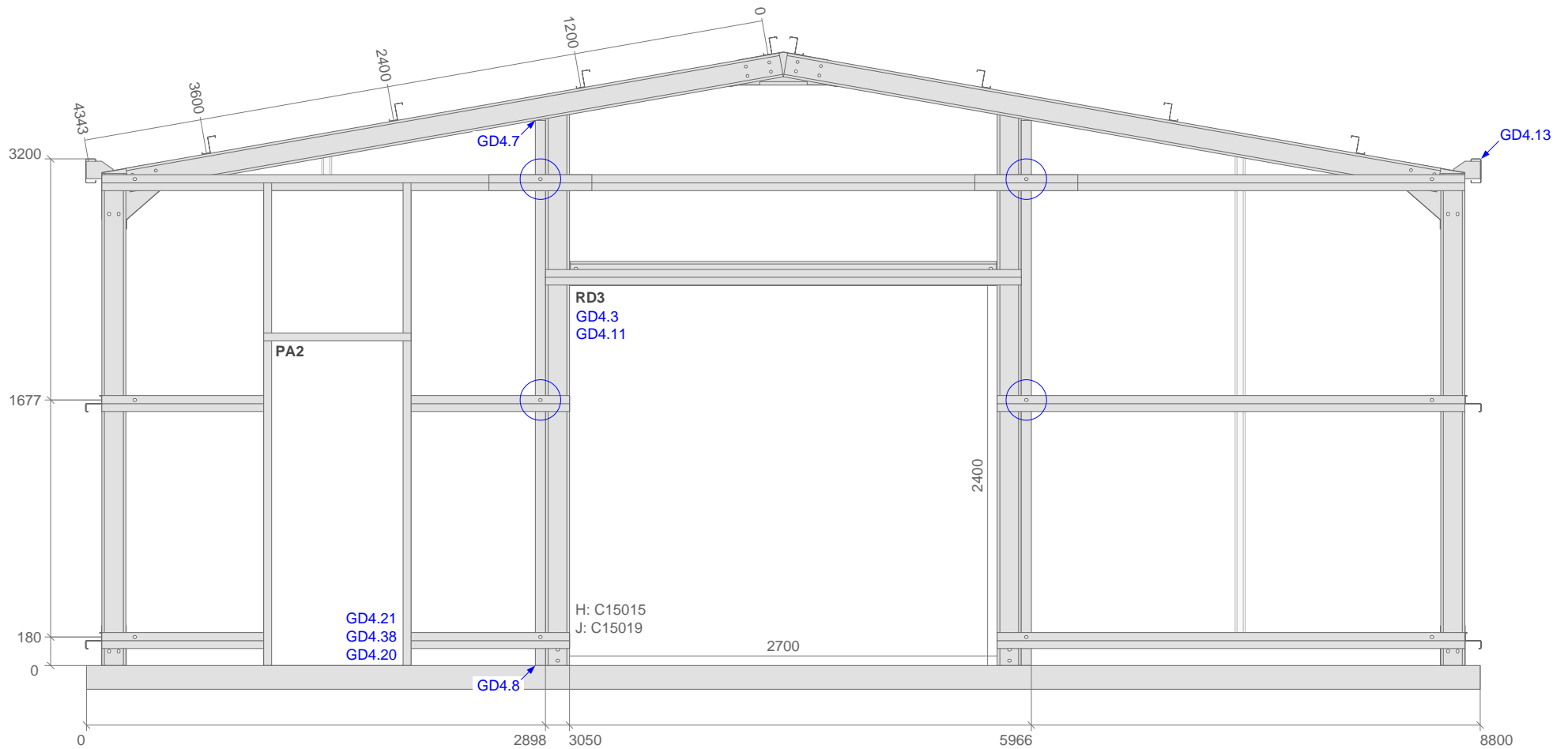


Note: X coordinates are to the outer edge of the Footing Plate Web. Y coordinates are to the outer edge of the Footing Plate Flange, closest to and parallel to the Slab edge.

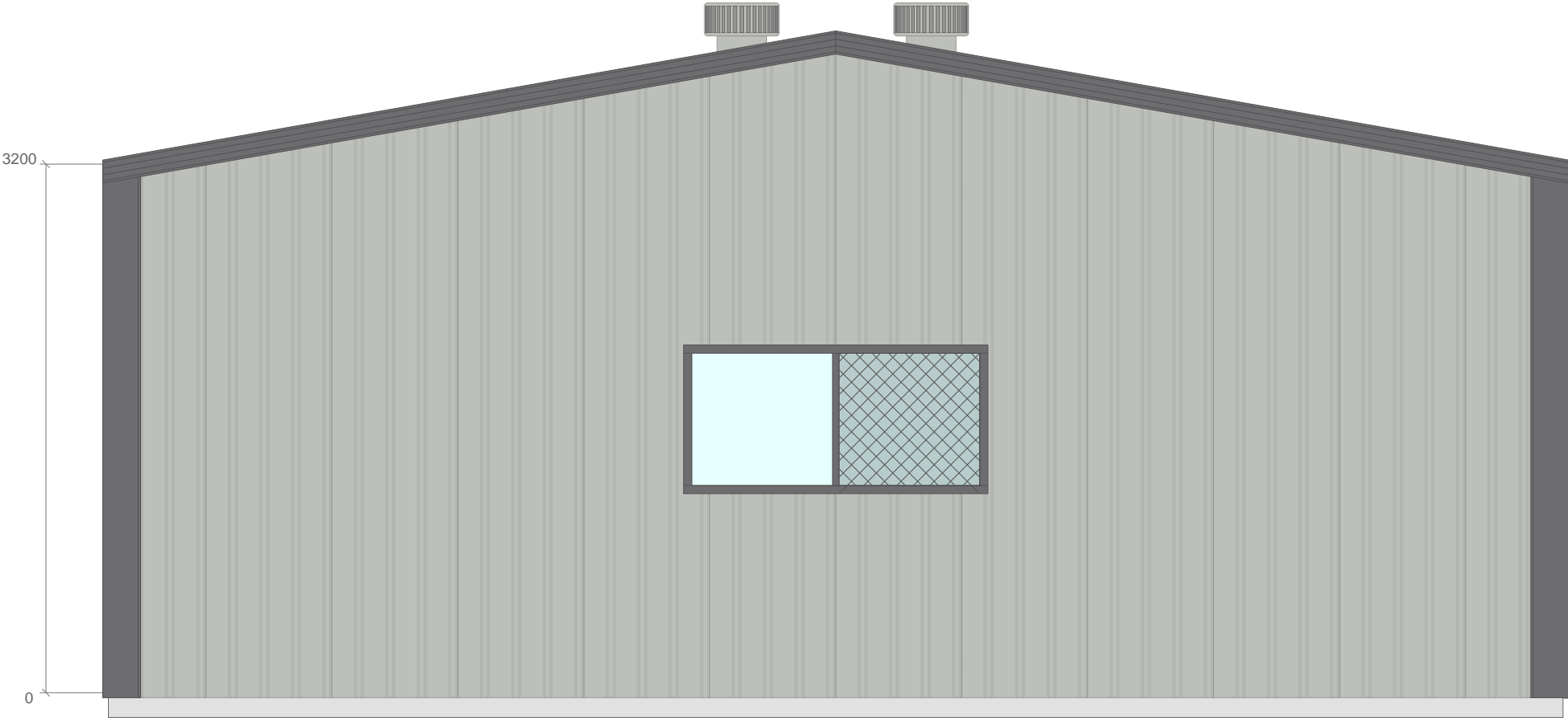
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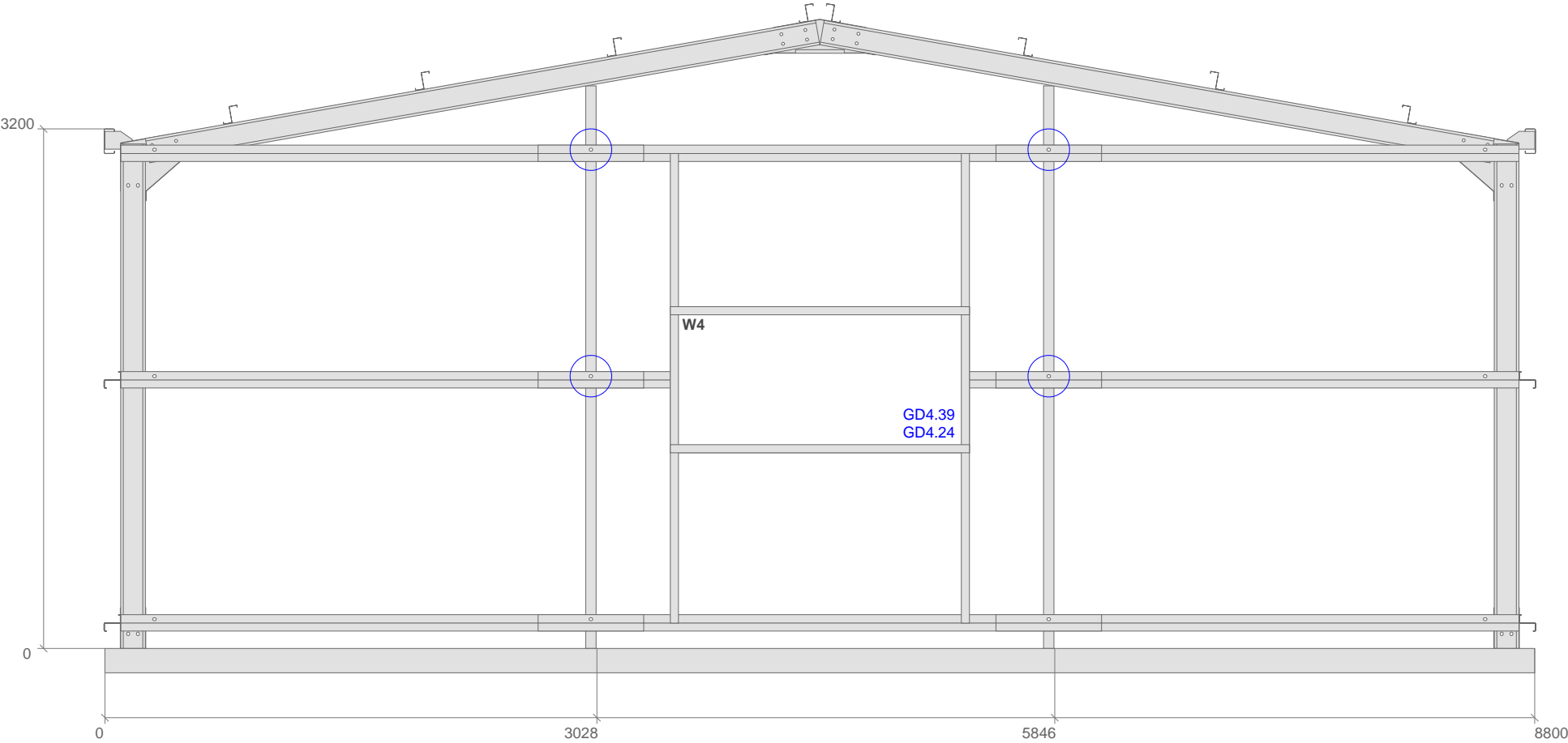
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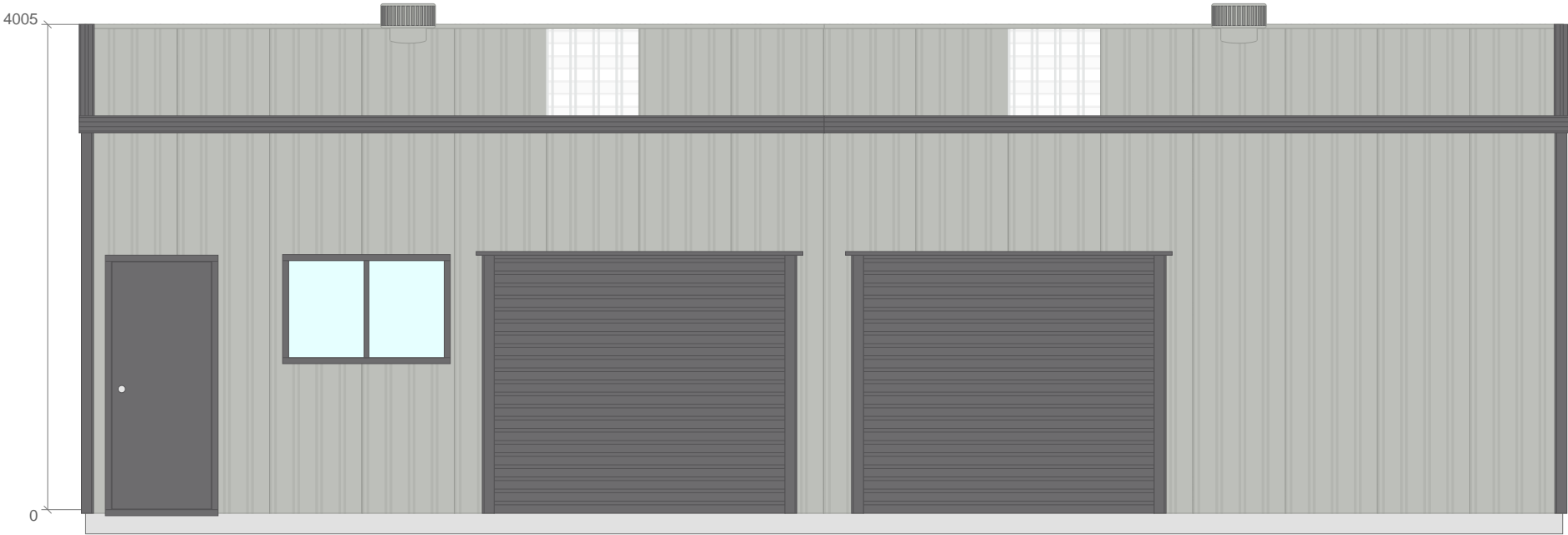
	PROJECT: Example 8800 x 12192 x 3200 Region B1 Gable Shed	PROJECT NUMBER: 6460	© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com			
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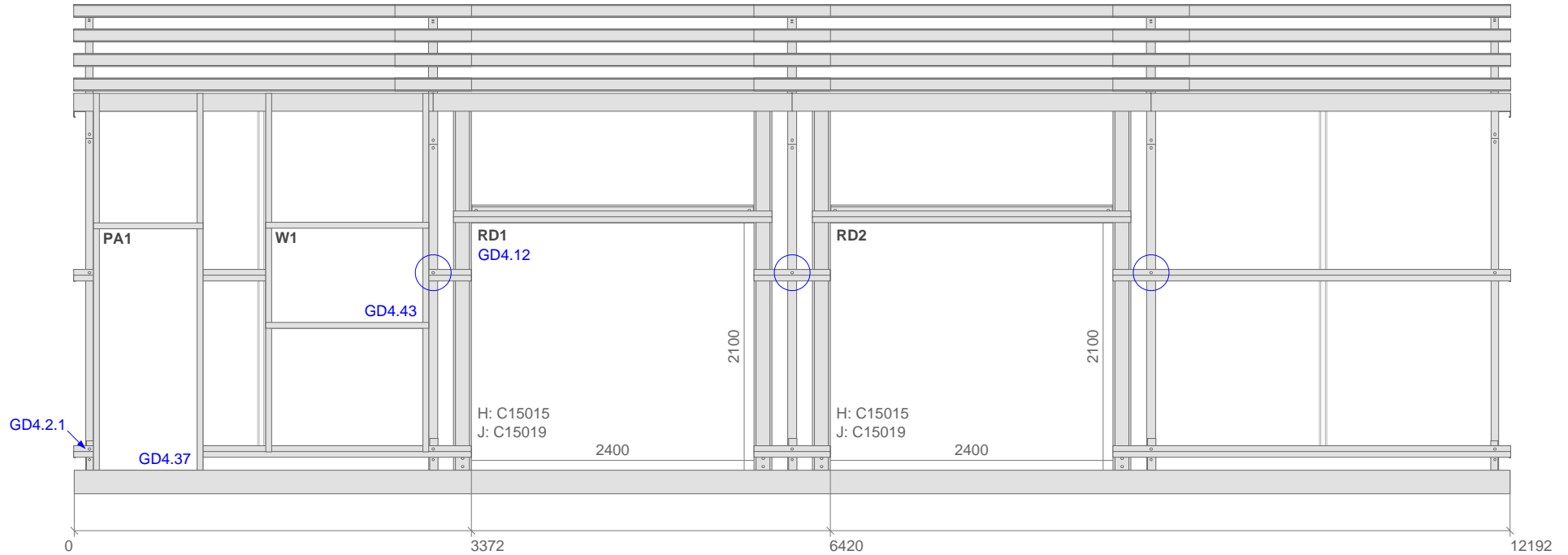
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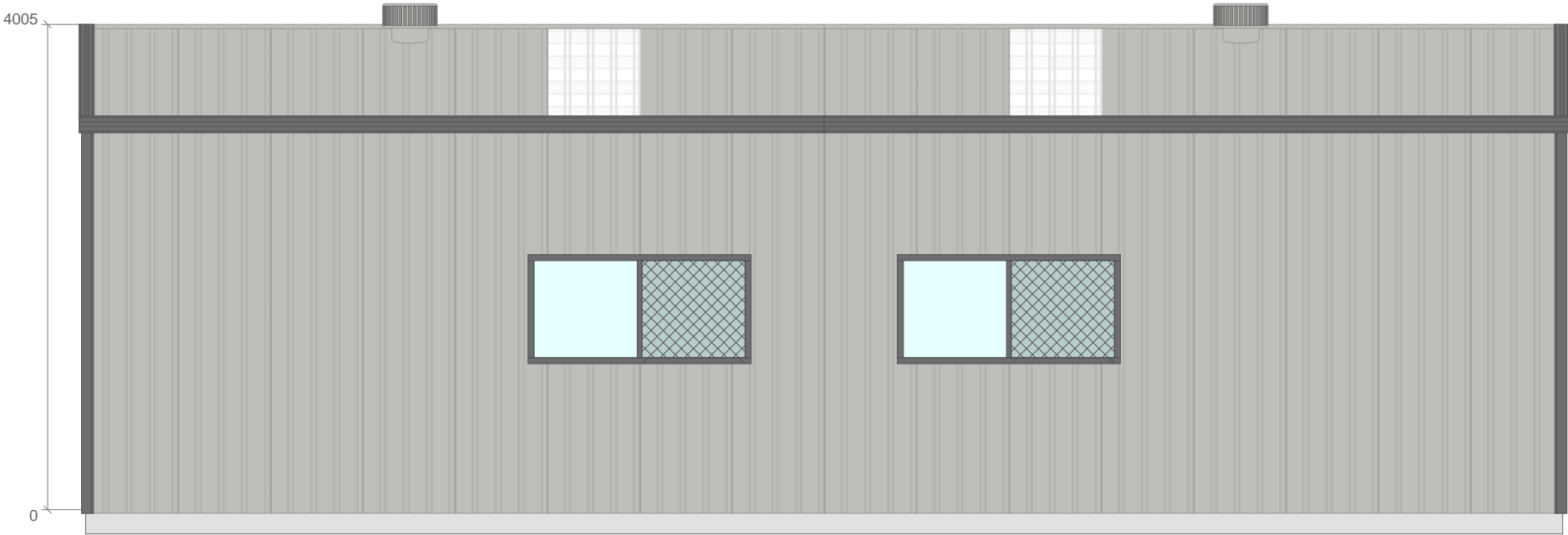



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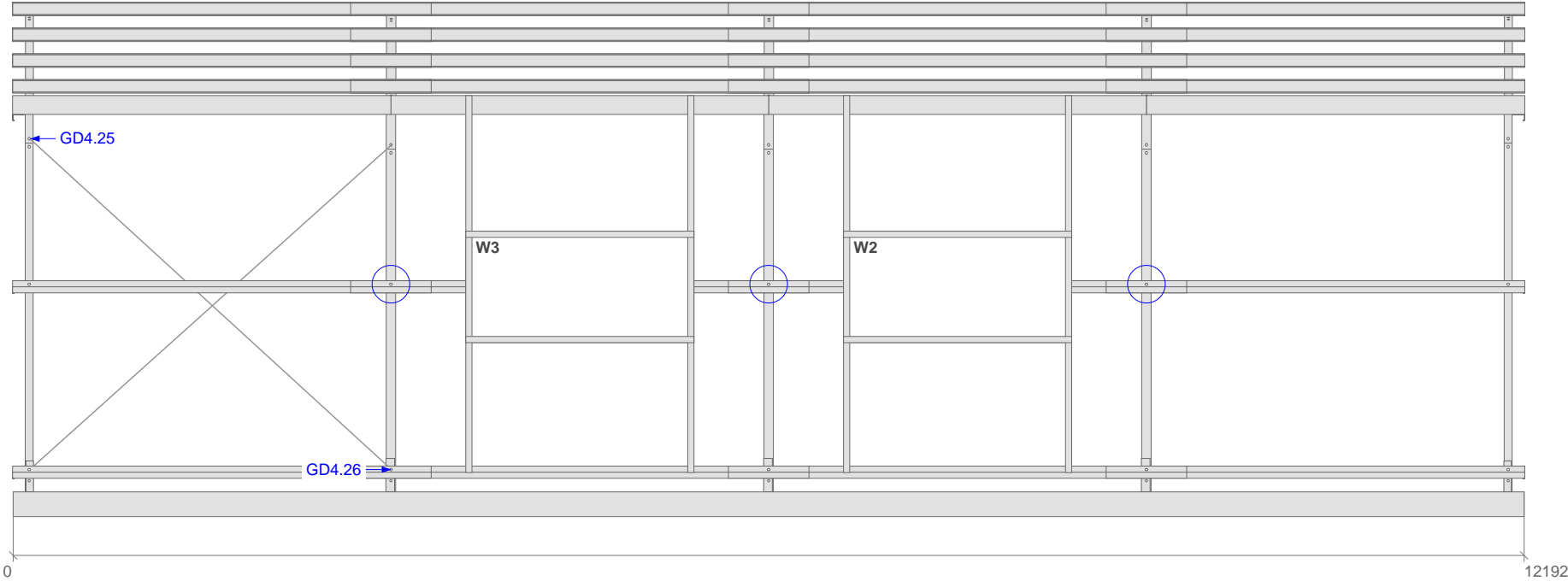



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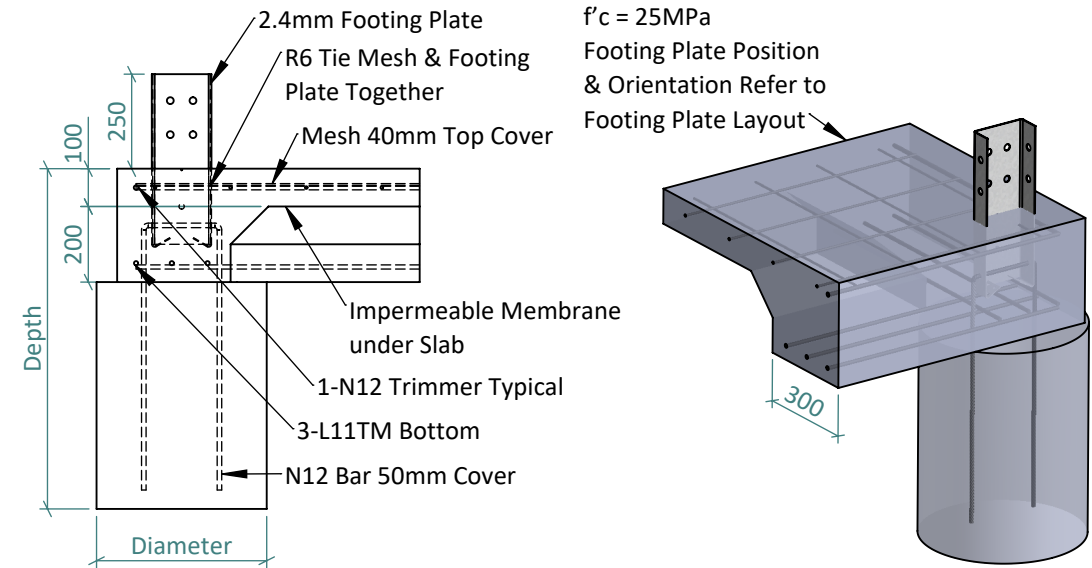


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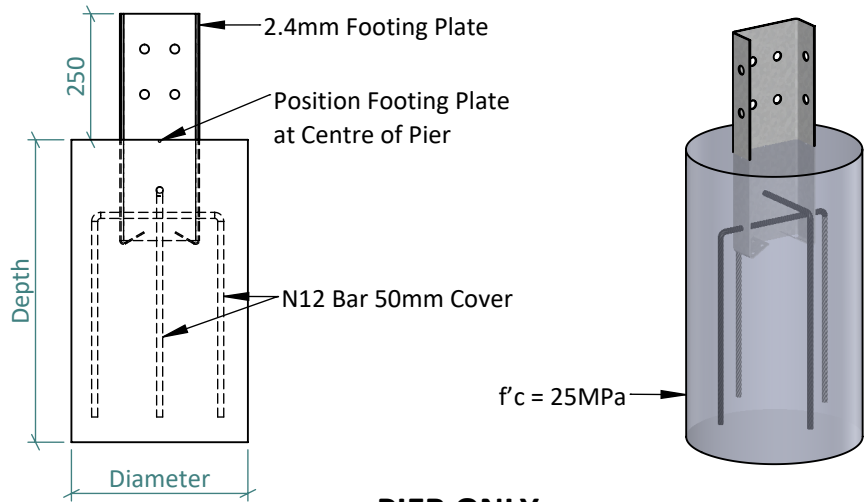


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	ADDRESS: Example Street, Suburb QLD 4444	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 13 of 46

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



PIER WITH SLAB & BEAMS



PIER ONLY

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



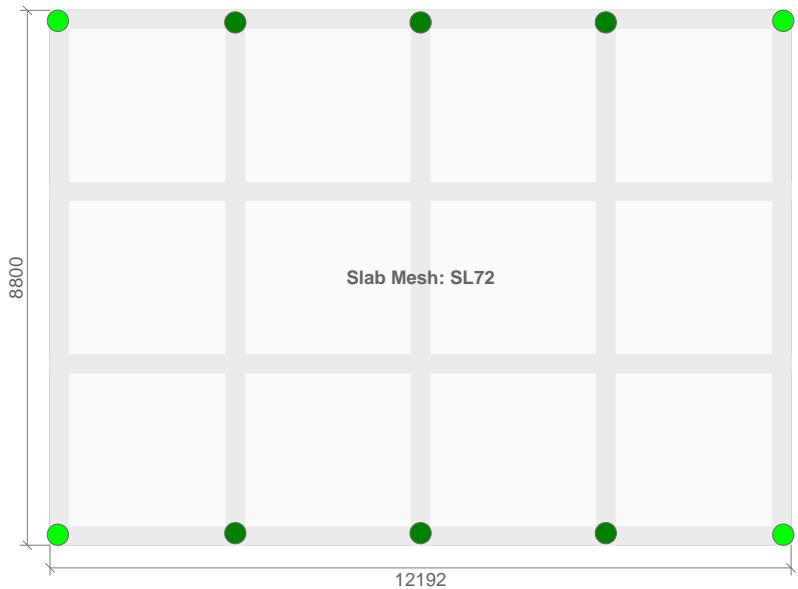
Video: Scan or Right-Click

Pier with Slab & Beams Gable Ends ●

Depth 400mm
Diameter 350mm

Pier Only

Depth 1000mm
Diameter 350mm



PROJECT:
Example 8800 x 12192 x 3200 Region B1 Gable Shed

CLIENT:
Example Customer

ADDRESS:
Example Street, Suburb QLD 4444

PROJECT NUMBER:
6460

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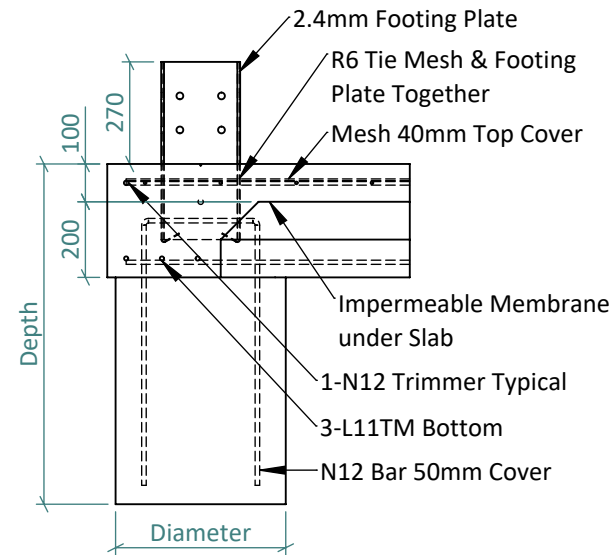
DRAWN DATE:
2022-09-28

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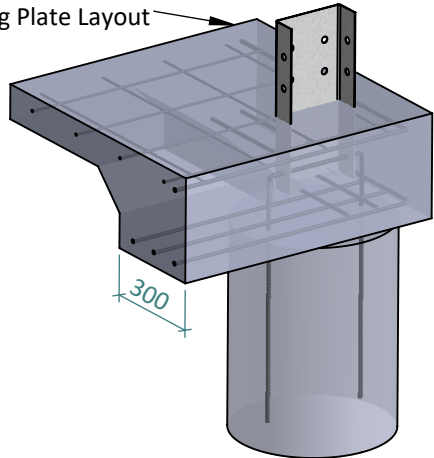
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ISSUE:	SIZE:	SCALE:	DRAWING NUMBER
1	A4	NTS	14 of 46

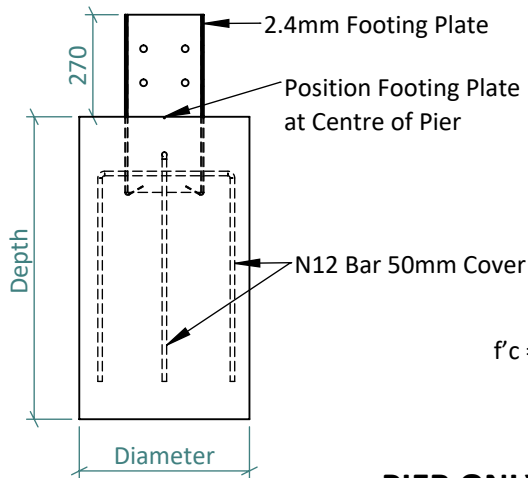
« Detail 1.24B: Internal Portal Slab & Pier Connection Detail



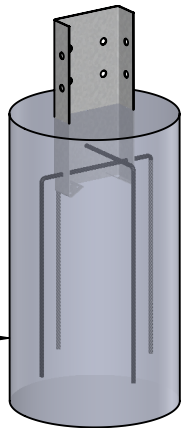
$f'c = 25\text{MPa}$
Footing Plate Position
& Orientation Refer to
Footing Plate Layout



PIER WITH SLAB & BEAMS



$f'c = 25\text{MPa}$



PIER ONLY

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



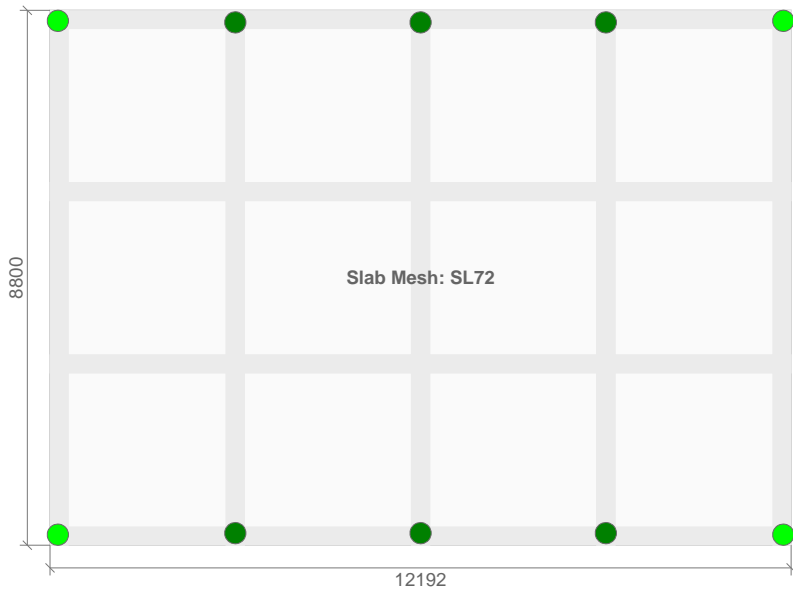
Video: Scan or
Right-Click

Pier with Slab & Beams Internal Portals ●

Depth 500mm
Diameter 350mm

Pier Only

Depth 1200mm
Diameter 350mm



PROJECT:
Example 8800 x 12192 x 3200 Region B1 Gable Shed
CLIENT:
Example Customer
ADDRESS:
Example Street, Suburb QLD 4444

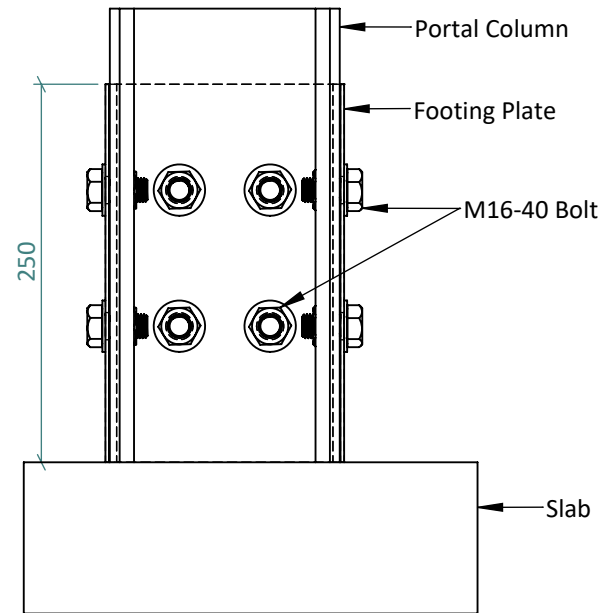
PROJECT NUMBER:
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DRAWN BY:
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DRAWN DATE:
2022-09-28

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ISSUE: 1
SIZE: A4
SCALE: NTS
DRAWING NUMBER: 15 of 46

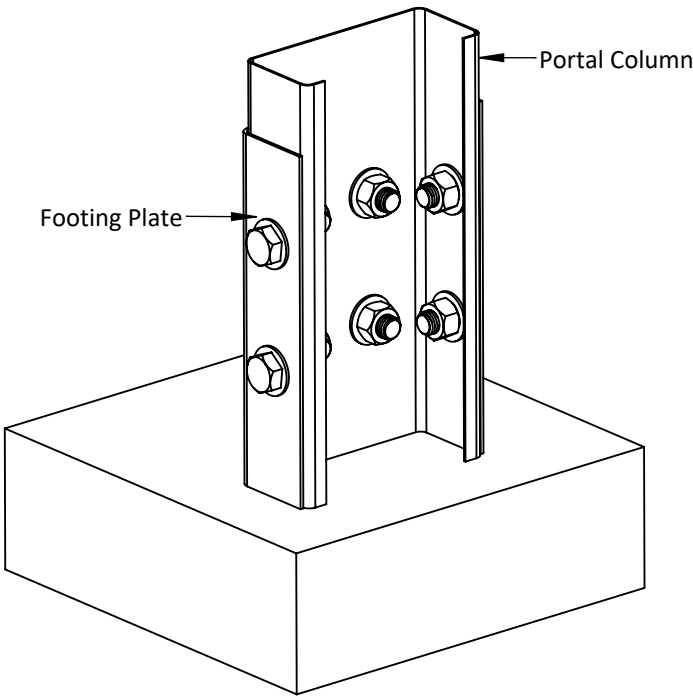
« Detail 1.32: Footing Plates Connection Detail



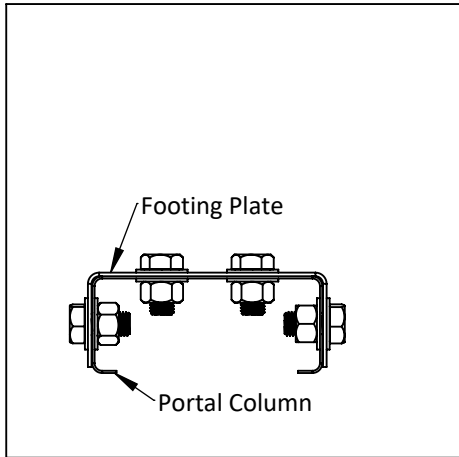
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Right-Click




ELEVATION



ISOMETRIC



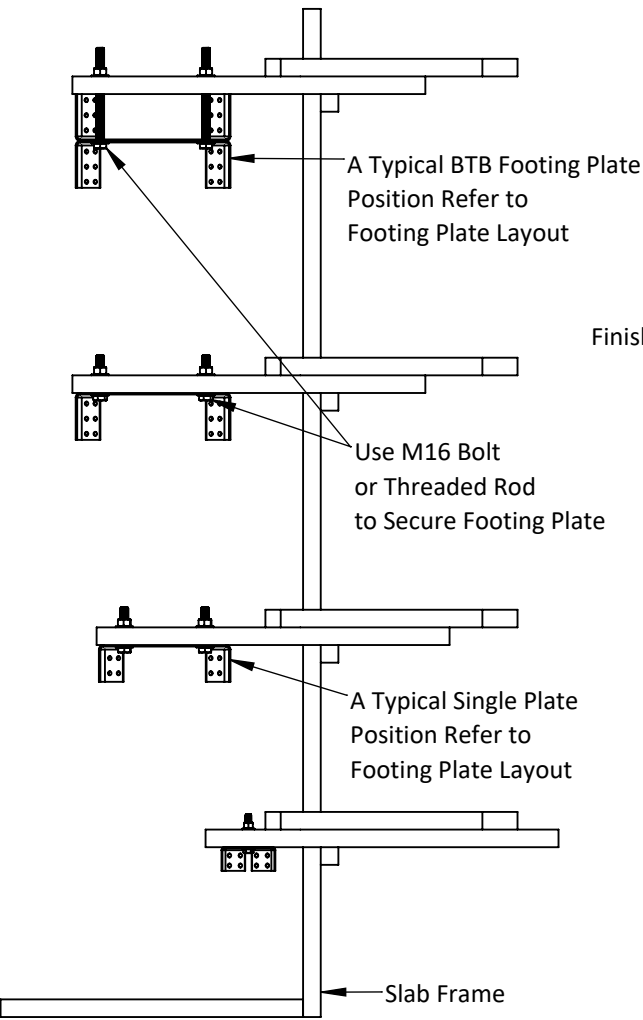
PLAN

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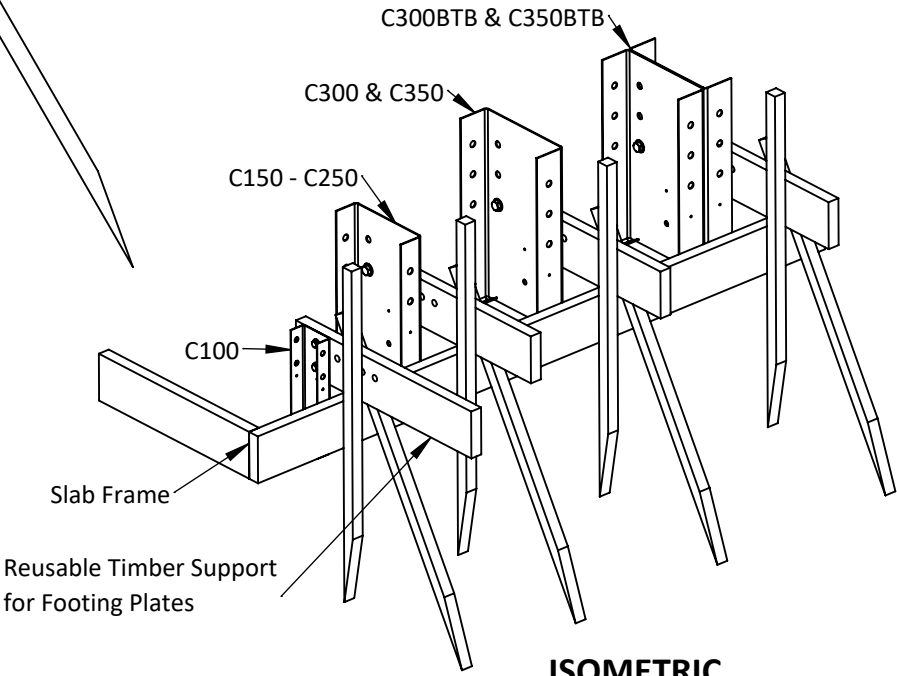
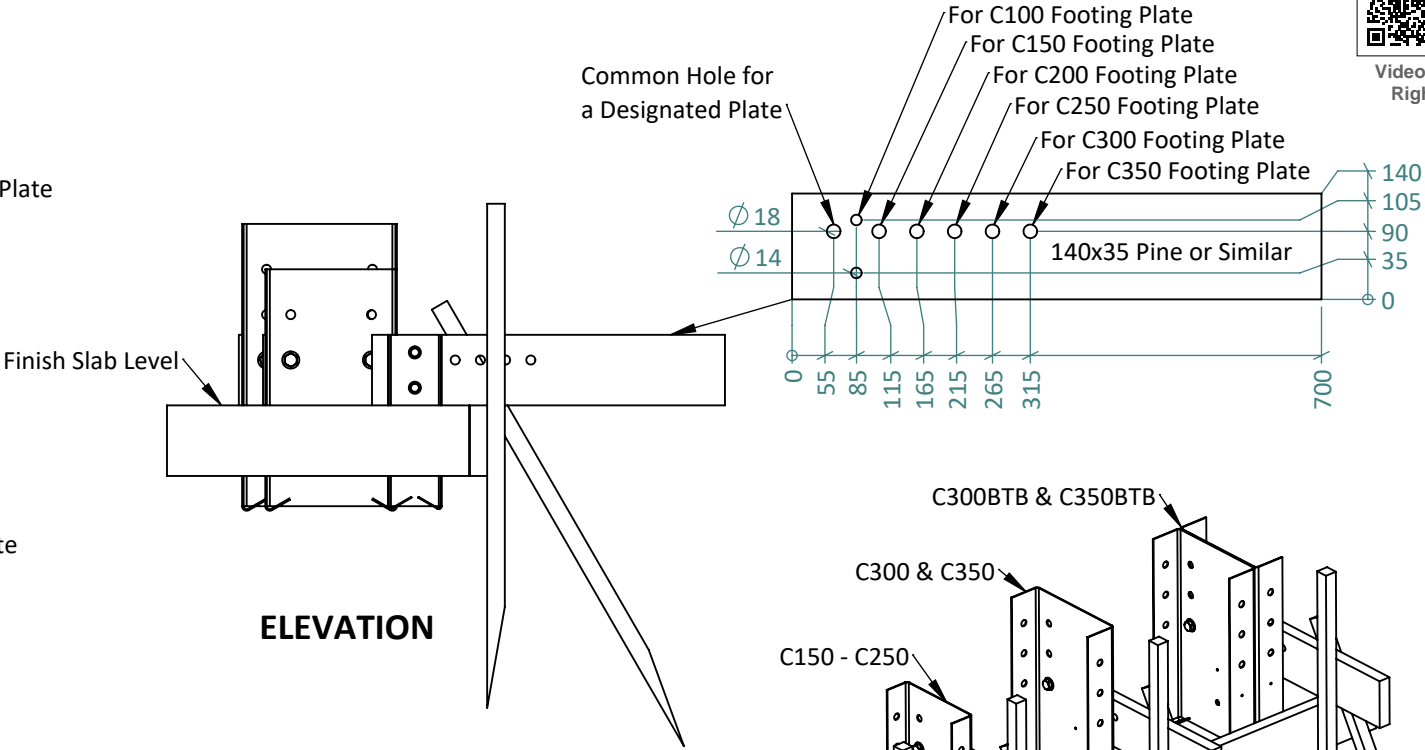
« Detail 1.50: Slab and Pier Connection Detail



Video: Scan or
Right-Click



PLAN



PROJECT:
Example 8800 x 12192 x 3200 Region B1 Gable Shed

CLIENT:
Example Customer

ADDRESS:
Example Street, Suburb QLD 4444

PROJECT NUMBER:
6460

DRAWN BY:
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DRAWN DATE:
2022-09-28

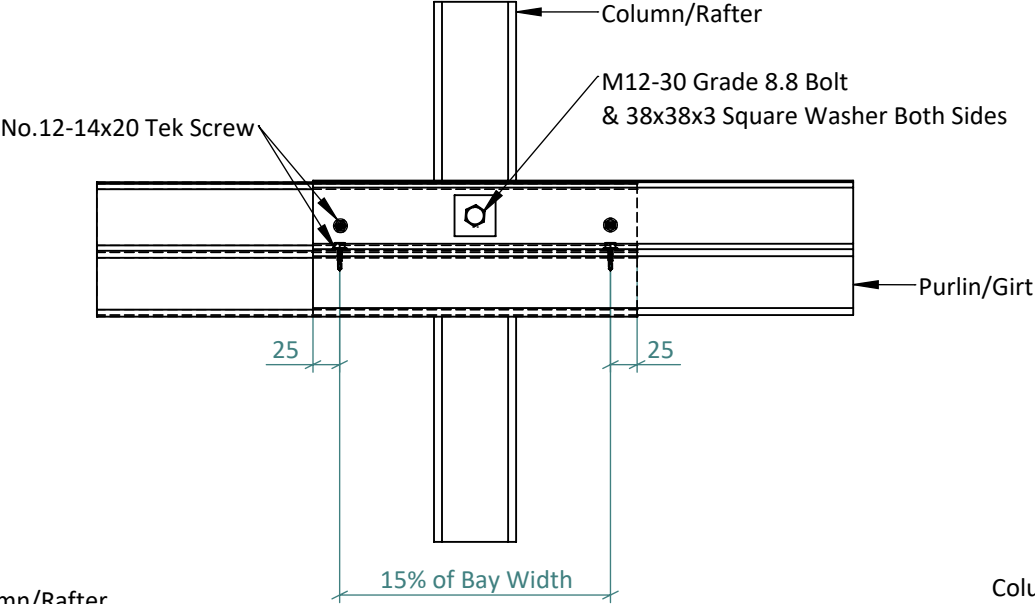
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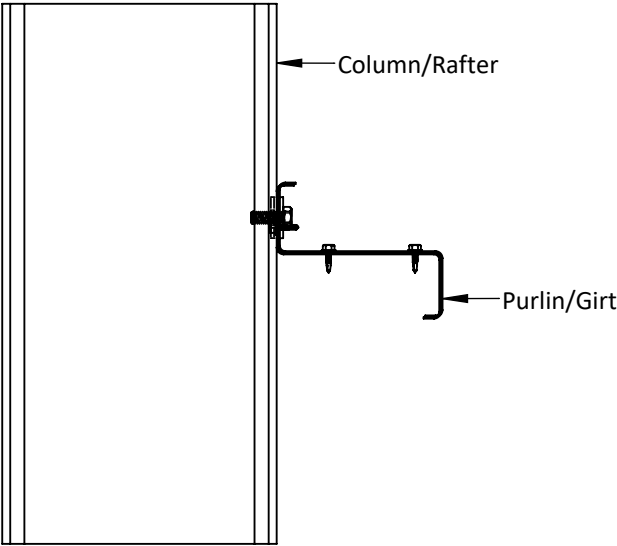
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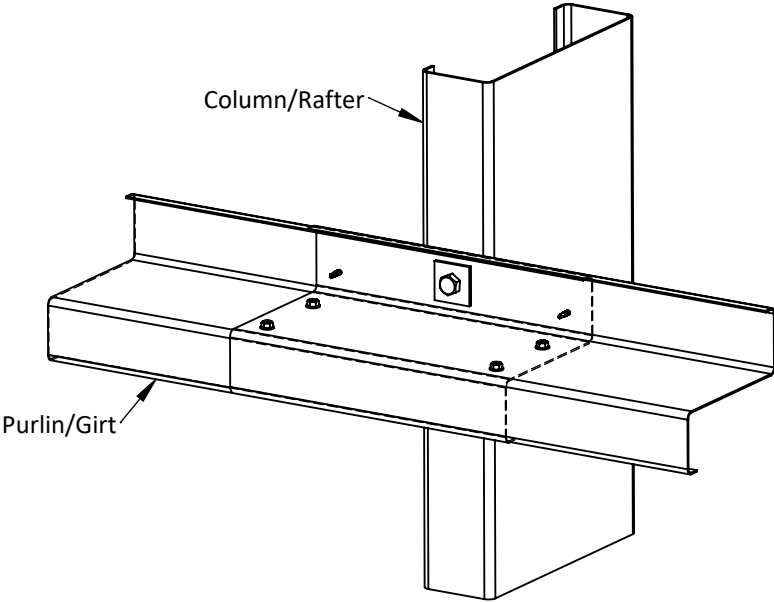
Video: Scan or
Right-Click



ELEVATION 2



ELEVATION 1



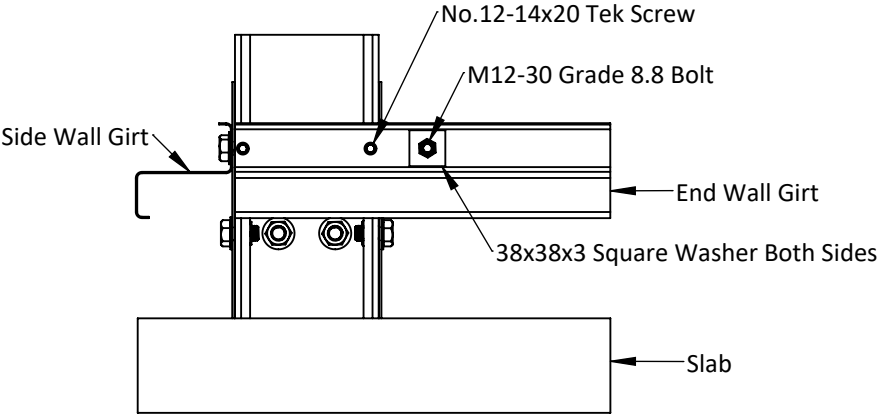
ISOMETRIC

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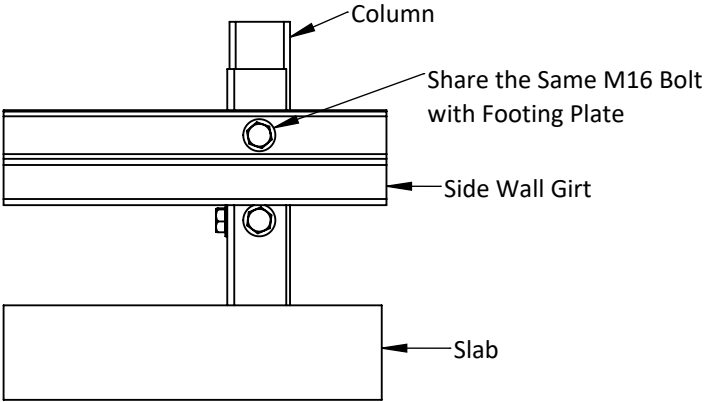
« Detail GD4.2.1: Girt Corner Connection Detail



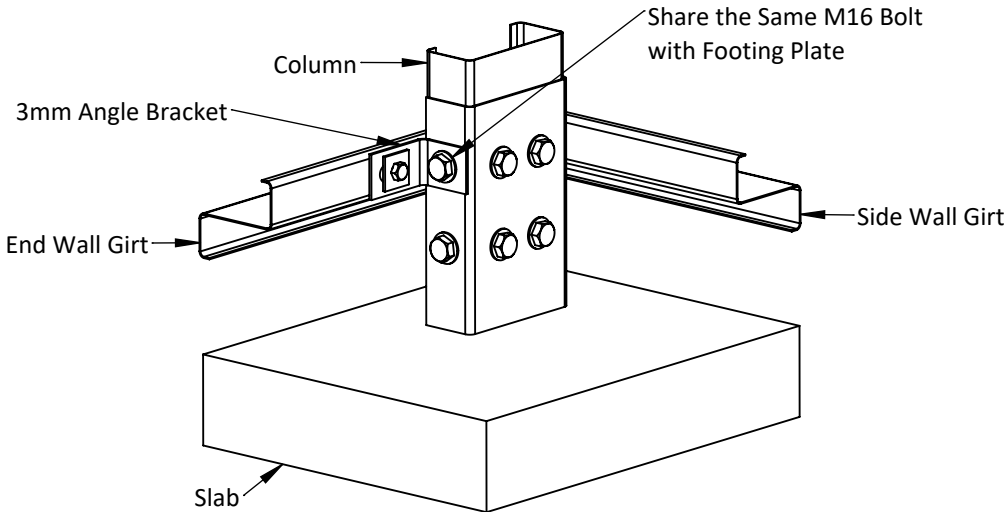
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Right-Click



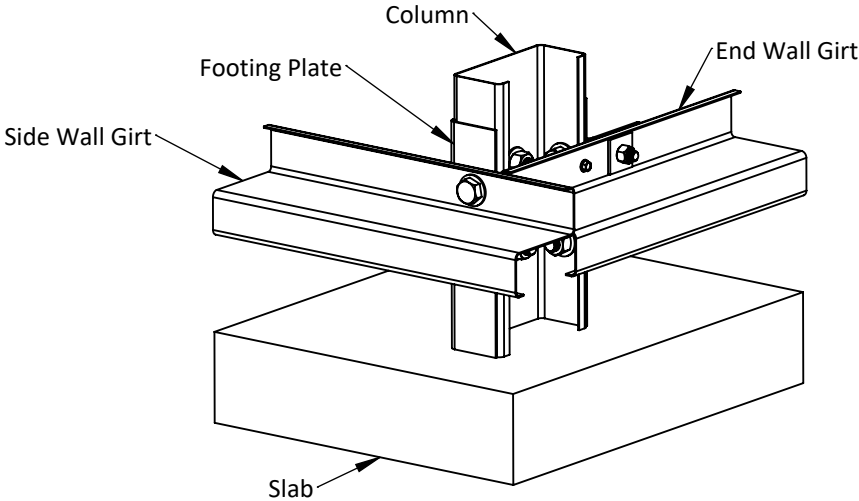
END ELEVATION



SIDE ELEVATION



ISOMETRIC 2



ISOMETRIC 1



PROJECT:
Example 8800 x 12192 x 3200 Region B1 Gable Shed

CLIENT:
Example Customer

ADDRESS:
Example Street, Suburb QLD 4444

PROJECT NUMBER:
6460

DRAWN BY:
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DRAWN DATE:
2022-09-28

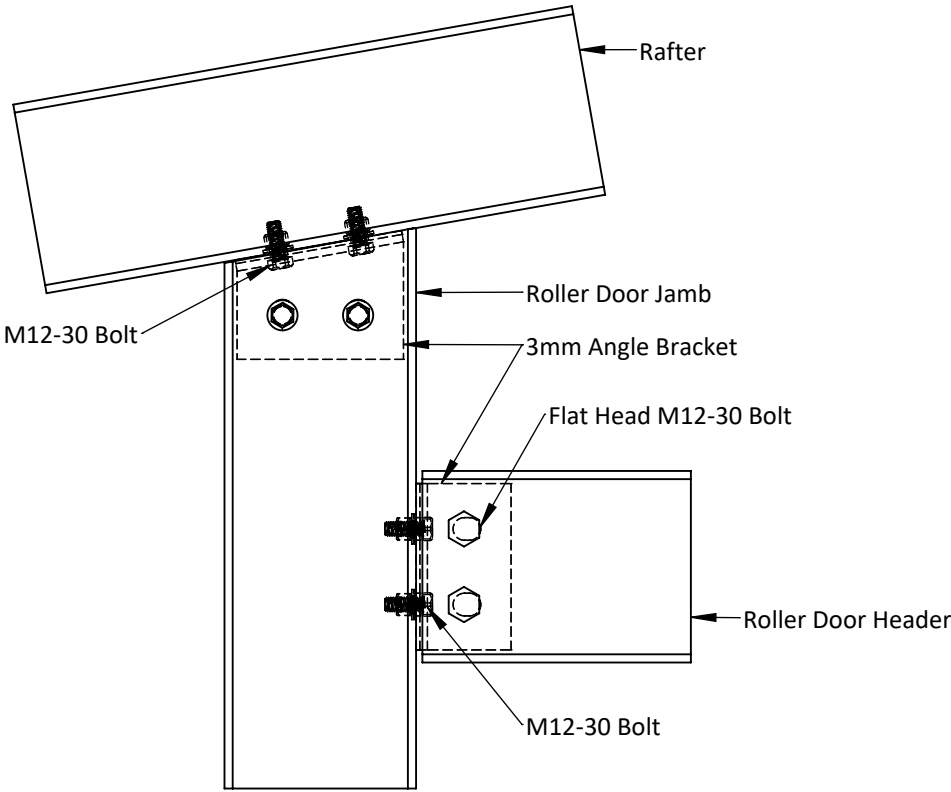
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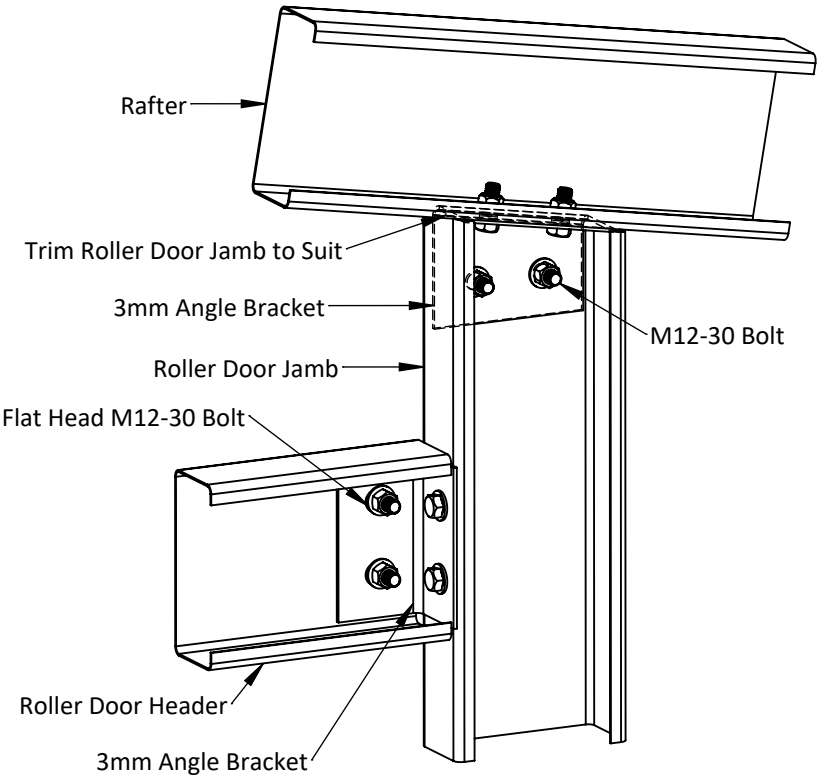
ISSUE:	SIZE:	SCALE:	DRAWING NUMBER
1	A4	NTS	19 of 46



Video: Scan or
Right-Click



ELEVATION
(VIEW FROM INSIDE BUILDING)



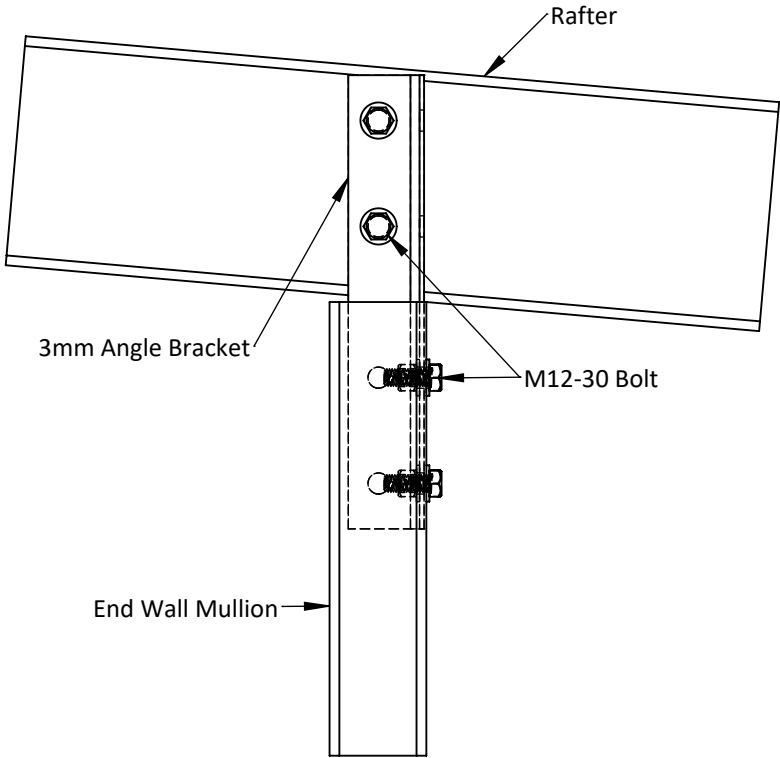
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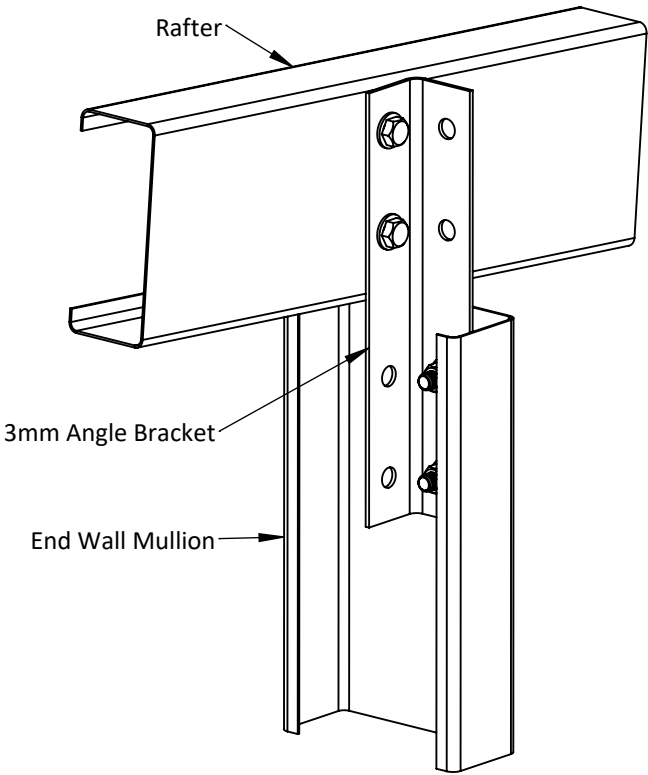
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ADDRESS: Example Street, Suburb QLD 4444	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 20 of 46




Video: Scan or
Right-Click



ELEVATION

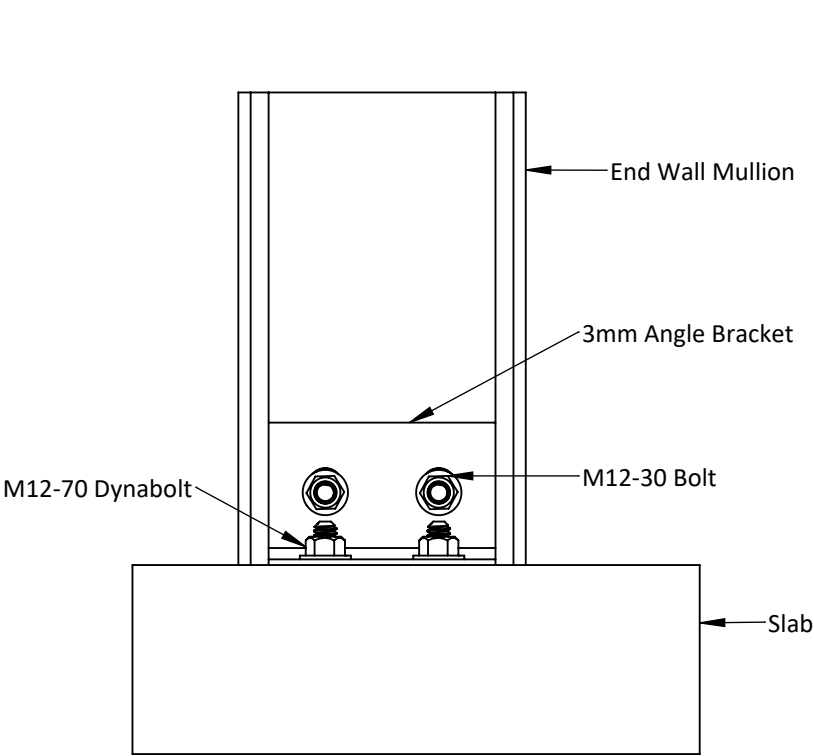


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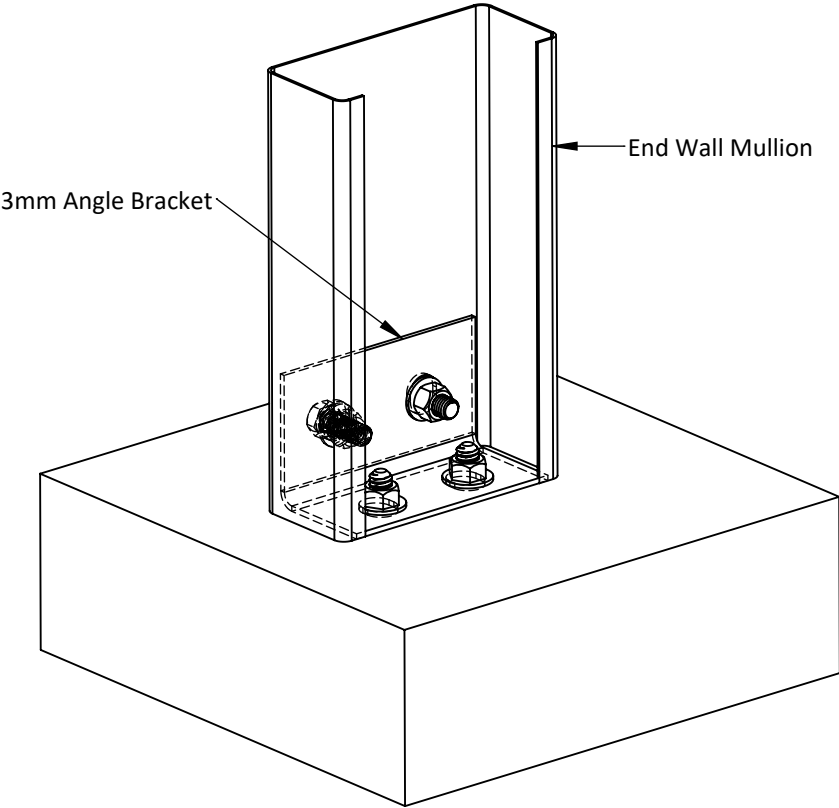
	PROJECT: Example 8800 x 12192 x 3200 Region B1 Gable Shed		PROJECT NUMBER: 6460		© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com			
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Video: Scan or
Right-Click



ELEVATION



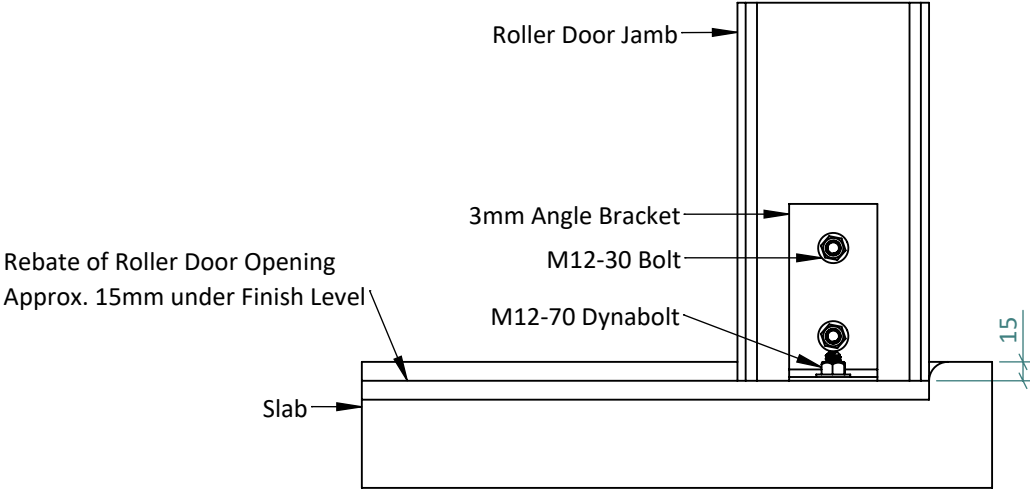
ISOMETRIC

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« Detail GD4.11: Roller Door Jamb to Slab Connection Detail

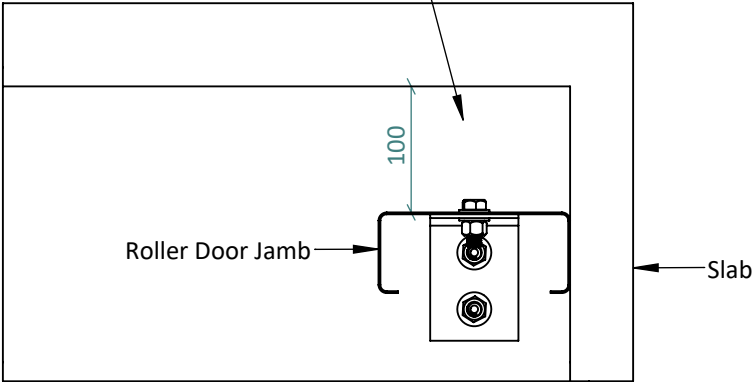


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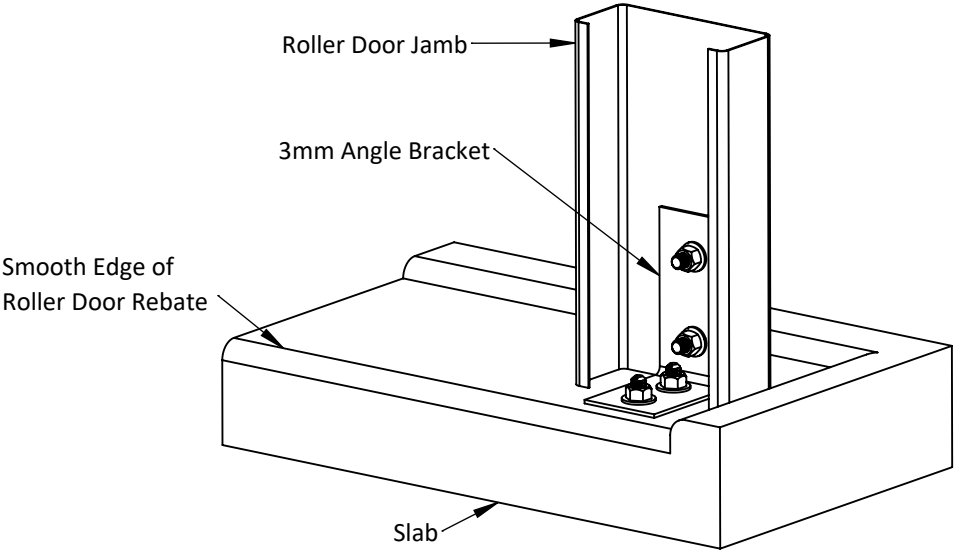


ELEVATION

Rebate of Roller Door Opening
Approx. 100mm to Roller Door Jamb



PLAN



ISOMETRIC

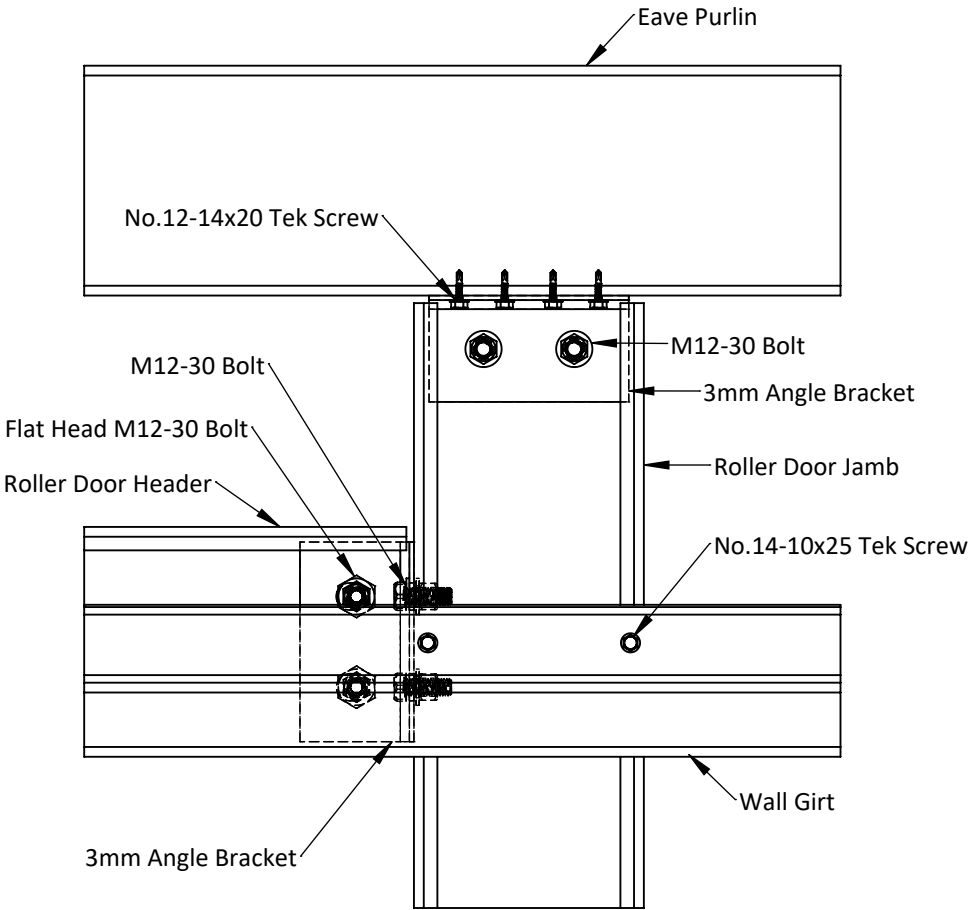


PROJECT: Example 8800 x 12192 x 3200 Region B1 Gable Shed	PROJECT NUMBER: 6460	© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com			
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ADDRESS: Example Street, Suburb QLD 4444	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 23 of 46

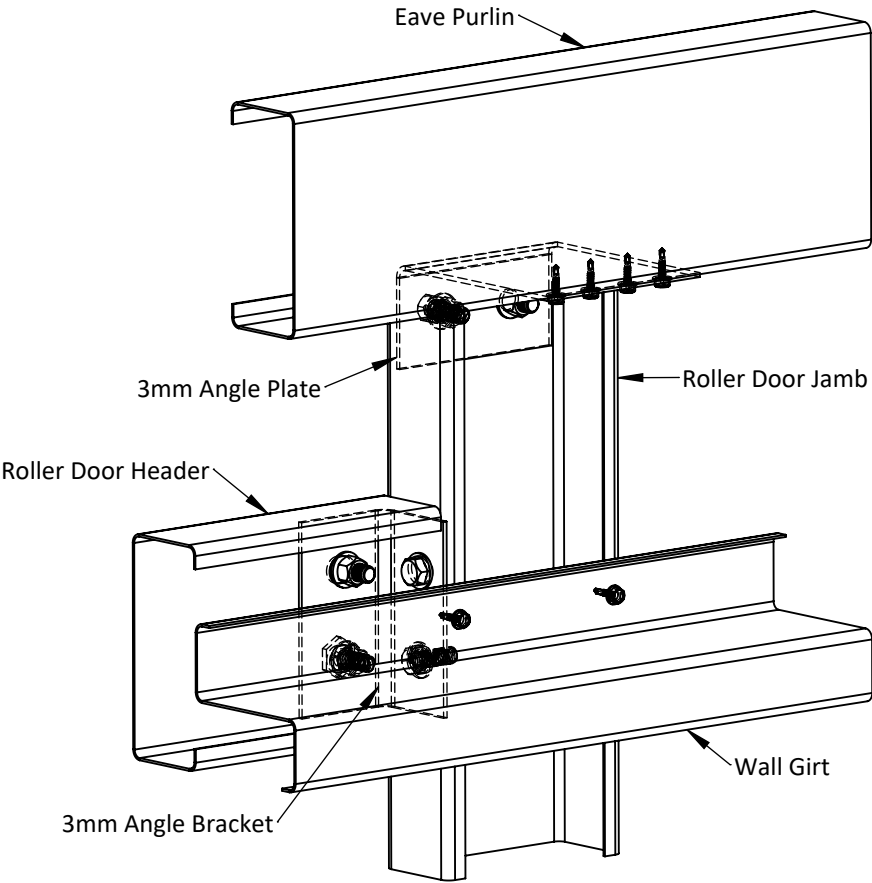
« Detail GD4.12: Roller Door Jamb to Header & Eave Purlin Connection Detail



Video: Scan or
Right-Click



ELEVATION

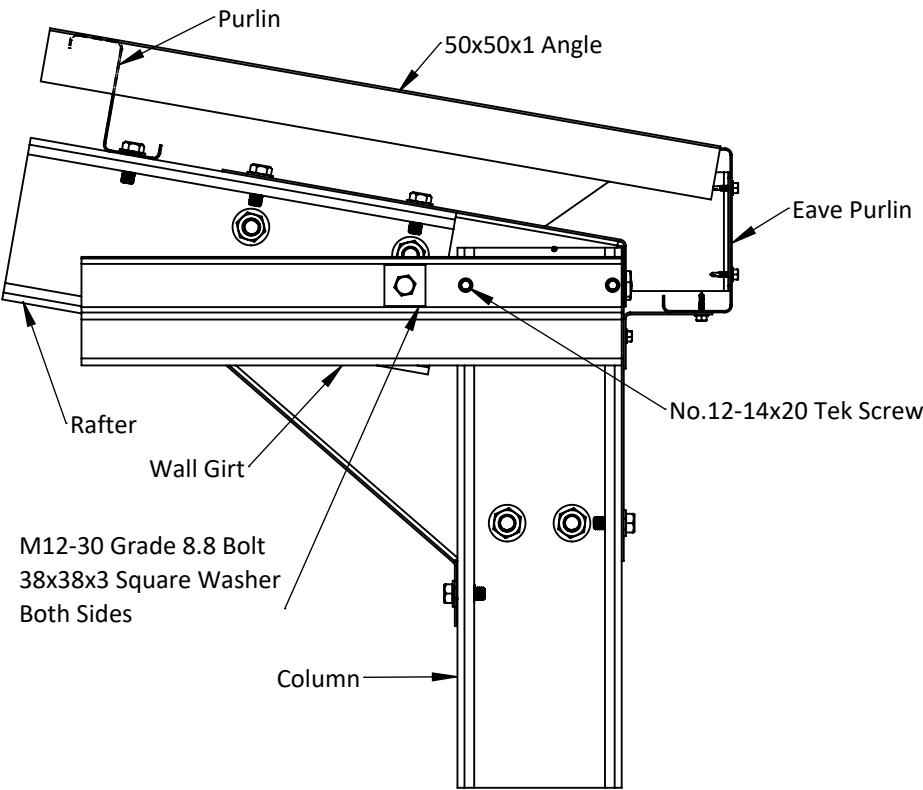


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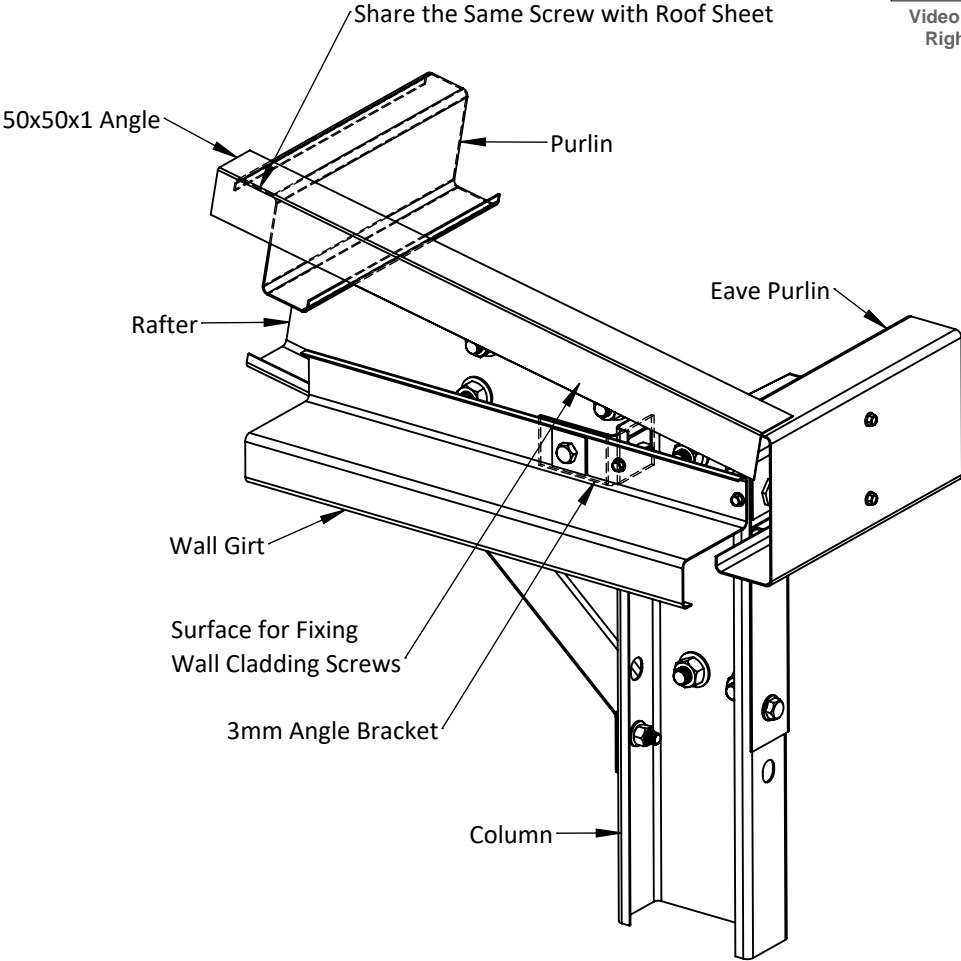
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Video: Scan or
Right-Click



ELEVATION



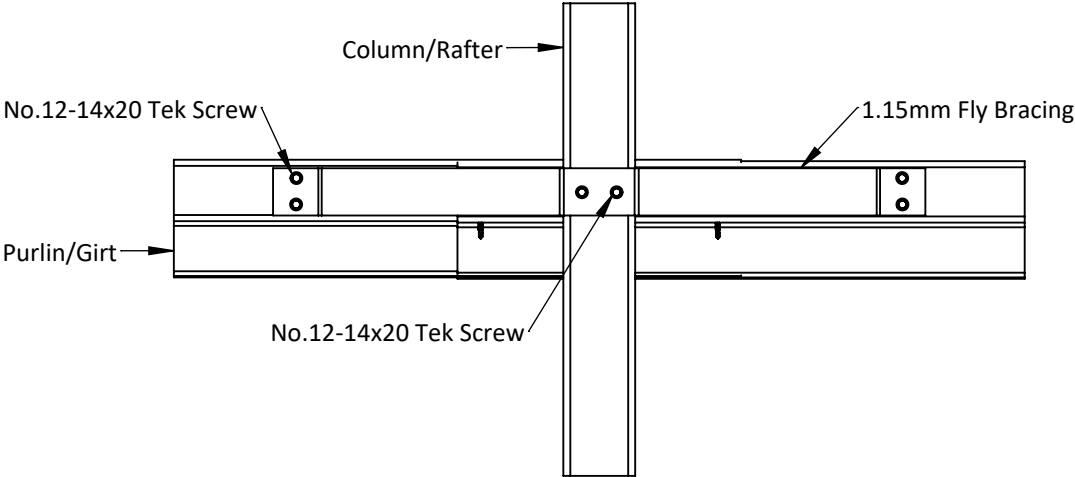
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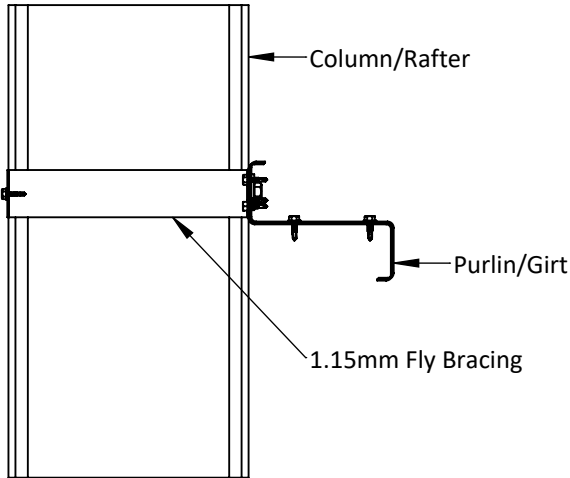
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ADDRESS: Example Street, Suburb QLD 4444	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 25 of 46



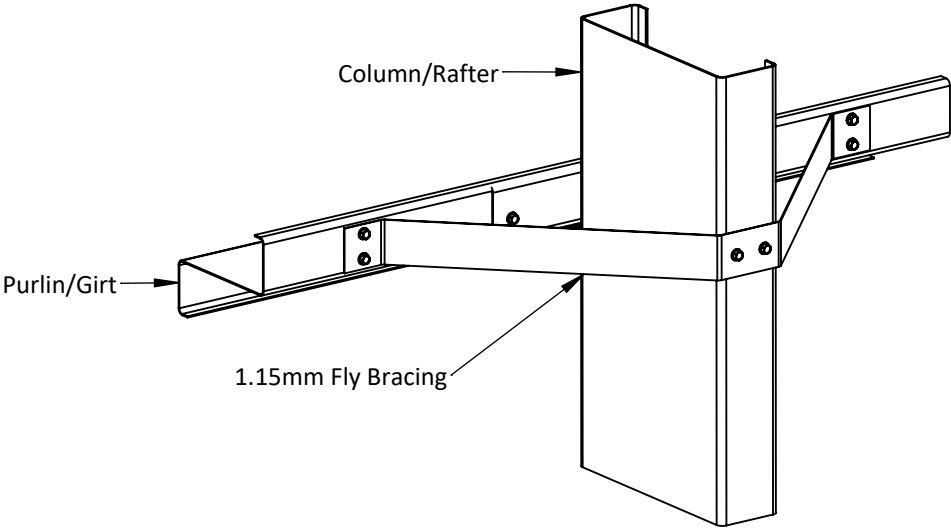
Video: Scan or
Right-Click




ELEVATION 2



ELEVATION 1

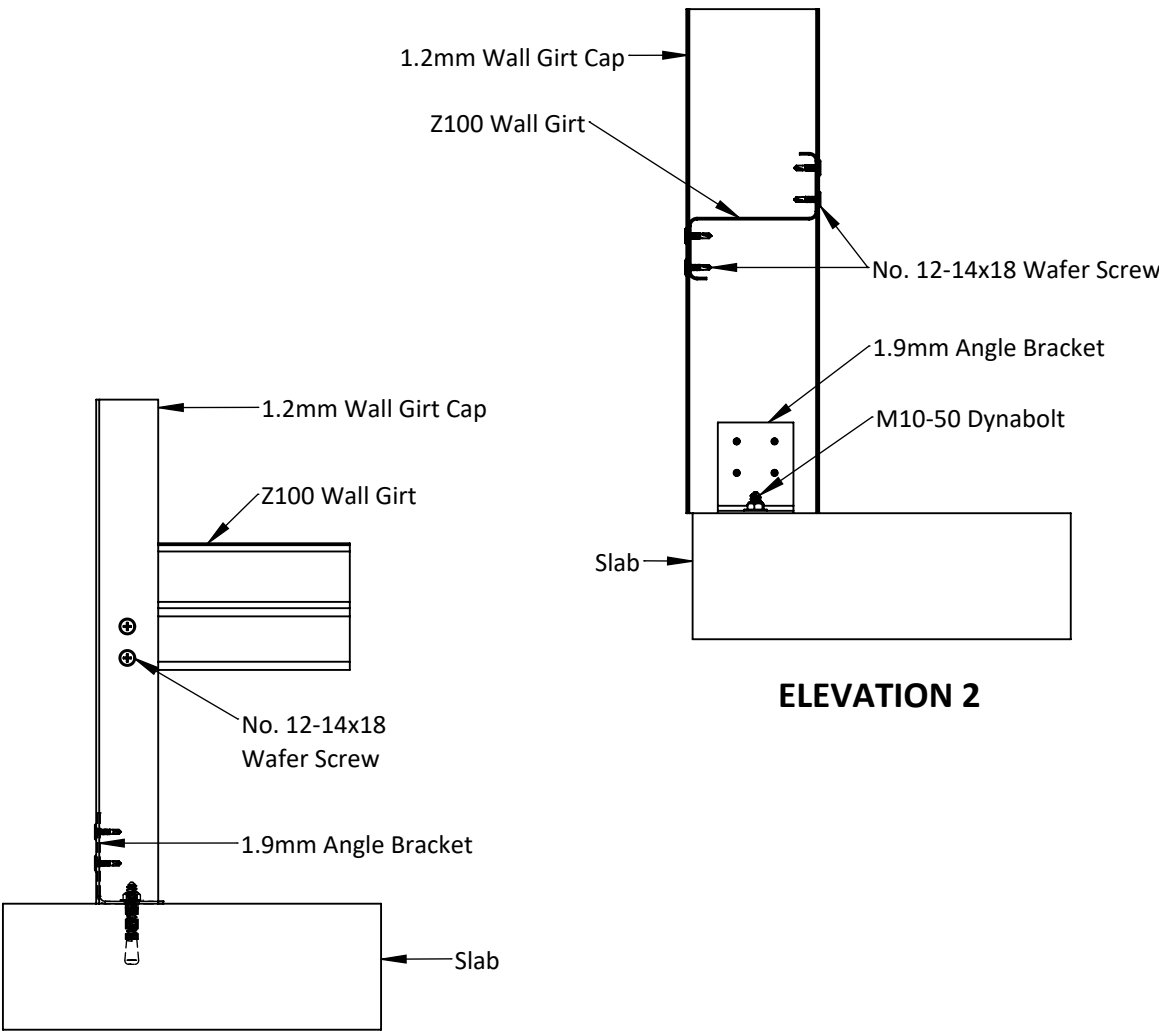


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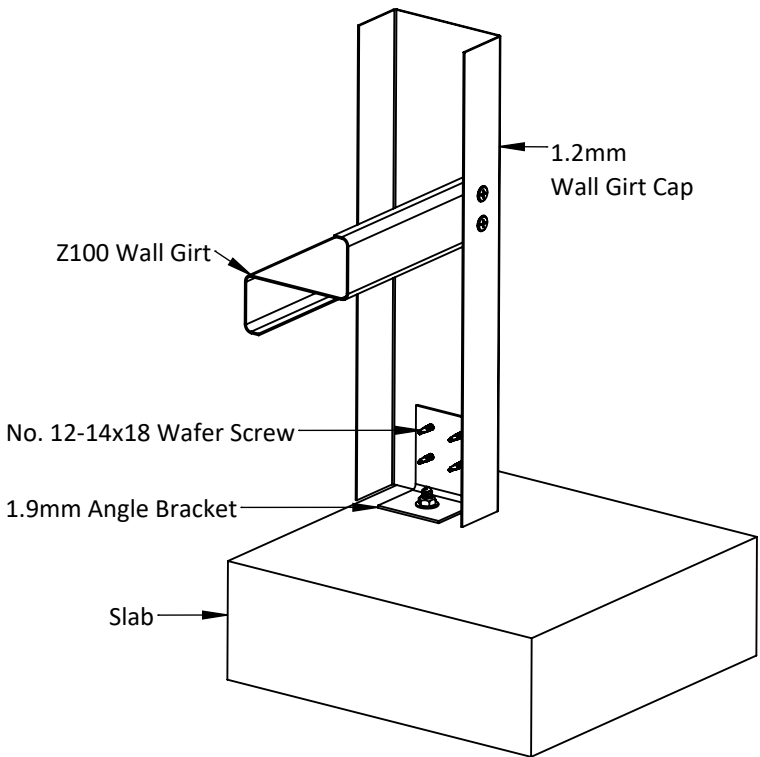


Video: Scan or
Right-Click



ELEVATION 2

ELEVATION 1



ISOMETRIC



PROJECT:
Example 8800 x 12192 x 3200 Region B1 Gable Shed

CLIENT:
Example Customer

ADDRESS:
Example Street, Suburb QLD 4444

PROJECT NUMBER:
6460

DRAWN BY:
dm3 Solutions

DRAWN DATE:
2022-09-28

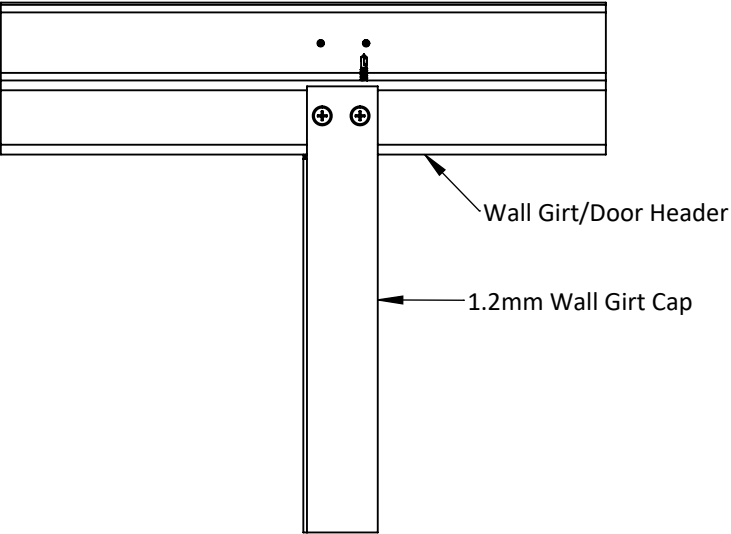
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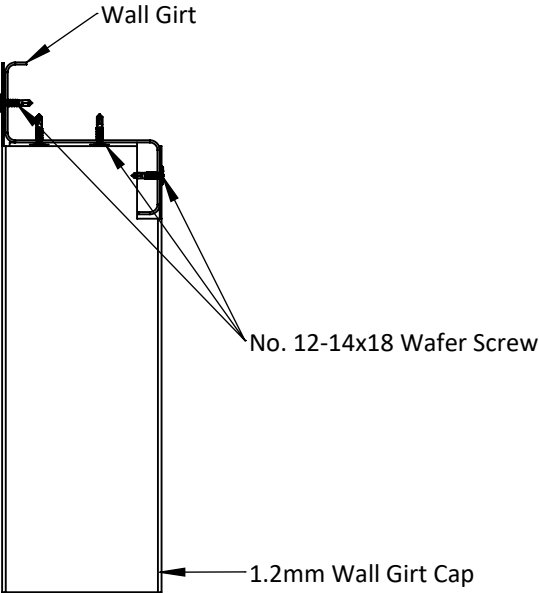
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1	A4	NTS	27 of 46



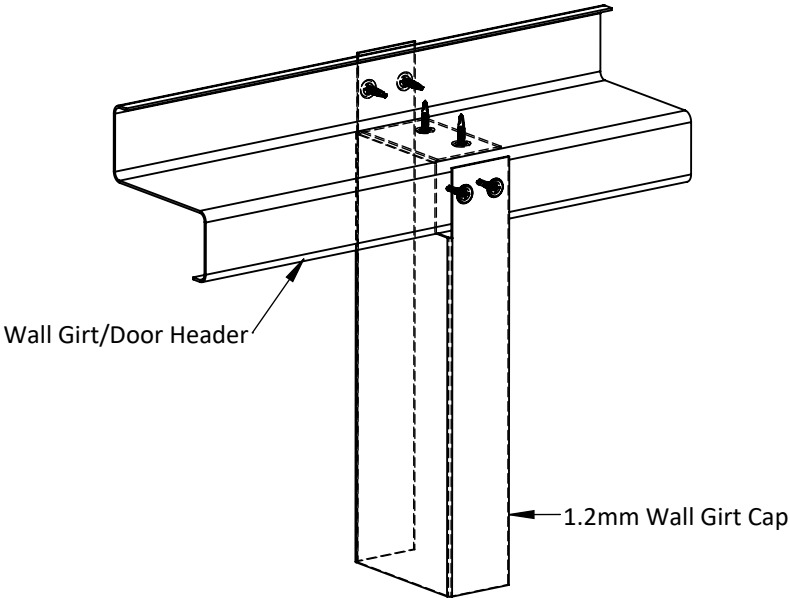
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Right-Click



ELEVATION 1



ELEVATION 2



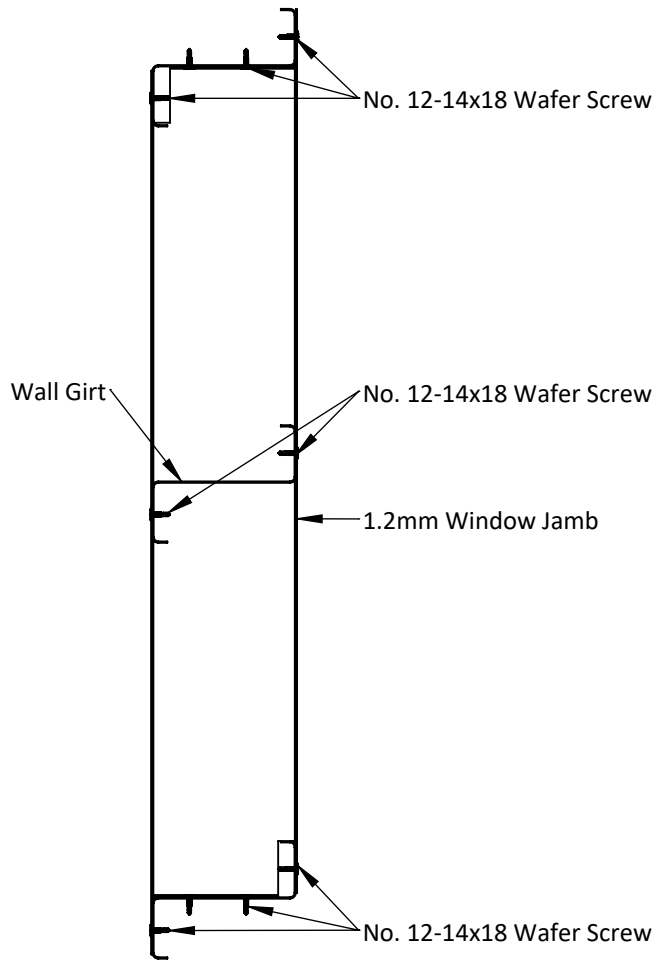
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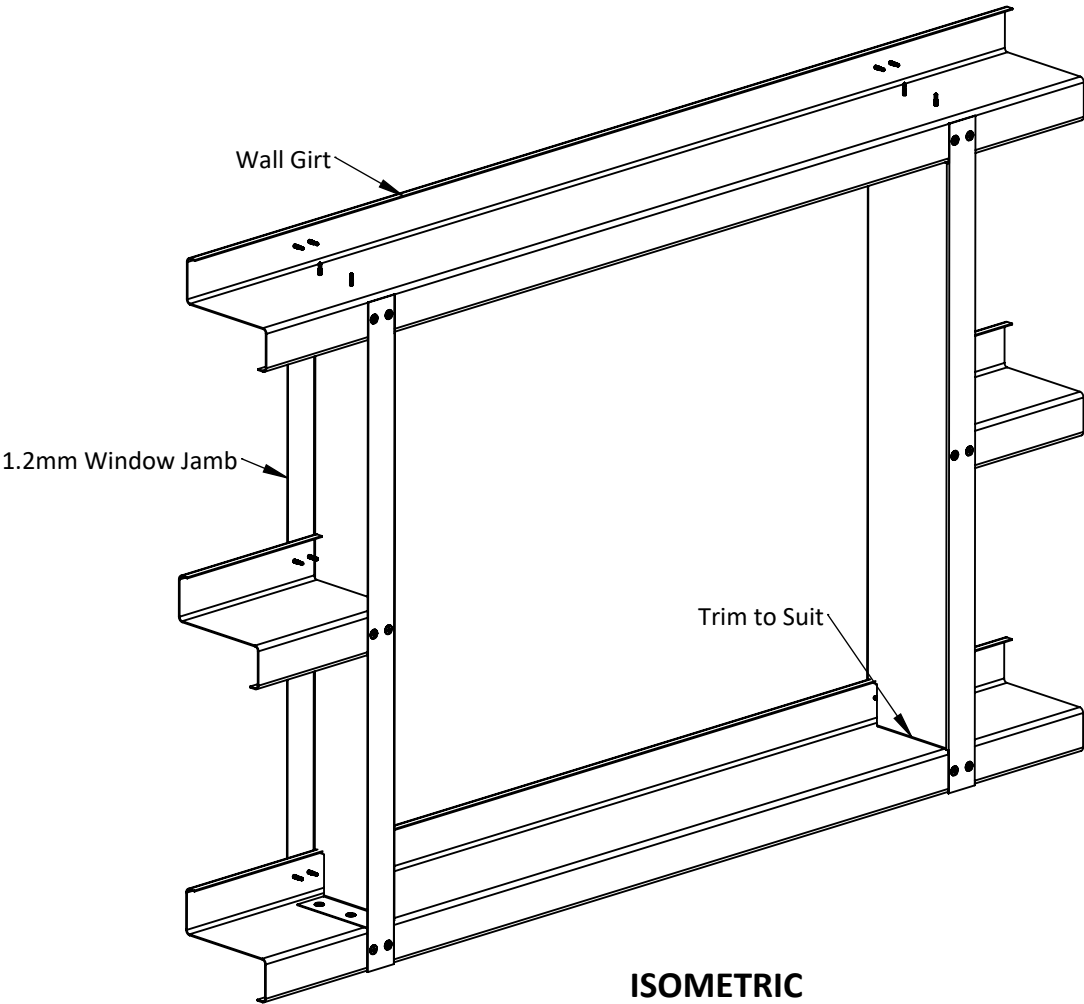
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ADDRESS: Example Street, Suburb QLD 4444	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 28 of 46



Video: Scan or
Right-Click



ELEVATION

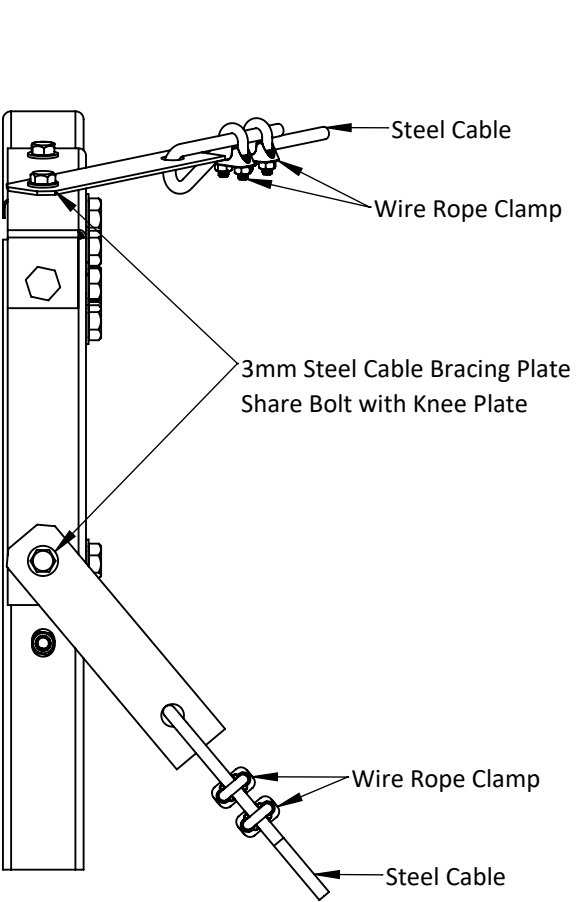


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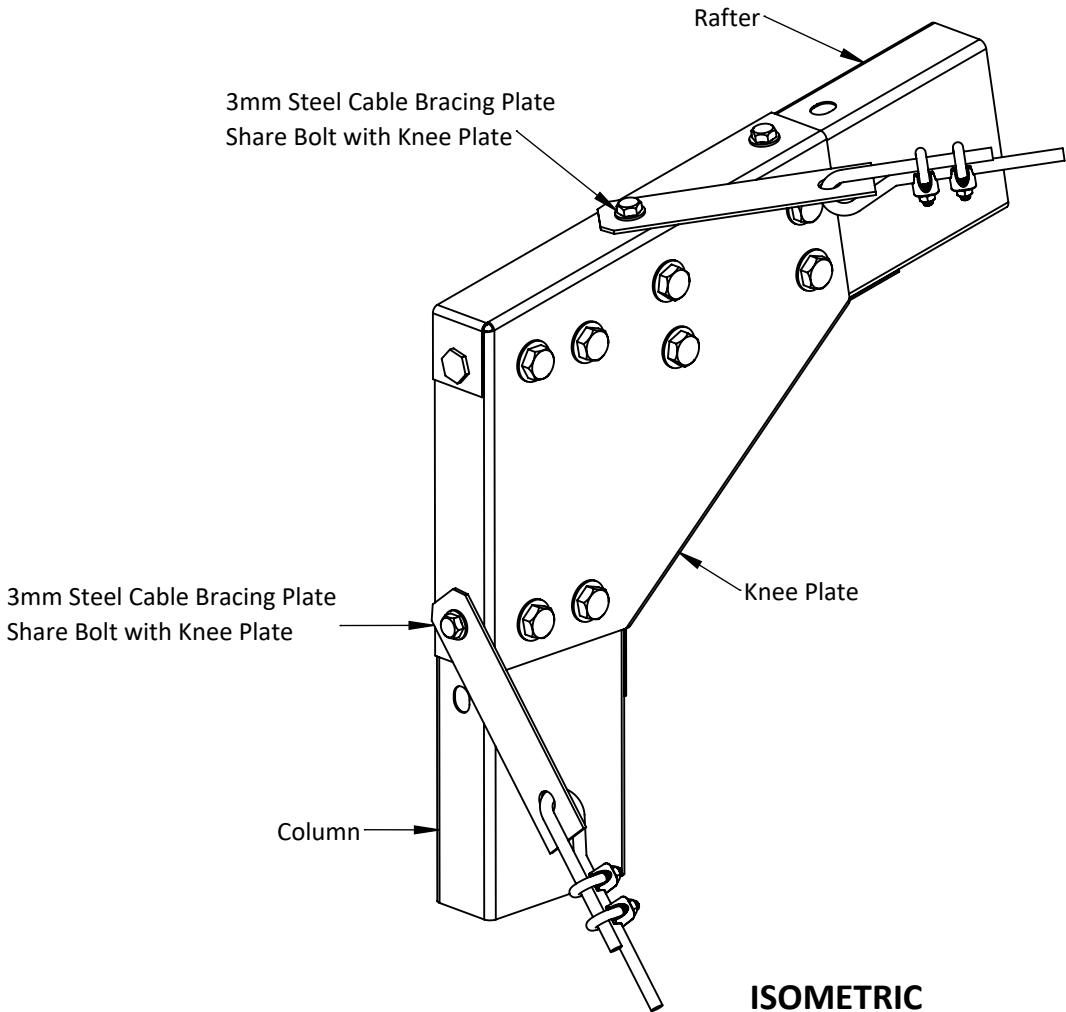
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	ADDRESS: Example Street, Suburb QLD 4444	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 29 of 46



Video: Scan or
Right-Click



ELEVATION



ISOMETRIC



PROJECT:
Example 8800 x 12192 x 3200 Region B1 Gable Shed

CLIENT:
Example Customer

ADDRESS:
Example Street, Suburb QLD 4444

PROJECT NUMBER:
6460

DRAWN BY:
dm3 Solutions

DRAWN DATE:
2022-09-28

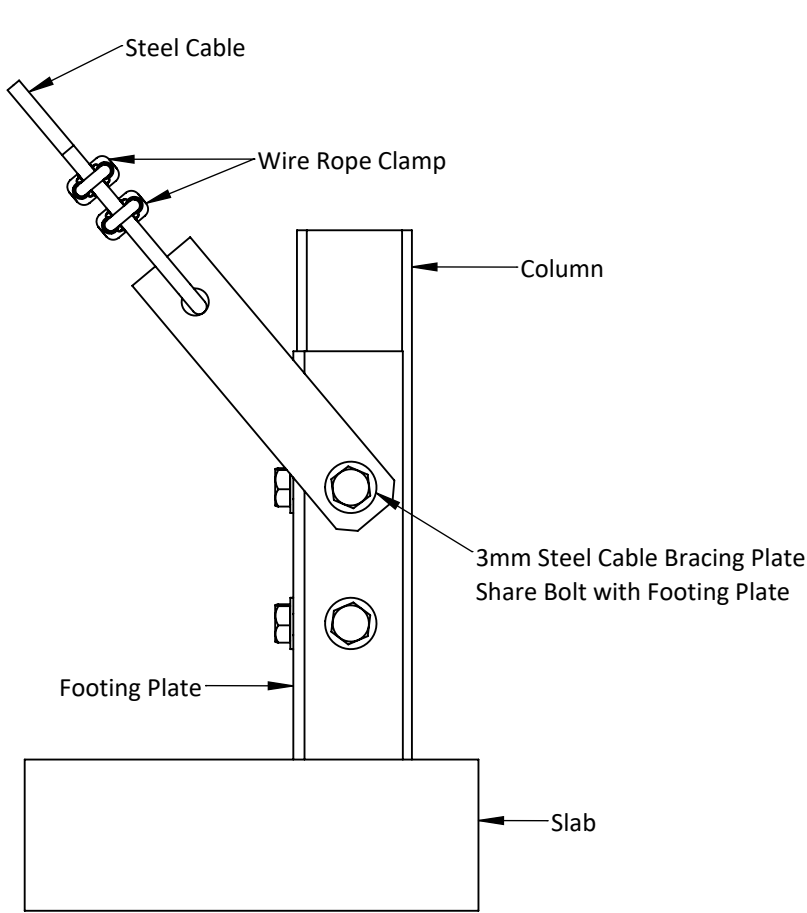
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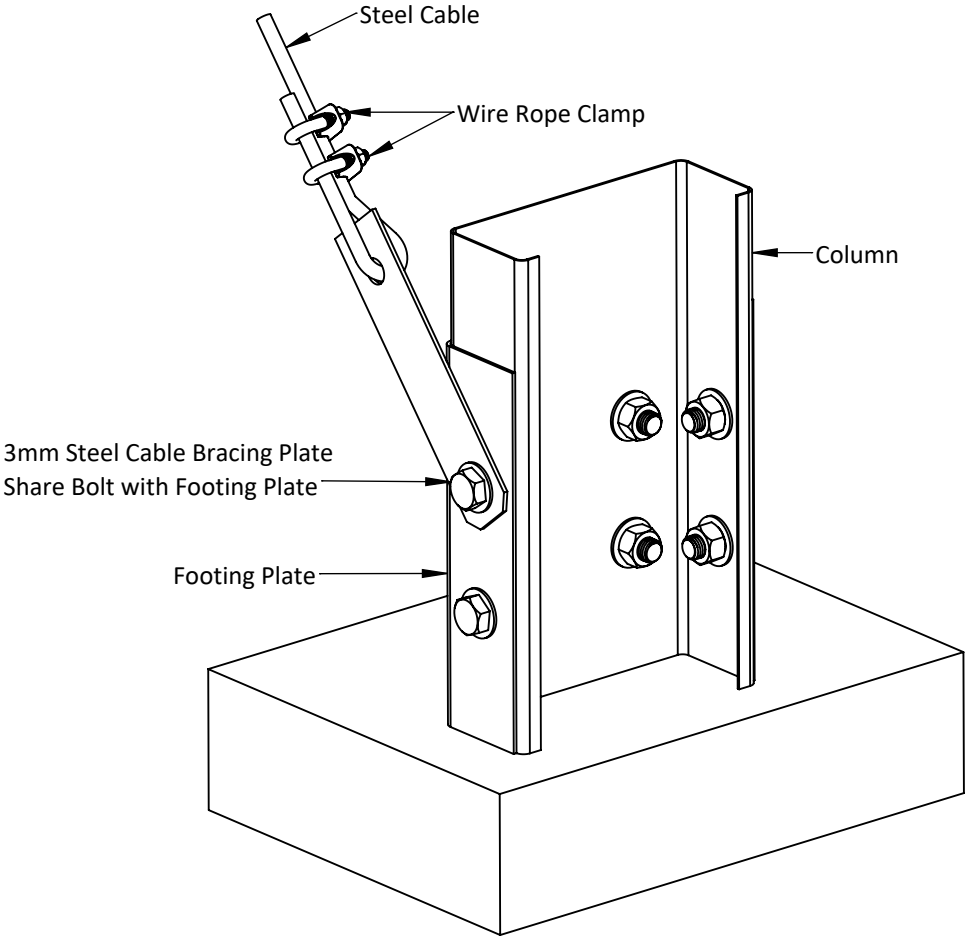
ISSUE:	SIZE:	SCALE:	DRAWING NUMBER
1	A4	NTS	30 of 46



Video: Scan or
Right-Click



ELEVATION

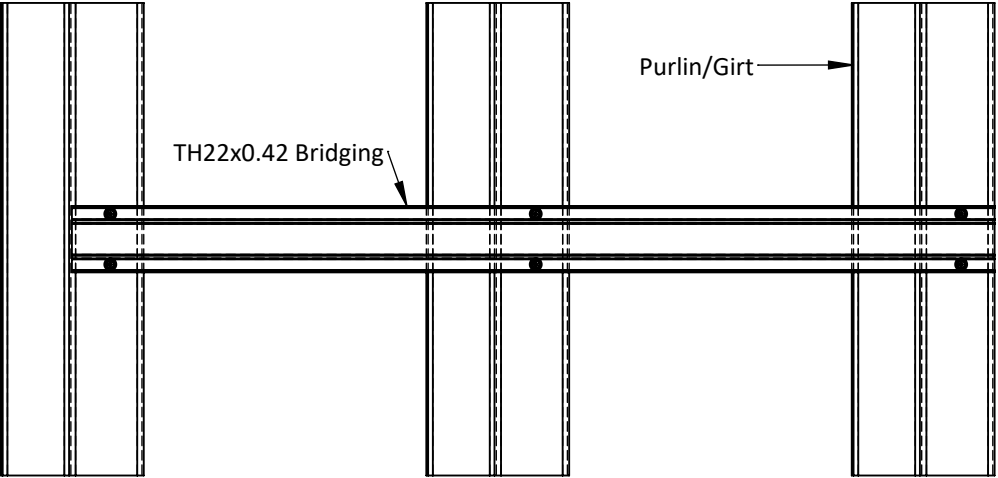


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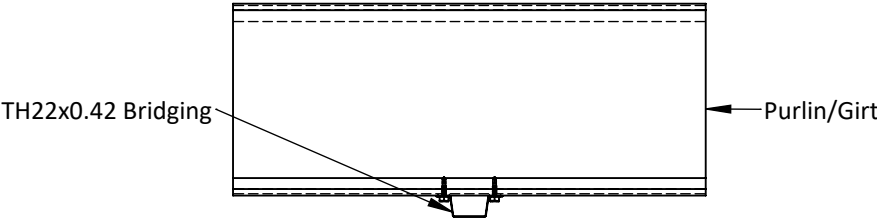
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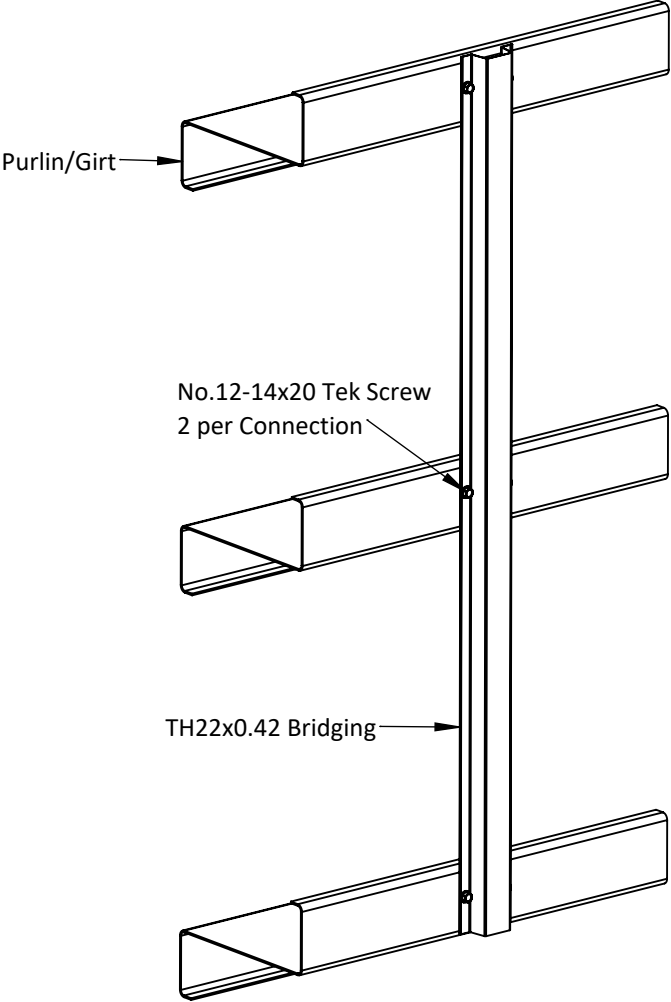
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Right-Click



PLAN



ELEVATION

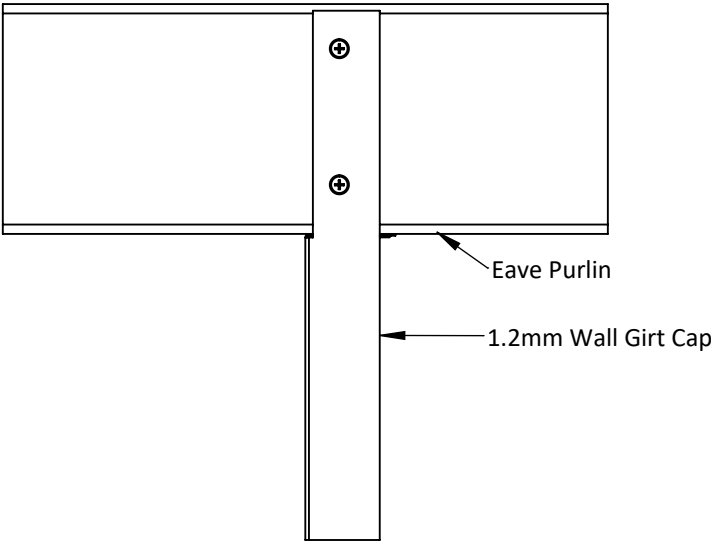


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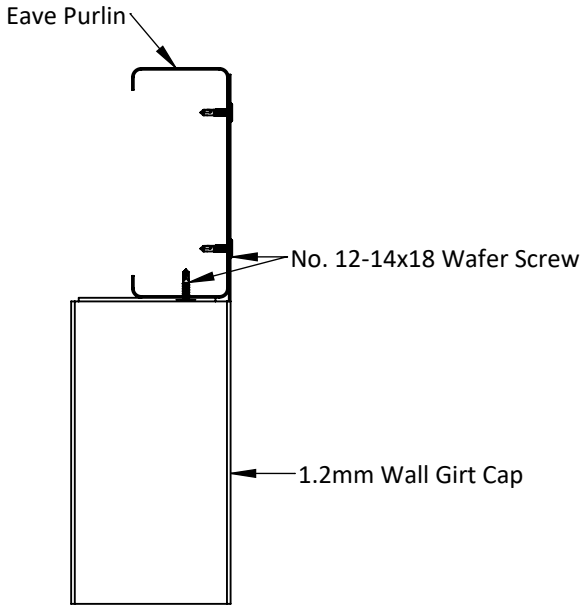
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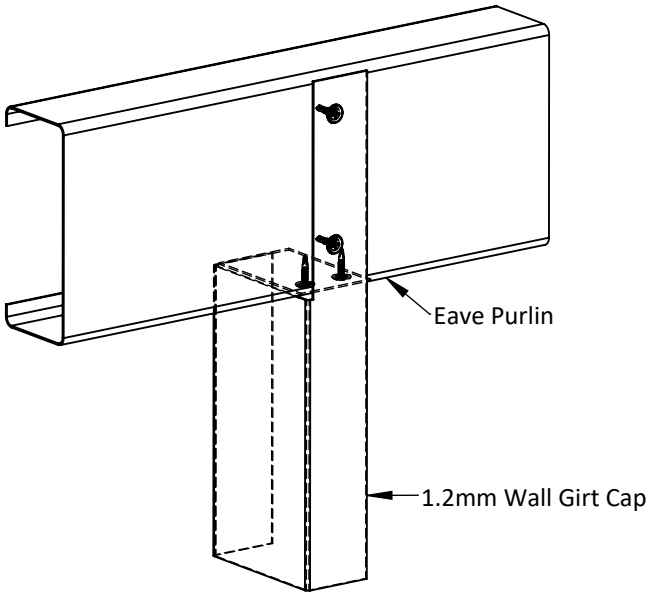
Video: Scan or
Right-Click



ELEVATION 1



ELEVATION 2



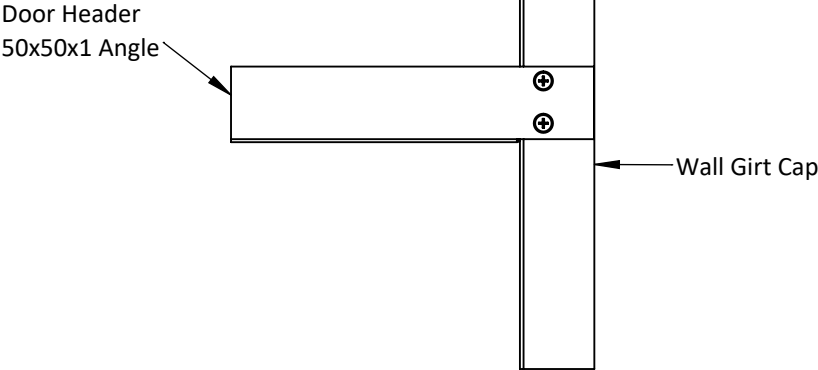
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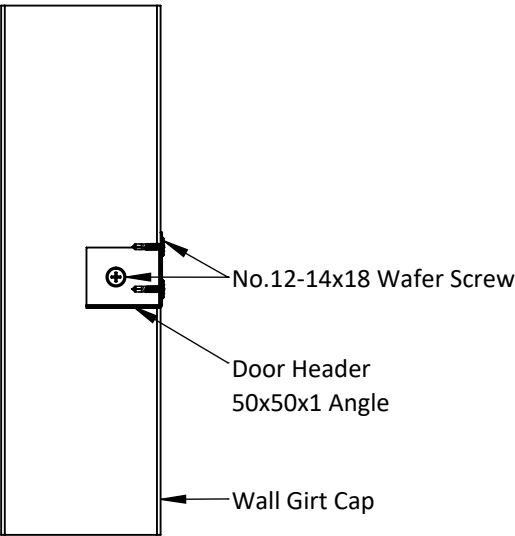
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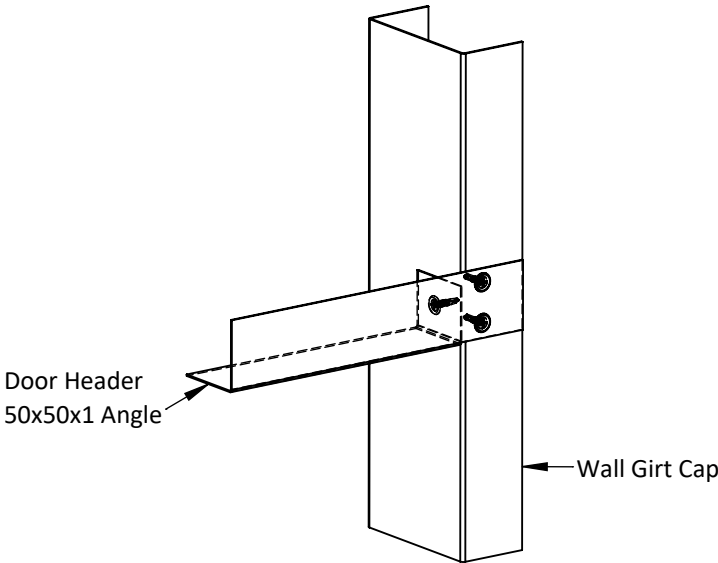
Video: Scan or
Right-Click



ELEVATION 1



ELEVATION 2



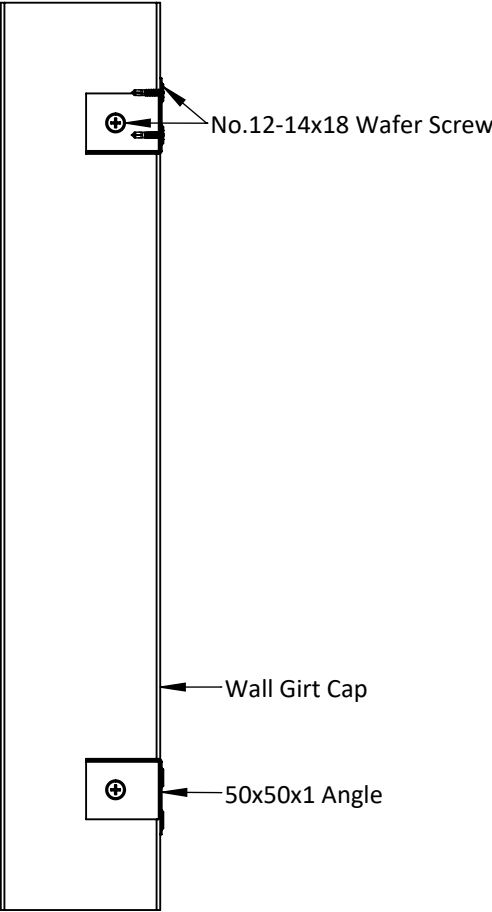
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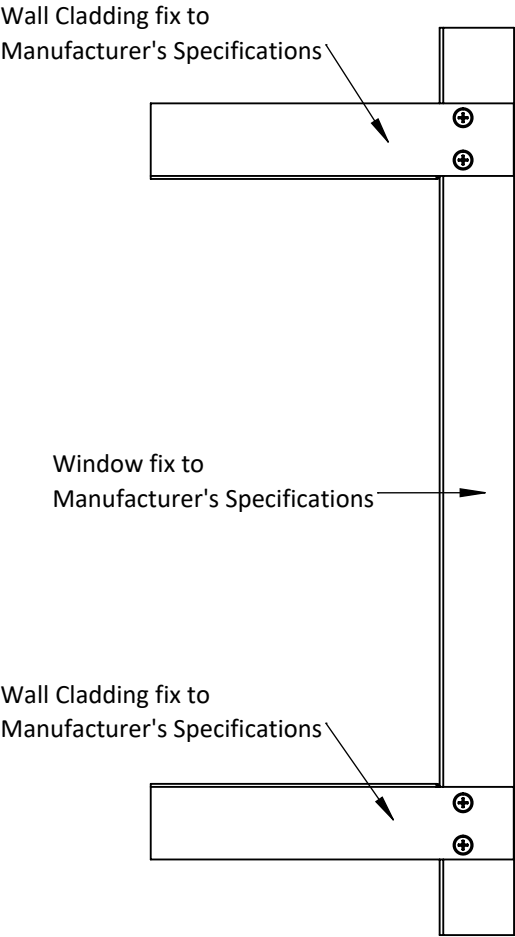
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ADDRESS: Example Street, Suburb QLD 4444	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 34 of 46



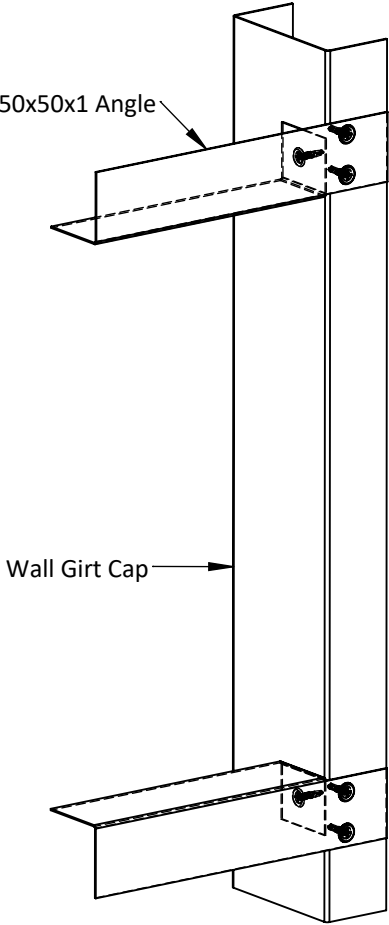
Video: Scan or
Right-Click



ELEVATION 2



ELEVATION 1



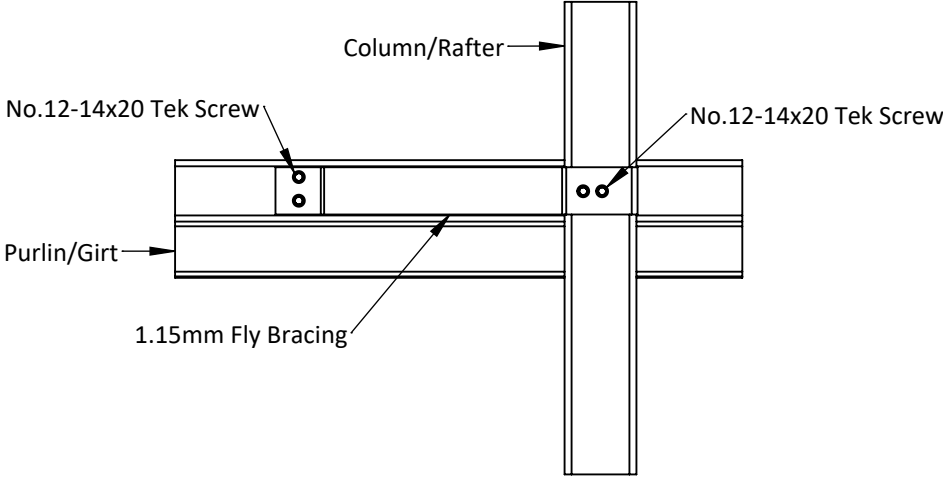
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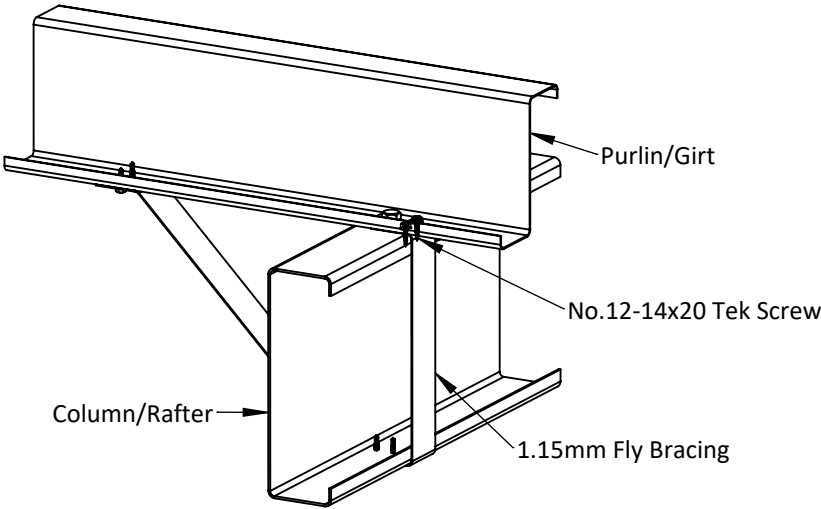
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ADDRESS: Example Street, Suburb QLD 4444		DRAWN DATE: 2022-09-28		ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 35 of 46



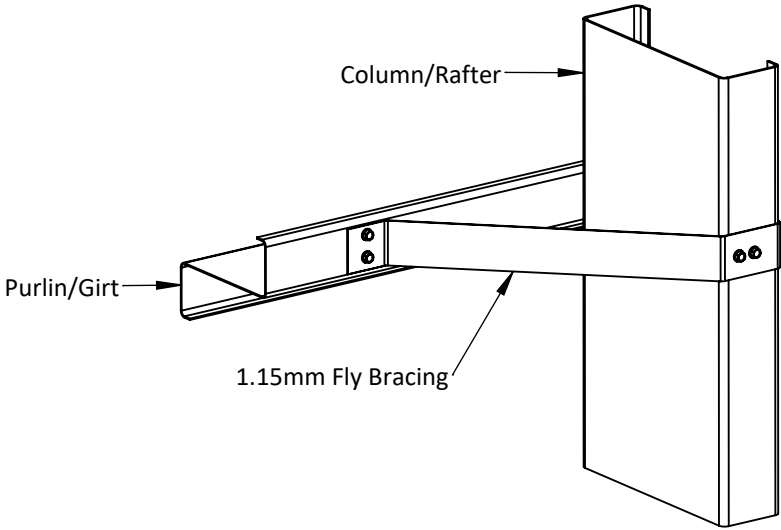
Video: Scan or
Right-Click




ELEVATION



ISOMETRIC 2

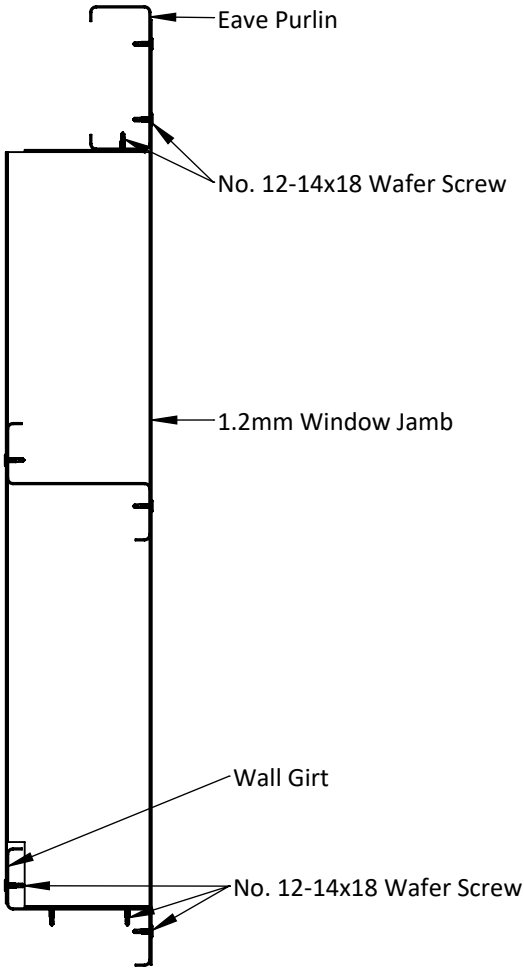


ISOMETRIC 1

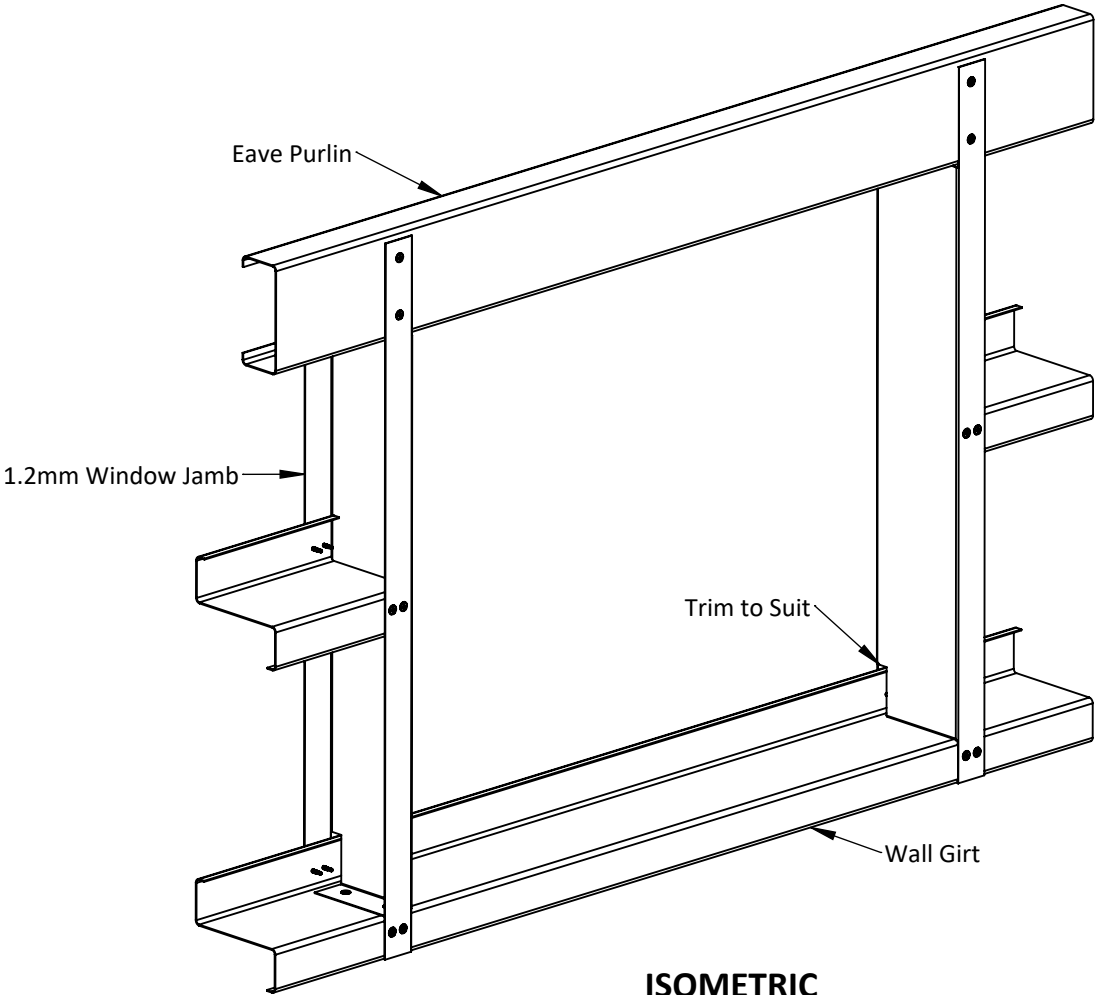
	PROJECT: Example 8800 x 12192 x 3200 Region B1 Gable Shed	PROJECT NUMBER: 6460	© 2022 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com			
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	ADDRESS: Example Street, Suburb QLD 4444	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 36 of 46



Video: Scan or
Right-Click



ELEVATION



ISOMETRIC



PROJECT:
Example 8800 x 12192 x 3200 Region B1 Gable Shed

CLIENT:
Example Customer

ADDRESS:
Example Street, Suburb QLD 4444

PROJECT NUMBER:
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DRAWN DATE:
2022-09-28

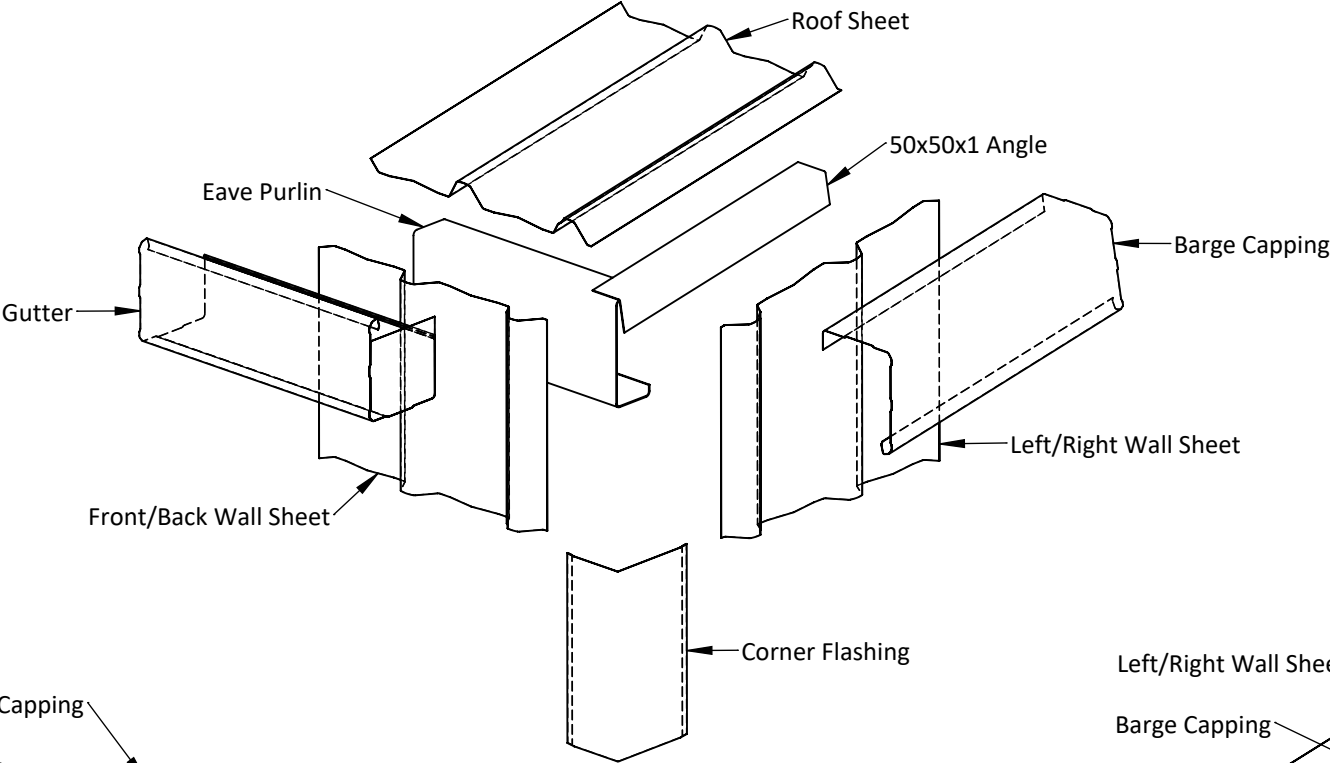
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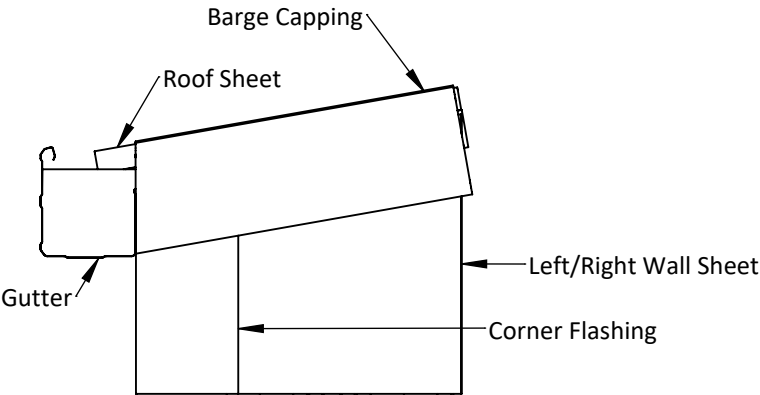
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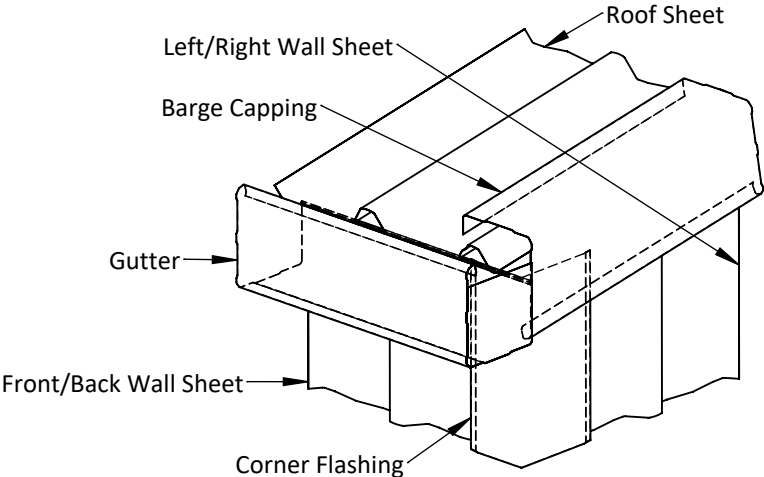
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Right-Click



EXPLODED VIEW



ELEVATION



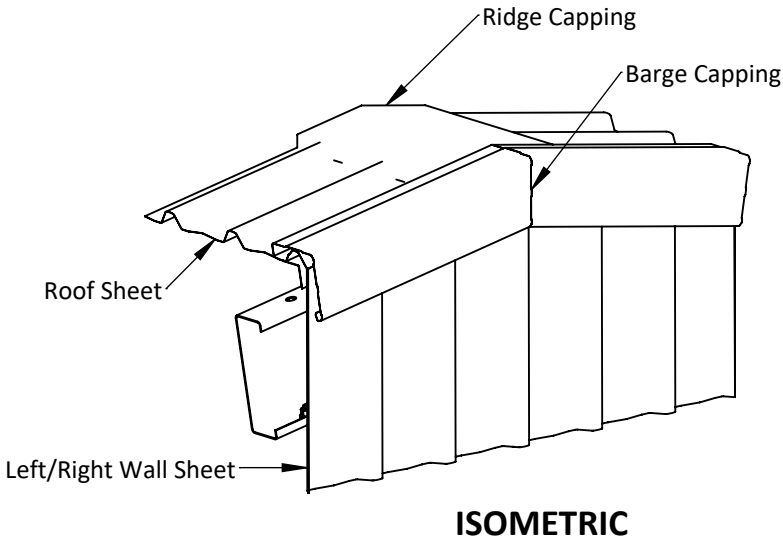
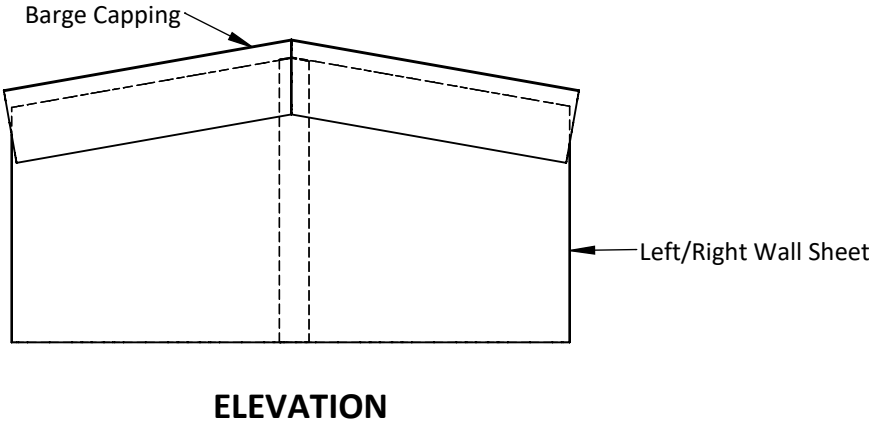
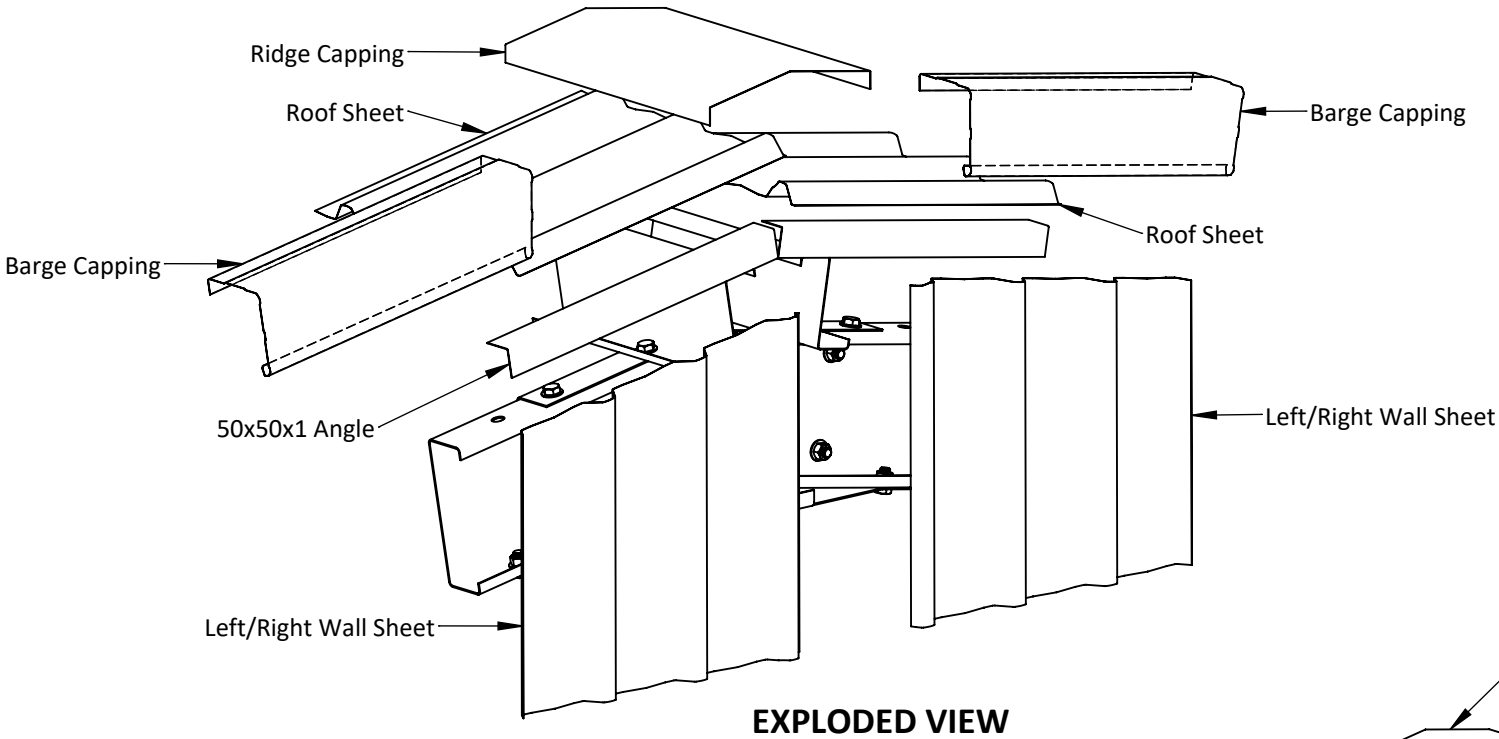
ISOMETRIC



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ADDRESS: Example Street, Suburb QLD 4444	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 38 of 46



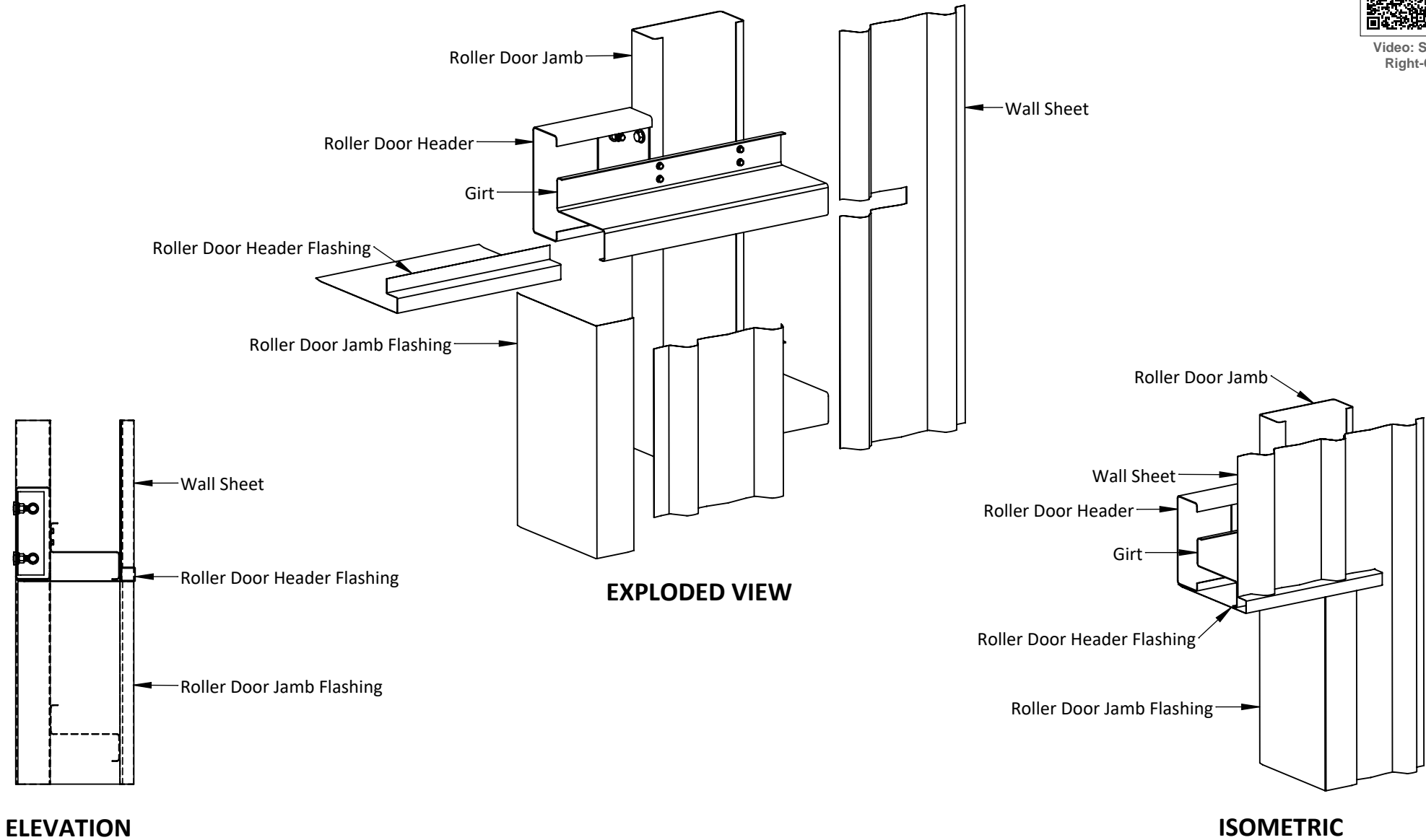
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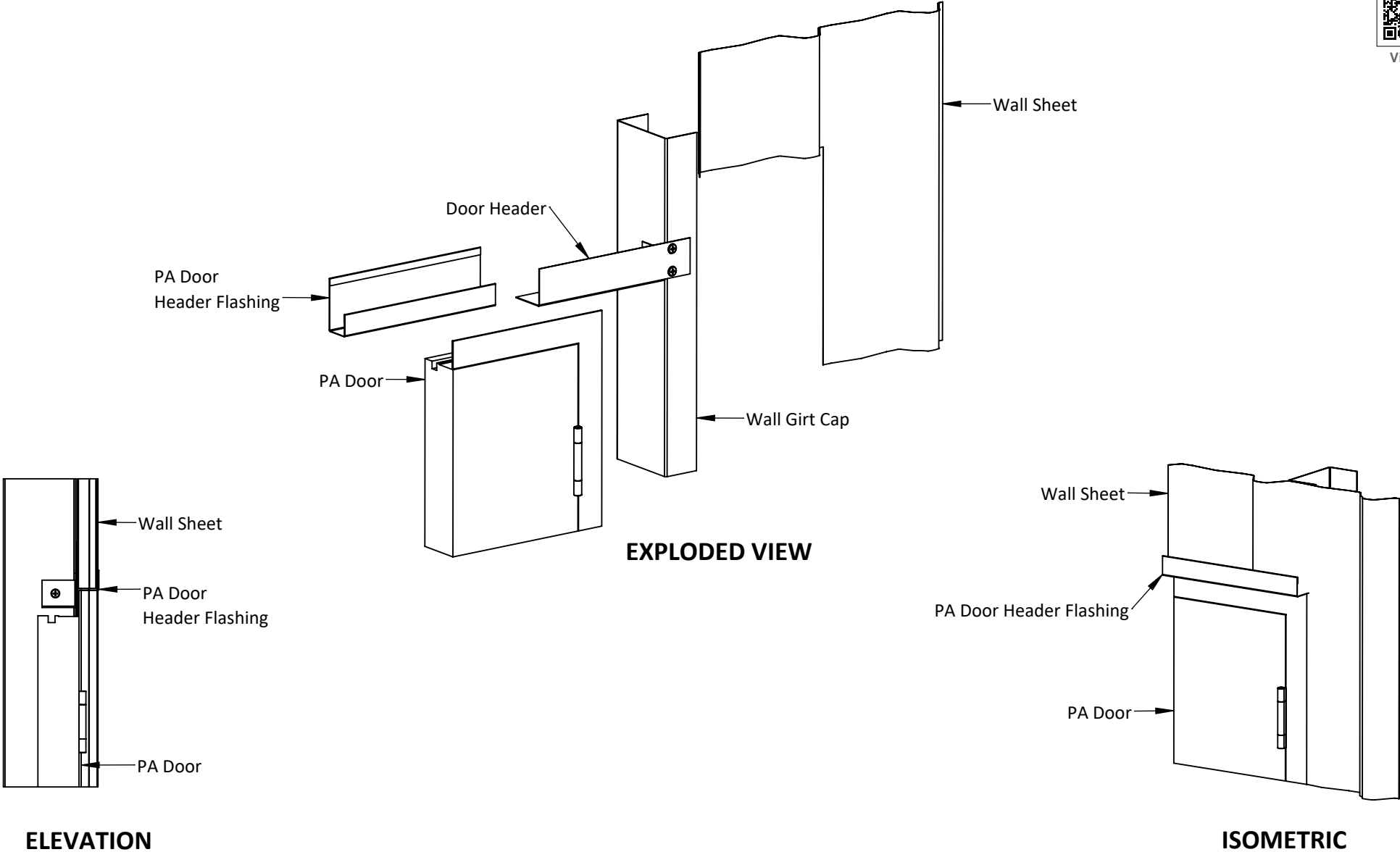
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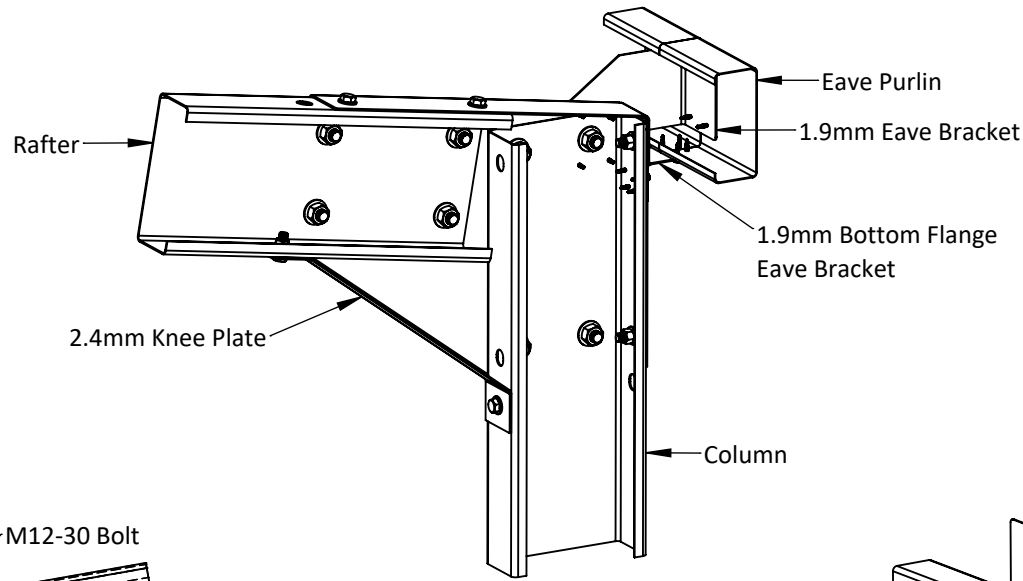
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Right-Click



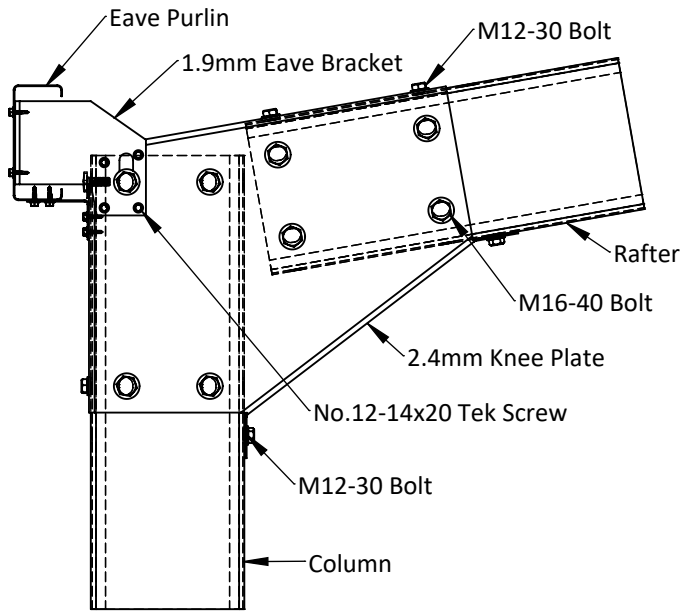
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ADDRESS: Example Street, Suburb QLD 4444		DRAWN DATE: 2022-09-28		ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 41 of 46



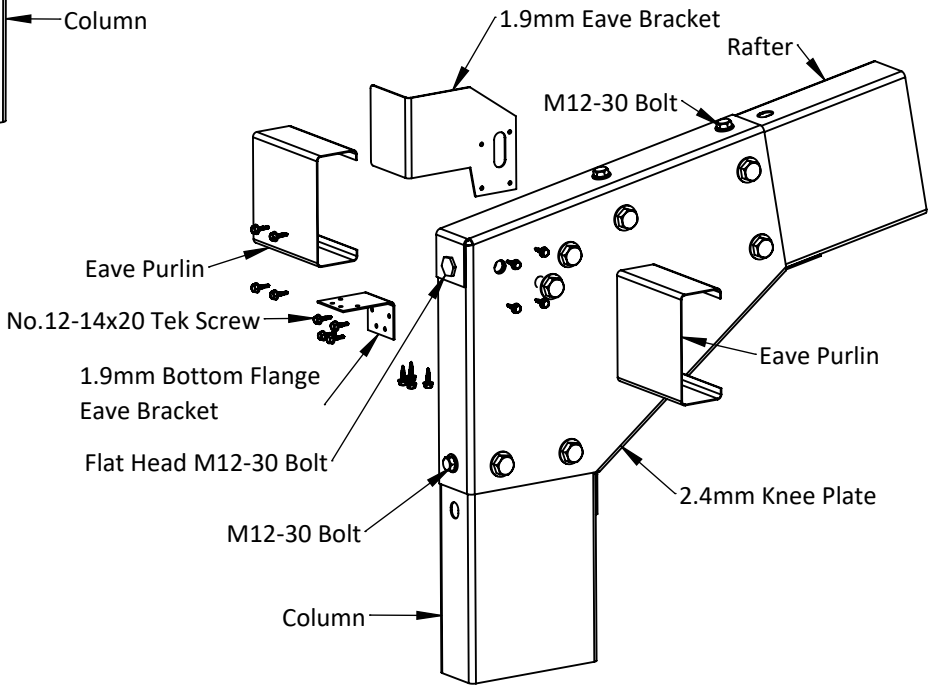
Video: Scan or
Right-Click



ISOMETRIC



ELEVATION



EXPLODED VIEW



PROJECT:
Example 8800 x 12192 x 3200 Region B1 Gable Shed

CLIENT:
Example Customer

ADDRESS:
Example Street, Suburb QLD 4444

PROJECT NUMBER:
6460

DRAWN BY:
dm3 Solutions

DRAWN DATE:
2022-09-28

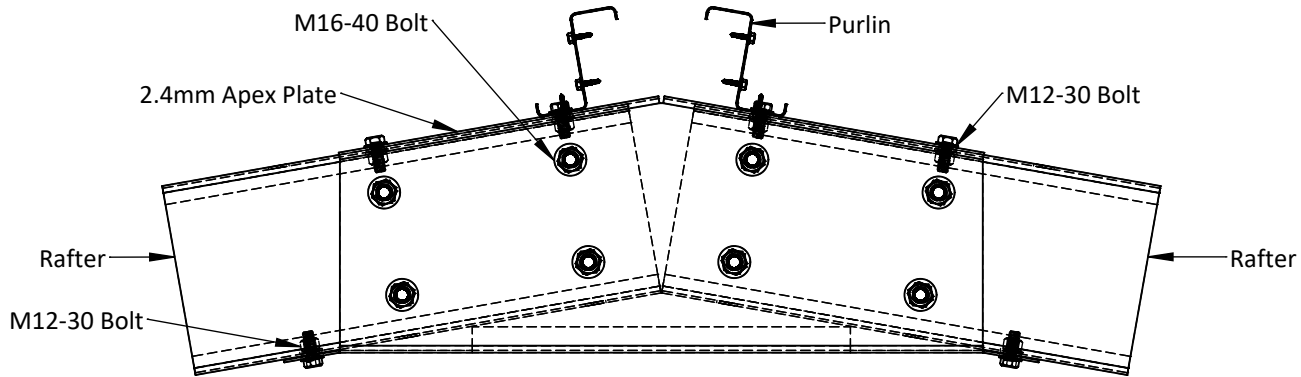
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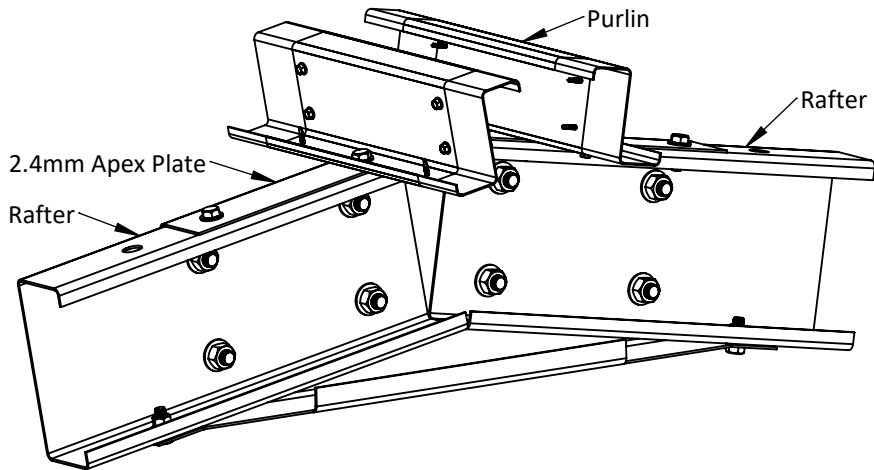
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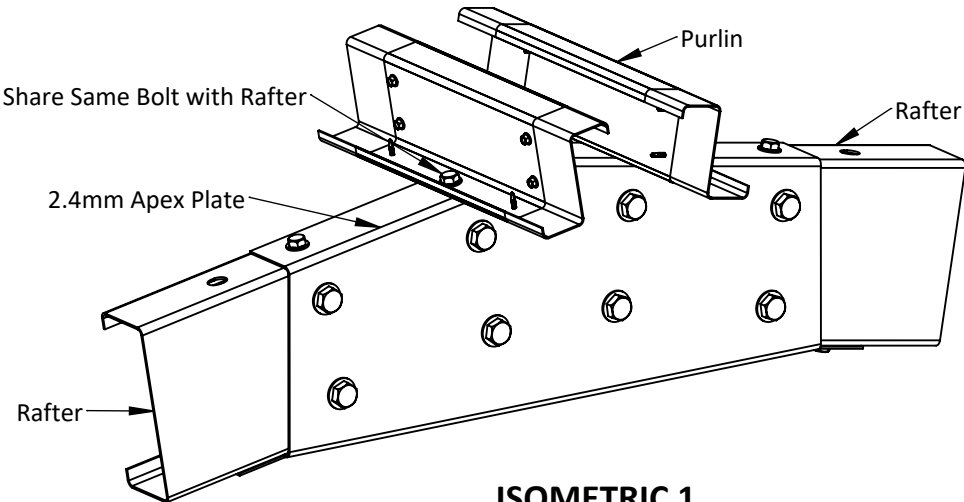
Video: Scan or
Right-Click



ELEVATION



ISOMETRIC 2



ISOMETRIC 1



PROJECT:
Example 8800 x 12192 x 3200 Region B1 Gable Shed

CLIENT:
Example Customer

ADDRESS:
Example Street, Suburb QLD 4444

PROJECT NUMBER:
6460

DRAWN BY:
dm3 Solutions

DRAWN DATE:
2022-09-28

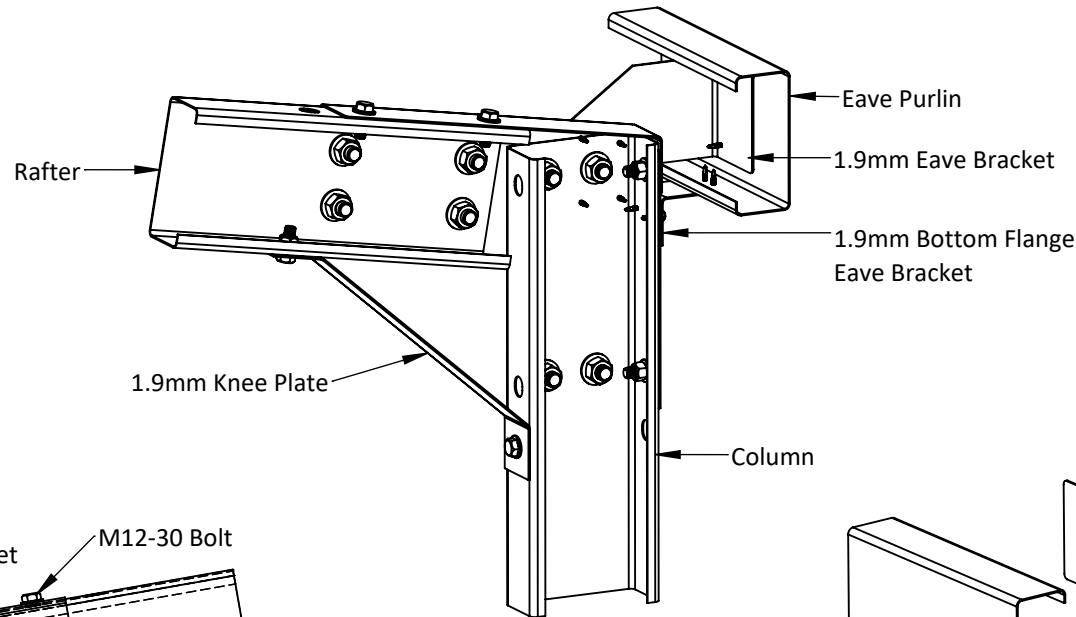
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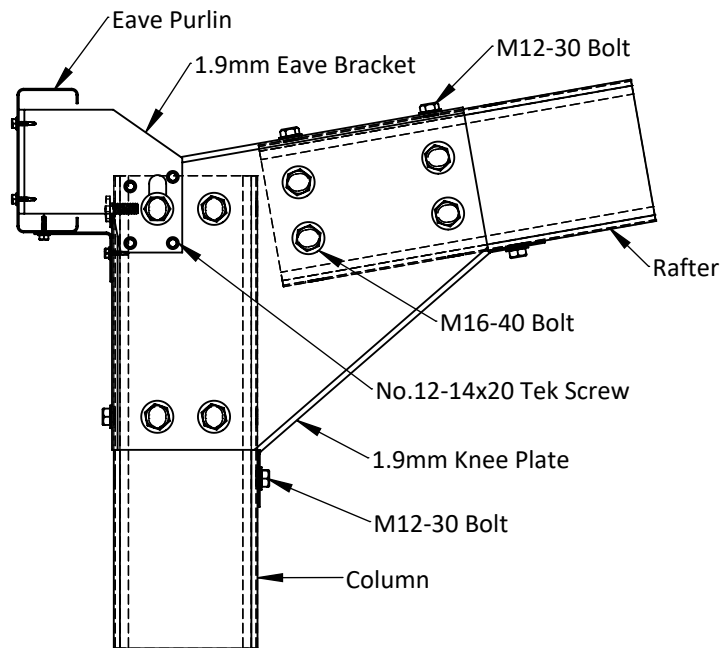
ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 43 of 46
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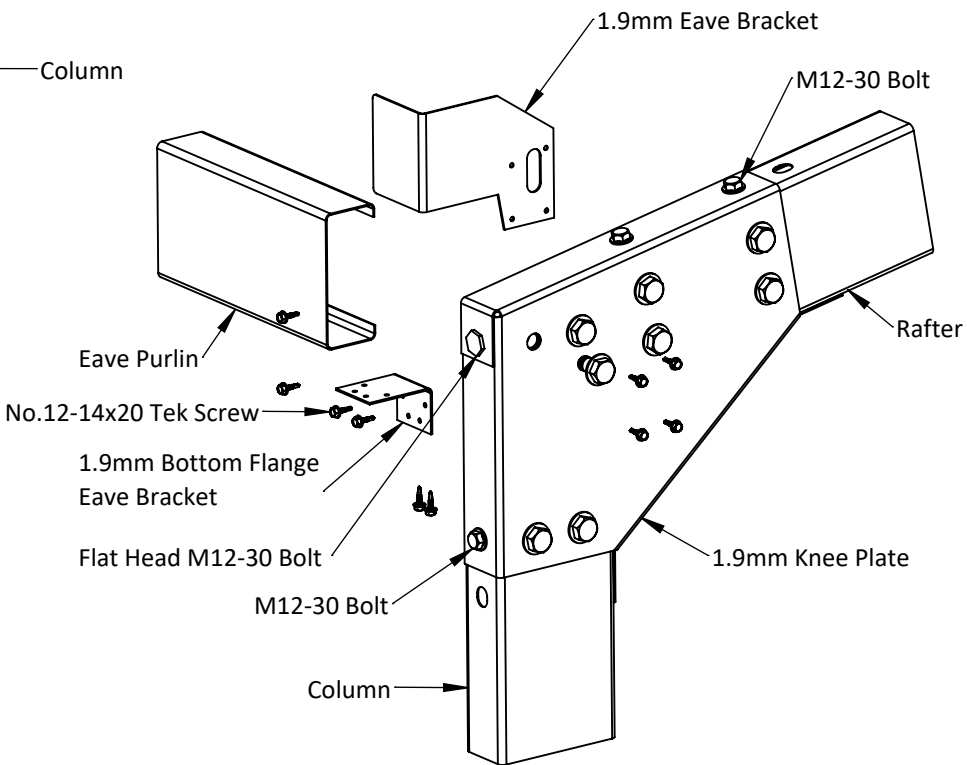
Video: Scan or
Right-Click



ISOMETRIC



ELEVATION



EXPLODED VIEW



PROJECT:
Example 8800 x 12192 x 3200 Region B1 Gable Shed

CLIENT:
Example Customer

ADDRESS:
Example Street, Suburb QLD 4444

PROJECT NUMBER:
6460

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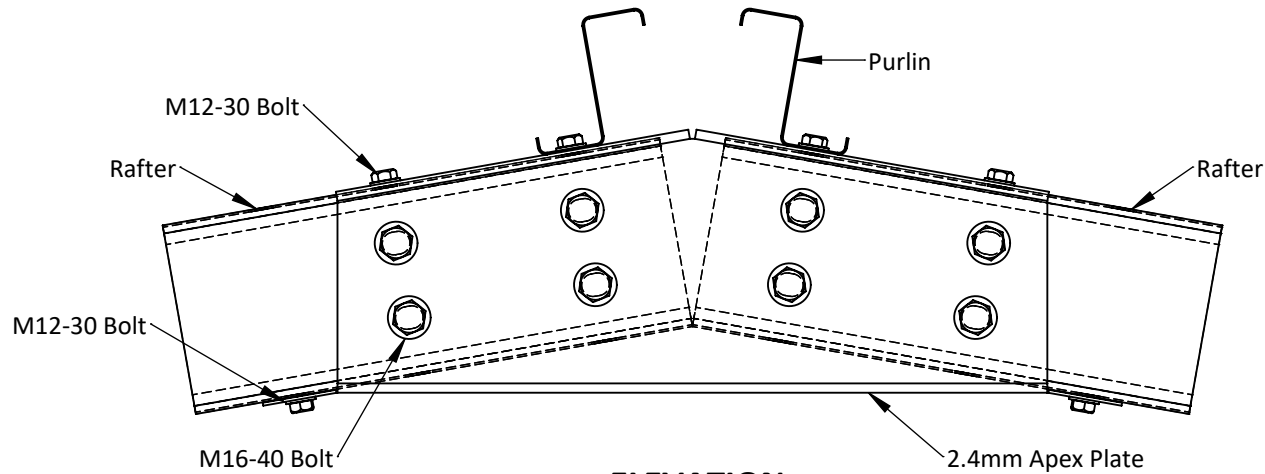
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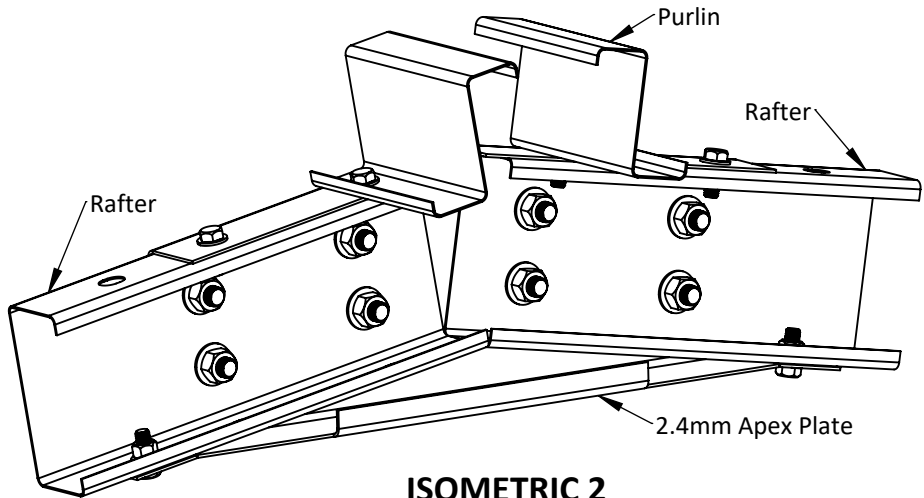
ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 44 of 46
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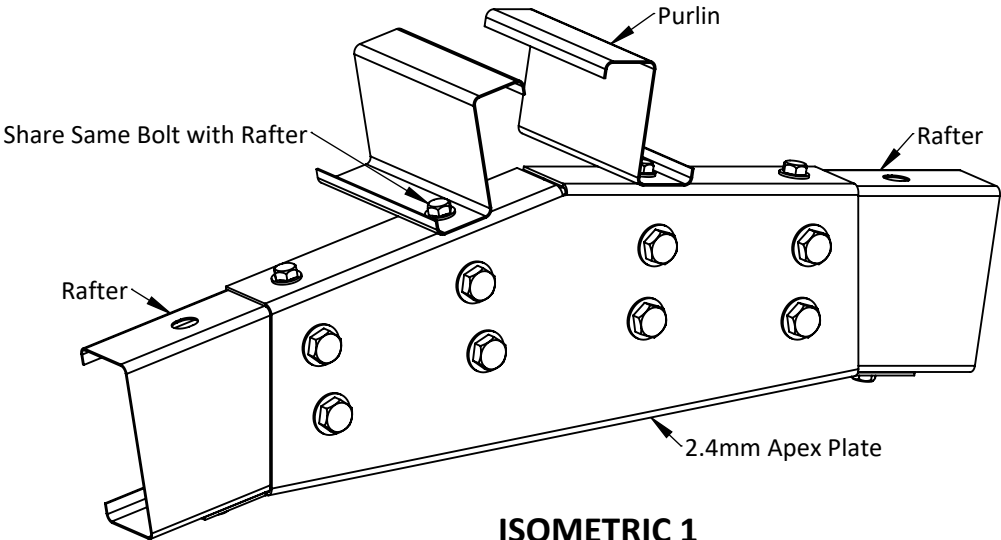
Video: Scan or
Right-Click



ELEVATION



ISOMETRIC 2



ISOMETRIC 1



PROJECT:
Example 8800 x 12192 x 3200 Region B1 Gable Shed

CLIENT:
Example Customer

ADDRESS:
Example Street, Suburb QLD 4444

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DRAWN BY:
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DRAWN DATE:
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Technical Data		Internal Portal		Mullions · LM1,LM2							
Class	10a · Importance Level 2	Knee Connection ØM Req Rafter Member Min Yield Stress · Grade · I _x Gov Span · Load Width Capacity · Req Actual	Moment Resistant · G450 Plate 11.900 kNm C20019 with 1 row of Bridging 450 MPa · G450 · 4.51 x 10 ⁶ mm ⁴ 3621 mm · 3048 mm 2.649 kN/m 4.500 kN/m · min(Inward, Outward) Source: Lysaght® & Stramit® Span Tables 14.823 kNm · L _{ex} 3621 · L _{ey} 1200 · L _{ez} 3621 3.7 mm · 12.1 mm Permitted	Member		C15015 with 2 rows of Bridging					
Region	B1 · Regional Wind Speed 57 m/s			Min Yield Stress · Grade · I _x		450 MPa · G450 · 1.61 x 10 ⁶ mm ⁴					
Terrain Category	2.5			Gov Span · Load Width		3621 mm · 3048 mm					
Shielding	No			Capacity · Req		2.649 kN/m					
				Actual		4.500 kN/m · min(Inward, Outward) Source: Lysaght® & Stramit® Span Tables					
Governing Design Wind Speeds		Moment · ØM		Deflection		14.823 kNm · L _{ex} 3621 · L _{ey} 1200 · L _{ez} 3621					
V _{design maj}	47.11 m/s · _{maj} = Major Structural Members · Portal Rafters, Columns & Mullions	Column		Member		C20019 with 1 row of Bridging					
V _{design min}	47.11 m/s · _{min} = Minor Structural Members · Purlins & Girts	Min Yield Stress · Grade · I _x		Min Yield Stress · Grade · I _x		450 MPa · G450 · 4.51 x 10 ⁶ mm ⁴					
V _{service maj}	32.23 m/s · _{service} = Service Deflection	Gov Span · Load Width		Gov Span · Load Width		2622 mm · 3048 mm					
V _{service min}	32.23 m/s	Base Connection		Base Connection		Fixed · G450 Embedded Plate					
Governing Roof Design Loads		Capacity · Req		Capacity · Req		3.249 kN/m					
Pressure _{maj} · Inward Req	0.653 kPa · Req = Required	Actual		Actual		11.250 kN/m · min(Inward, Outward) Source: Lysaght® & Stramit® Span Tables					
Outward Req	0.869 kPa	Moment · ØM		Moment · ØM		14.823 kNm · L _{ex} 2622 · L _{ey} 1497 · L _{ez} 1317					
Pressure _{min} · Inward Req	0.760 kPa	Deflection · Top of Column		Deflection · Top of Column		2.3 mm · 6.4 mm Permitted					
Outward Req	1.348 kPa										
Service _{maj} · Inward Req	0.495 kPa										
Outward Req	0.359 kPa										
Service _{min} · Inward Req	0.495 kPa										
Outward Req	0.583 kPa										
Governing Wall Design Loads											
Pressure _{maj} · Inward Req	1.066 kPa										
Outward Req	0.692 kPa										
Pressure _{min} · Inward Req	1.439 kPa										
Outward Req	1.385 kPa										
Service _{maj} · Inward Req	0.499 kPa										
Outward Req	0.324 kPa										
Service _{min} · Inward Req	0.674 kPa										
Outward Req	0.648 kPa										
End Portal											
Knee Connection	Moment Resistant · G450 Plate										
ØM Req	6.039 kNm										
Rafter											
Member	C15015 with 2 rows of Bridging										
Min Yield Stress · Grade · I _x	450 MPa · G450 · 1.61 x 10 ⁶ mm ⁴										
Gov Span · Load Width	3783 mm · 1529 mm · Gov = Governing										
Capacity · Req	1.329 kN/m										
Actual	3.220 kN/m · min(Inward, Outward) Source: Lysaght® & Stramit® Span Tables										
Moment · ØM	6.926 kNm · L _{ex} 3783 · L _{ey} 1200 · L _{ez} 1600										
Deflection	6.3 mm · 12.6 mm Permitted										
Column											
Member	C15015										
Min Yield Stress · Grade · I _x	450 MPa · G450 · 1.61 x 10 ⁶ mm ⁴										
Gov Span · Load Width	2672 mm · 1529 mm										
Base Connection	Fixed · G450 Embedded Plate										
Capacity · Req	1.630 kN/m										
Actual	6.730 kN/m · min(Inward, Outward) Source: Lysaght® & Stramit® Span Tables										
Moment · ØM	6.926 kNm · L _{ex} 2672 · L _{ey} 1497 · L _{ez} 1355										
Deflection · Top of Column	3.2 mm · 6.4 mm Permitted										
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		Example 8800 x 12192 x 3200 Region B1 Gable Shed		6460							
		CLIENT:		DRAWN BY:							
		Example Customer		dm3 Solutions							
ADDRESS:		DRAWN DATE:		ISSUE:		SIZE:		SCALE:		DRAWING NUMBER	
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