

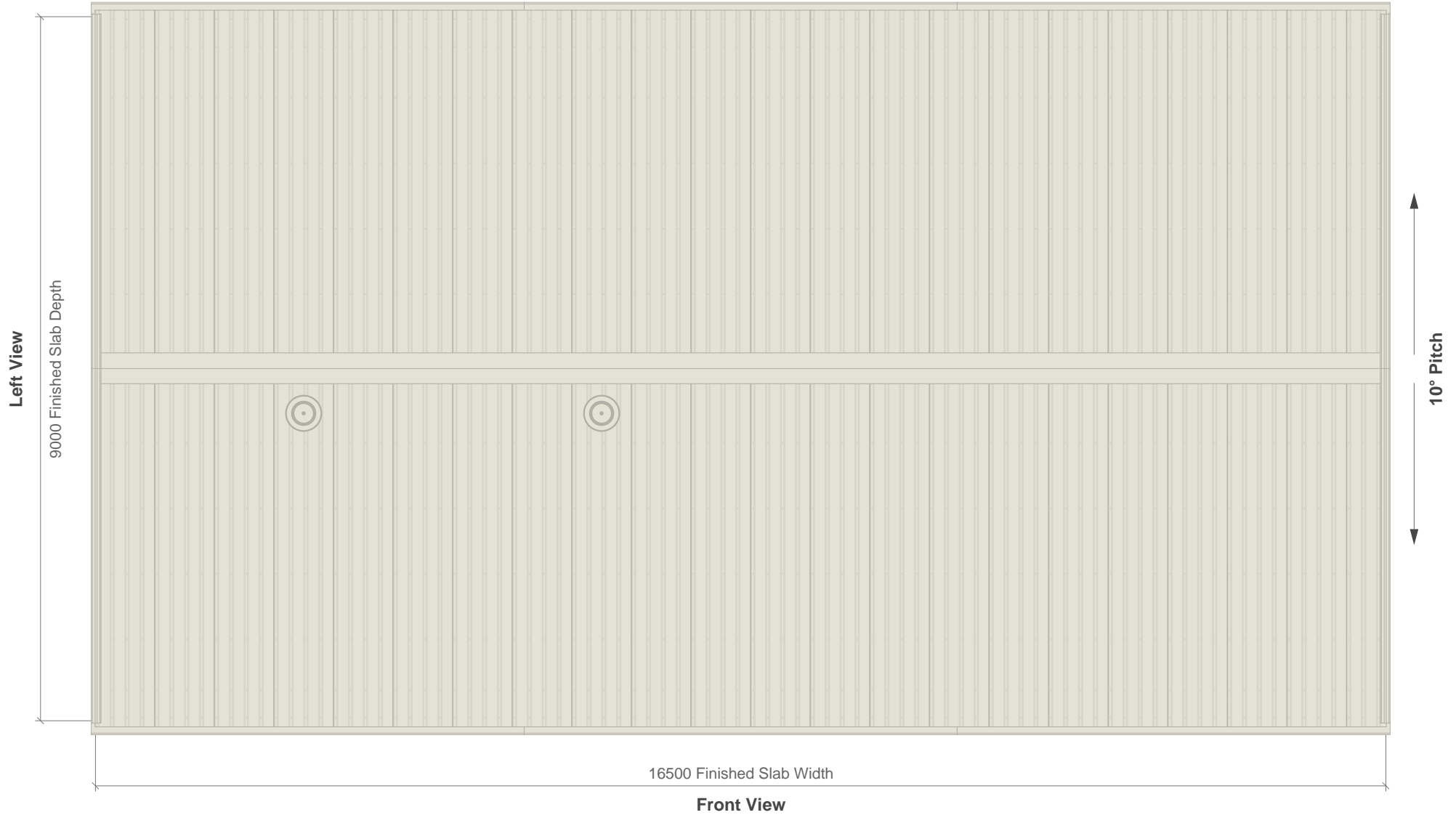
| General Notes    |  | Steel Grades  |  | Design Notes & Structural Members |                                 |  |  |
|------------------|--|---|--|-----------------------------------|---------------------------------|--|--|
| G01              | The Design and Details shown in these Drawings are applicable 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                 | 39.15 m/s                       |  |  |
| 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.  | 300   | Welded Sections to AS/NZS3679.2  | Columns                           | C25019                          |  |  |
| 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   | Hot Rolled Plates, Floor Plates & Slabs to AS/NZS3678  | Rafters                           | C25019                          |  |  |
| G05              | The Issuer of these Designs reserves the right to alter Specifications and Designs as it may see fit without prior notification or penalty.  | 250   | Hollow Sections to AS1163. Circular Sections less than 165mm Outside Diameter. Sections other than the above | Knee Braces                       | C20019                          |  |  |
| G06              | The Structure has not been designed for snow loads.  | G450-G550   | Cold Form AS4600. Unless noted otherwise, all purlins, plates & brackets are G450.                           | Mullions                          | C20019                          |  |  |
| G07              | Connections may require on-site drilling by the contractor(s).   | G500  | Slab mesh and deformed reinforcement bars.   | Eave Purlins                      | C20015                          |  |  |
|                  |  | G2070   | AS2841. Galvanized Steel Wire Strand. Unless noted otherwise, all Cable Bracing is G2070.                    | Purlins                           | Z20015                          |  |  |
|                  |  |   |  | Girts                             | Z20015                          |  |  |
|                  |  |   |  | 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 51                         |  |  |
| Foundation Notes |  | Australian Standard™ & Australian/New Zealand Standard™ Adopted   |  |                                   |                                 |  |  |
| F01              | Foundations have been designed for an allowable bearing capacity of 100 kPa.   | AS/NZS 1163   | Cold-formed Structural Steel Hollow Sections   |                                   |                                 |  |  |
| F02              | The Owner is advised to obtain a Geotechnical Report and/or Site Foundation Report to confirm F01 above.   | AS/NZS 1170.0   | Structural Design Actions - Part 0: General Principles   |                                   |                                 |  |  |
| F03              | Footings shall be located centrally under walls and columns unless noted otherwise.  | AS/NZS 1170.1   | Structural Design Actions - Part 1: Permanent, Imposed & Other Actions                                       |                                   |                                 |  |  |
| F04              | All Footings to be founded a minimum of 400 mm into Natural Ground. Do not Found Footings in uncontrolled fill.  | AS/NZS 1170.2   | Structural Design Actions - Part 2: Structural Design, Wind Actions  |                                   |                                 |  |  |
| F05              | Engineer to be contacted if Foundation Conditions vary from F01 above.   | AS/NZS 1170.4   | Structural Design Actions - Part 4: Earthquake Actions in Australia  |                                   |                                 |  |  |
|                  |  | AS 1252   | Structural Assemblies  |                                   |                                 |  |  |
|                  |  | AS/NZS 1554   | Structural Steel Welding   |                                   |                                 |  |  |
|                  |  | AS 2870   | Residential Slabs and Footings   |                                   |                                 |  |  |
|                  |  | AS 3600   | Concrete Structures  |                                   |                                 |  |  |
|                  |  | 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  |                                   |                                 |  |  |
| Steelwork Notes  |  | Region & Site Details   |  |                                   |                                 |  |  |
| 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.  | Suitable for Regions A1-5. 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. |  |                                   |                                 |  |  |
| 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   | $V_{design} = V_R \times M_c \times M_d \times (M_{z,cat} \times M_s \times M_i)$<br>$V_{design} = 45 \times 1 \times 1 \times (0.87 \times 1 \times 1) = 39.15 \text{ m/s}$  |  |                                   |                                 |  |  |
| 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.   | <b>Site Description:</b> 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.   |  |                                   |                                 |  |  |
| S04              | All metal cladding should comply with AS/NZS 4680 G550, AZ150 (550 MPa minimum yield stress, 150 g/m2 minimum coating mass).   | Foundations have been designed assuming an allowable bearing capacity of 100 kPa, undrained cohesion $C_u = 50 \text{ kPa}$ . 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. |   |  |                                   |                                 |  |  |
| S06              | Unless noted otherwise, all steel shall comply with the relevant Australian Standard.  |   |  |                                   |                                 |  |  |



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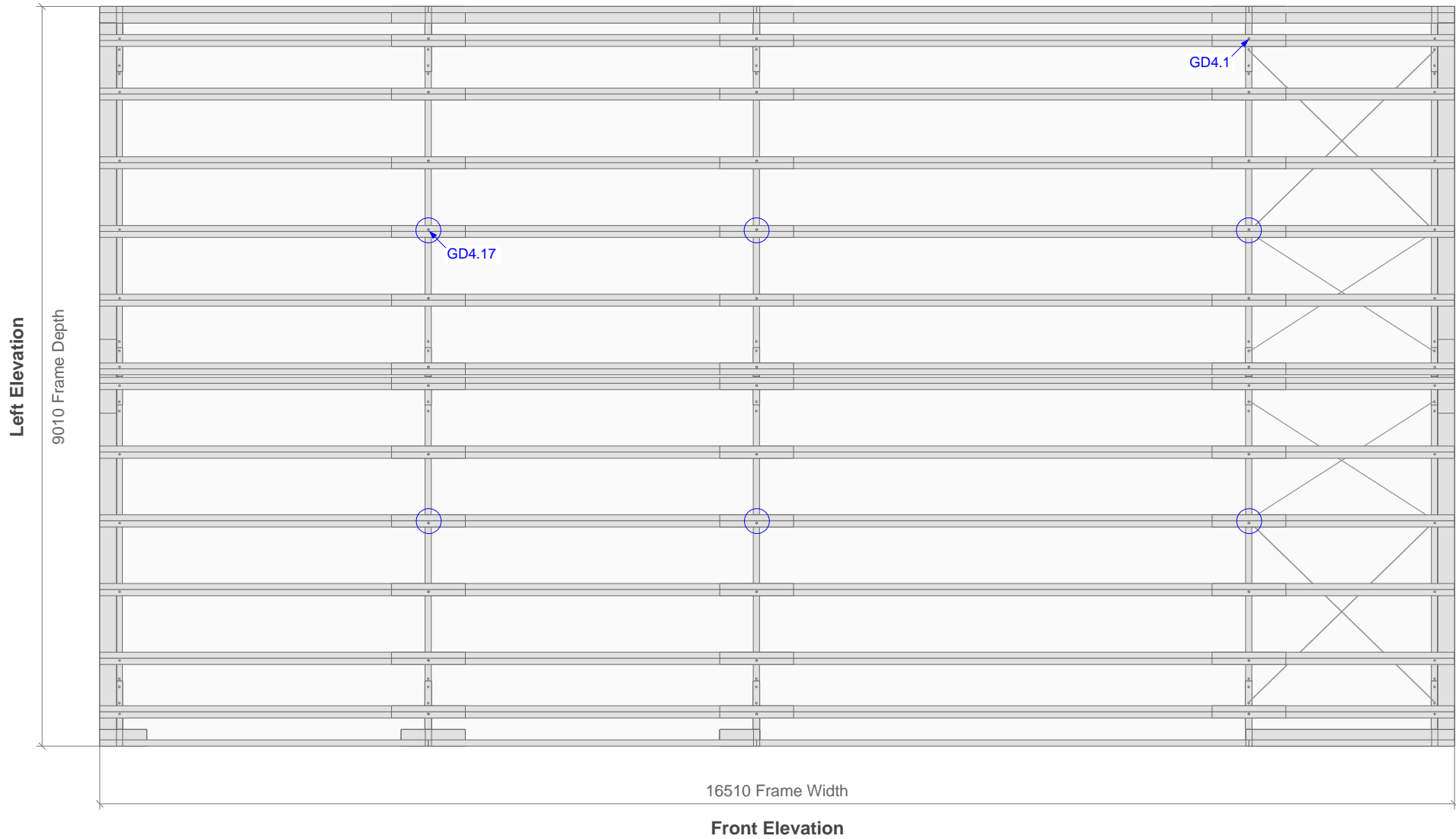


Roof Insulation: AirCell Insulshed  
 Roof structure is light foot trafficable for maintenance purposes.



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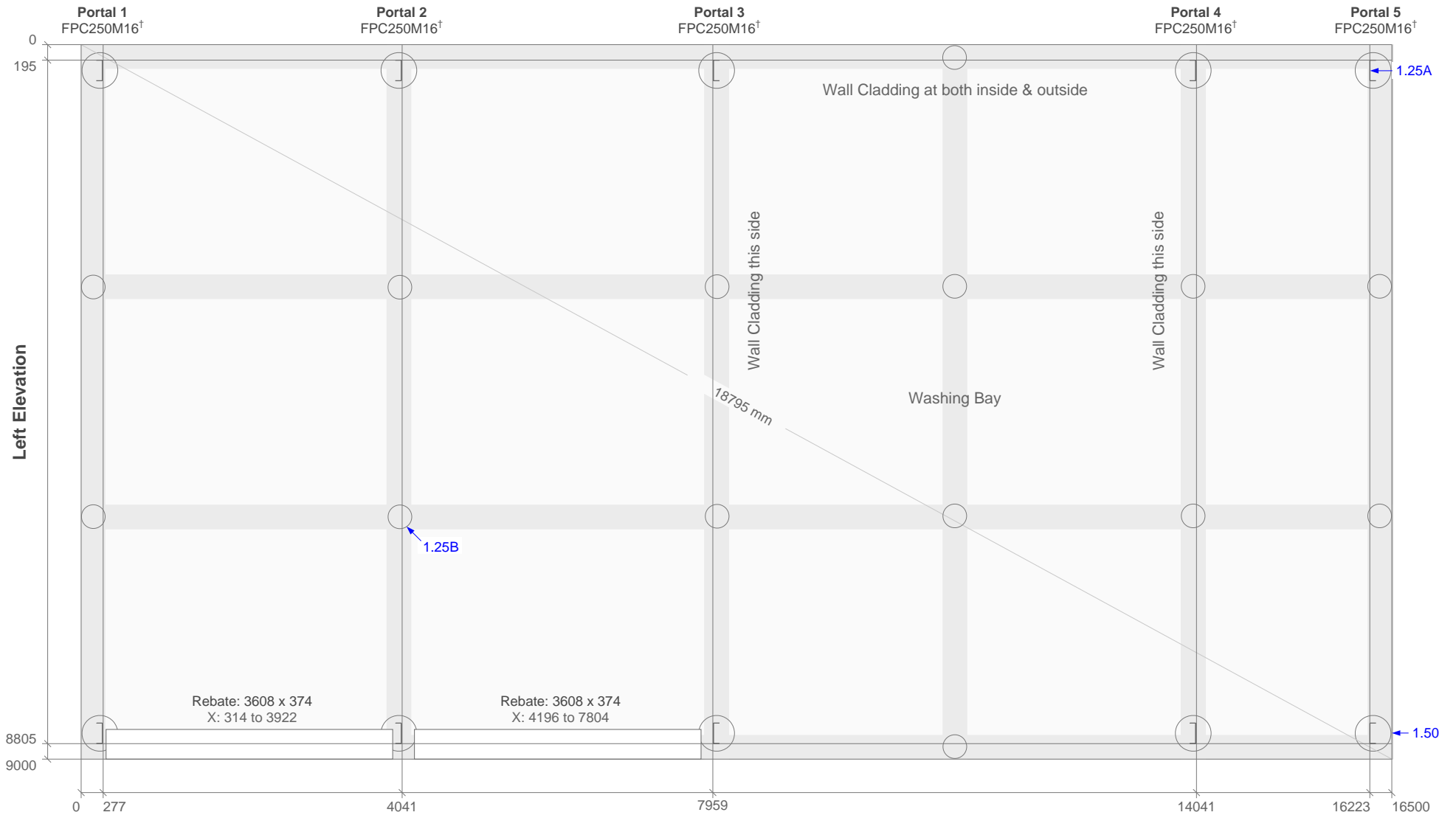
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Note: X coordinates are to the outer edge of the Footing Plate Web. Y coordinates are to the outer edge of the Footing Plate Flange, closest to and parallel to the Slab edge.



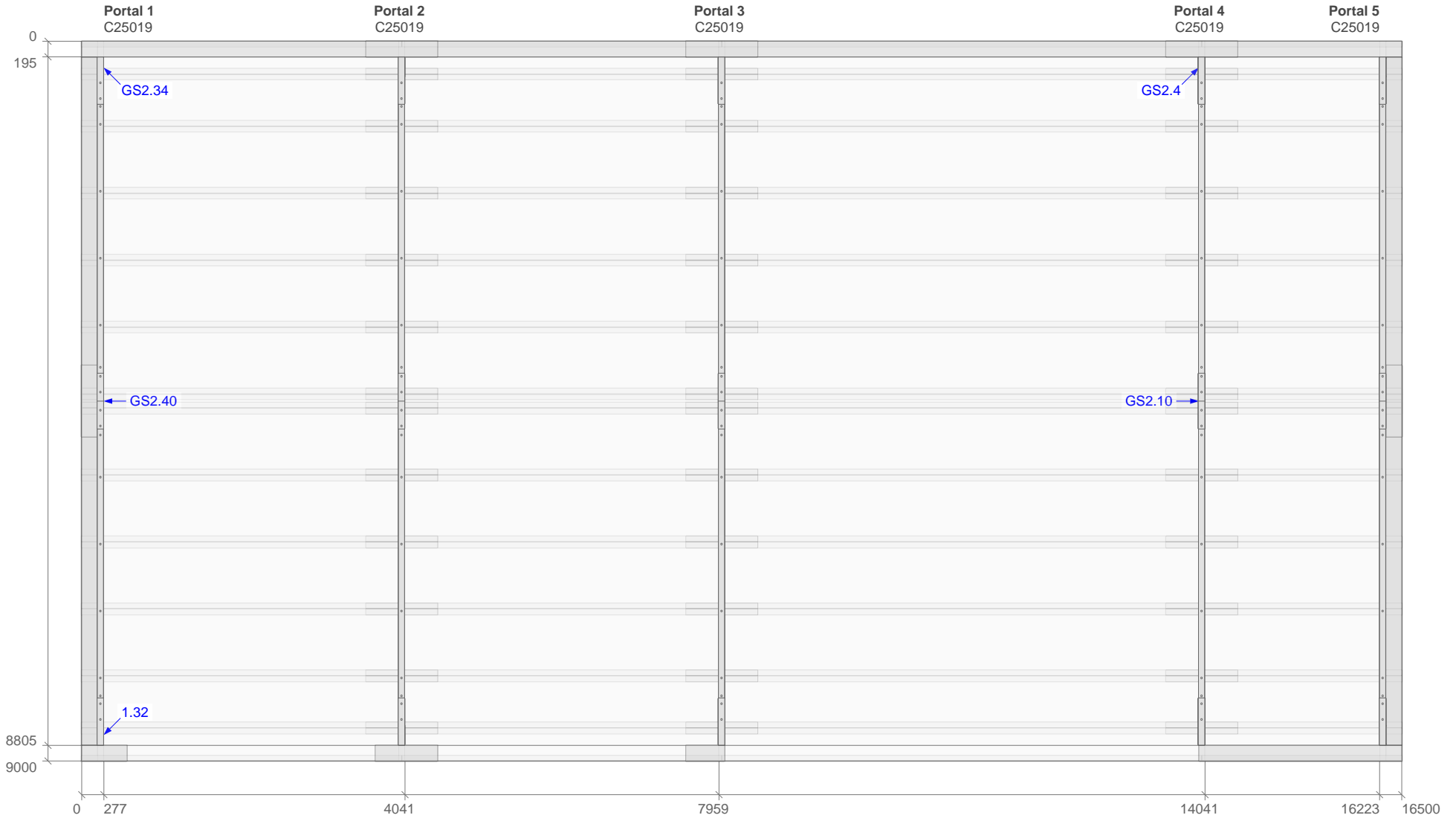
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Note: X coordinates are to the outer edge of the Footing Plate Web. Y coordinates are to the outer edge of the Footing Plate Flange, closest to and parallel to the Slab edge.

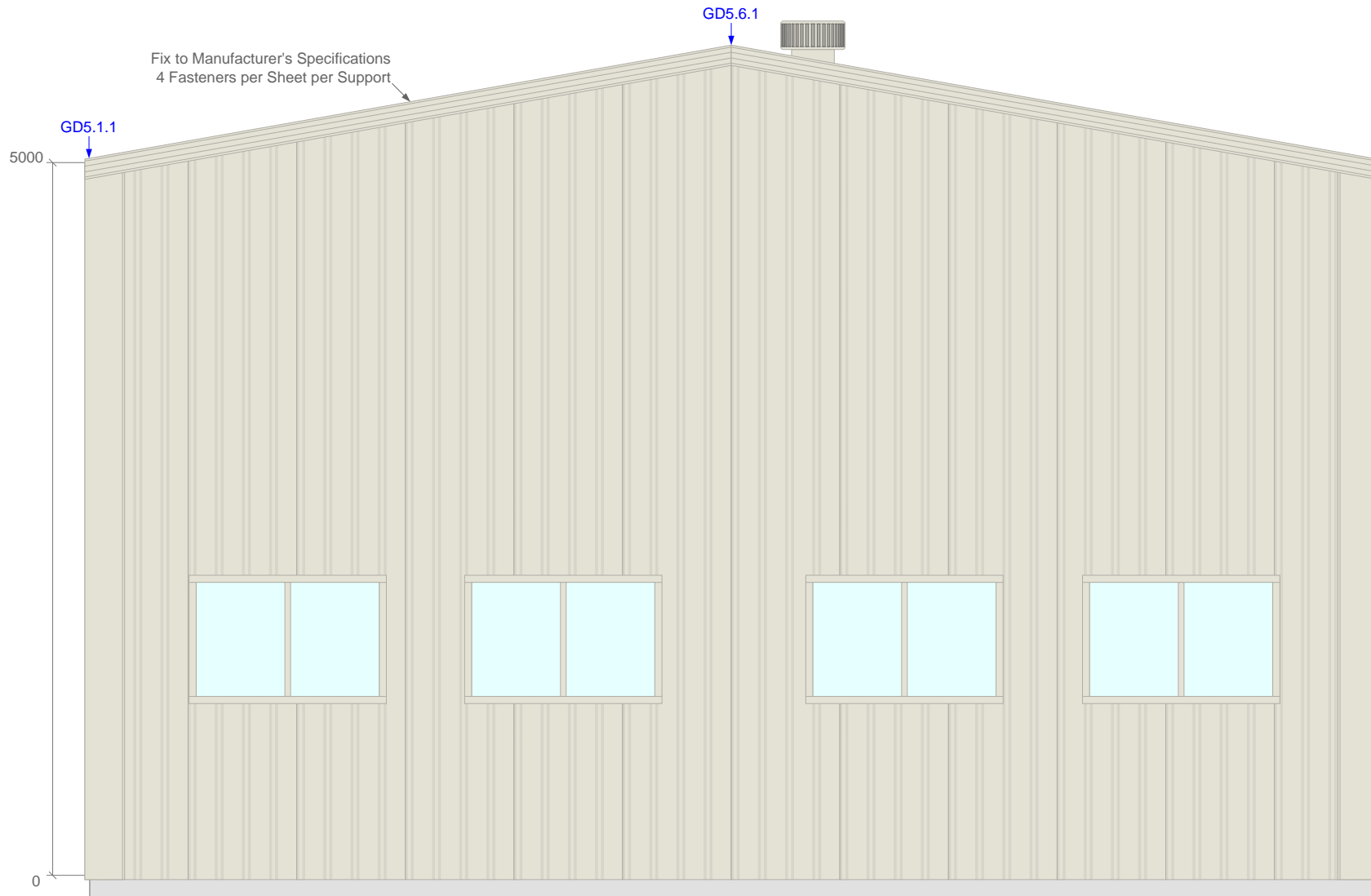
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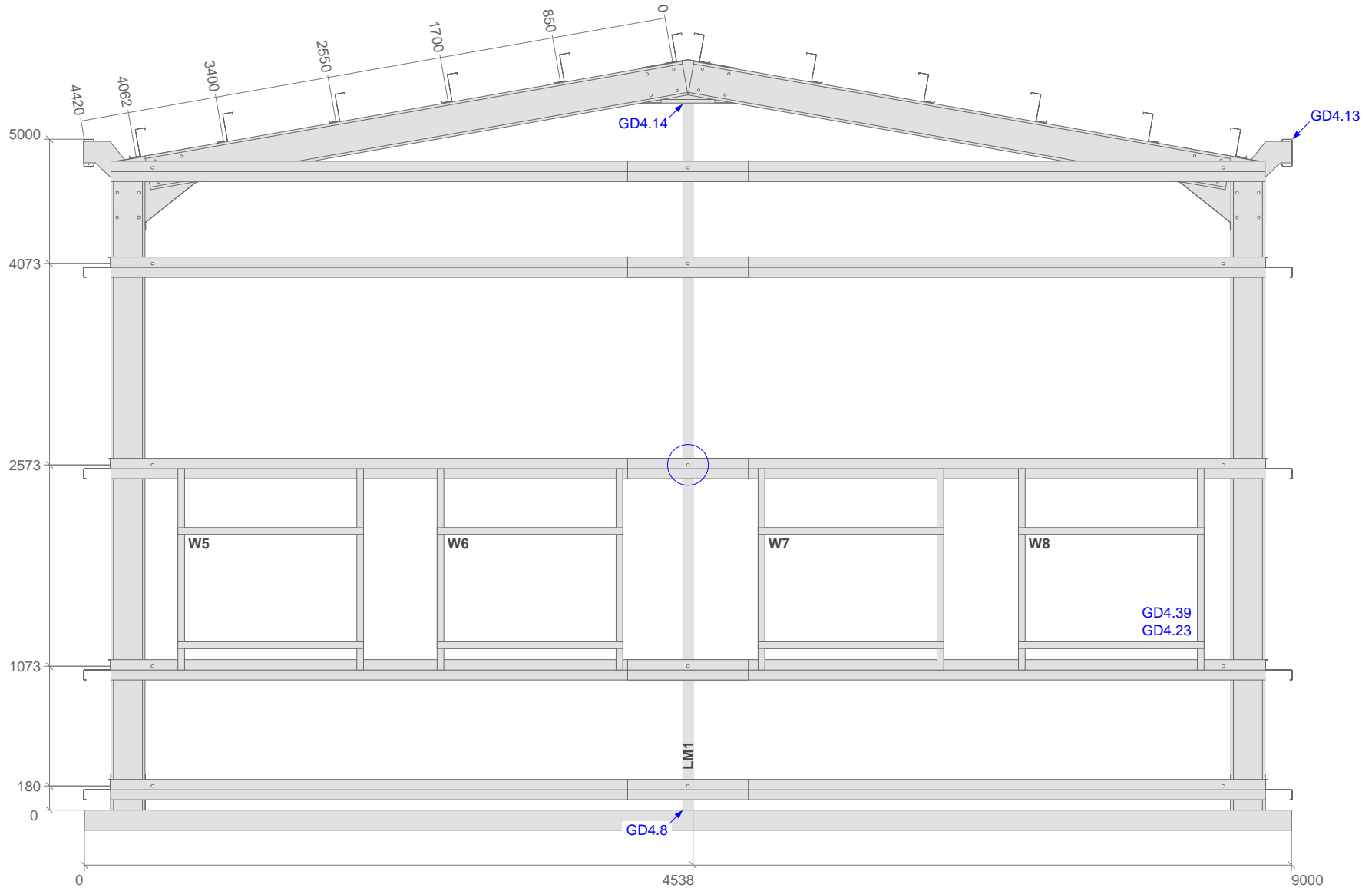
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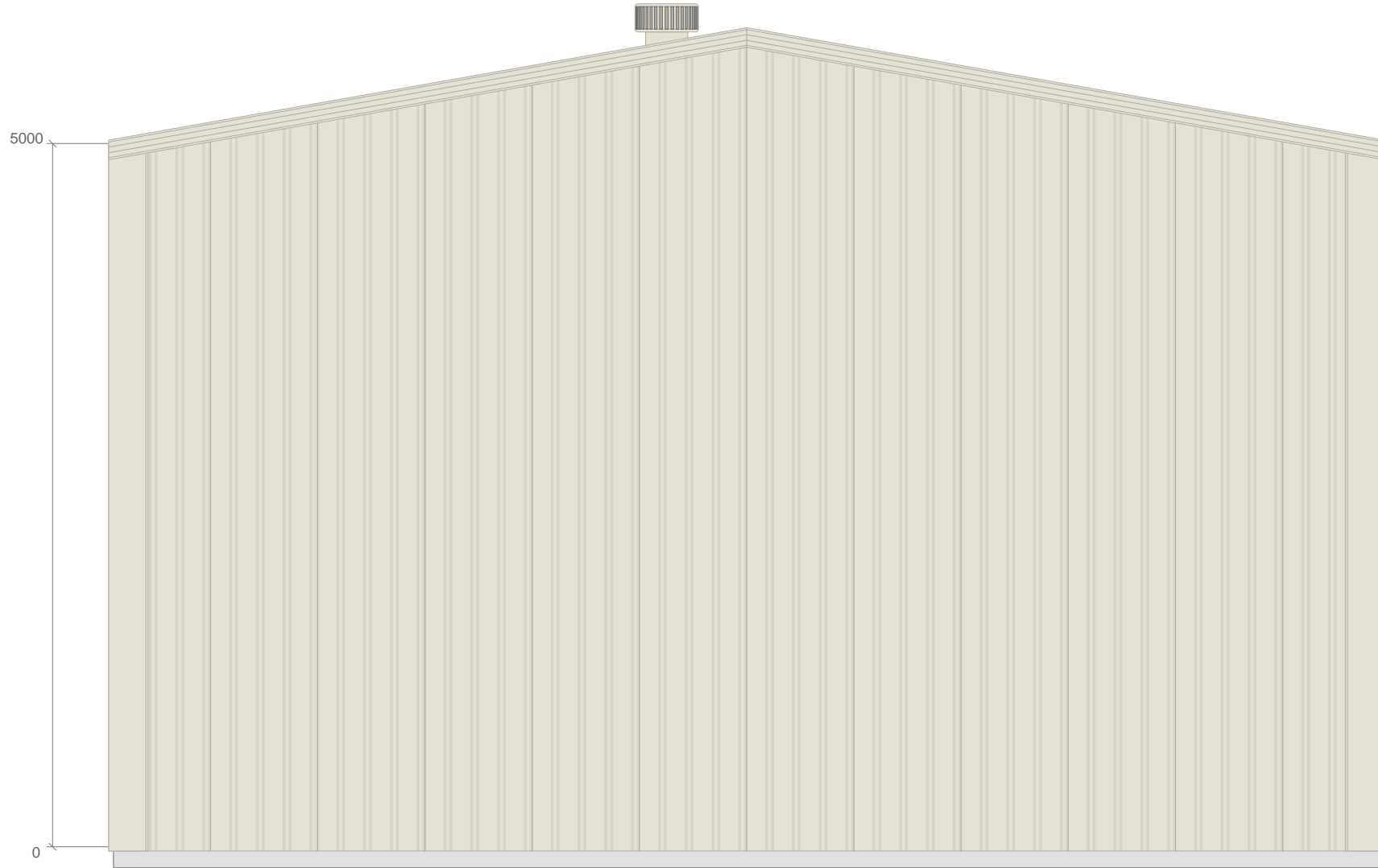


Mullion: LM1 C20019 5263 mm



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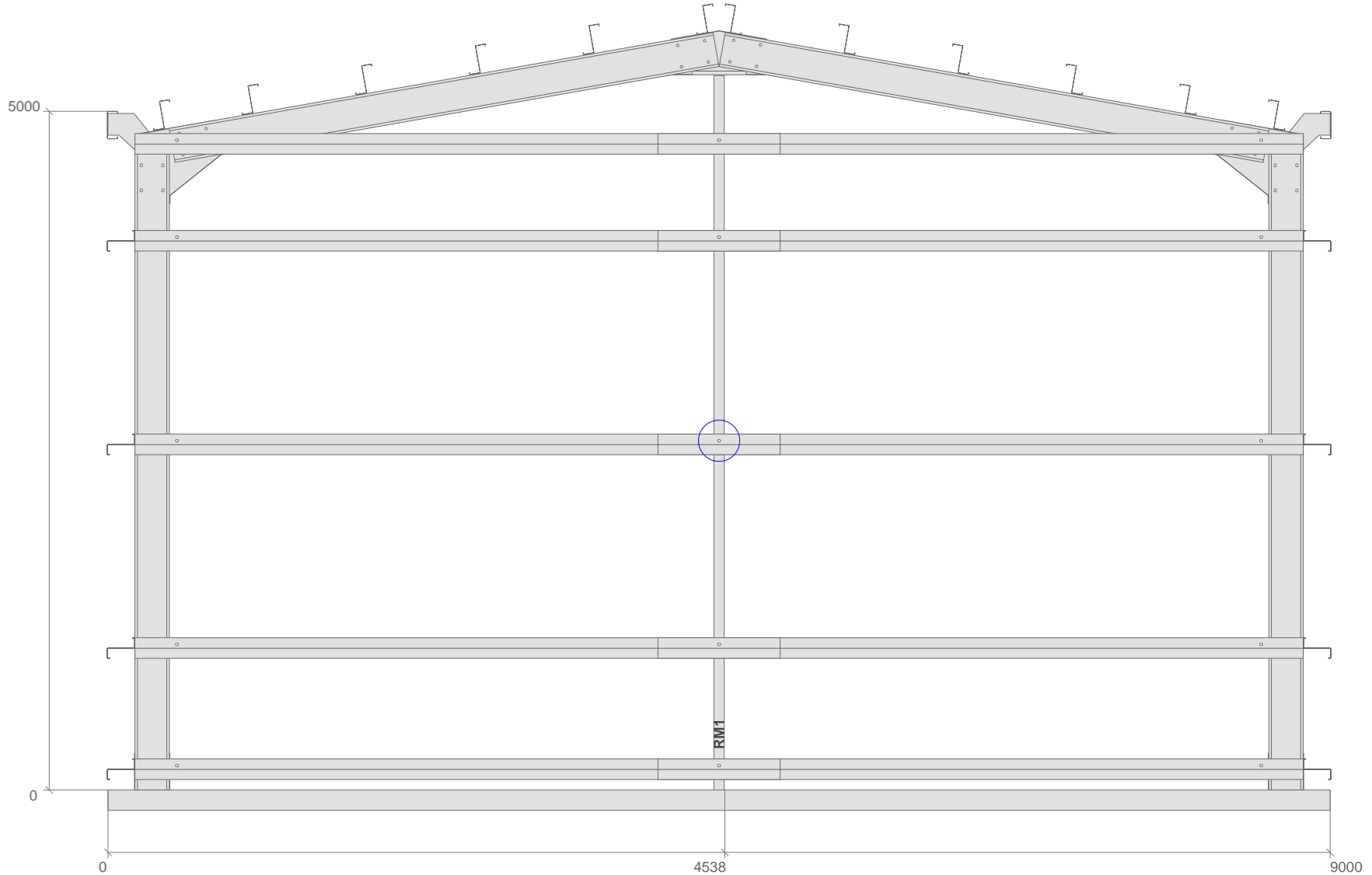
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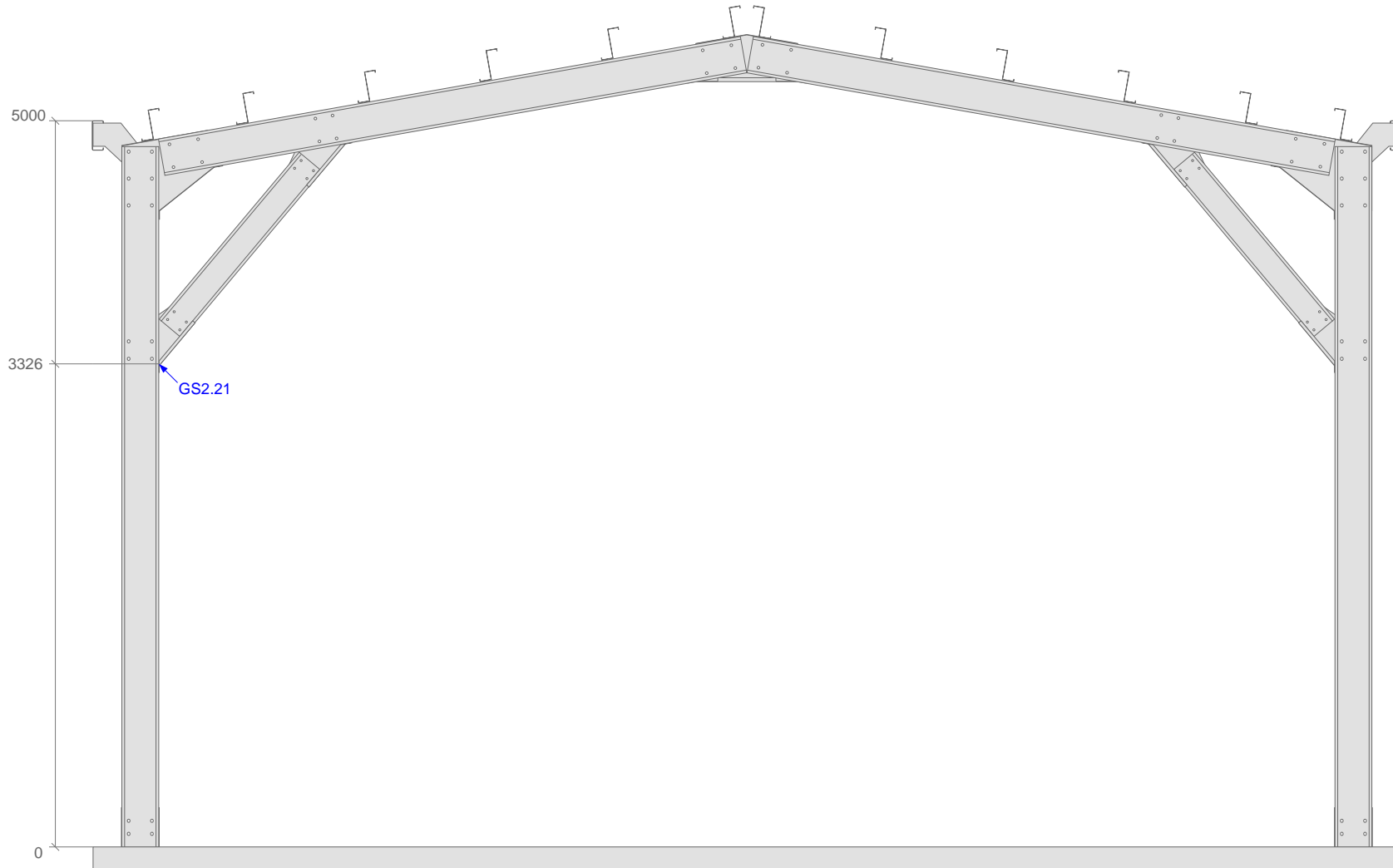


Mullion: RM1 C20019 5263 mm



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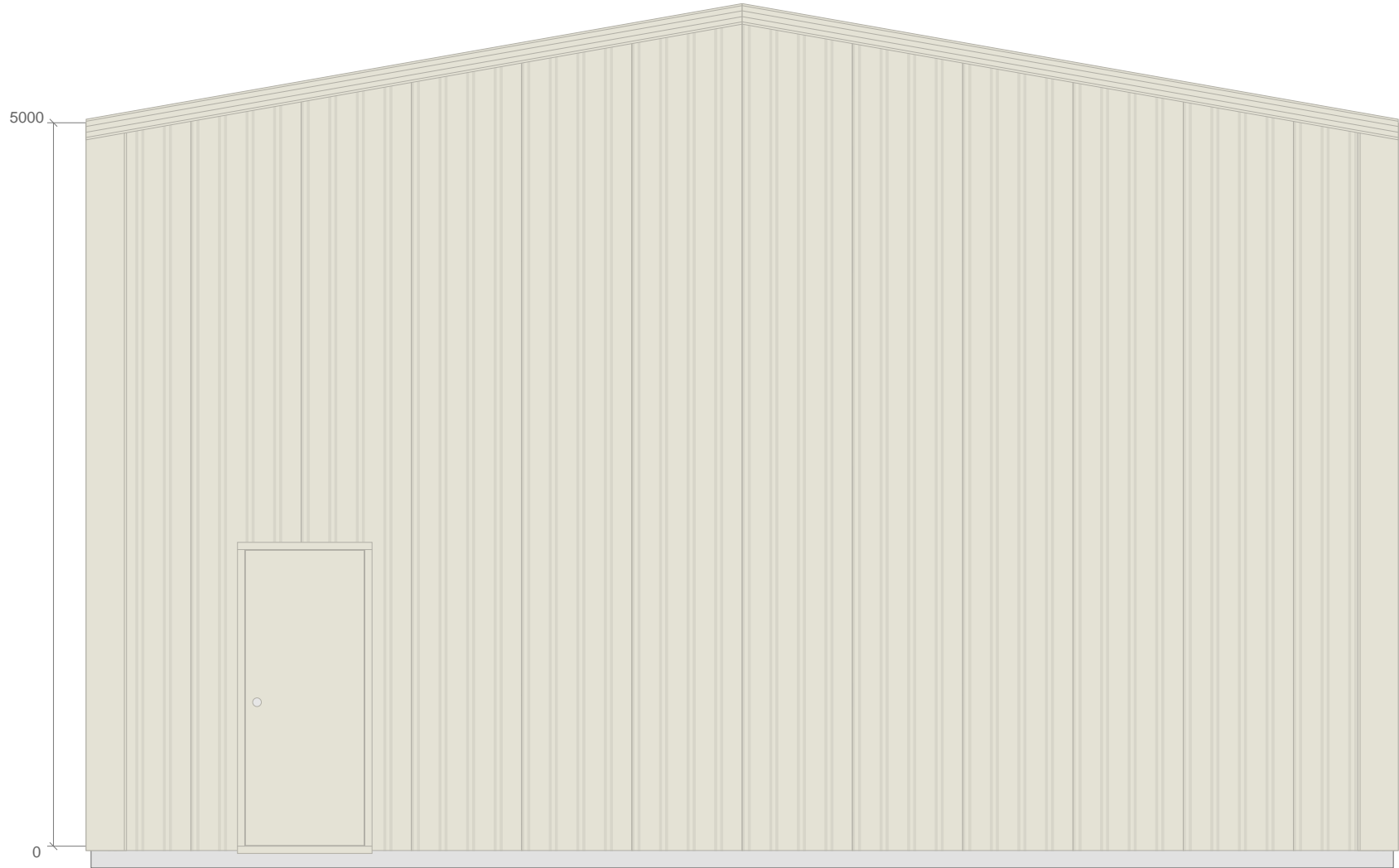
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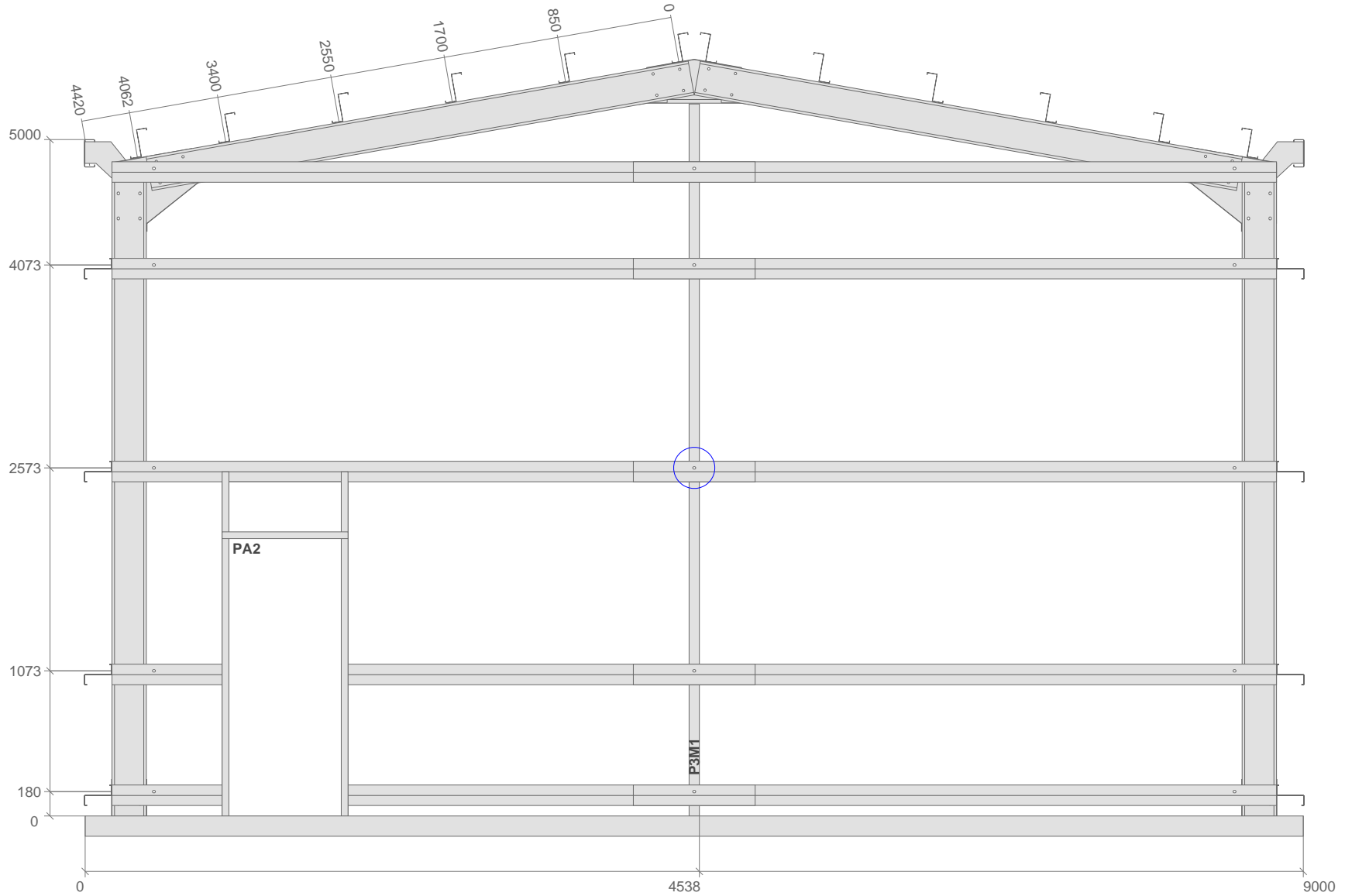
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Mullion: P3M1 C20019 5263 mm



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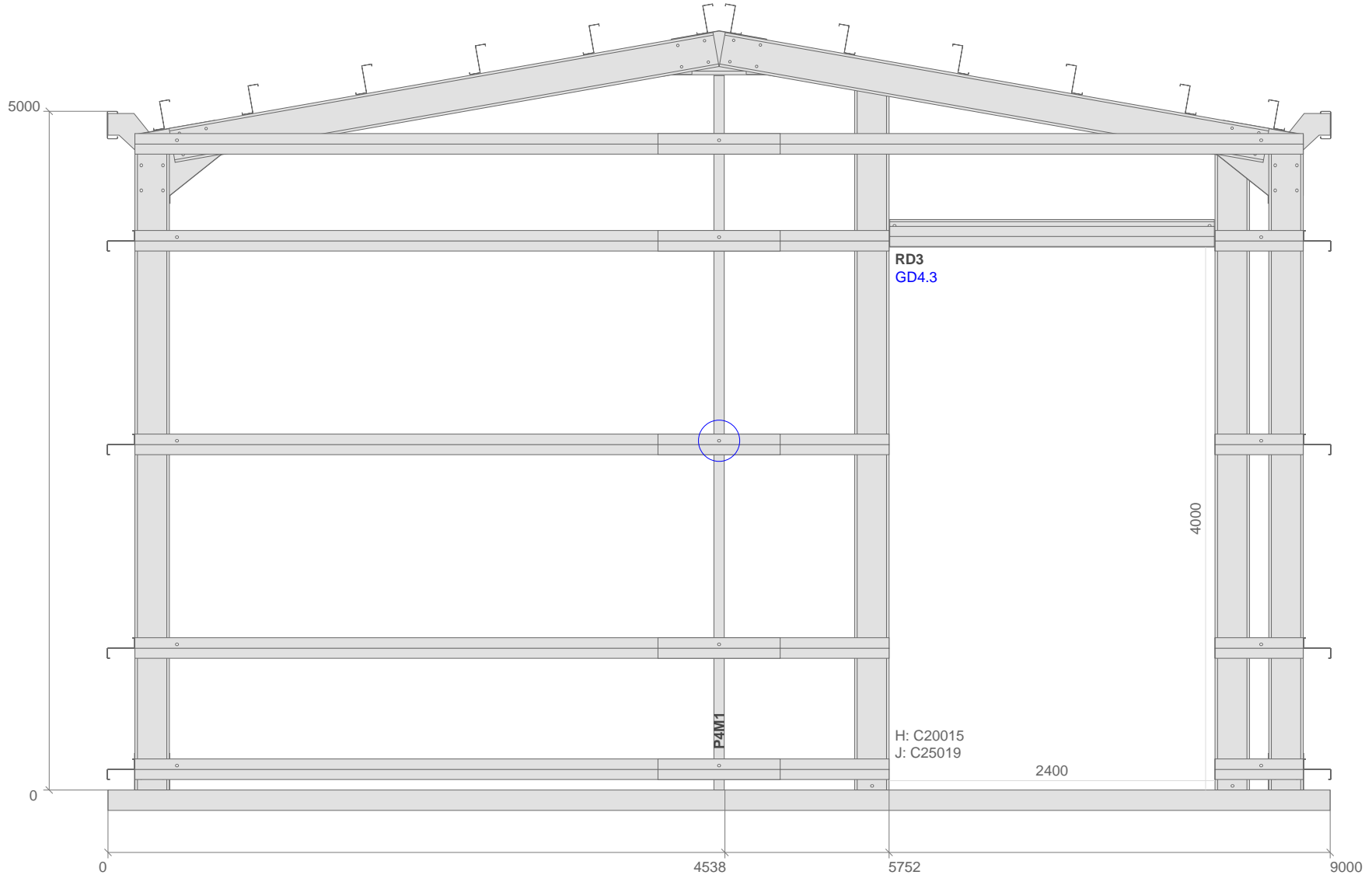
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Mullion: P4M1 C20019 5263 mm



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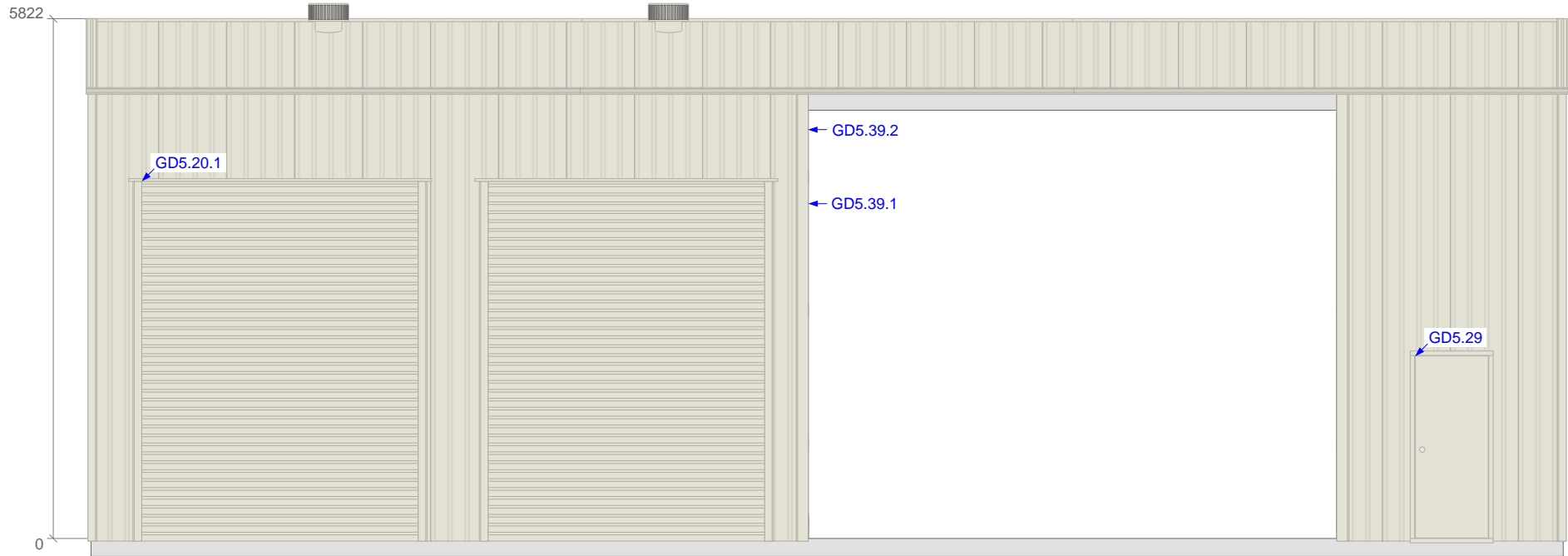
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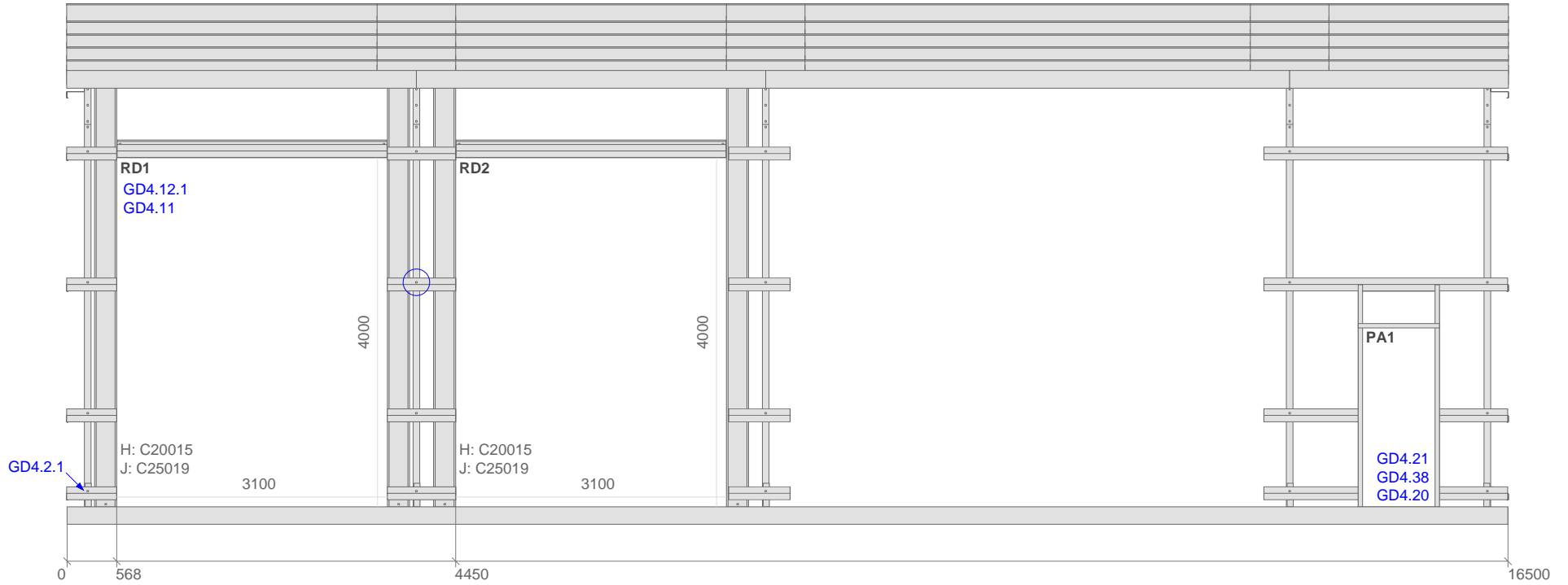
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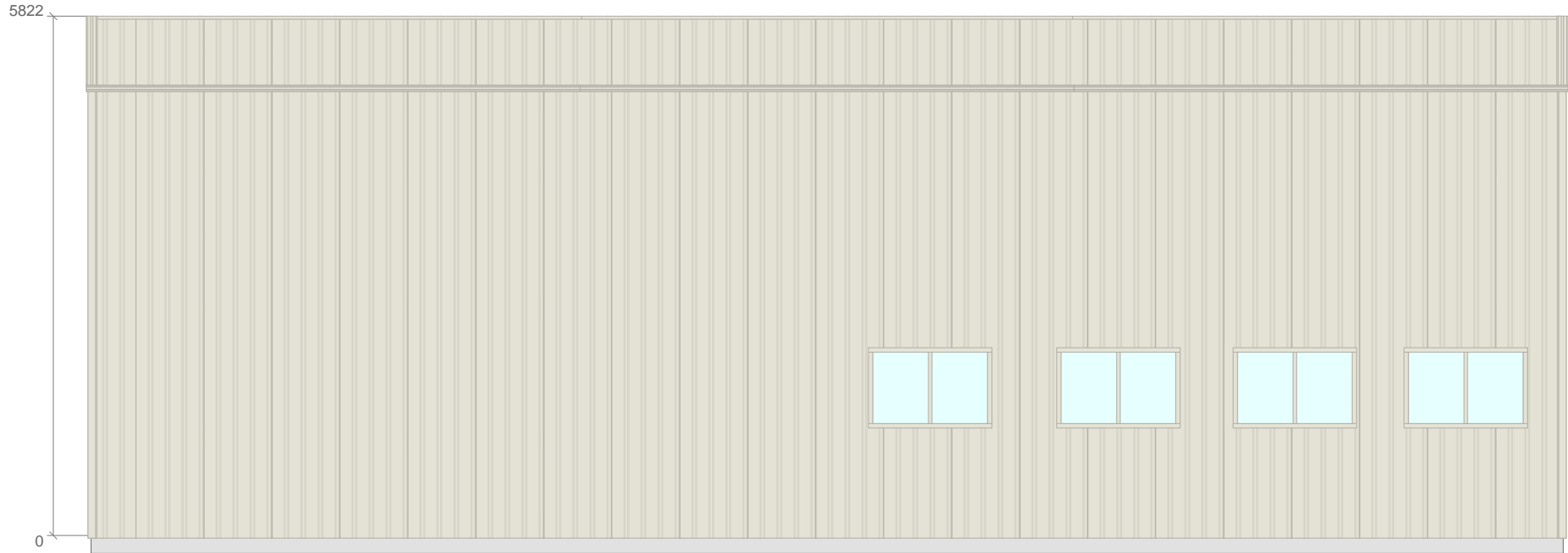
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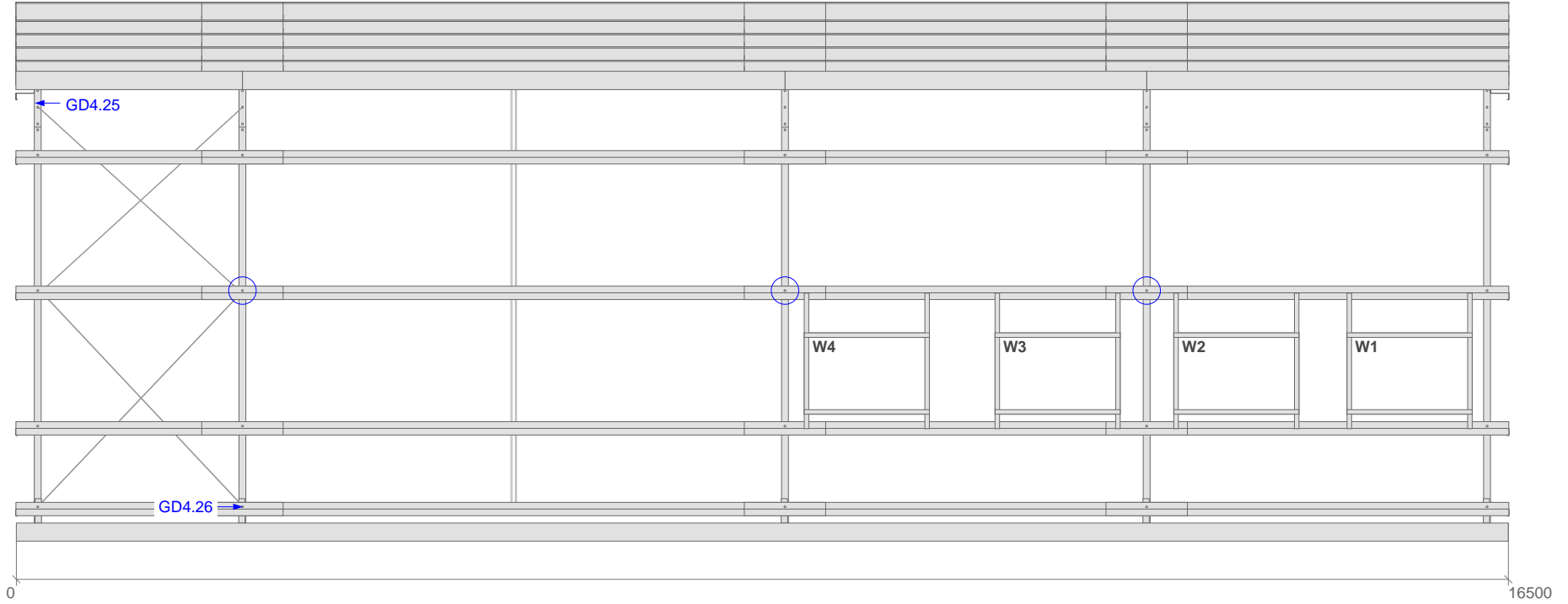


**PROFESSIONAL  
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SHEDS AND CARPORTS

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| PROJECT:<br><b>Gable Shed</b> | PROJECT NUMBER:<br><b>10477</b>  |
| CLIENT:                       | DRAWN BY:                        |
| ADDRESS:                      | DRAWN DATE:<br><b>2024-09-13</b> |

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- Fly Bracing
- Bridging GD4.27



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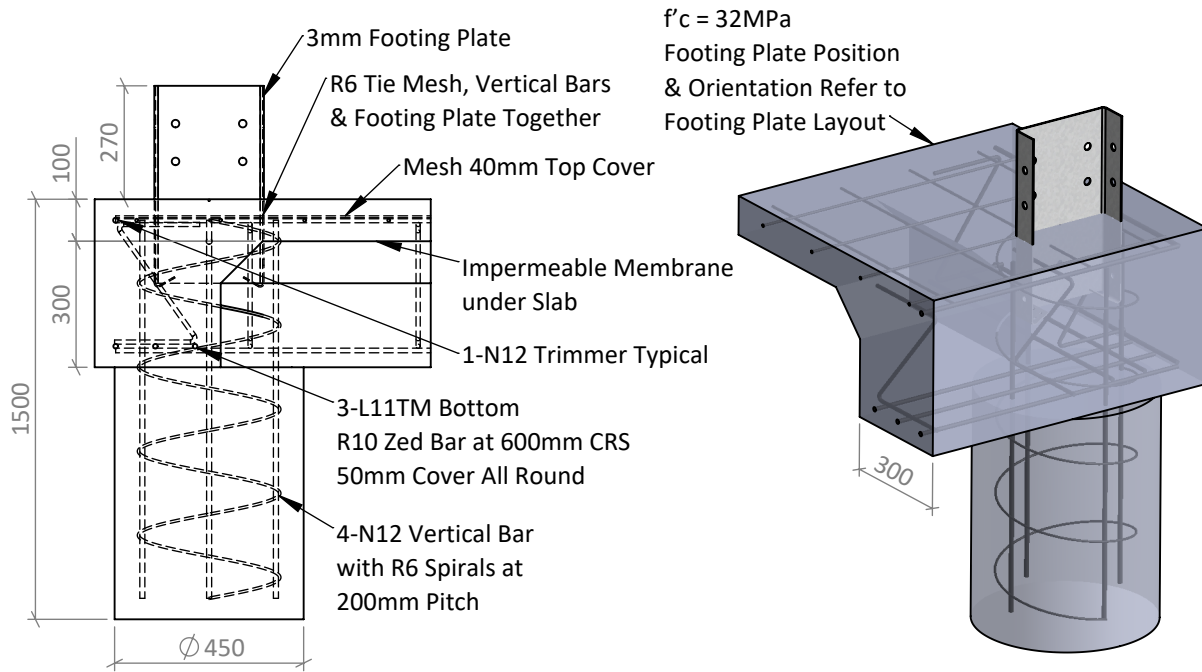
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« Detail 1.25A: Slab & Pier Connection Detail

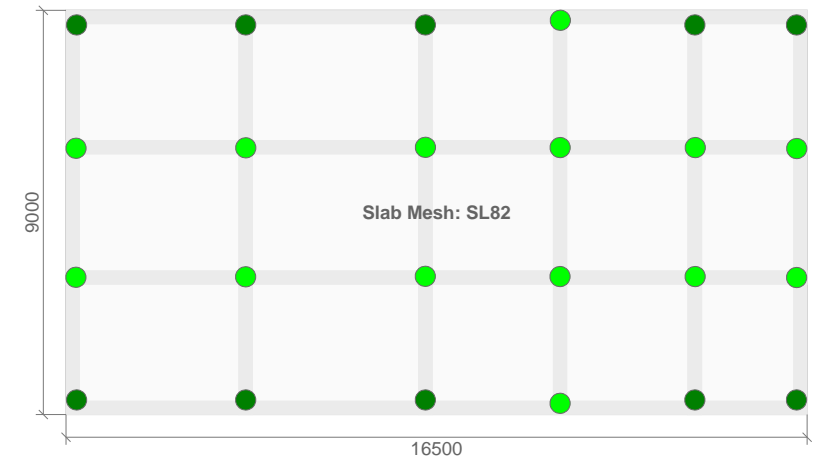


**PIER WITH SLAB & BEAMS**

**Foundation Notes:**

Foundations have been designed for an allowable bearing capacity of 100 kPa,  
 Concrete Strength = 32MPa, Site Class P  
 Maximum of 2.5kPa uniformly distributed load and 13kN concentrated load.

- Pier with Slab & Beams Internal Beamss** ●
- Depth 1500mm
- Diameter 300mm
- Pier with Slab & Beams Portals** ●
- Depth 1500mm
- Diameter 450mm



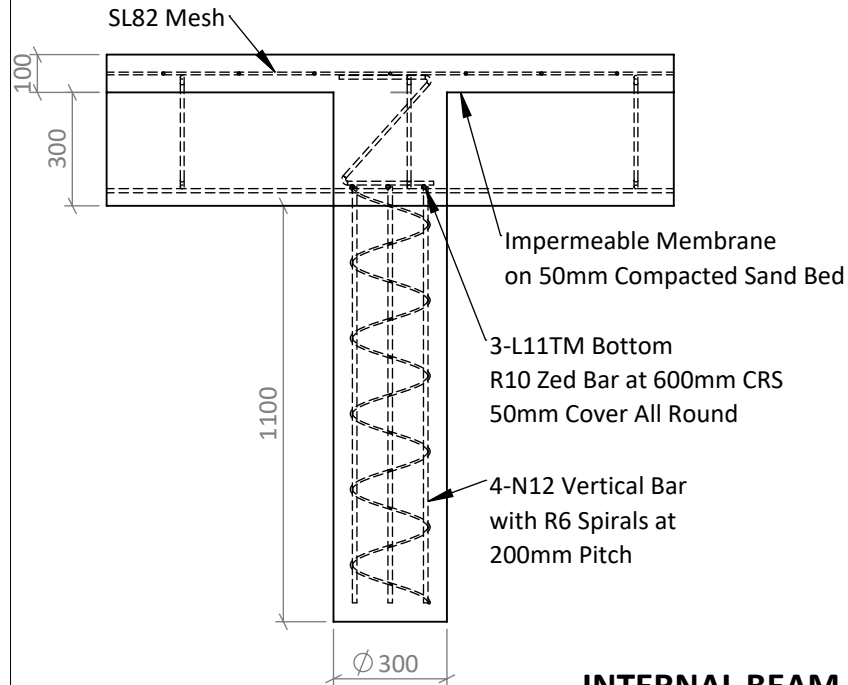
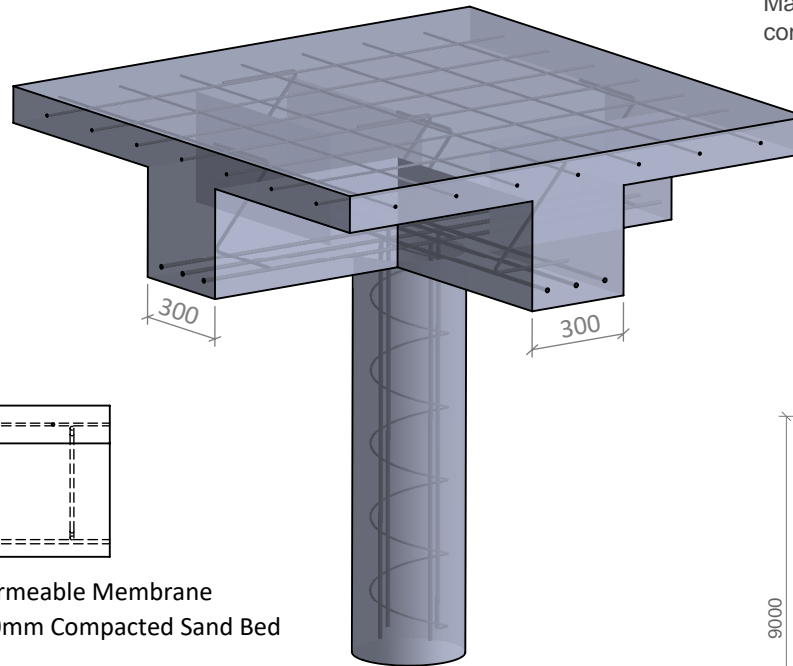
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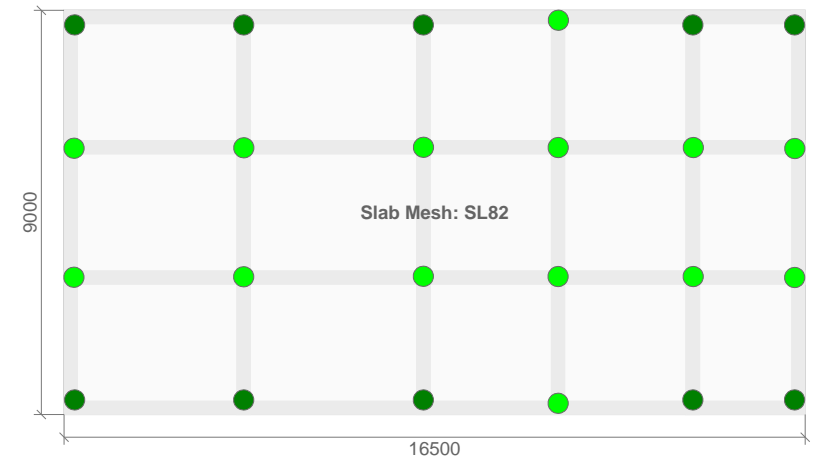
« Detail 1.25B: Internal Beams & Pier Connection Detail

**Foundation Notes:**

Foundations have been designed for an allowable bearing capacity of 100 kPa,  
 Concrete Strength = 32MPa, Site Class P  
 Maximum of 2.5kPa uniformly distributed load and 13kN concentrated load.



- Pier with Slab & Beams Internal Beamss** ●
- Depth 1500mm
- Diameter 300mm
- Pier with Slab & Beams Portals** ●
- Depth 1500mm
- Diameter 450mm



**INTERNAL BEAM & PIER DETAILS**



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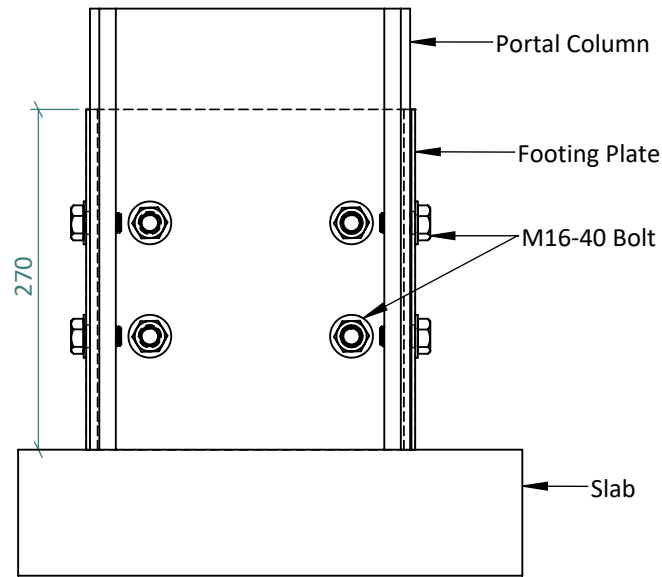
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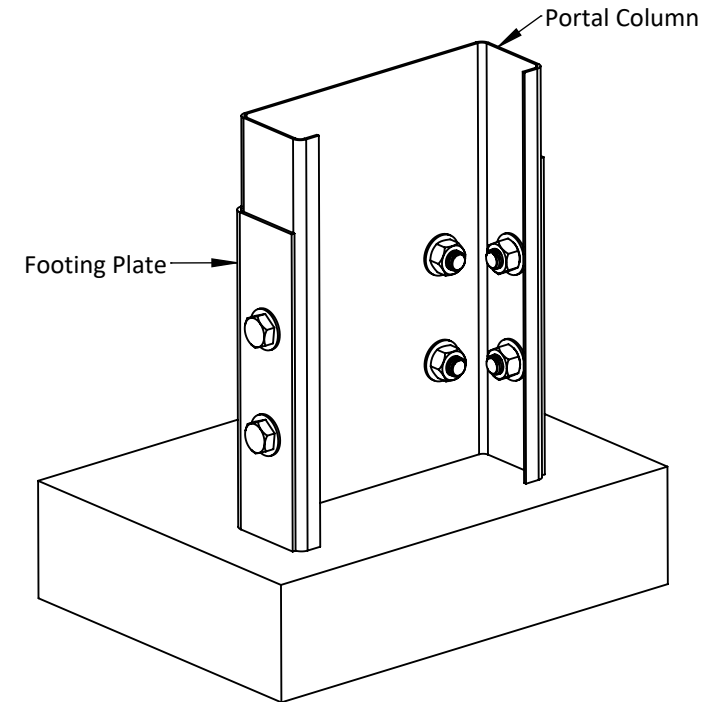
« Detail 1.32: Footing Plates Connection Detail



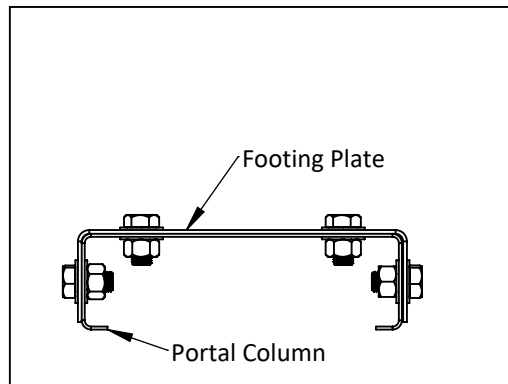
Video: Scan or Right-Click



**ELEVATION**



**ISOMETRIC**



**PLAN**



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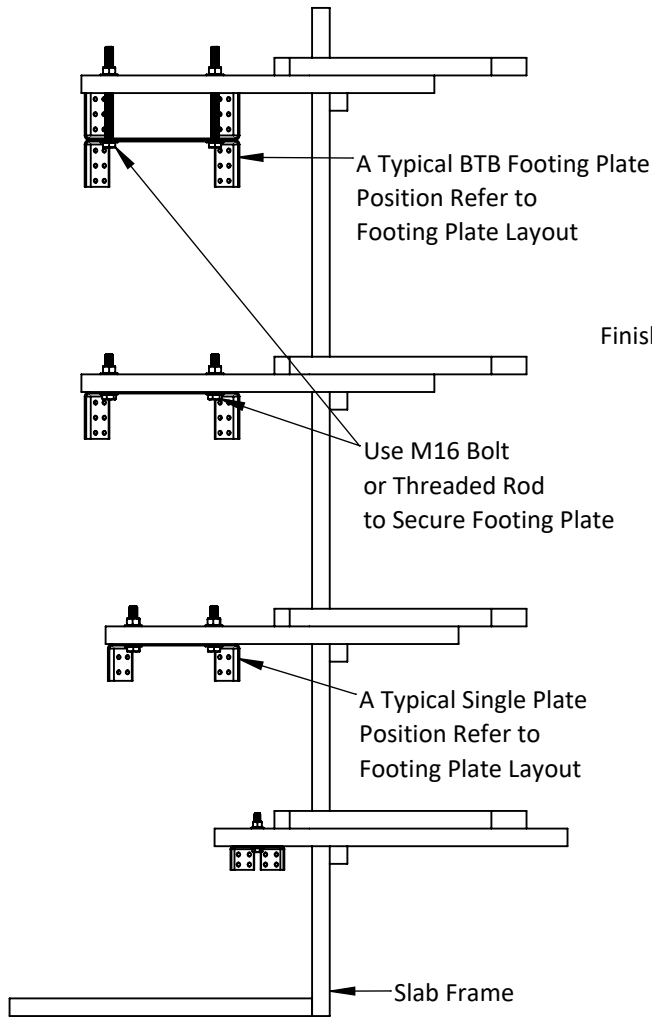
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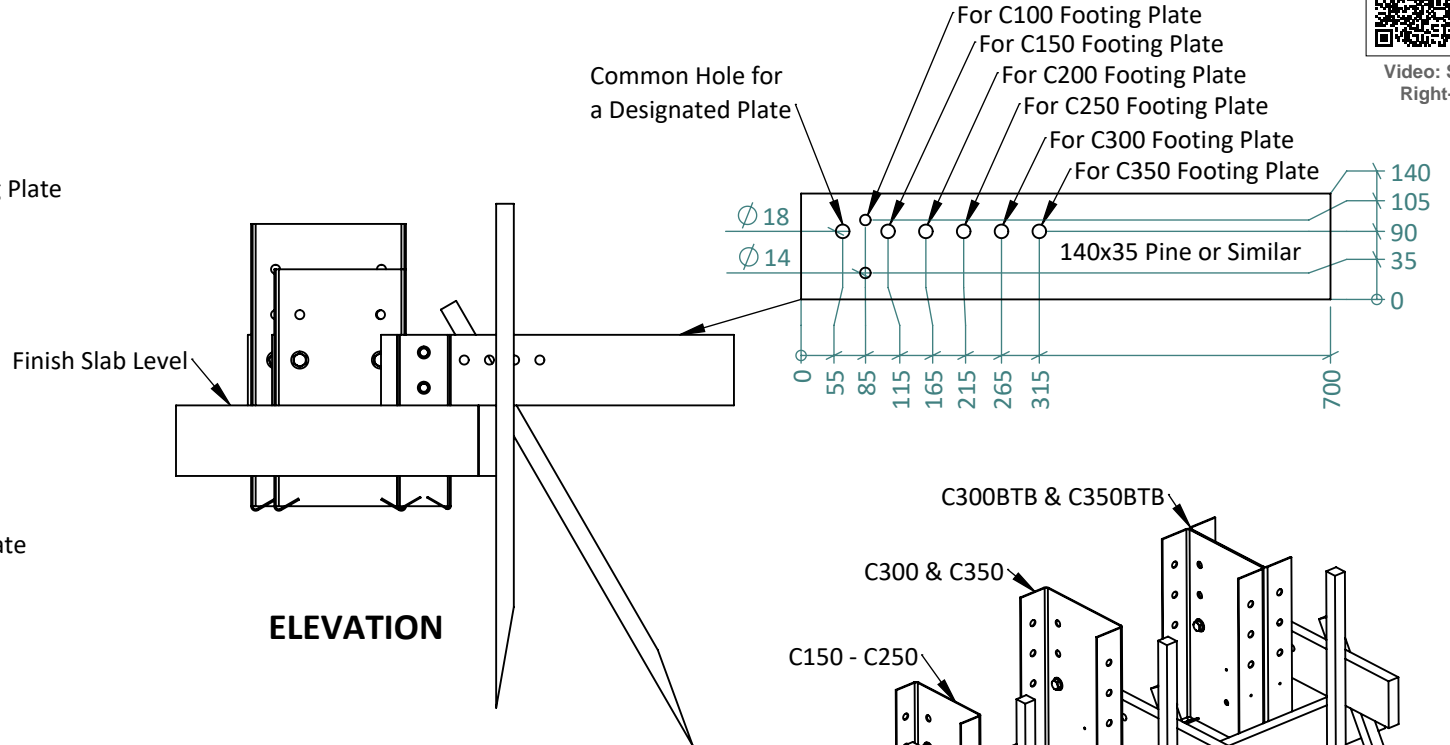
« Detail 1.50: Slab and Pier Connection Detail



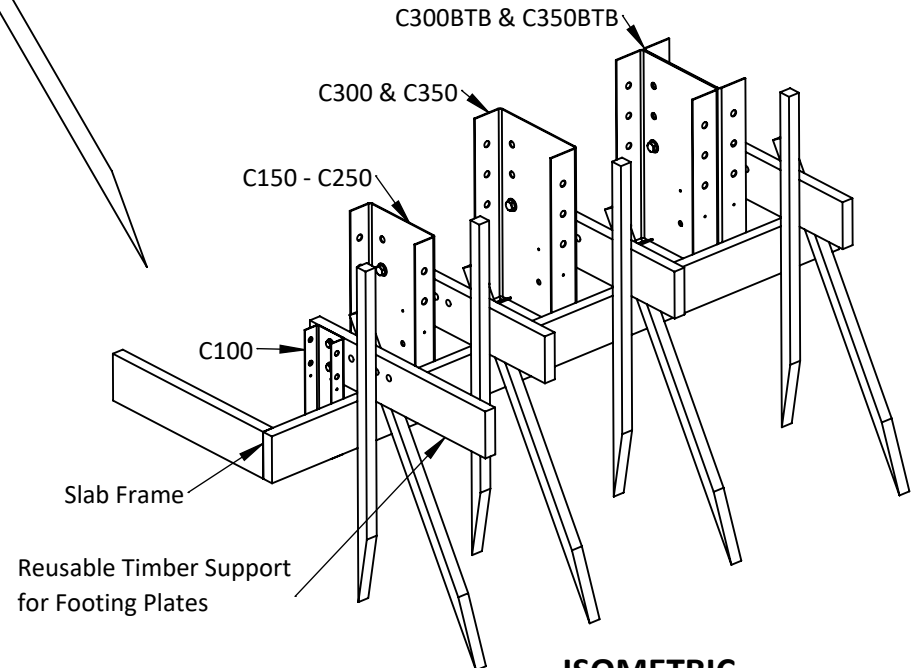
Video: Scan or Right-Click



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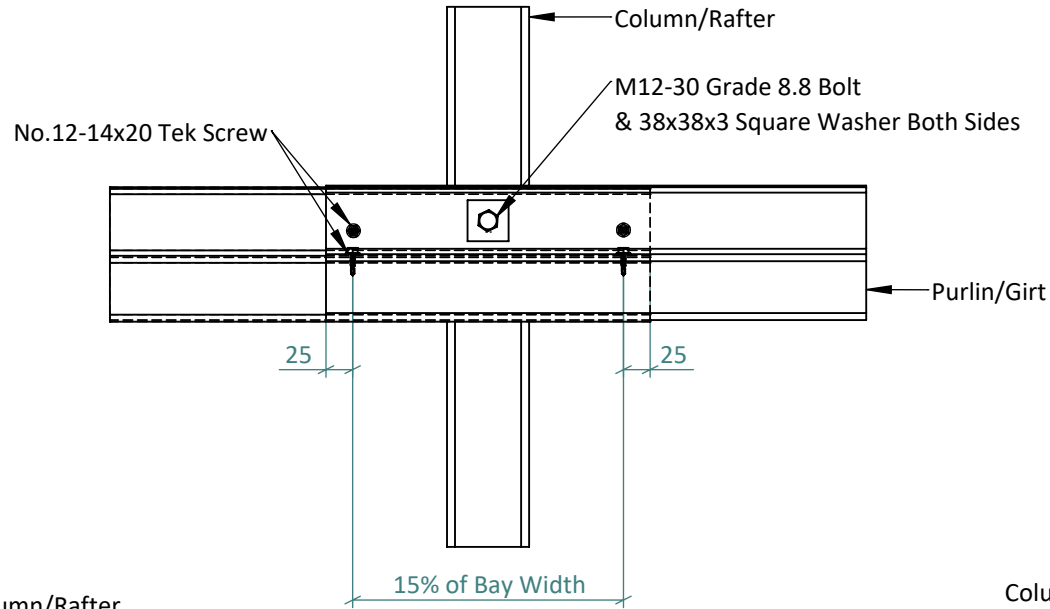
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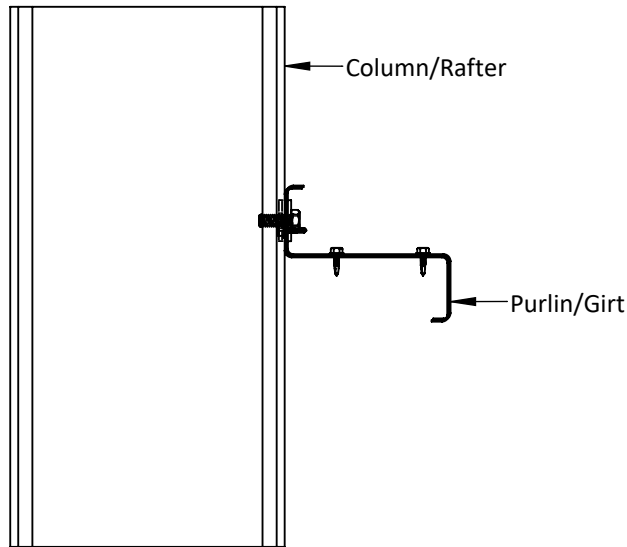
« Detail GD4.1: Purlin/Girt Connection Detail



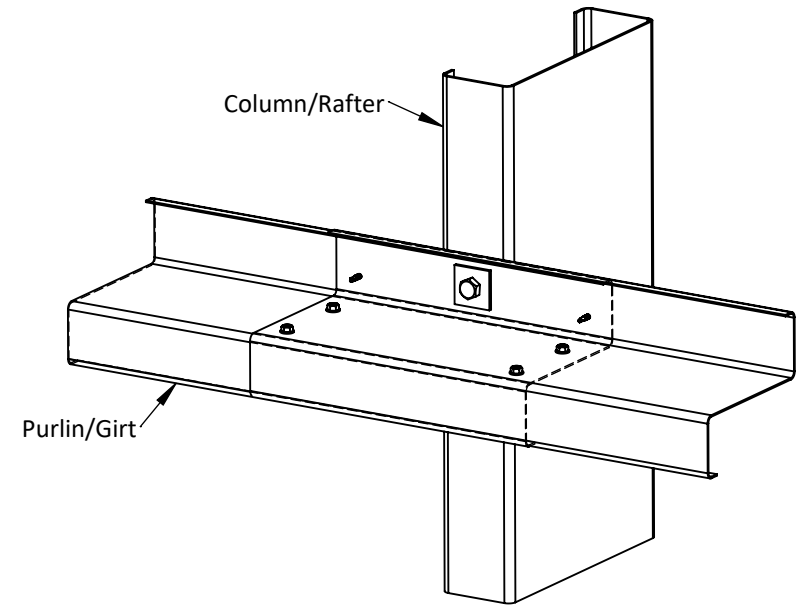
Video: Scan or Right-Click



**ELEVATION 2**



**ELEVATION 1**



**ISOMETRIC**



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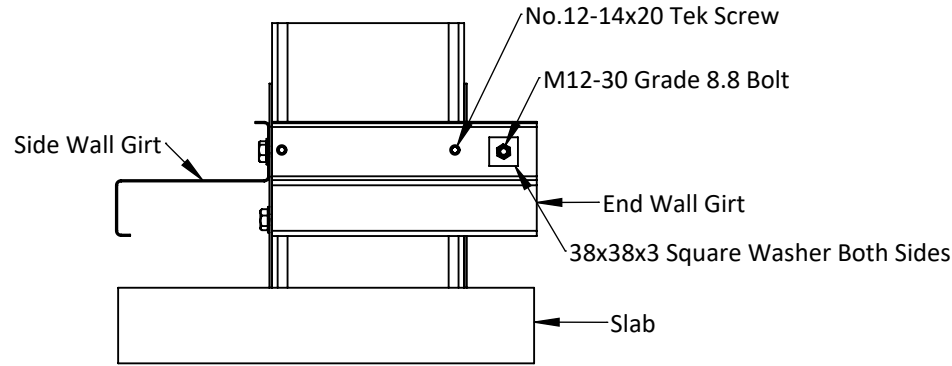
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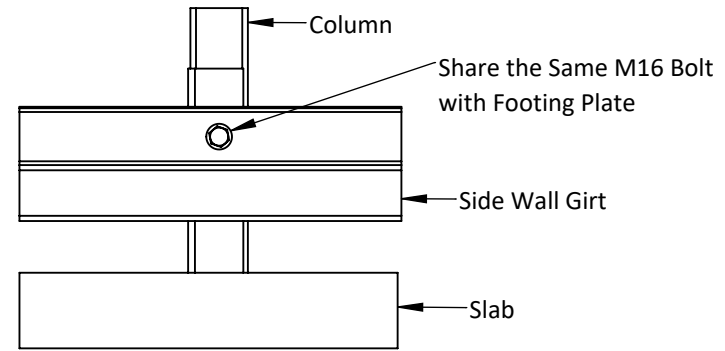
« Detail GD4.2.1: Girt Corner Connection Detail



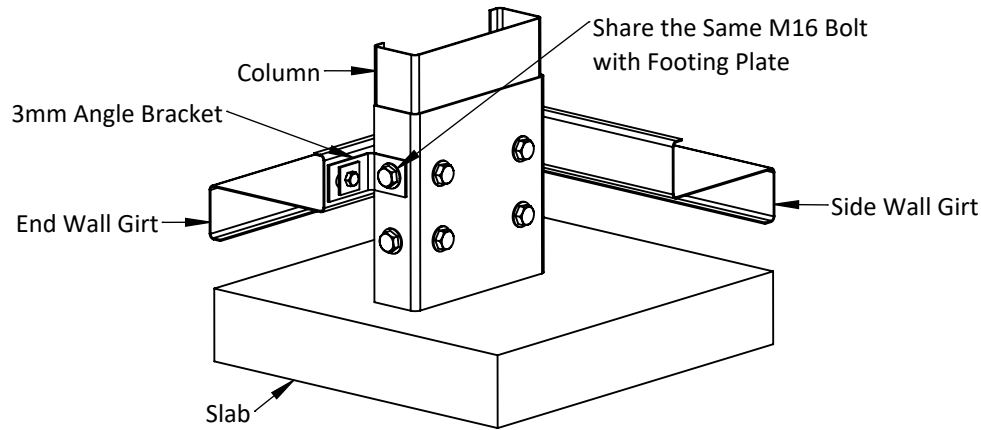
Video: Scan or Right-Click



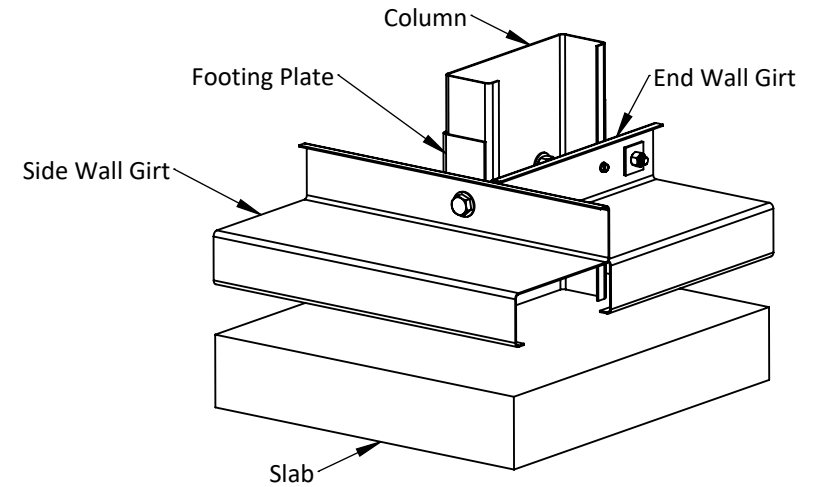
**END ELEVATION**



**SIDE ELEVATION**



**ISOMETRIC 2**



**ISOMETRIC 1**



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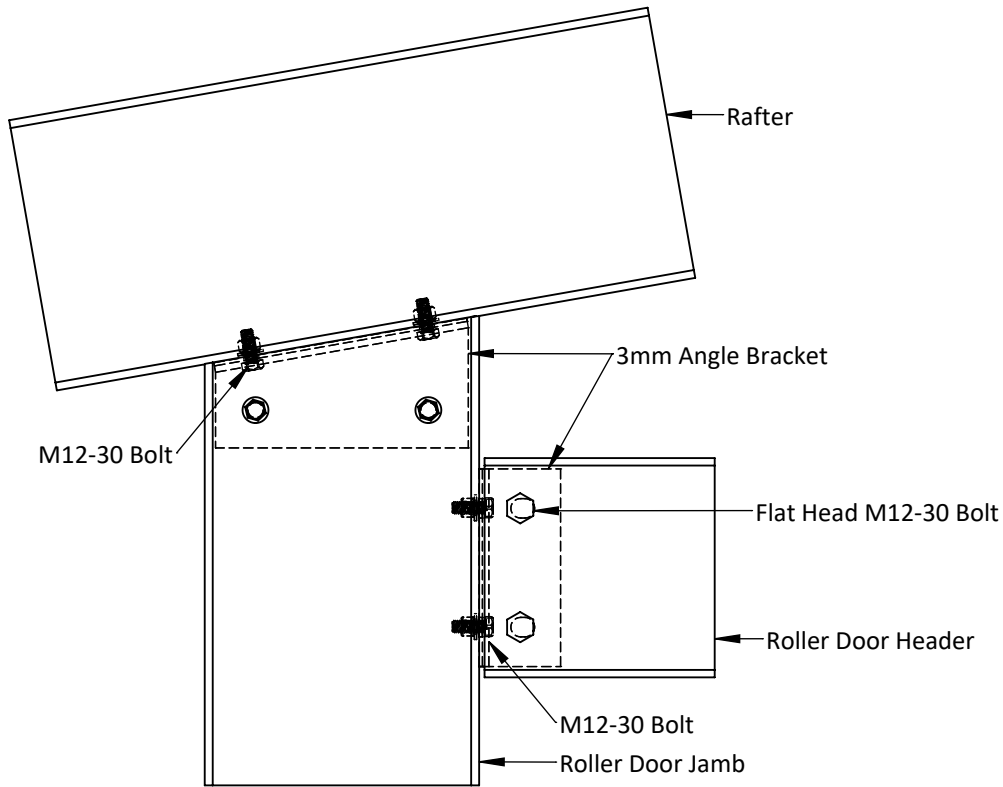
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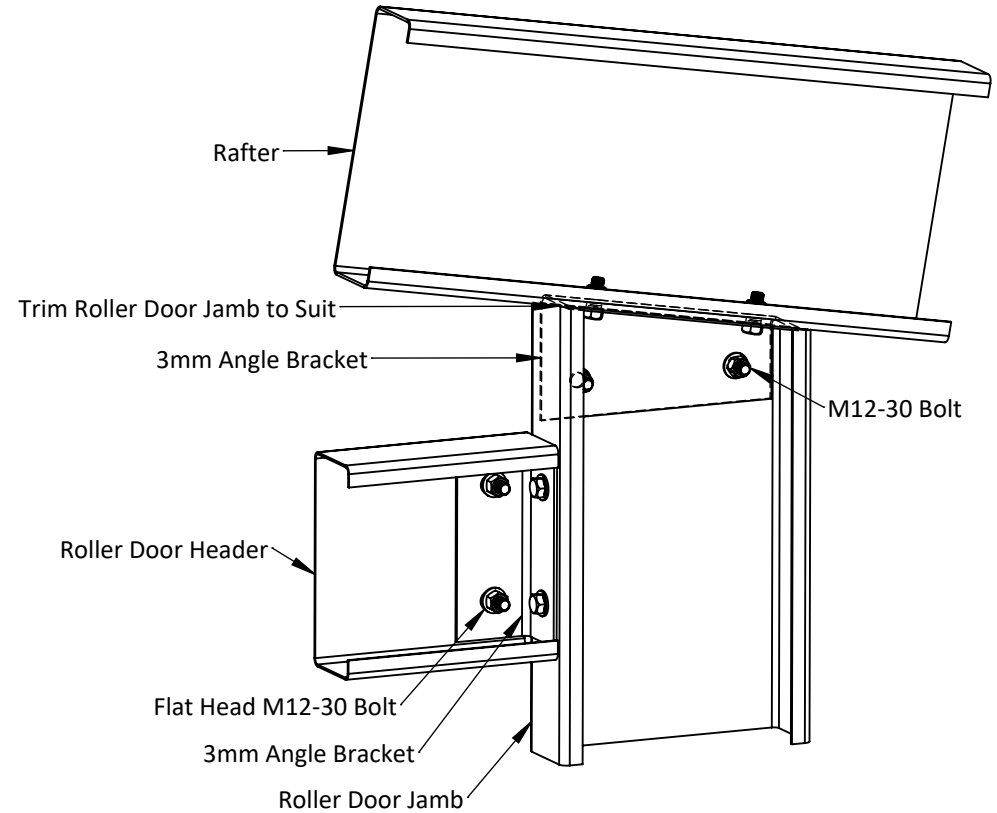
« Detail GD4.3: Roller Door Jamb to Header & Rafter Connection Detail



Video: Scan or Right-Click



**ELEVATION  
(VIEW FROM INSIDE BUILDING)**



**ISOMETRIC**



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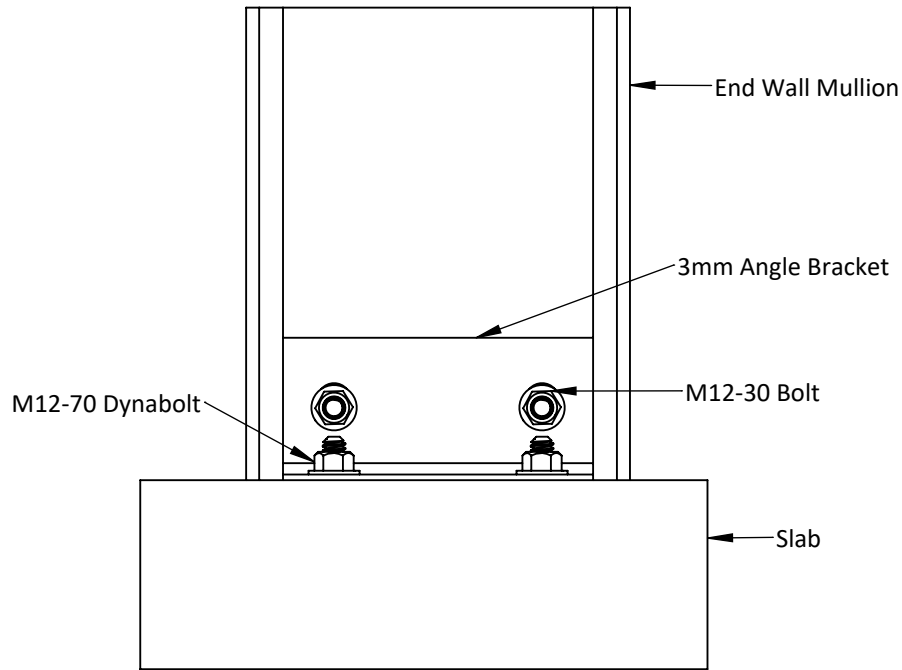
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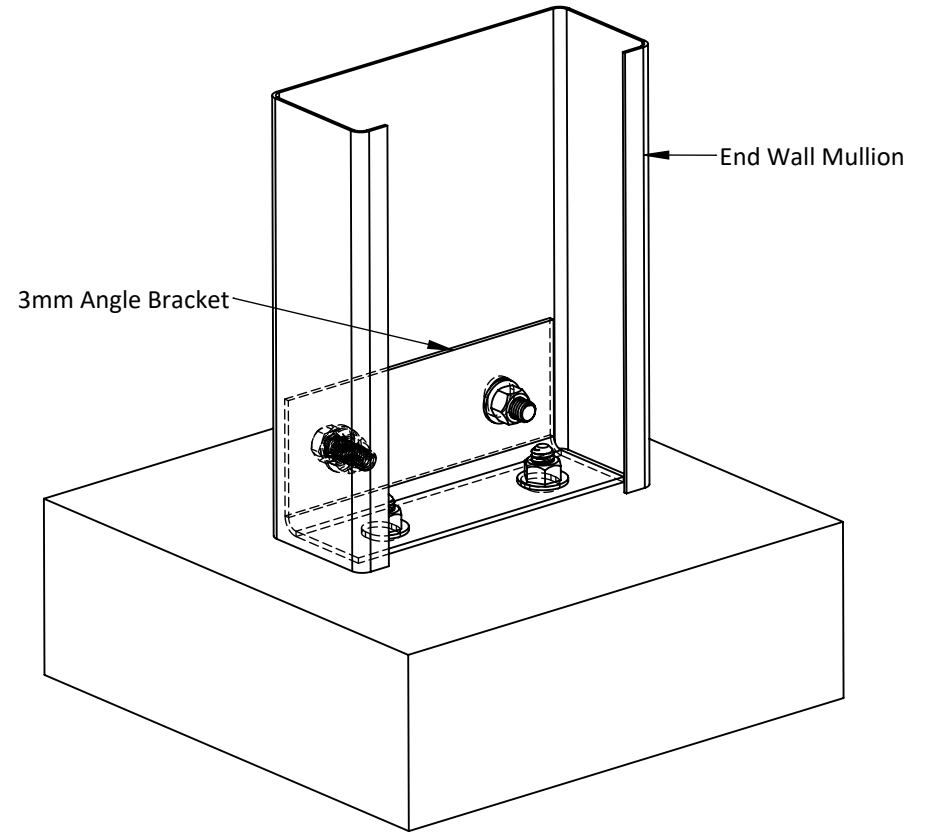
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Video: Scan or Right-Click



**ELEVATION**



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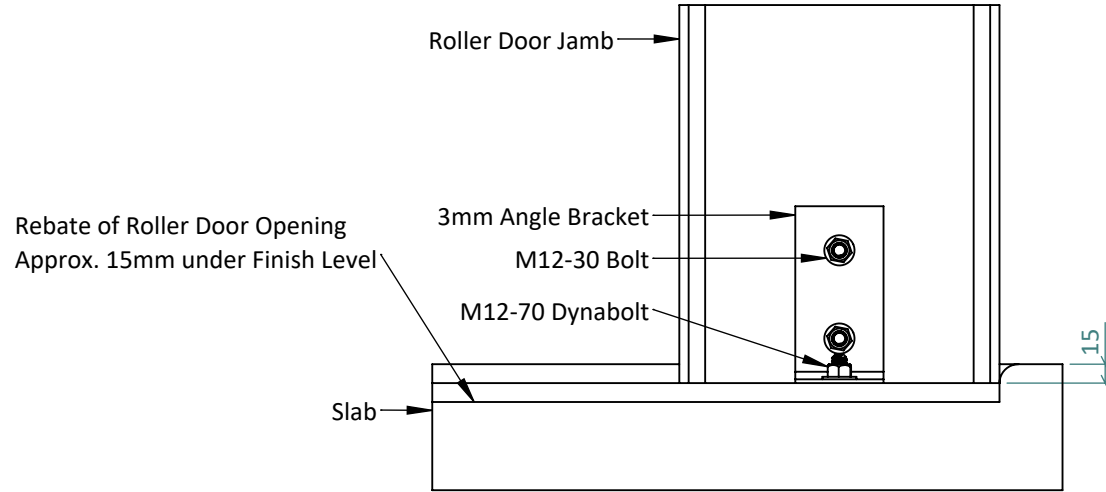
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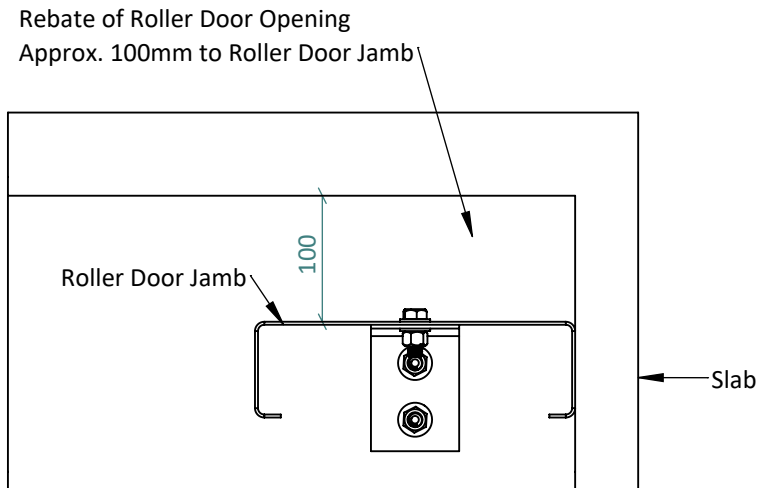
« Detail GD4.11: Roller Door Jamb to Slab Connection Detail



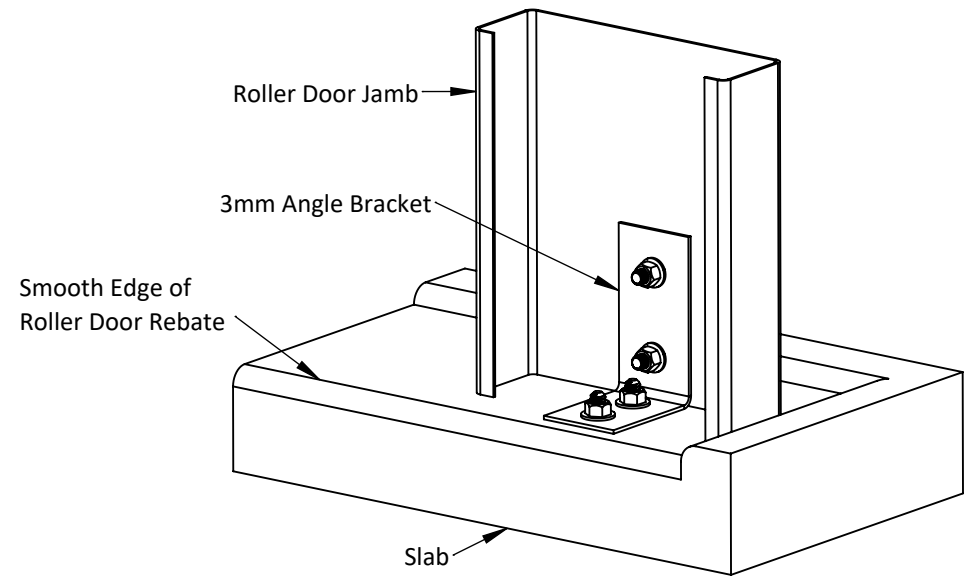
Video: Scan or Right-Click



**ELEVATION**



**PLAN**



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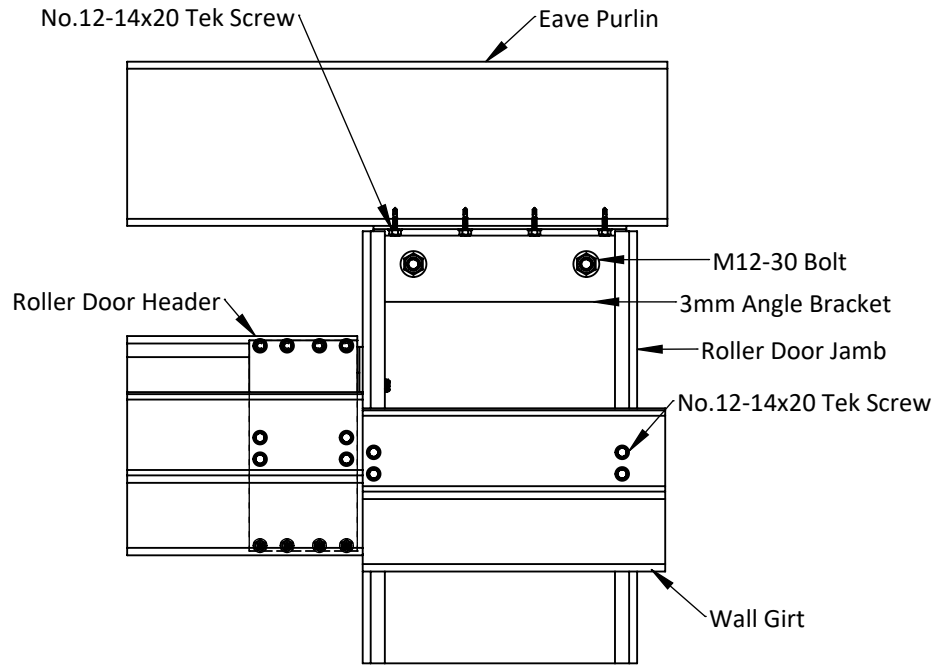
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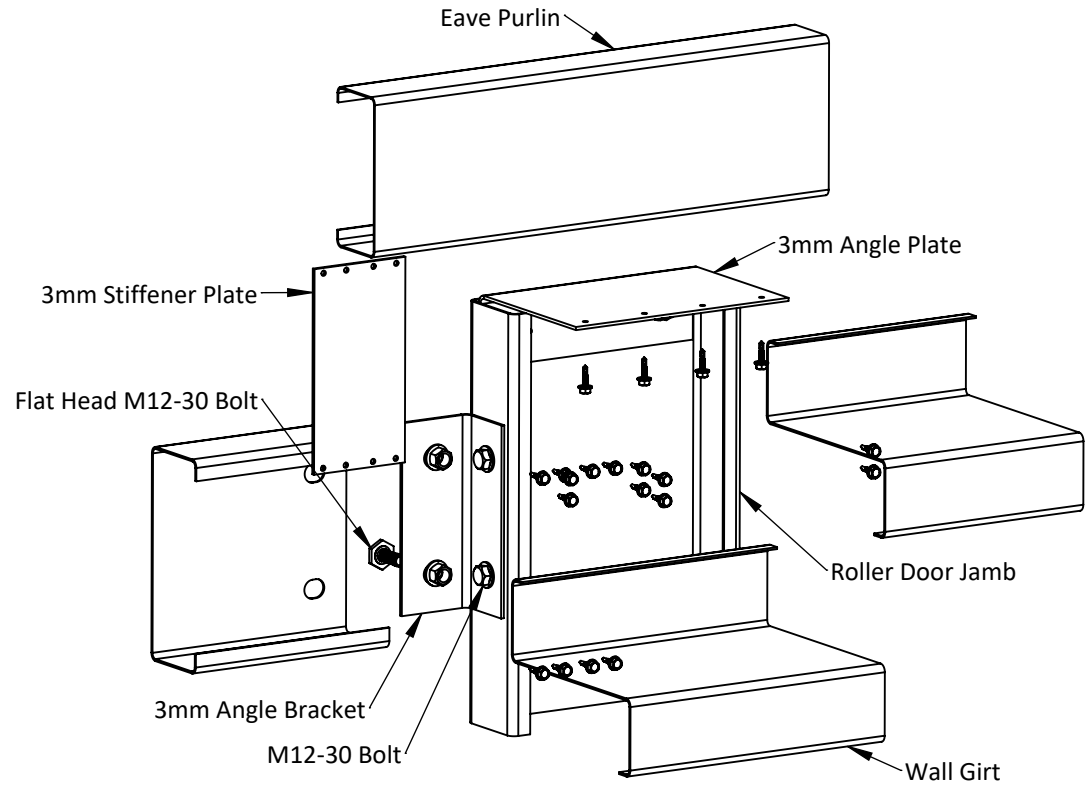
« Detail GD4.12.1: Roller Door Jamb to Header & Eave Purlin Connection Detail



Video: Scan or Right-Click



**ELEVATION**



**EXPLODED VIEW**



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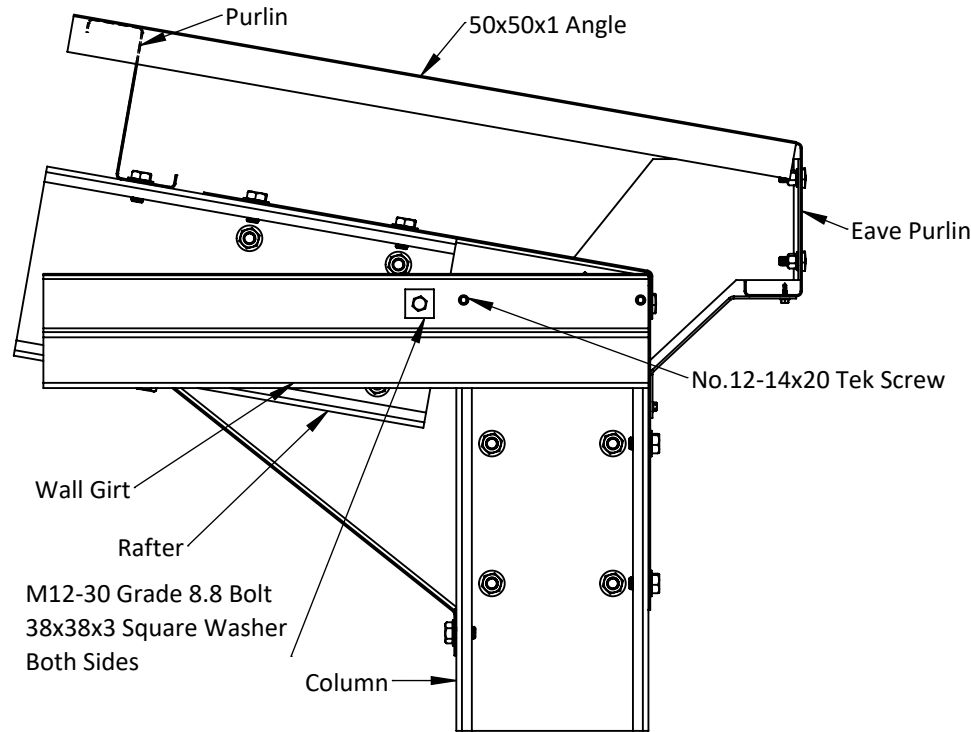
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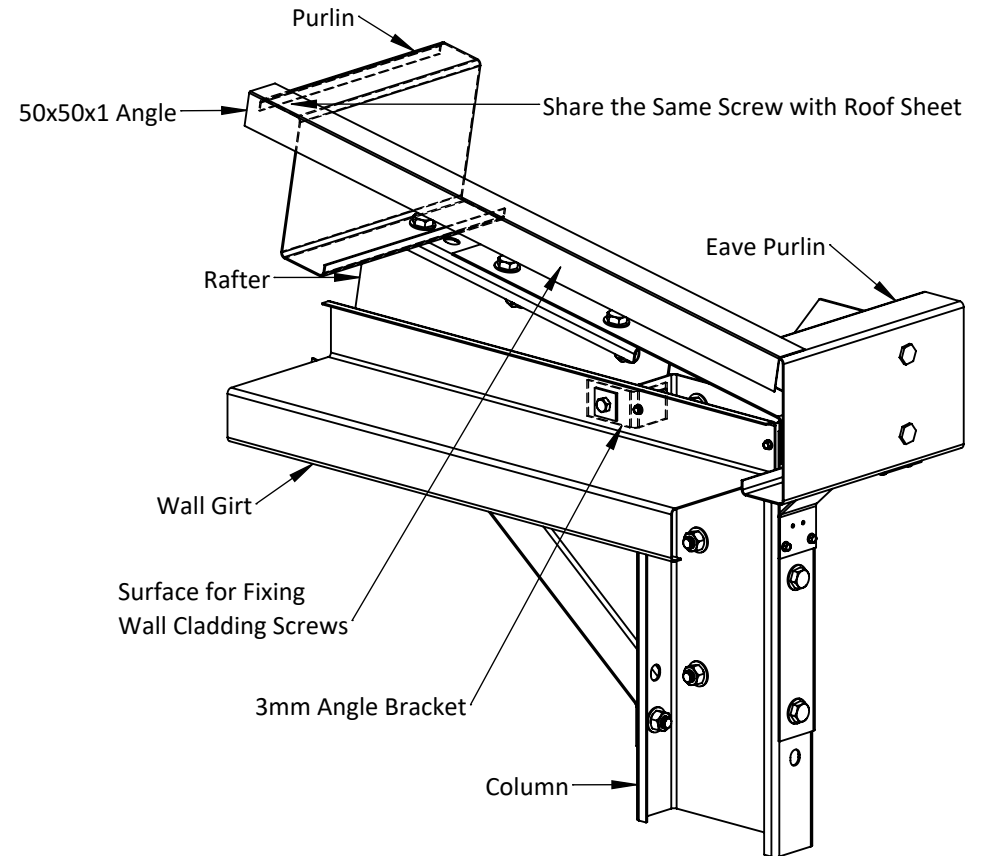
« Detail GD4.13: 50x50x1 Equal Angle Connection Detail



Video: Scan or Right-Click



**ELEVATION**



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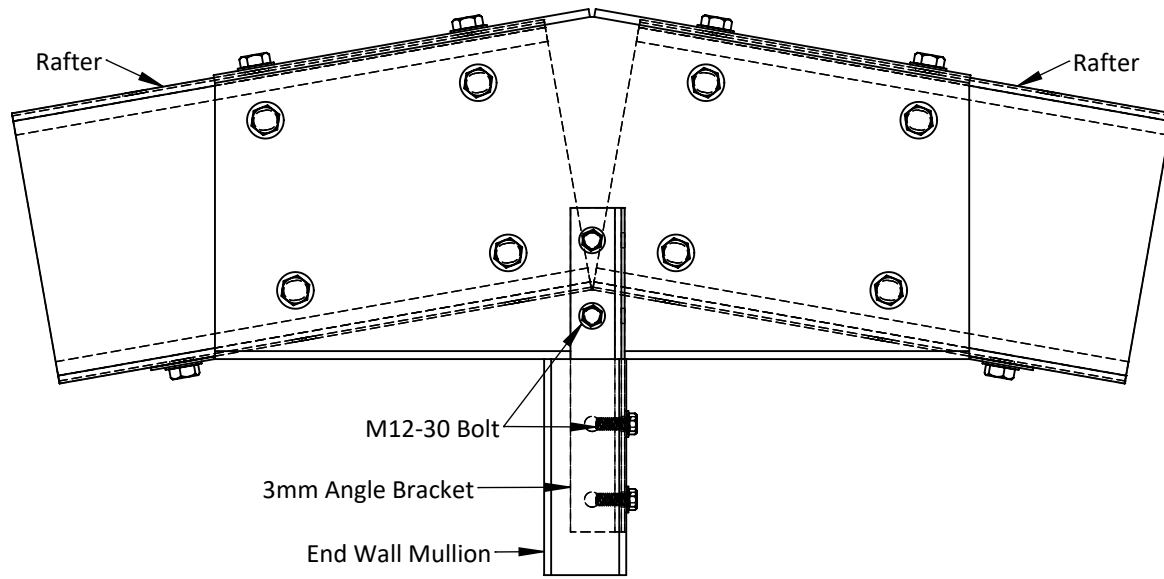
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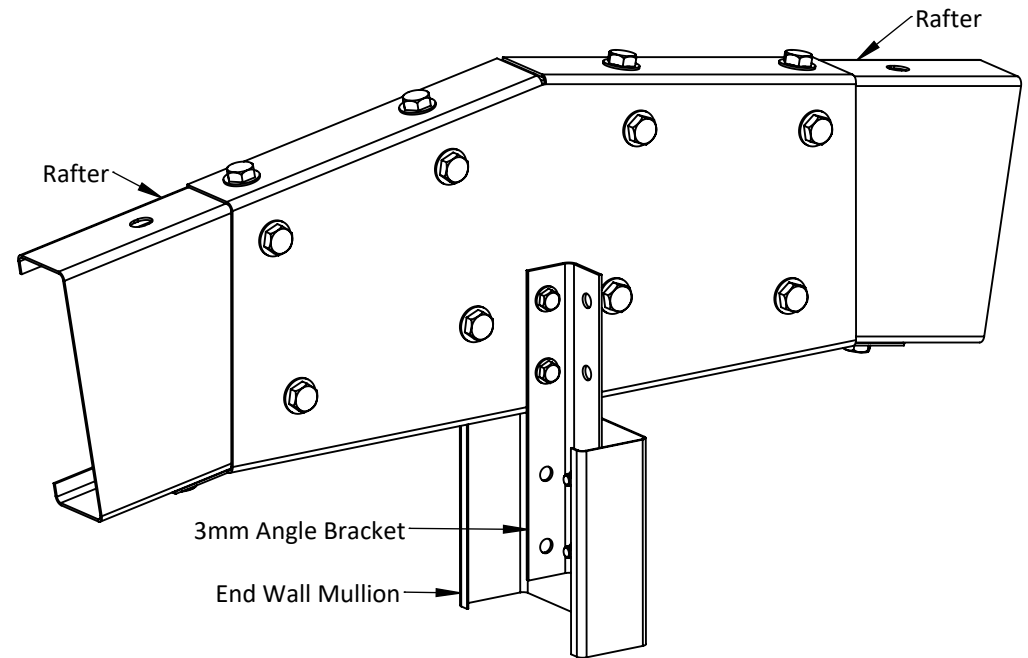
« Detail GD4.14: Mullion to Rafter Connection Detail



Video: Scan or Right-Click



**ELEVATION**



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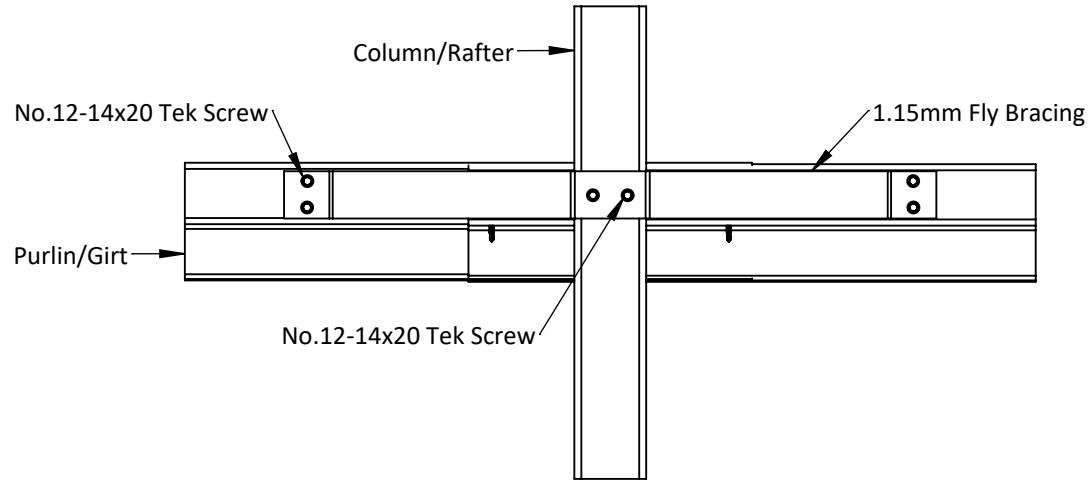
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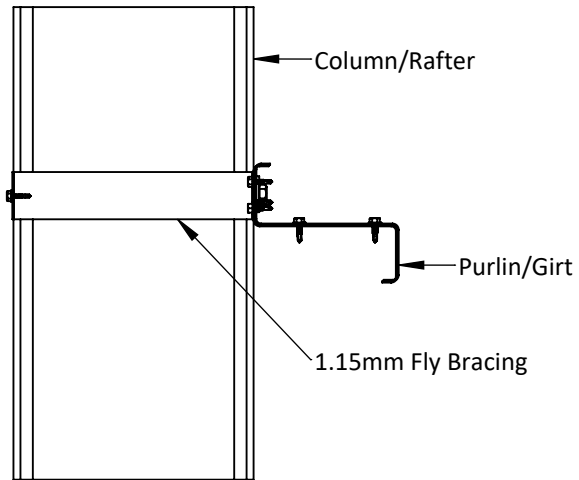
« Detail GD4.17: Fly Bracing Connection Detail



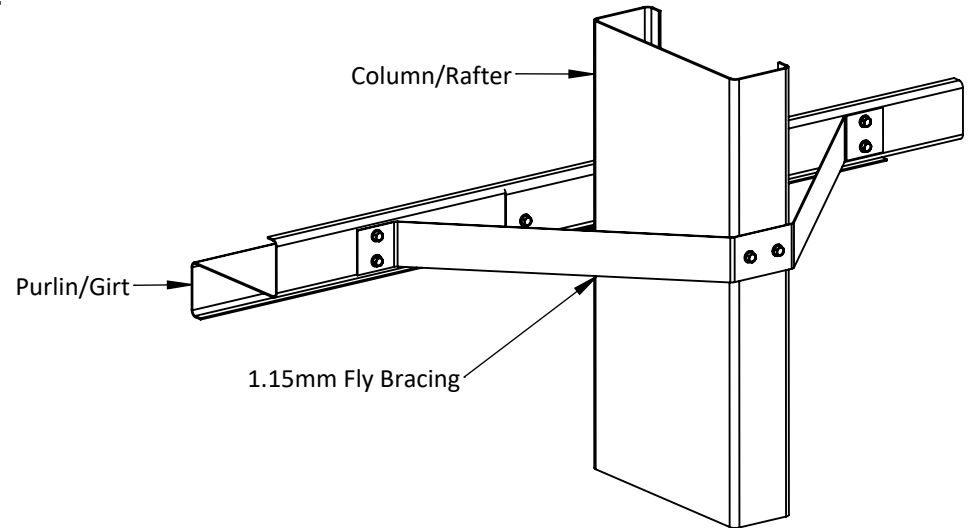
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**ELEVATION 2**



**ELEVATION 1**



**ISOMETRIC**



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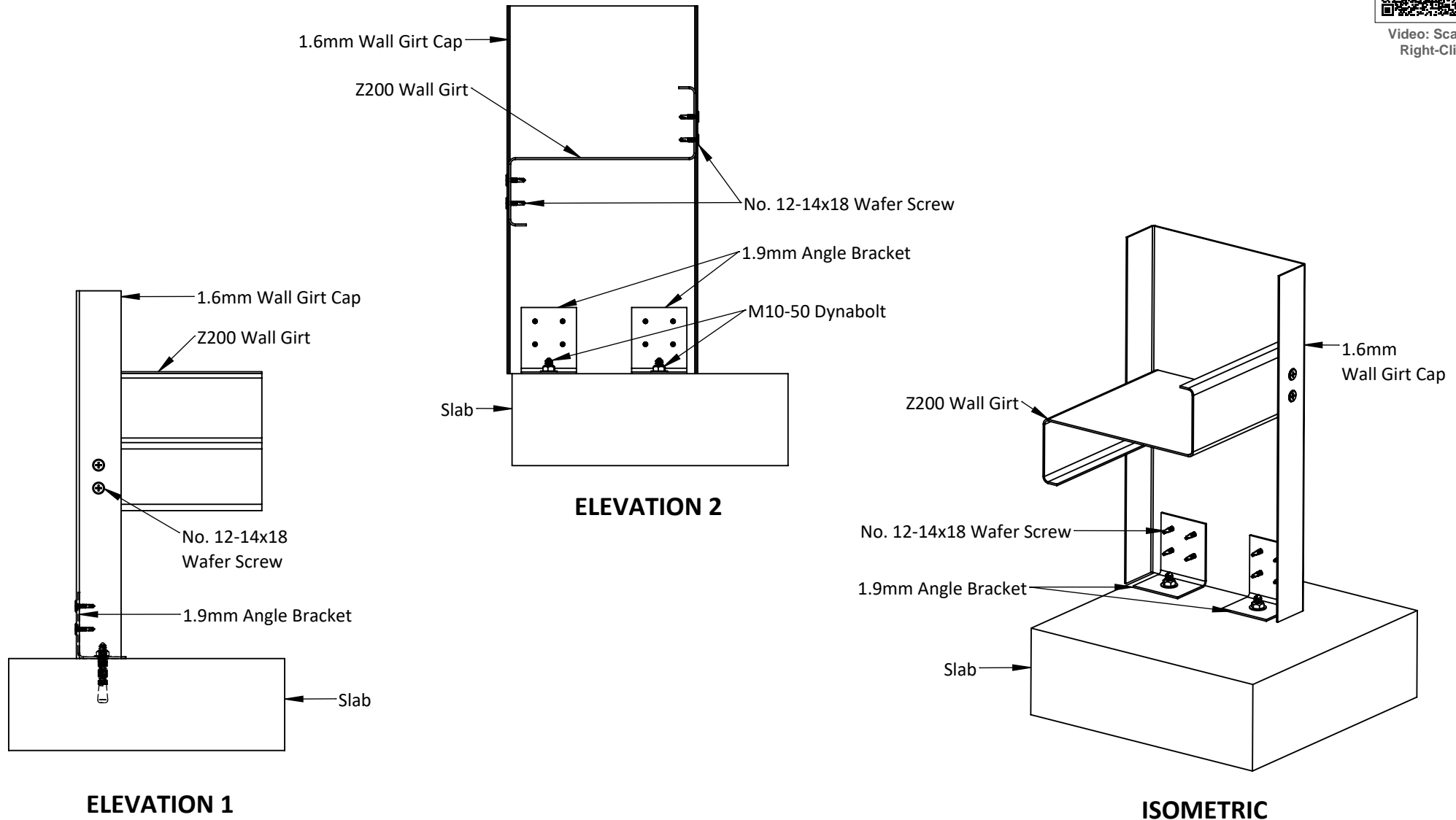
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« Detail GD4.20: PA Door Jamb to Slab Connection Detail



Video: Scan or Right-Click



**PROFESSIONAL  
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| CLIENT:<br>[Redacted]         | DRAWN BY:<br>[Redacted]          |
| ADDRESS:<br>[Redacted]        | DRAWN DATE:<br><b>2024-09-13</b> |

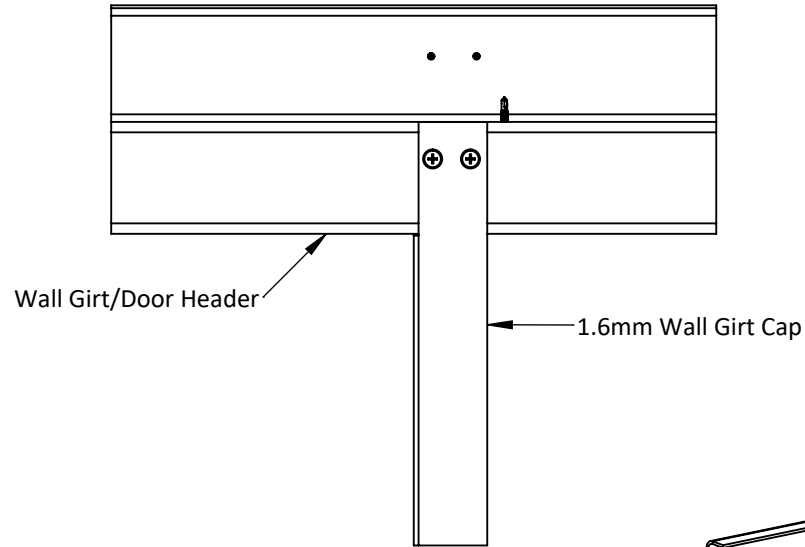
|   |                    |                      |                                    |
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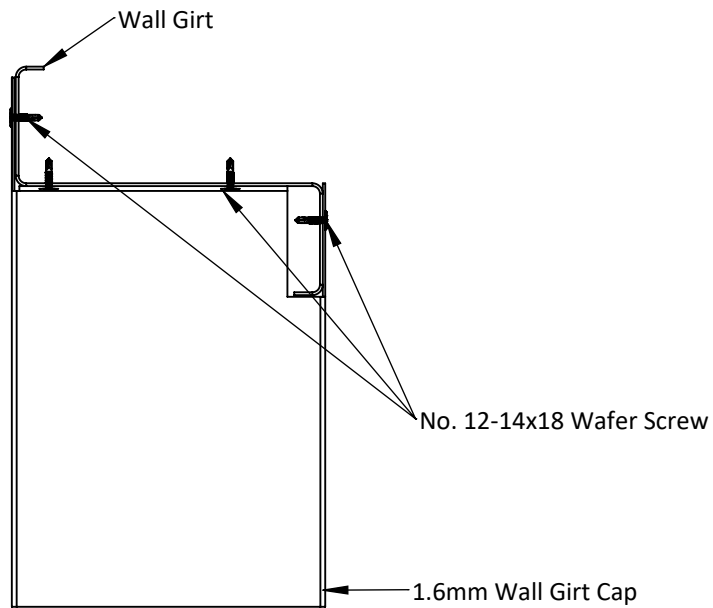
« Detail GD4.21: PA Door Jamb to Girt Connection Detail



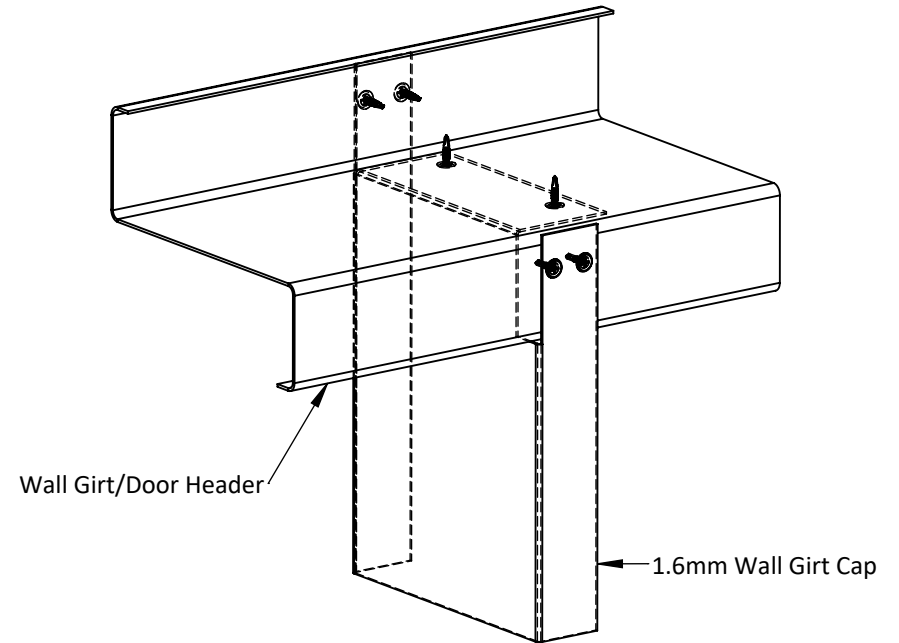
Video: Scan or Right-Click



ELEVATION 1



ELEVATION 2



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CHOICE**  
SHEDS AND CARPORTS

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| PROJECT:<br><b>Gable Shed</b> | PROJECT NUMBER:<br><b>10477</b>  |
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| ADDRESS:                      | DRAWN DATE:<br><b>2024-09-13</b> |

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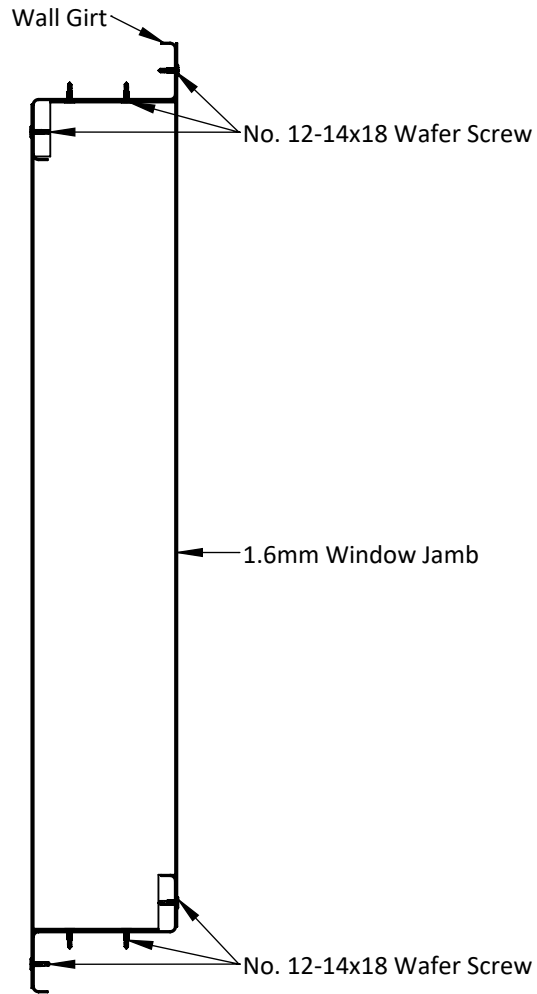
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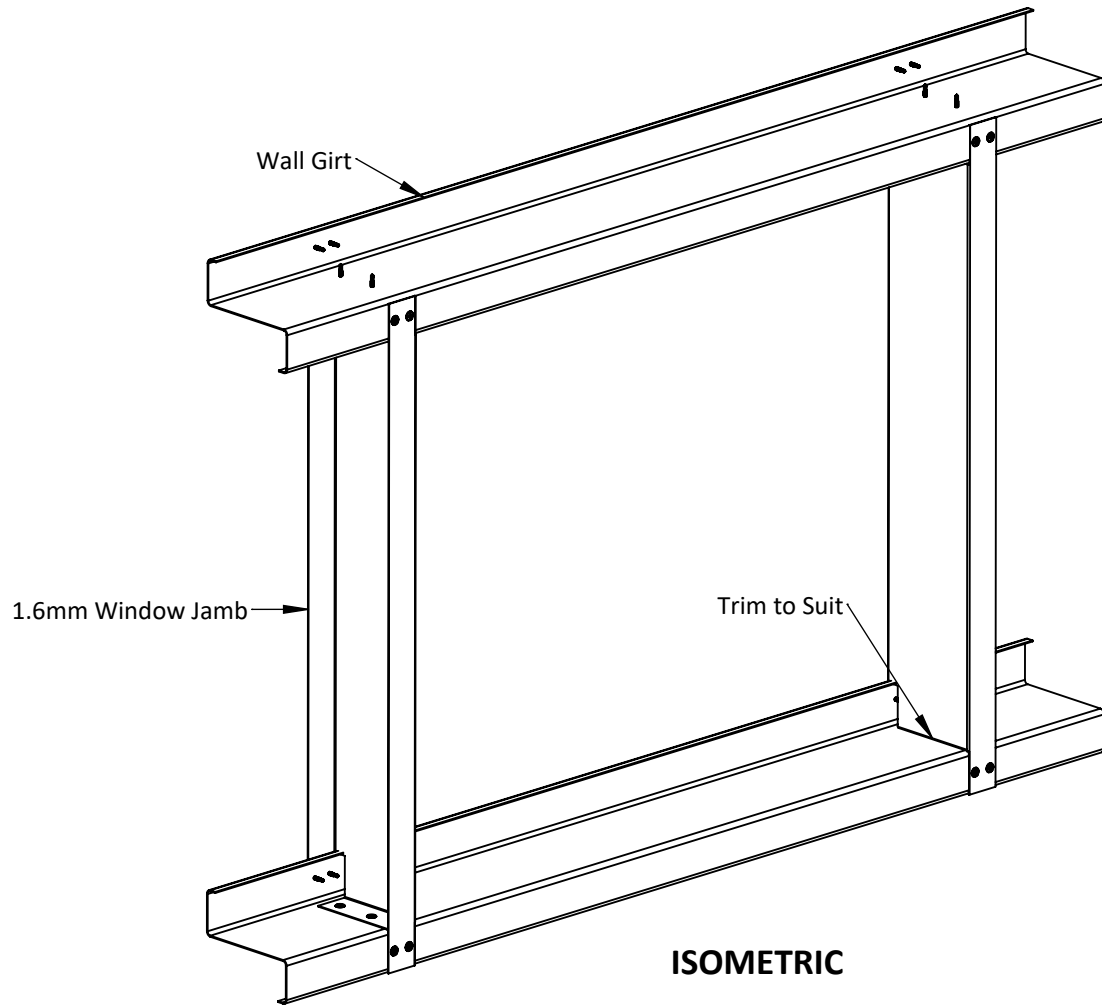
« Detail GD4.23: Window Jamb to Girt Connection Detail



Video: Scan or Right-Click



**ELEVATION**



**ISOMETRIC**



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CHOICE**  
SHEDS AND CARPORTS

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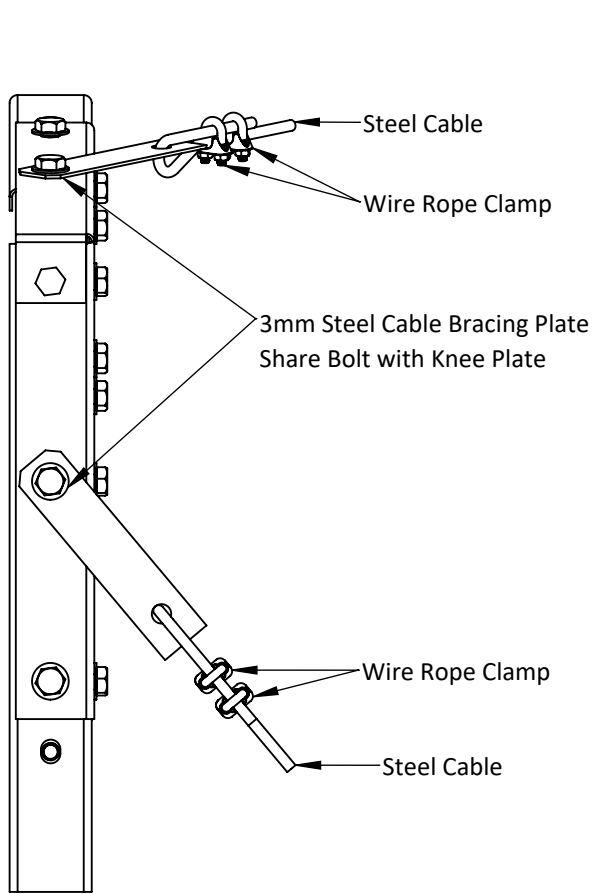
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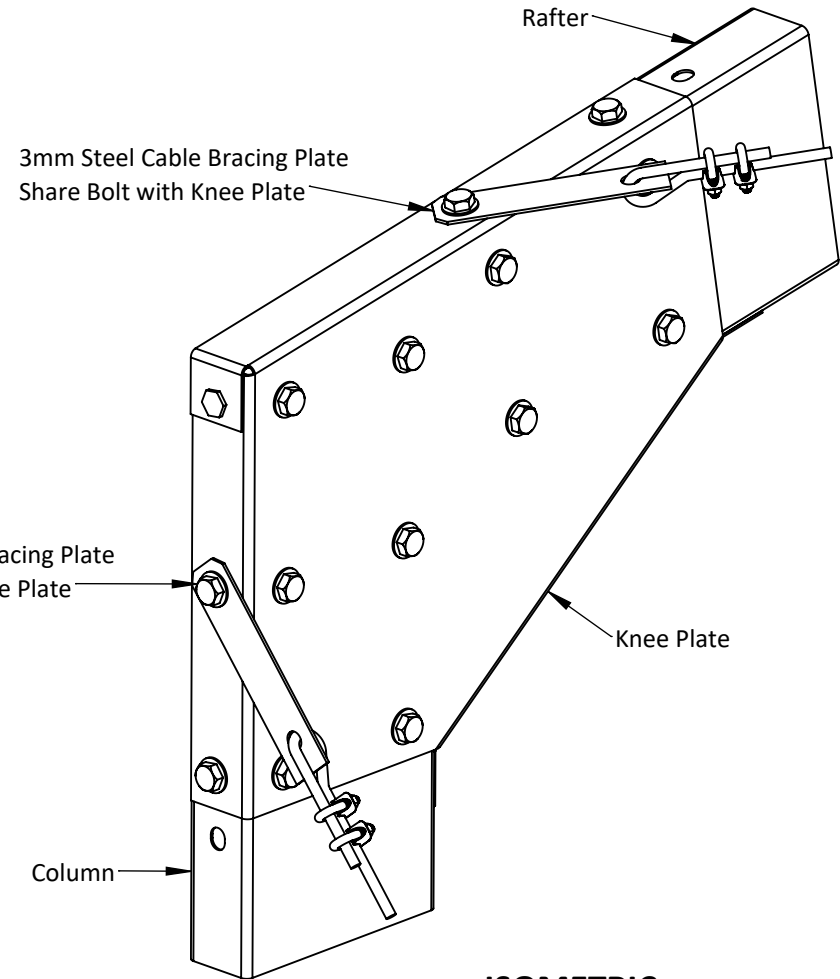
« Detail GD4.25: Cable Bracing Connection Detail



Video: Scan or Right-Click



ELEVATION



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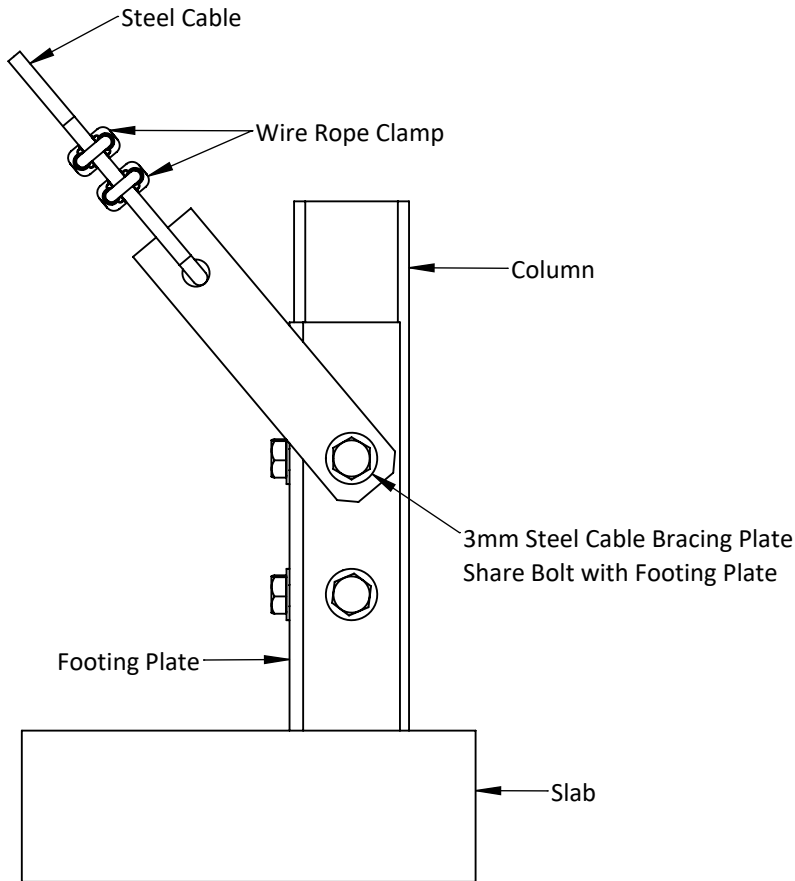
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| ISSUE:<br>1 | SIZE:<br>A4 | SCALE:<br>NTS | DRAWING NUMBER<br>35 of 51 |
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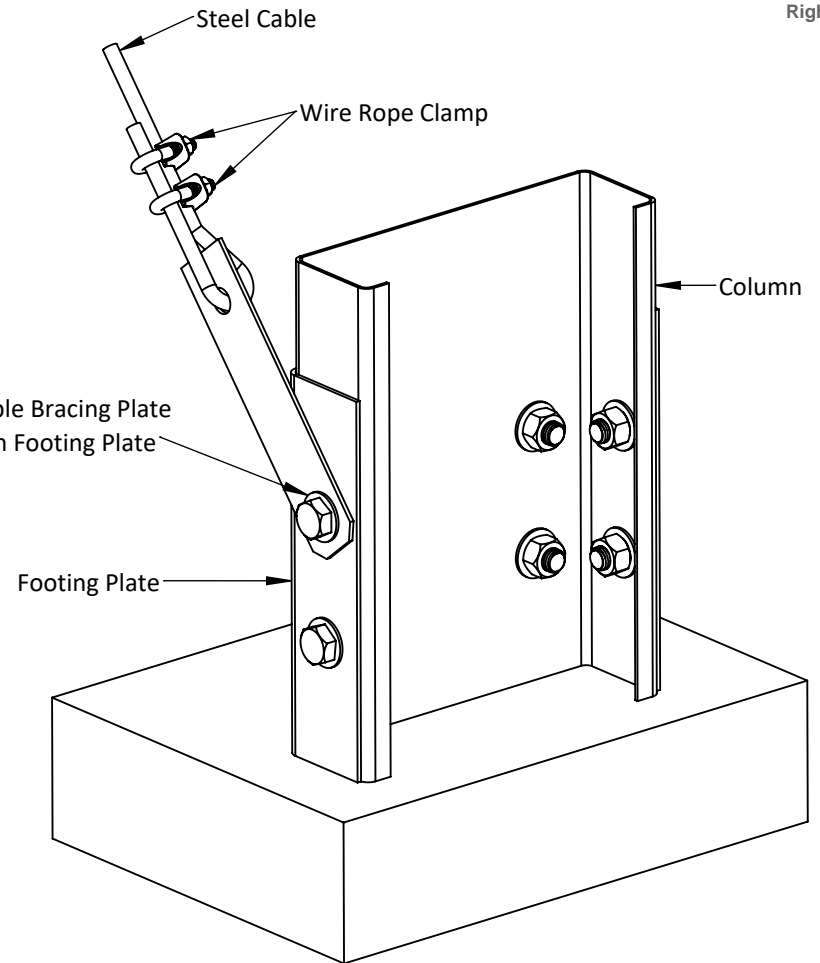
« Detail GD4.26: Cable Bracing Connection Detail



Video: Scan or Right-Click



**ELEVATION**



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CHOICE**  
SHEDS AND CARPORTS

PROJECT:  
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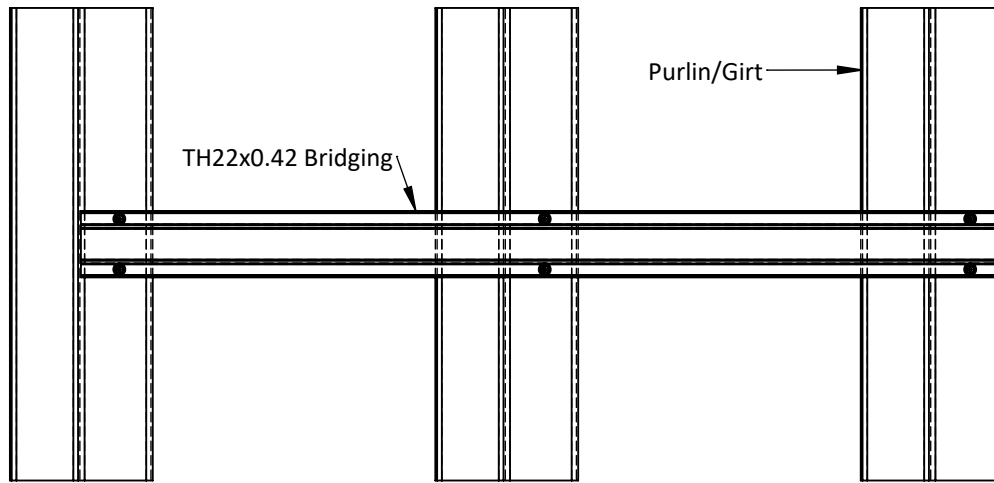
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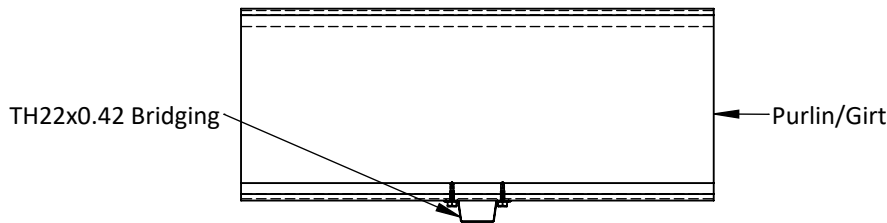
« Detail GD4.27: Bridging Connection Detail



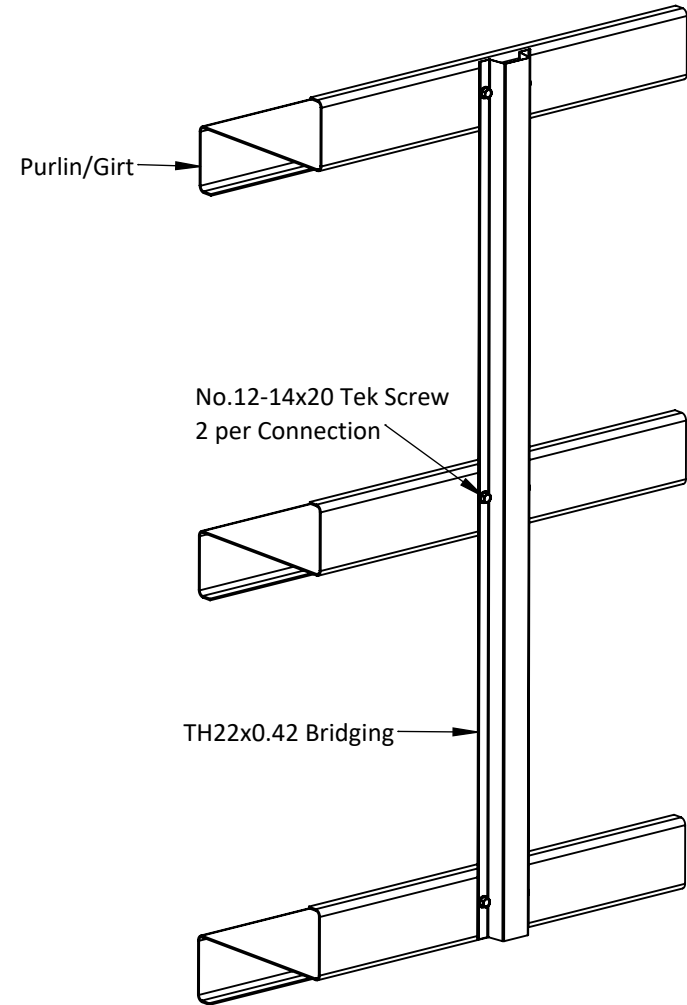
Video: Scan or Right-Click



PLAN



ELEVATION



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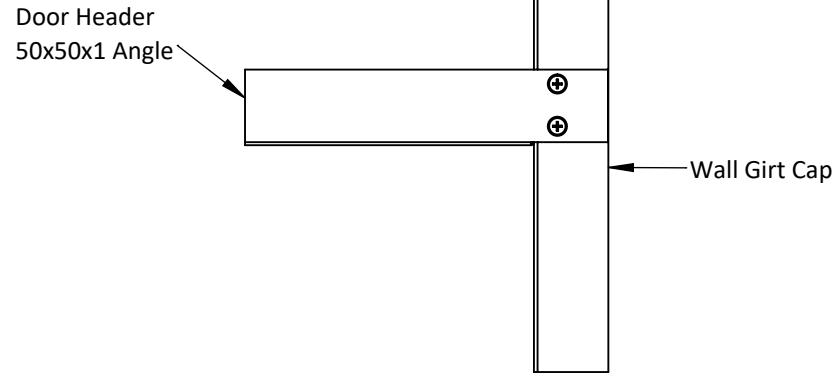
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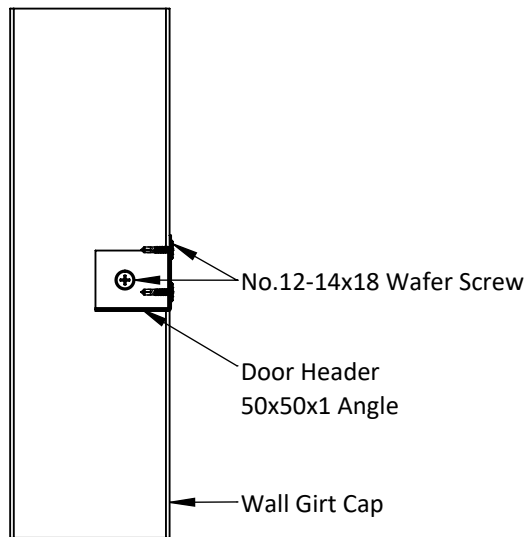
« Detail GD4.38: PA Door Equal Angle to Jamb Connection Detail



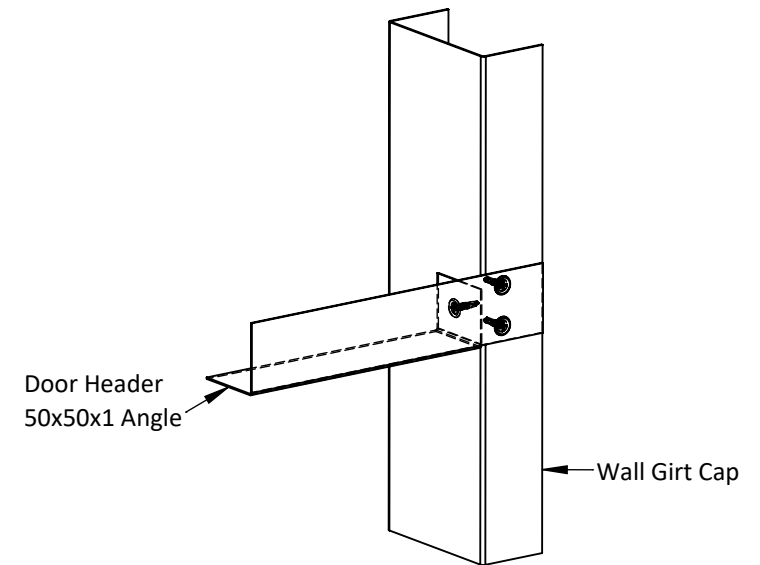
Video: Scan or Right-Click



**ELEVATION 1**



**ELEVATION 2**



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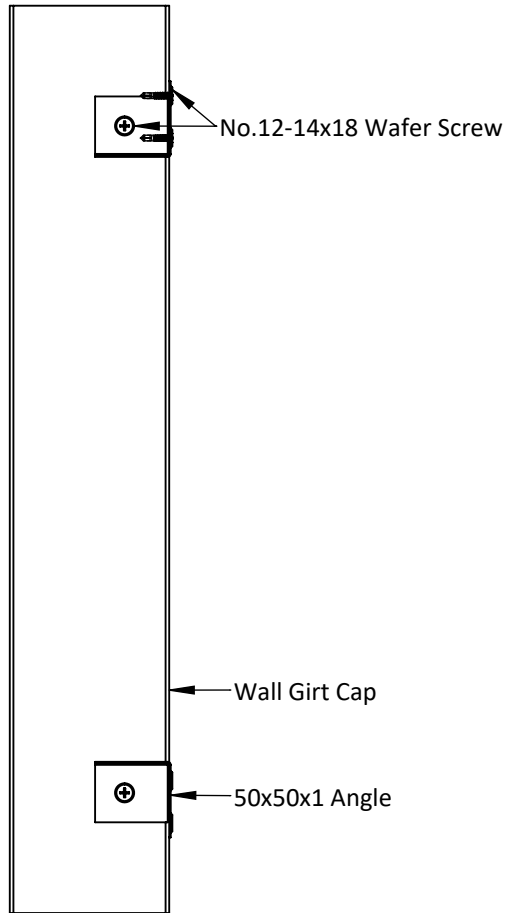
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|--------------------|--------------------|----------------------|-----------------------------------|

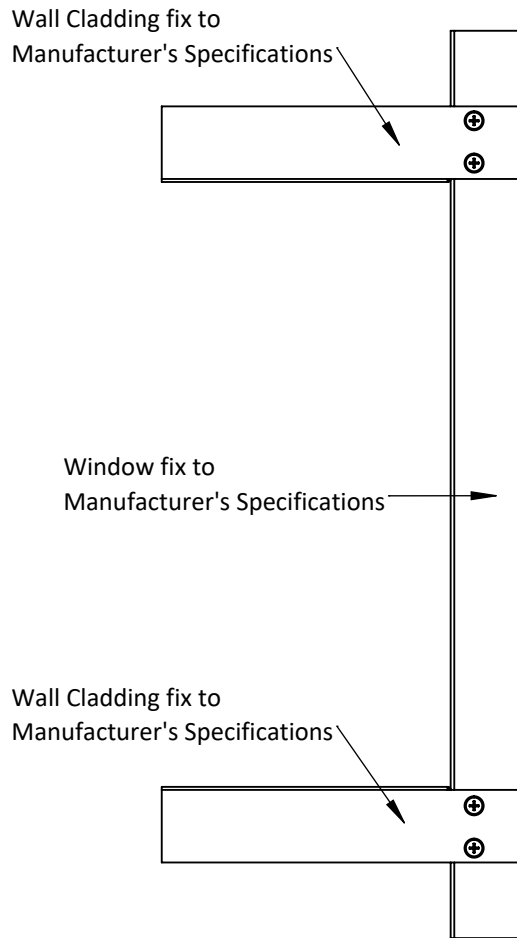
« Detail GD4.39: Window Equal Angle to Jamb Connection Detail



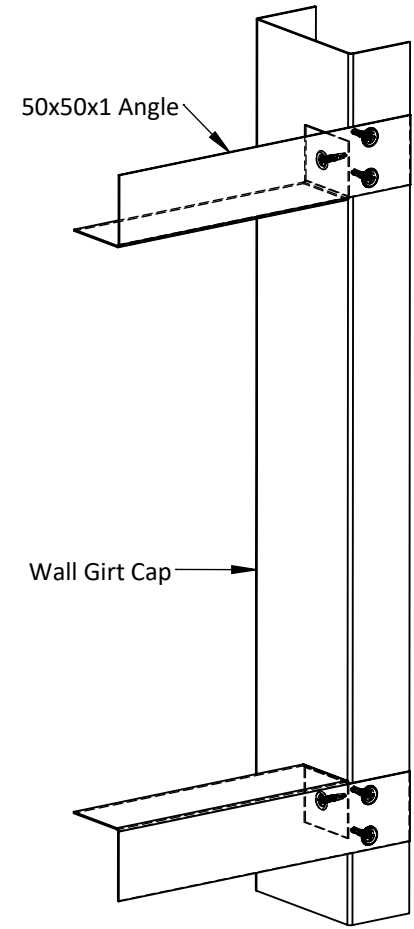
Video: Scan or Right-Click



**ELEVATION 2**



**ELEVATION 1**



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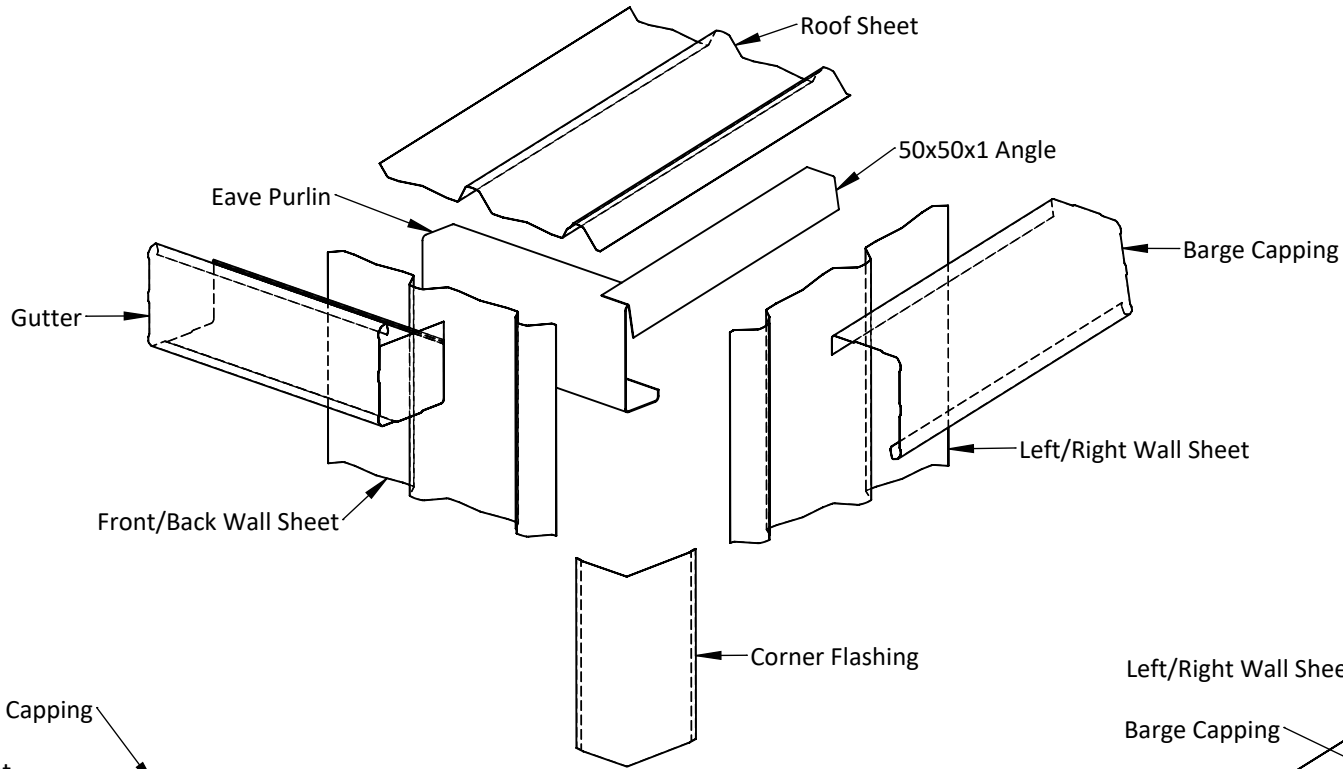
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| ISSUE: | SIZE: | SCALE: | DRAWING NUMBER |
|--------|-------|--------|----------------|
| 1      | A4    | NTS    | 39 of 51       |

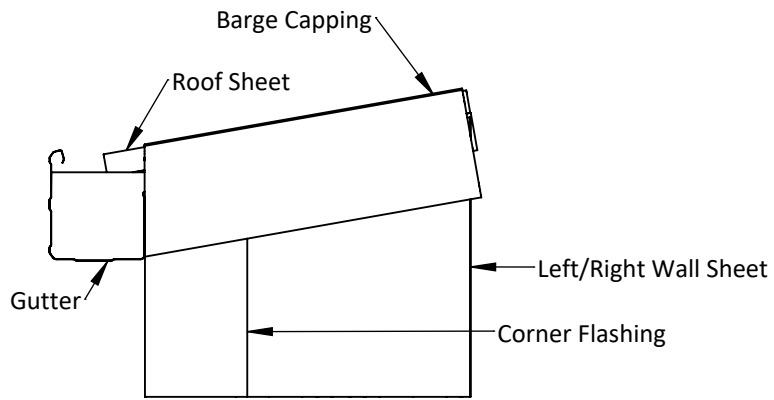
« Detail GD5.1.1: Cladding Connection Detail



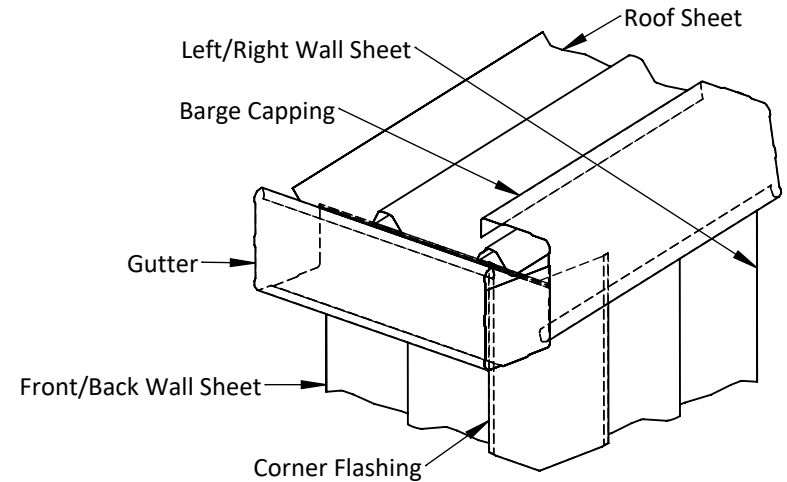
Video: Scan or Right-Click



**EXPLODED VIEW**



**ELEVATION**



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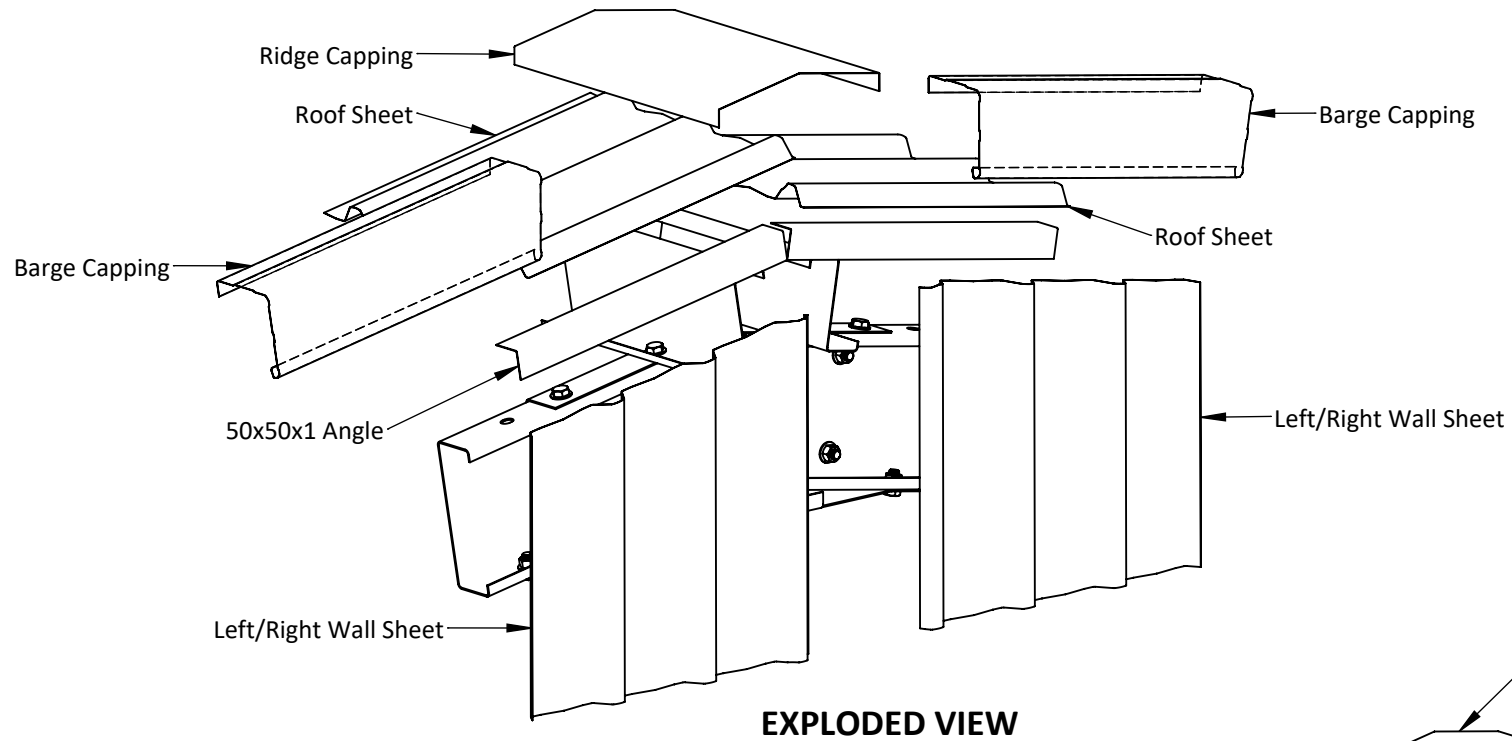
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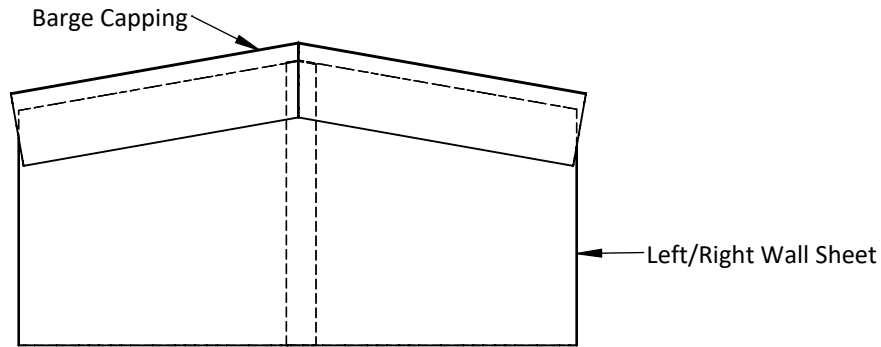
« Detail GD5.6.1: Apex Cladding Connection Detail



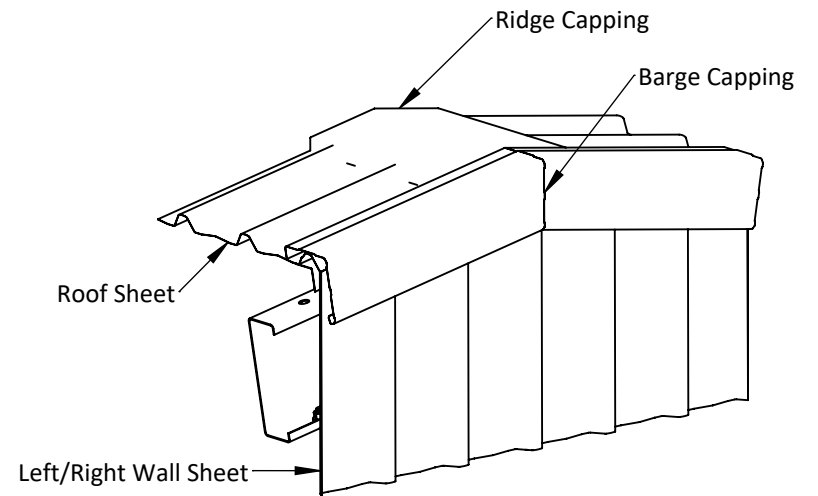
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**EXPLODED VIEW**



**ELEVATION**



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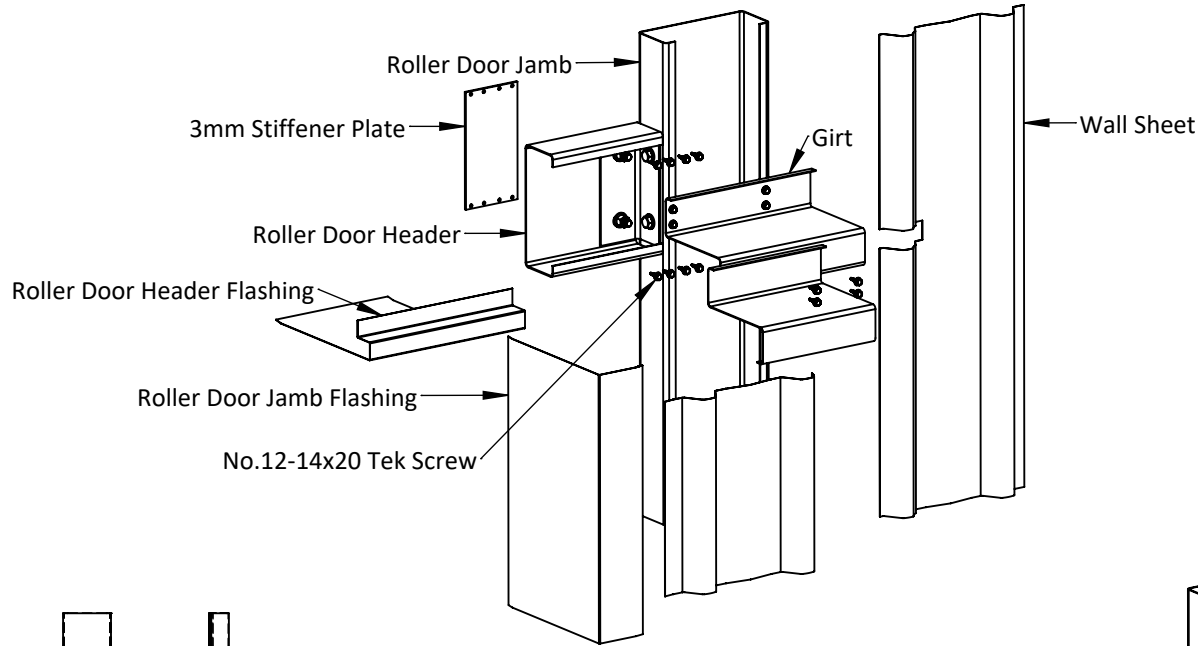
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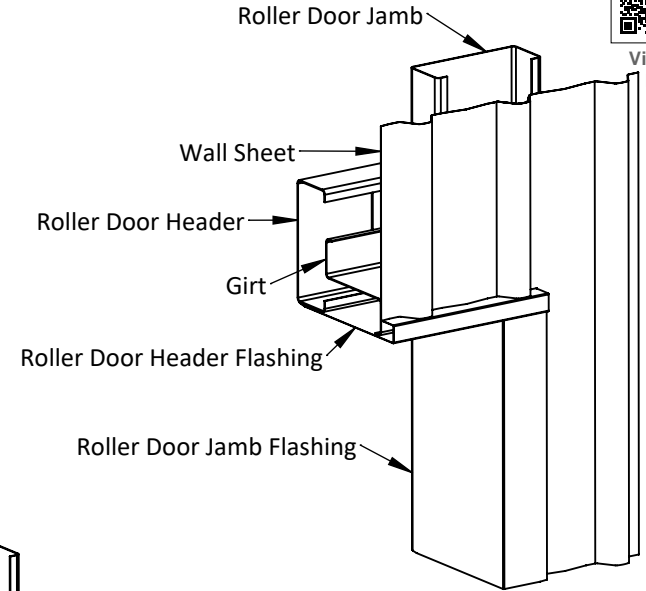
« Detail GD5.20.1: Roller Door Jamb & Header Connection Detail



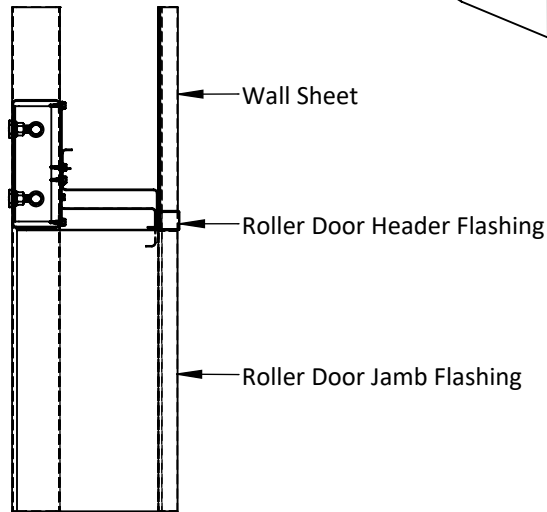
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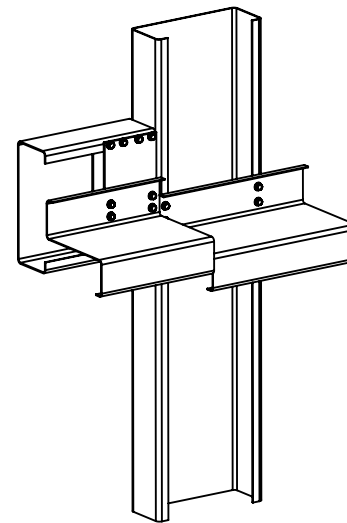
**EXPLODED VIEW**



**ISOMETRIC**



**ELEVATION**



**ISOMETRIC  
(Without Wall Sheet & Flashing)**



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CHOICE**  
SHEDS AND CARPORTS

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Gable Shed

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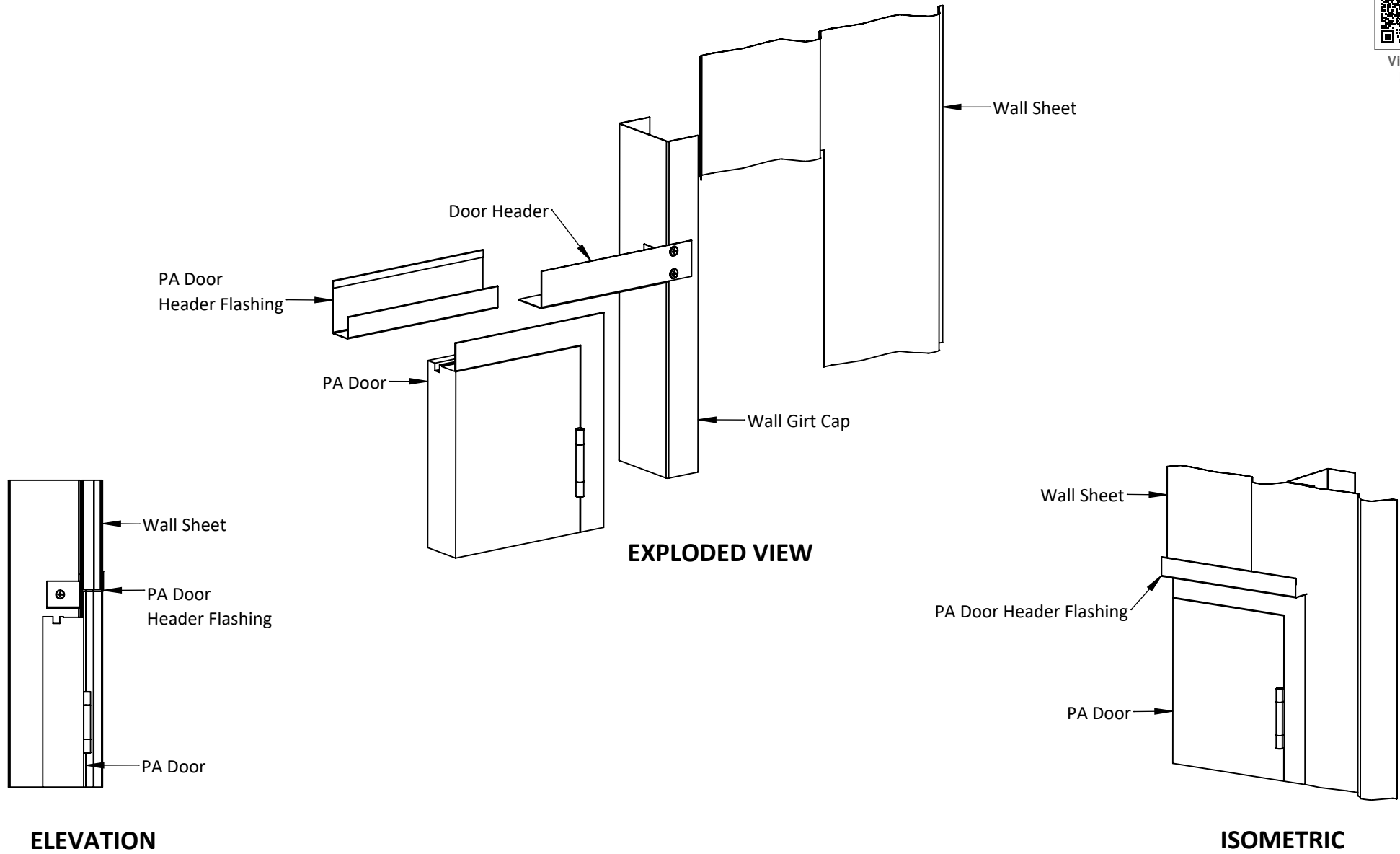
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|-------------|-------------|---------------|----------------------------|



Video: Scan or Right-Click



ELEVATION

EXPLODED VIEW

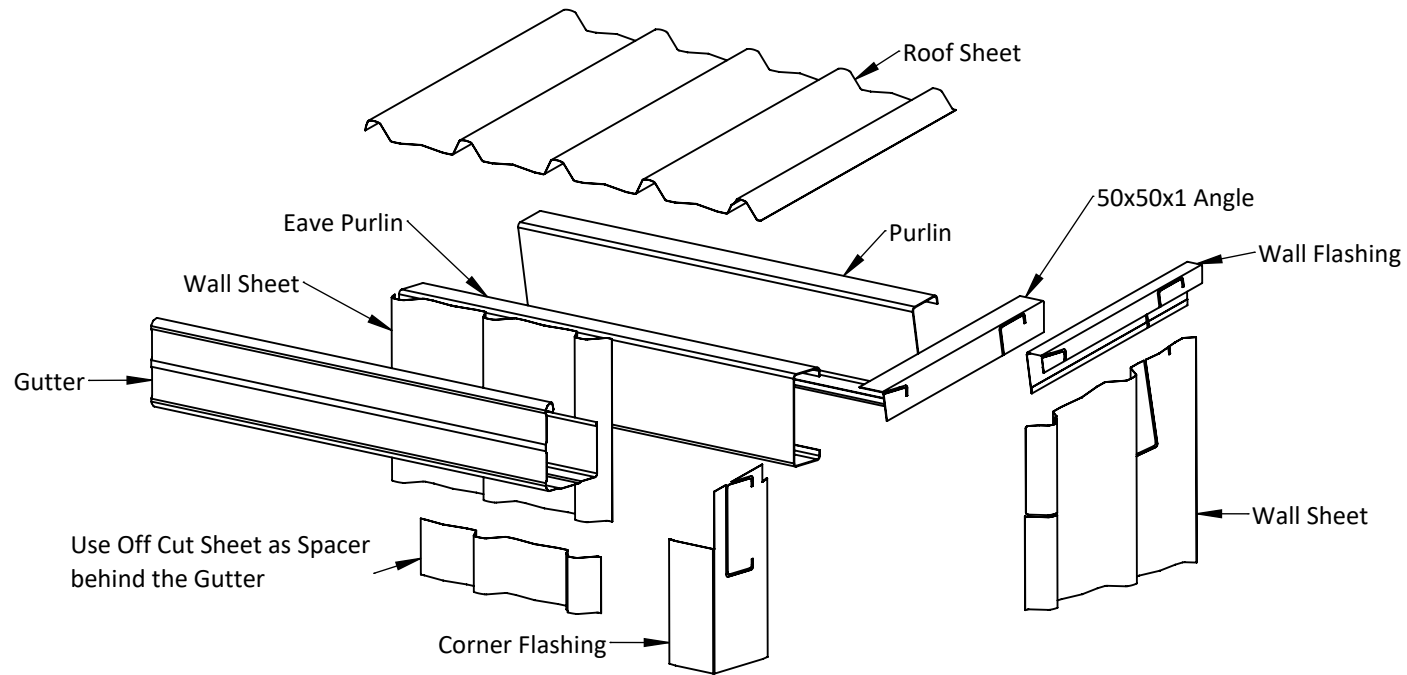
ISOMETRIC



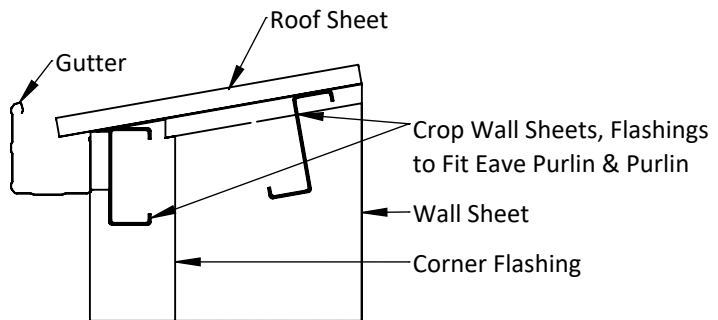
**PROFESSIONAL CHOICE**  
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| ADDRESS:                      | DRAWN DATE:<br><b>2024-09-13</b> |   |                    |                      |                                   |

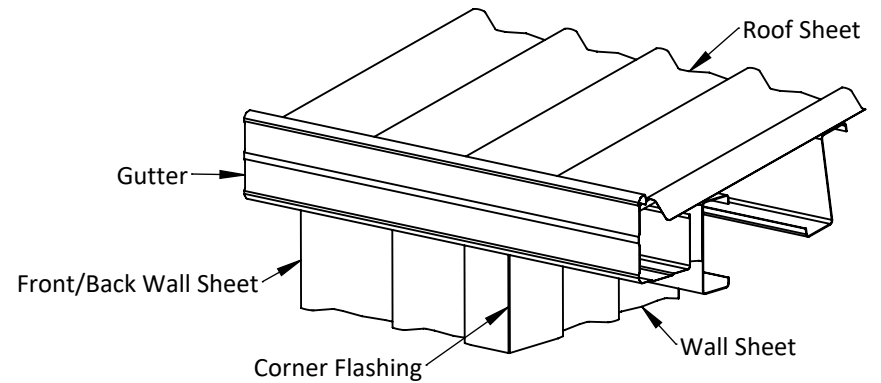
« Detail GD5.39.1: Corner Flashing Connection Detail



**EXPLODED VIEW**



**ELEVATION**



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CHOICE**  
SHEDS AND CARPORTS

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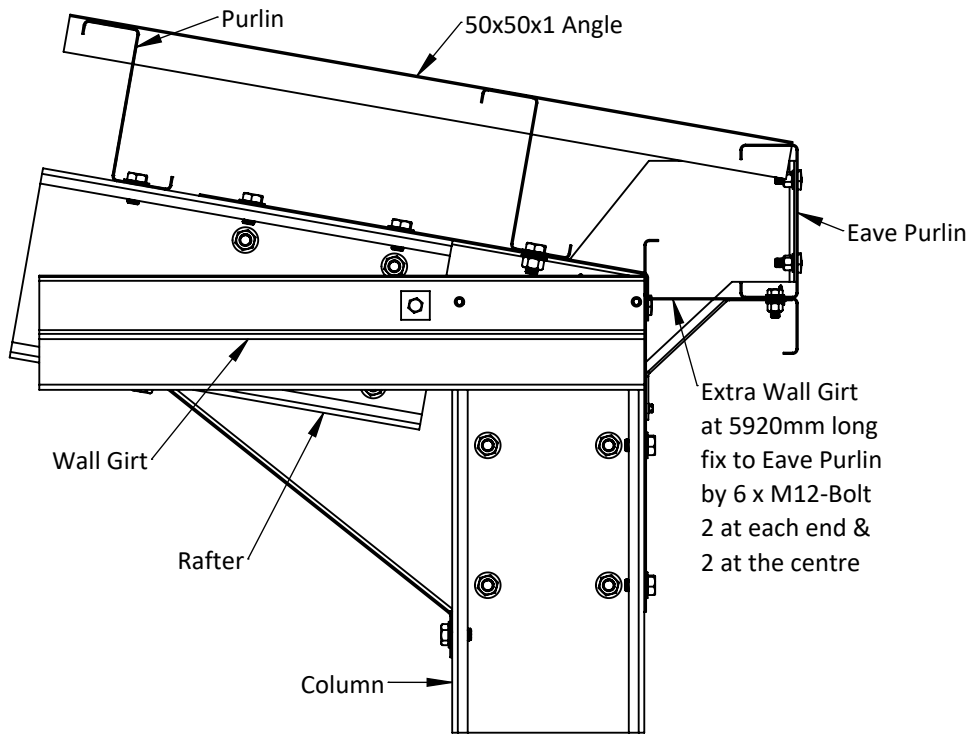
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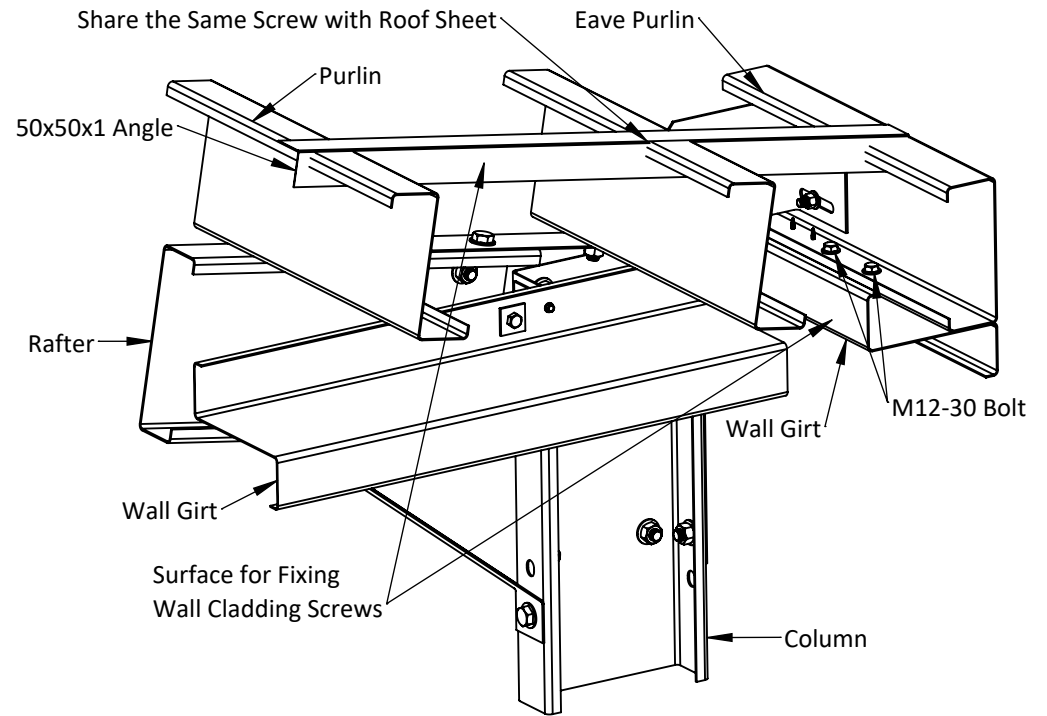
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|--------------------|--------------------|----------------------|-----------------------------------|

« Detail GD5.39.2: Girt Connection Detail for Internal Wall Cladding



**ELEVATION**



**ISOMETRIC**



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CHOICE**  
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PROJECT:  
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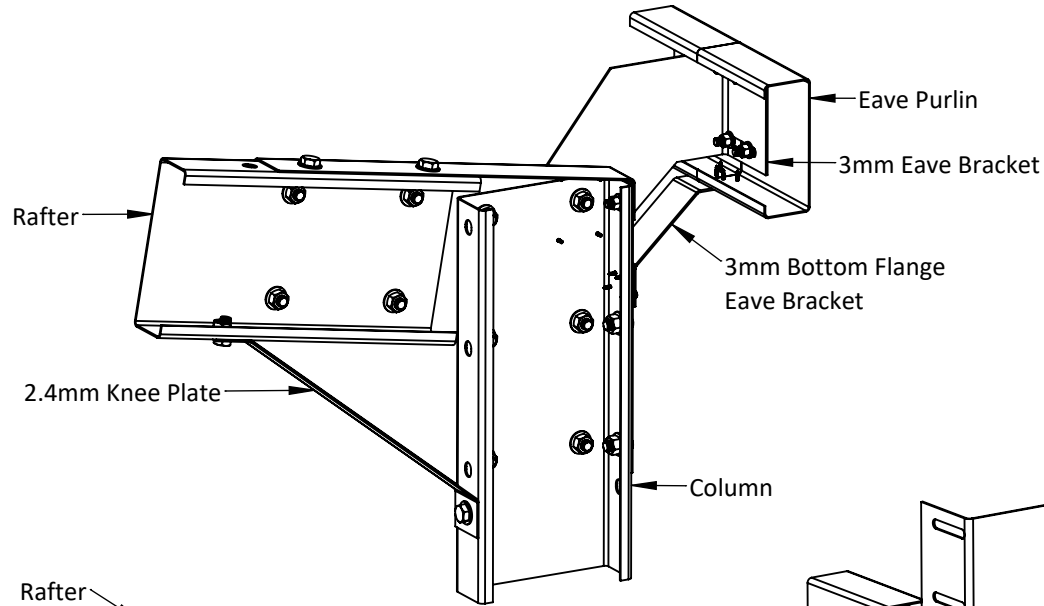
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|--------------------|--------------------|----------------------|-----------------------------------|

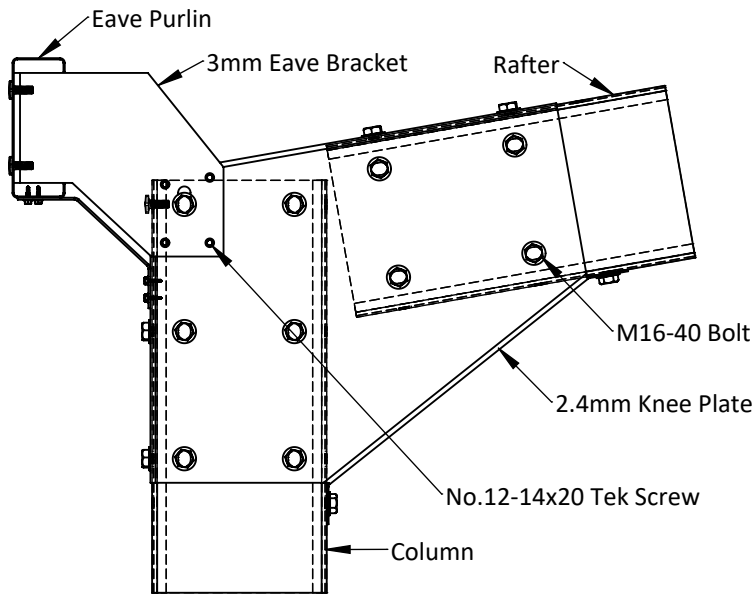
« Detail GS2.4: Knee Plate Connection Detail



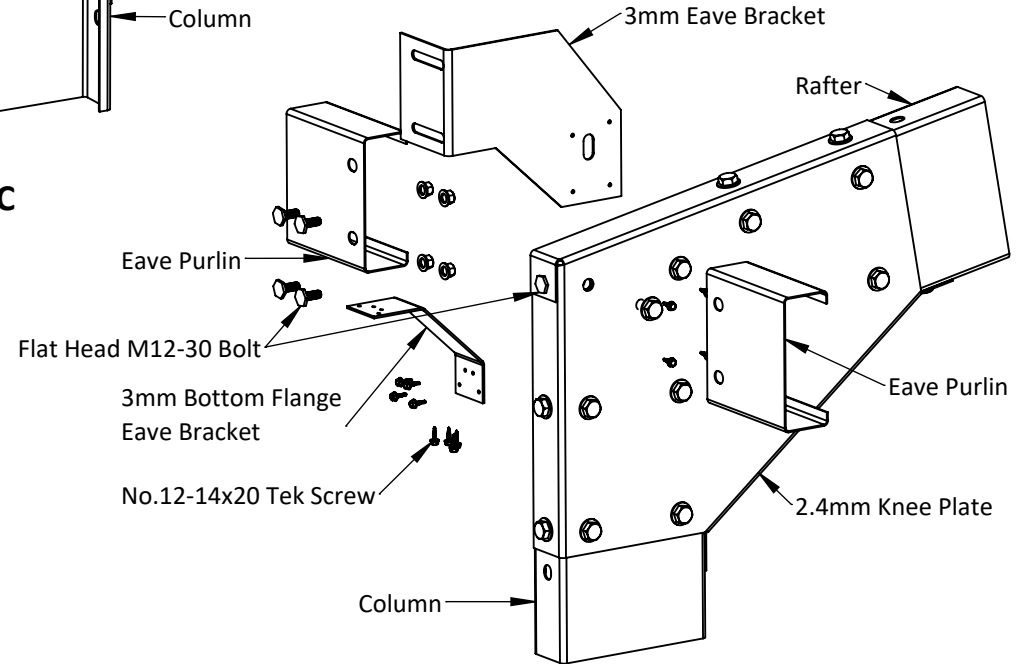
Video: Scan or Right-Click



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ELEVATION



EXPLODED VIEW



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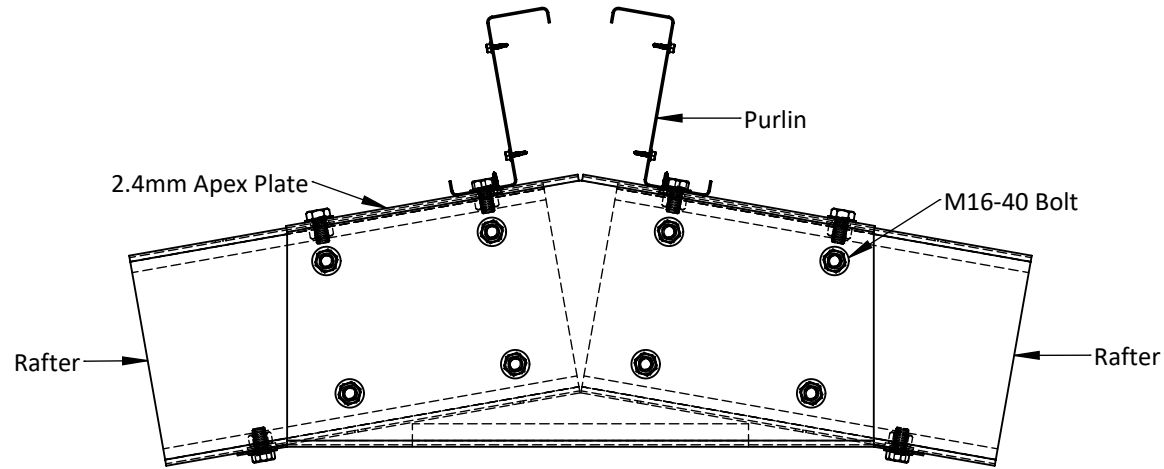
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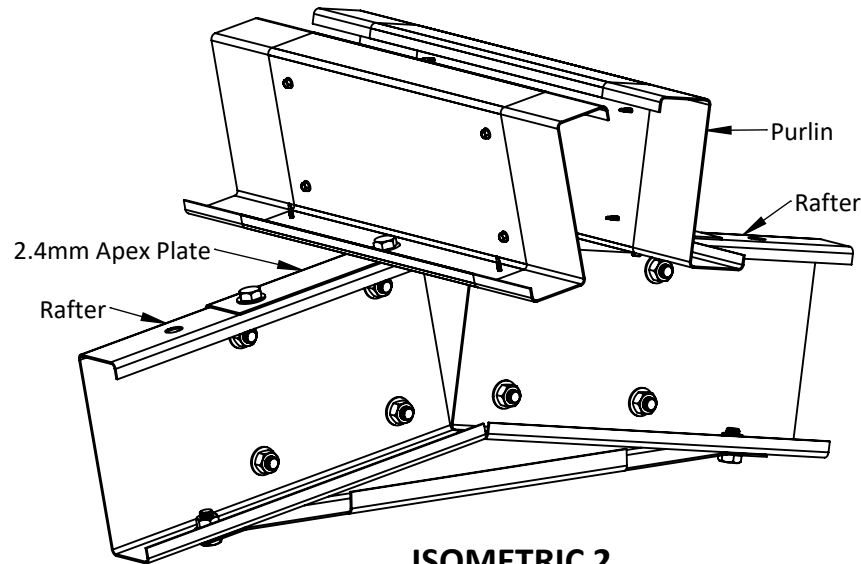
« Detail GS2.10: Apex Plate Connection Detail



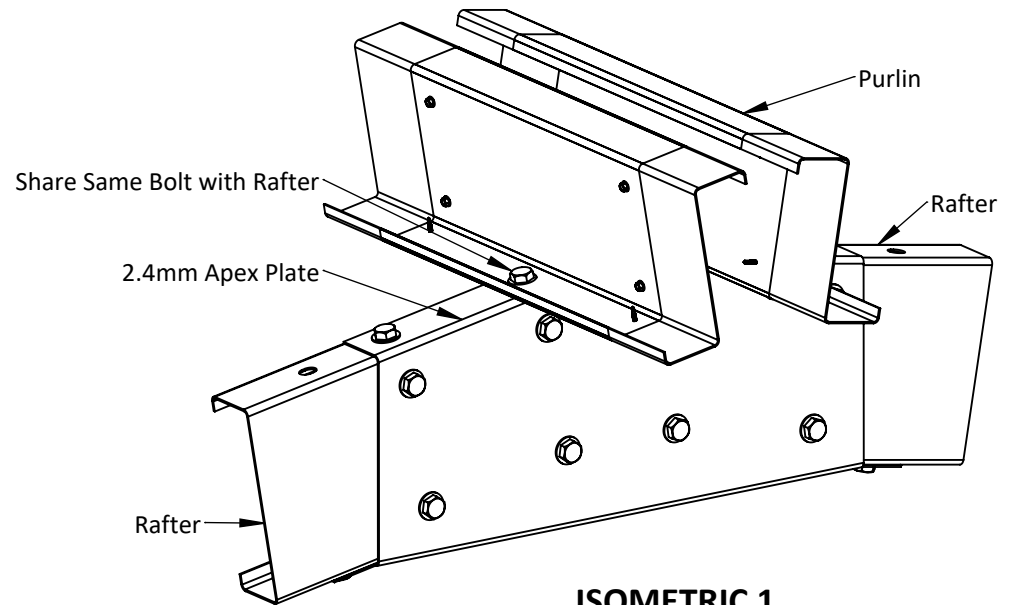
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ELEVATION



ISOMETRIC 2



ISOMETRIC 1



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CHOICE**  
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PROJECT:  
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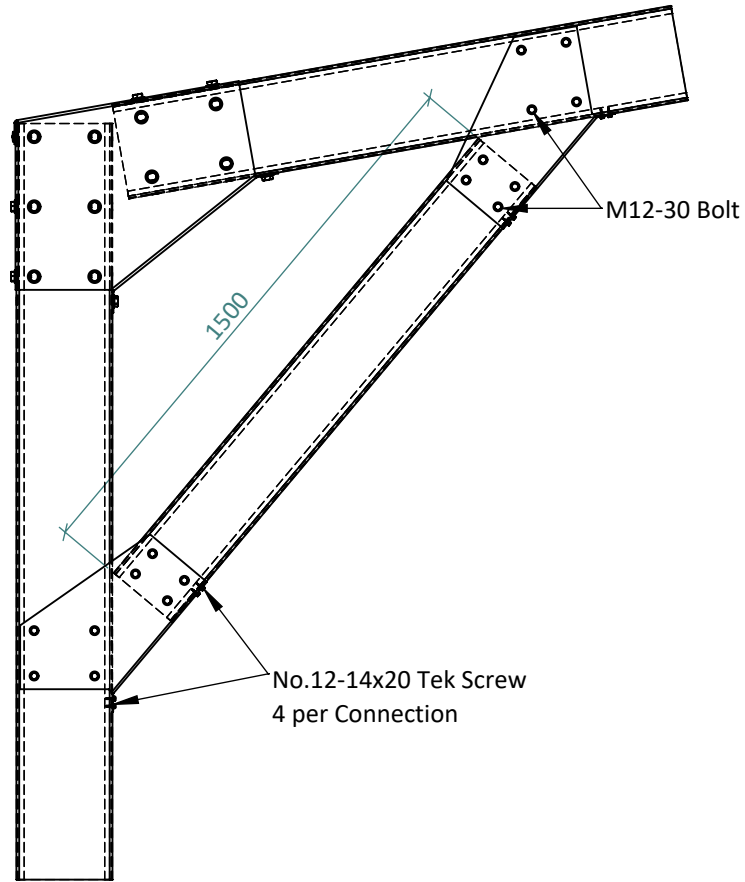
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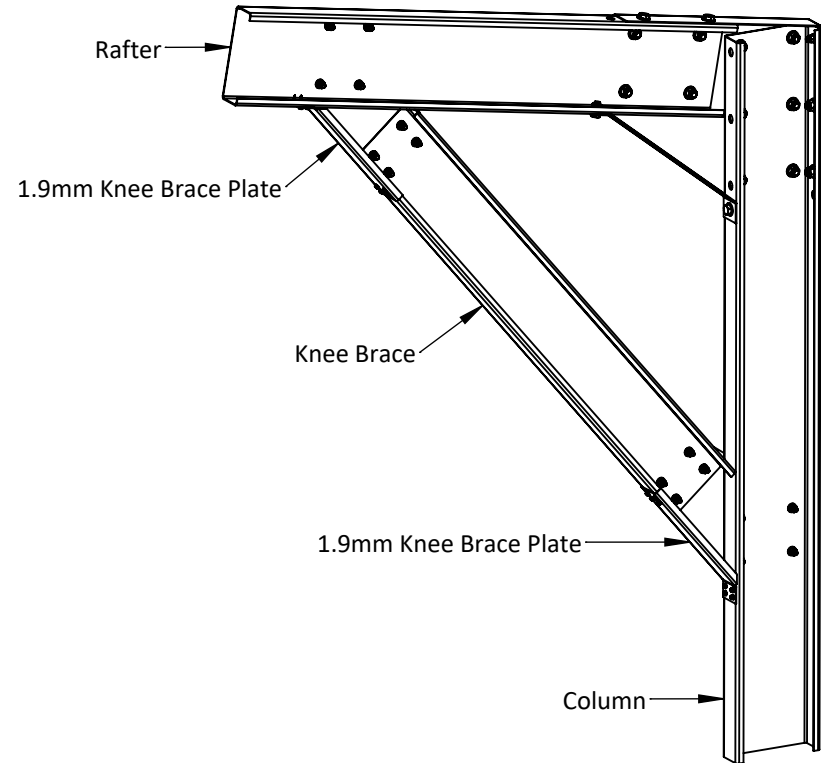
« Detail GS2.21: Knee Brace Connection Detail



Video: Scan or Right-Click



**ELEVATION**



**ISOMETRIC**



**PROFESSIONAL  
CHOICE**  
SHEDS AND CARPORTS

PROJECT:  
**Gable Shed**

CLIENT:

ADDRESS:

PROJECT NUMBER:  
**10477**

DRAWN BY:

DRAWN DATE:  
**2024-09-13**

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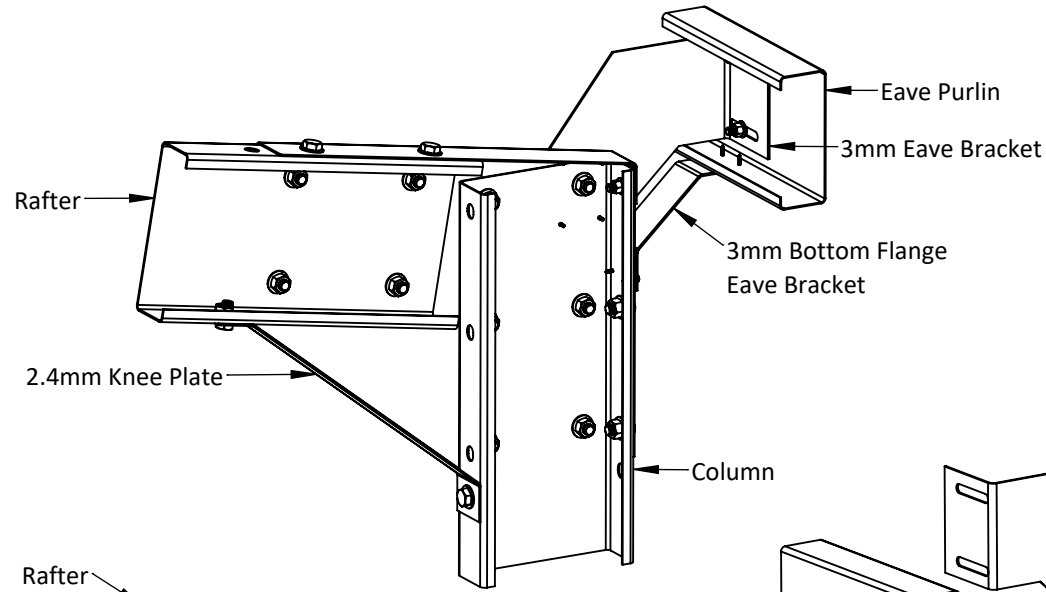
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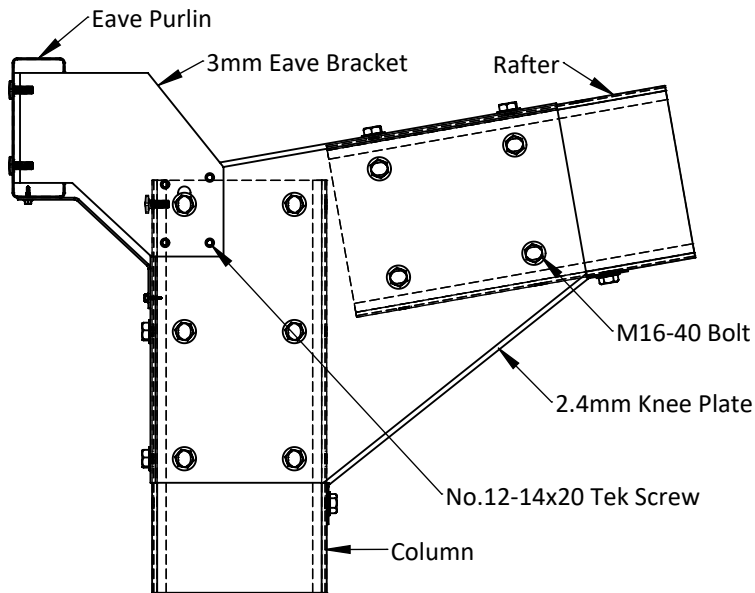
« Detail GS2.34: Knee Plate Connection Detail



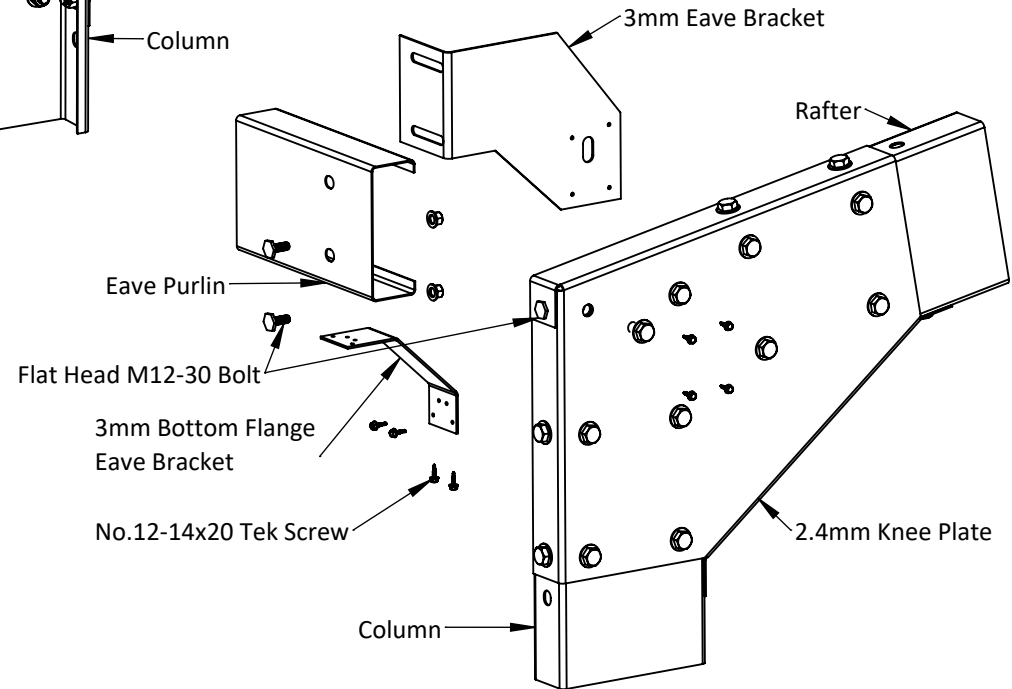
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ISOMETRIC



ELEVATION



EXPLODED VIEW



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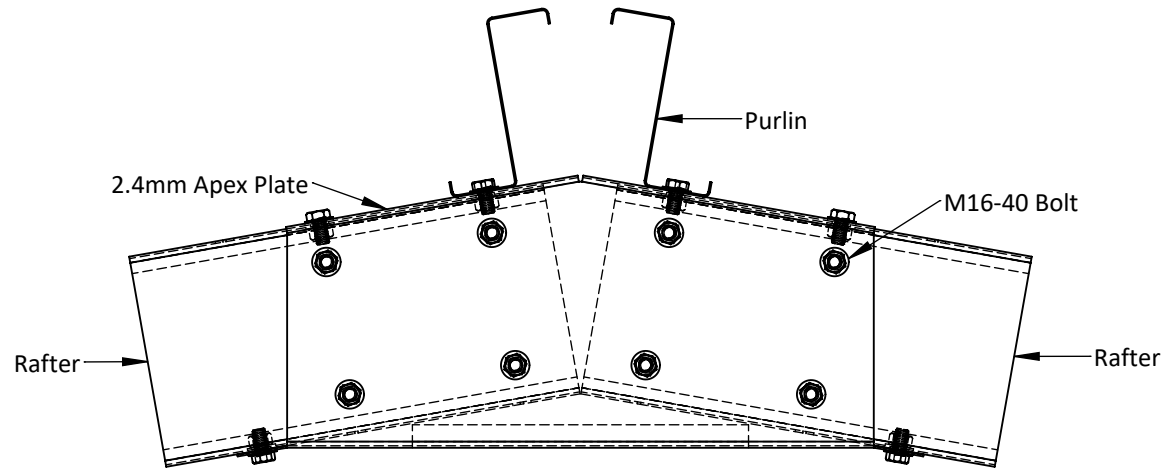
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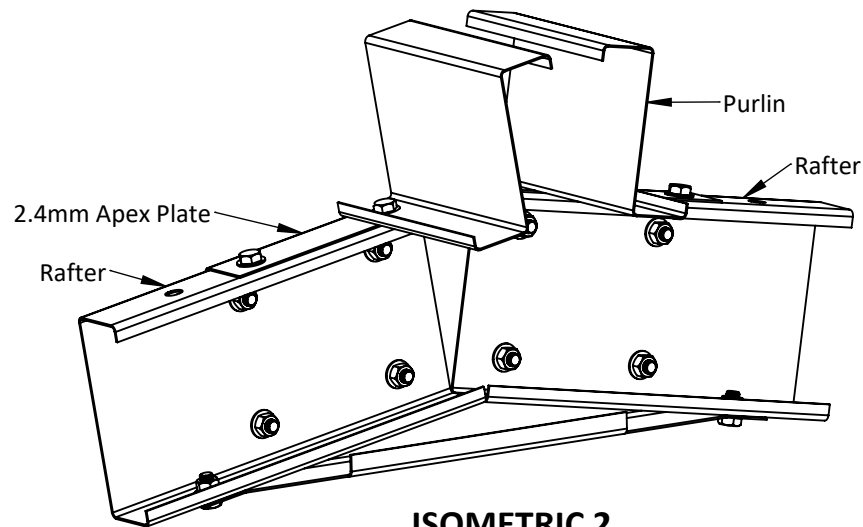
« Detail GS2.40: Apex Plate Connection Detail



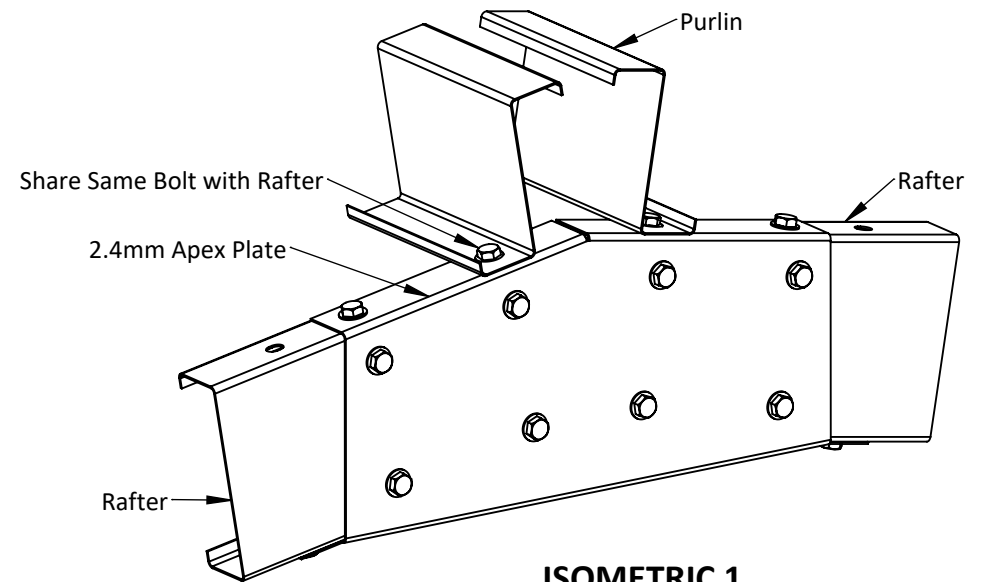
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ELEVATION



ISOMETRIC 2



ISOMETRIC 1



**PROFESSIONAL  
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SHEDS AND CARPORTS

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|   |   |   |   |                                      |  |
|---|---|---|---|--------------------------------------|--|
| <b>Technical Data</b>   |   | Member Capacity                           | <b>13.830 kN/m</b> · min(Inward, Outward)<br>Source: Lysaght® & Stramit® Span Tables                | Connections                          | <b>Pin</b> · Top & Bottom  |
| Class   | <b>10a</b> · Importance Level 2   | Member ØM                                 | <b>18.711 kNm</b> · L <sub>ex</sub> 2587 · L <sub>ey</sub> 850 · L <sub>ez</sub> 2587               | <b>Capacity</b> Required Inward      | <b>3.073 kN/m</b> (0.736 kPa x 4.175 m)  |
| Region  | <b>A1-5</b> · Regional Wind Speed 45 m/s  | <b>Deflection</b> Actual                  | <b>1.3 mm</b>   | Outward                              | <b>2.751 kN/m</b> (0.659 kPa x 4.175 m)  |
| Terrain Category  | <b>2.5</b>  | Permitted                                 | <b>8.6 mm</b> · Span/300 · 1170.0 Table C1  | Member Capacity                      | <b>3.840 kN/m</b> · min(Inward, Outward)<br>Source: Lysaght® & Stramit® Span Tables    |
| Shielding   | <b>No</b>   | <b>Column</b> · Member                    | <b>C25019</b> with 1 row of Bridging  | ØM Required                          | <b>9.310 kNm</b>   |
| <b>Wind Speed Requirements · AS/NZS 1170.2</b>                        |   | Min Yield Stress · Grade · I <sub>x</sub> | <b>450 MPa</b> · <b>G450</b> · <b>7.62 x 10<sup>6</sup>mm<sup>4</sup></b>                           | Member ØM                            | <b>14.823 kNm</b> · L <sub>ex</sub> 4923 · L <sub>ey</sub> 1500 · L <sub>ez</sub> 2493 |
| V <sub>design</sub>   | <b>39.15 m/s</b> · <b>141 km/h</b><br>V <sub>R</sub> x M <sub>c</sub> x M <sub>d</sub> x (M <sub>z,cat</sub> x M <sub>s</sub> x M <sub>t</sub> )  | Gov Span · Load Width                     | <b>3181 mm</b> · <b>5000 mm</b>   | <b>Lateral Bracing</b>               |  |
| V <sub>service</sub>  | <b>32.19 m/s</b> · <b>116 km/h</b><br>V <sub>25</sub> x M <sub>c</sub> x M <sub>d</sub> x (M <sub>z,cat</sub> x M <sub>s</sub> x M <sub>t</sub> ) | Base Connection                           | <b>Fixed</b> · G450 Embedded Plate  | <b>Roof</b> Required                 | <b>23.985 kN</b>   |
| <b>Load Requirements · Roof · AS/NZS 1170.0, 1170.1 &amp; 1170.2</b>  |   | <b>Capacity</b> Required                  | <b>3.680 kN/m</b> (0.736 kPa x 5.000 m)   | Actual                               | <b>35.610 kN</b>   |
| Pressure <sub>major</sub>   | Inward: <b>0.745 kPa</b> Outward: <b>1.068 kPa</b>  | Member Capacity                           | <b>11.800 kN/m</b> · min(Inward, Outward)<br>Source: Lysaght® & Stramit® Span Tables                | <b>Front Wall</b> Required           | <b>11.993 kN</b>   |
| Pressure <sub>minor</sub>   | Inward: <b>1.058 kPa</b> Outward: <b>1.648 kPa</b>  | Member ØM                                 | <b>18.711 kNm</b> · L <sub>ex</sub> 3181 · L <sub>ey</sub> 1500 · L <sub>ez</sub> 2213              | Actual                               | <b>21.249 kN</b>   |
| Service <sub>major</sub>  | Inward: <b>0.542 kPa</b> Outward: <b>0.693 kPa</b>  | <b>Deflection</b> Top of Column           | <b>9.9 mm</b>   | <b>Back Wall</b> Required            | <b>11.993 kN</b>   |
| Service <sub>minor</sub>  | Inward: <b>0.754 kPa</b> Outward: <b>1.085 kPa</b>  | Permitted                                 | <b>10.0 mm</b> · Span/300 · 1170.0 Table C1   | Actual                               | <b>20.810 kN</b>   |
| <b>Load Requirements · Walls · AS/NZS 1170.0, 1170.1 &amp; 1170.2</b> |   | <b>Knee Brace</b> · Member                | <b>C20019</b>   | <b>Cladding Details</b>              |  |
| Pressure <sub>major</sub>   | Inward: <b>0.736 kPa</b> Outward: <b>0.659 kPa</b>  | Min Yield Stress · Grade · I <sub>x</sub> | <b>450 MPa</b> · <b>G450</b> · <b>4.51 x 10<sup>6</sup>mm<sup>4</sup></b>                           | <b>Roof Cladding</b>                 | <b>BlueScope® Colorbond®</b>   |
| Pressure <sub>minor</sub>   | Inward: <b>1.103 kPa</b> Outward: <b>1.316 kPa</b>  | Member ØM                                 | <b>14.823 kNm</b> · L <sub>ex</sub> 1290 · L <sub>ey</sub> 1290 · L <sub>ez</sub> 1290              | Min Yield Stress · Grade             | <b>550 MPa</b> · <b>G550</b>   |
| Service <sub>major</sub>  | Inward: <b>0.497 kPa</b> Outward: <b>0.445 kPa</b>  | <b>Purlins</b>                            |   | Profile                              | <b>TrimDek®</b>  |
| Service <sub>minor</sub>  | Inward: <b>0.746 kPa</b> Outward: <b>0.890 kPa</b>  | Member                                    | <b>Z20015</b>   | BMT                                  | <b>0.48 mm</b>   |
| <b>End Portal</b>   |   | Min Yield Stress · Grade · I <sub>x</sub> | <b>450 MPa</b> · <b>G450</b> · <b>3.89 x 10<sup>6</sup>mm<sup>4</sup></b>                           | <b>Wall Cladding</b>                 | <b>BlueScope® Colorbond®</b>   |
| <b>Knee Connection</b>  | <b>Moment Resistant</b> · G450 Plate  | Gov Span · Load Width                     | <b>6000 mm</b> · <b>850 mm</b>  | Min Yield Stress · Grade             | <b>550 MPa</b> · <b>G550</b>   |
| ØM Required   | <b>8.033 kNm</b>  | <b>Capacity</b> Required Inward           | <b>0.899 kN/m</b> (1.058 kPa x 0.850 m)   | Profile                              | <b>TrimDek®</b>  |
| <b>Rafter</b> · Member  | <b>C25019</b>   | Outward                                   | <b>1.401 kN/m</b> (1.648 kPa x 0.850 m)   | BMT                                  | <b>0.48 mm</b>   |
| Min Yield Stress · Grade · I <sub>x</sub>                             | <b>450 MPa</b> · <b>G450</b> · <b>7.62 x 10<sup>6</sup>mm<sup>4</sup></b>   | Member Capacity                           | <b>1.950 kN/m</b> · 4 Lapped Spans · min(Inward, Outward) · Source: Lysaght® & Stramit® Span Tables | <b>End Portal · Bored Piers</b>      |  |
| Gov Span · Load Width   | <b>3527 mm</b> · <b>2005 mm</b>   | <b>Deflection</b> Actual                  | <b>20.0 mm</b>  | ØM M <sub>u</sub>                    | <b>4.290 kNm</b>   |
| <b>Capacity</b> Required  | <b>2.141 kN/m</b> (1.068 kPa x 2.005 m)   | Permitted                                 | <b>20.0 mm</b> · Span/300 · 1170.0 Table C1   | Uplift V <sub>u</sub>                | <b>7.117 kN</b>  |
| Member Capacity   | <b>7.640 kN/m</b> · min(Inward, Outward)<br>Source: Lysaght® & Stramit® Span Tables   | <b>Eave Purlins</b>                       |   | Shear H <sub>u</sub>                 | <b>4.448 kN</b>  |
| Member ØM   | <b>18.711 kNm</b> · L <sub>ex</sub> 3527 · L <sub>ey</sub> 850 · L <sub>ez</sub> 3527   | Member                                    | <b>C20015</b>   | <b>Dimensions</b> Pier Only          | <b>450 mm diameter x 2000 mm deep</b>  |
| <b>Deflection</b> Actual  | <b>1.8 mm</b>   | Min Yield Stress · Grade · I <sub>x</sub> | <b>450 MPa</b> · <b>G450</b> · <b>3.53 x 10<sup>6</sup>mm<sup>4</sup></b>                           | Pier with Slab                       | <b>450 mm diameter x 1500 mm deep</b>  |
| Permitted   | <b>11.8 mm</b> · Span/300 · 1170.0 Table C1   | Gov Span · Load Width                     | <b>6000 mm</b> · <b>213 mm</b>  | <b>Internal Portal · Bored Piers</b> |  |
| <b>Column</b> · Member  | <b>C25019</b>   | <b>Capacity</b> Required Inward           | <b>0.225 kN/m</b> (1.058 kPa x 0.213 m)   | ØM M <sub>u</sub>                    | <b>10.696 kNm</b>  |
| Min Yield Stress · Grade · I <sub>x</sub>                             | <b>450 MPa</b> · <b>G450</b> · <b>7.62 x 10<sup>6</sup>mm<sup>4</sup></b>   | Outward                                   | <b>0.351 kN/m</b> (1.648 kPa x 0.213 m)   | Uplift V <sub>u</sub>                | <b>17.745 kN</b>   |
| Gov Span · Load Width   | <b>4237 mm</b> · <b>2005 mm</b>   | Member Capacity                           | <b>0.720 kN/m</b> · min(Inward, Outward) · Source: Lysaght® & Stramit® Span Tables                  | Shear H <sub>u</sub>                 | <b>11.091 kN</b>   |
| Base Connection   | <b>Fixed</b> · G450 Embedded Plate  | <b>Deflection</b> Actual                  | <b>5.5 mm</b>   | <b>Dimensions</b> Pier Only          | <b>450 mm diameter x 2500 mm deep</b>  |
| <b>Capacity</b> Required  | <b>1.476 kN/m</b> (0.736 kPa x 2.005 m)   | Permitted                                 | <b>20.0 mm</b> · Span/300 · 1170.0 Table C1   | Pier with Slab                       | <b>450 mm diameter x 1500 mm deep</b>  |
| Member Capacity   | <b>6.350 kN/m</b> · min(Inward, Outward)<br>Source: Lysaght® & Stramit® Span Tables   | <b>Girts</b>                              |   |                                      |  |
| Member ØM   | <b>18.711 kNm</b> · L <sub>ex</sub> 4237 · L <sub>ey</sub> 1500 · L <sub>ez</sub> 2213  | Member                                    | <b>Z20015</b> with 1 row of bridging  |                                      |  |
| <b>Deflection</b> Top of Column                                       | <b>4.0 mm</b>   | Min Yield Stress · Grade · I <sub>x</sub> | <b>450 MPa</b> · <b>G450</b> · <b>3.89 x 10<sup>6</sup>mm<sup>4</sup></b>                           |                                      |  |
| Permitted   | <b>10.0 mm</b> · Span/300 · 1170.0 Table C1   | Gov Span · Load Width                     | <b>6000 mm</b> · <b>1500 mm</b>   |                                      |  |
| <b>Internal Portal</b>  |   | <b>Capacity</b> Required Inward           | <b>1.655 kN/m</b> (1.103 kPa x 1.500 m)   |                                      |  |
| <b>Knee Connection</b>  | <b>Moment Resistant</b> · G450 Plate  | Outward                                   | <b>1.974 kN/m</b> (1.316 kPa x 1.500 m)   |                                      |  |
| ØM Required   | <b>9.844 kNm</b>  | Member Capacity                           | <b>2.910 kN/m</b> · 4 Lapped Spans · min(Inward, Outward) · Source: Lysaght® & Stramit® Span Tables |                                      |  |
| <b>Rafter</b> · Member  | <b>C25019</b> with 1 row of Bridging  | <b>Mullions · LM1,RM1</b>                 |   |                                      |  |
| Min Yield Stress · Grade · I <sub>x</sub>                             | <b>450 MPa</b> · <b>G450</b> · <b>7.62 x 10<sup>6</sup>mm<sup>4</sup></b>   | Member                                    | <b>C20019</b> with 1 row of Bridging  |                                      |  |
| Gov Span · Load Width   | <b>2587 mm</b> · <b>5000 mm</b>   | Min Yield Stress · Grade · I <sub>x</sub> | <b>450 MPa</b> · <b>G450</b> · <b>4.51 x 10<sup>6</sup>mm<sup>4</sup></b>                           |                                      |  |
| <b>Capacity</b> Required  | <b>5.340 kN/m</b> (1.068 kPa x 5.000 m)   | Gov Span · Load Width                     | <b>4923 mm</b> · <b>4175 mm</b>   |                                      |  |



PROJECT: **Gable Shed**

CLIENT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PROJECT NUMBER: **10477**

DRAWN BY: \_\_\_\_\_

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