


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	Dimensions	7200 x 13200 x 2400				
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	Building Class	10a				
G03		300	Welded Sections to AS/NZS3679.2	Design Wind Speed	47.11 m/s				
		250	Hot Rolled Plates, Floor Plates & Slabs to AS/NZS3678	Columns C	100x100x3 Grade C450L0				
		250	Hollow Sections to AS1163. Circular Sections less than 165mm Outside Diameter. Sections other than the above	Rafters R	C15019 G450				
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.	G450-G550	Cold Form AS4600. Unless noted otherwise, all purlins, plates & brackets are G450.	Purlins P	C15012 G500				
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.	Fascia Beams FB	C15012 G500				
G06	The Structure has not been designed for snow loads.	G2070	AS2841. Galvanized Steel Wire Strand. Unless noted otherwise, all Cable Bracing is G2070.	Eave Beams EB	C15012 G500				
G07	Connections may require on-site drilling by the contractor(s).			Eave Purlins EP	C15012 G500				
		Australian Standard™ & Australian/New Zealand Standard™ Adopted		Purlin Bridging	TH22x0.40 G550				
Foundation Notes				Footings	Cast In				
F01	Foundations have been designed assuming an allowable bearing capacity of 100 kPa.	AS 1111.1	ISO Metric Hexagon Bolts and Screws – Product Grade C Part 1: Bolts	All Brackets	3.0 mm G450				
F02	The Owner is advised to obtain a Geotechnical Report and/or Site Foundation Report to confirm F01 above.	AS/NZS 1163	Cold-formed Structural Steel Hollow Sections	Technical Data	Page 26				
F03	Footings shall be located centrally under walls and columns unless noted otherwise.	AS/NZS 1170.0	Structural Design Actions - Part 0: General Principles						
F04	All Footings to be founded a minimum of 400 mm into Natural Ground. Do not Found Footings in uncontrolled fill.	AS/NZS 1170.1	Structural Design Actions - Part 1: Permanent, Imposed & Other Actions						
F05	Engineer to be contacted if Foundation Conditions vary from F01 above.	AS/NZS 1170.2	Structural Design Actions - Part 2: Structural Design, Wind Actions						
Steelwork Notes		AS/NZS 1170.4	Structural Design Actions - Part 4: Earthquake Actions in Australia						
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.	AS 1252	Structural Assemblies						
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	AS/NZS 1554	Structural Steel Welding						
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.	AS 4100	Steel Structures						
S04	All metal cladding should comply with AS/NZS 4680 G550, AZ150 (550 MPa minimum yield stress, 150 g/m2 minimum coating mass).	AS/NZS 4600	Cold-formed Steel Structures						
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.	AS/NZS 4671	Steel Reinforcing Materials						
S06	Unless noted otherwise, all steel shall comply with the relevant Australian Standard.	AS/NZS 4680	Hot-dip Galvanized (Zinc) Coatings on Fabricated Ferrous Articles						
		Region & Site Details							
		This is a freestanding roof only structure. It is assumed that cars, goods or materials stored under the roof block less than 50 percentage of the cross section exposed to the wind.							
		Suitable for Regions A1-5 & B1. TC2.5 without Shielding: Terrain with some trees or isolated obstructions, terrain in developing outer urban areas with scattered houses, or large acreage developments with more than two and less than 10 buildings per hectare. The site is not on the slope or crest of a hill, ridge or escarpment.							
		$V_{design} = V_R \times M_c \times M_d \times (M_{z,Cat} \times M_s \times M_t)$							
		$V_{design} = 57 \times 1 \times 0.95 \times (0.87 \times 1 \times 1) = 47.11 \text{ m/s}$							
		Foundations have been designed assuming an allowable bearing capacity of 100 kPa, undrained cohesion C <sub>u</sub> = 50 kPa. Concrete Strength = 25 MPa.							
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Back Elevation - Low/Gutter Side


Left Elevation

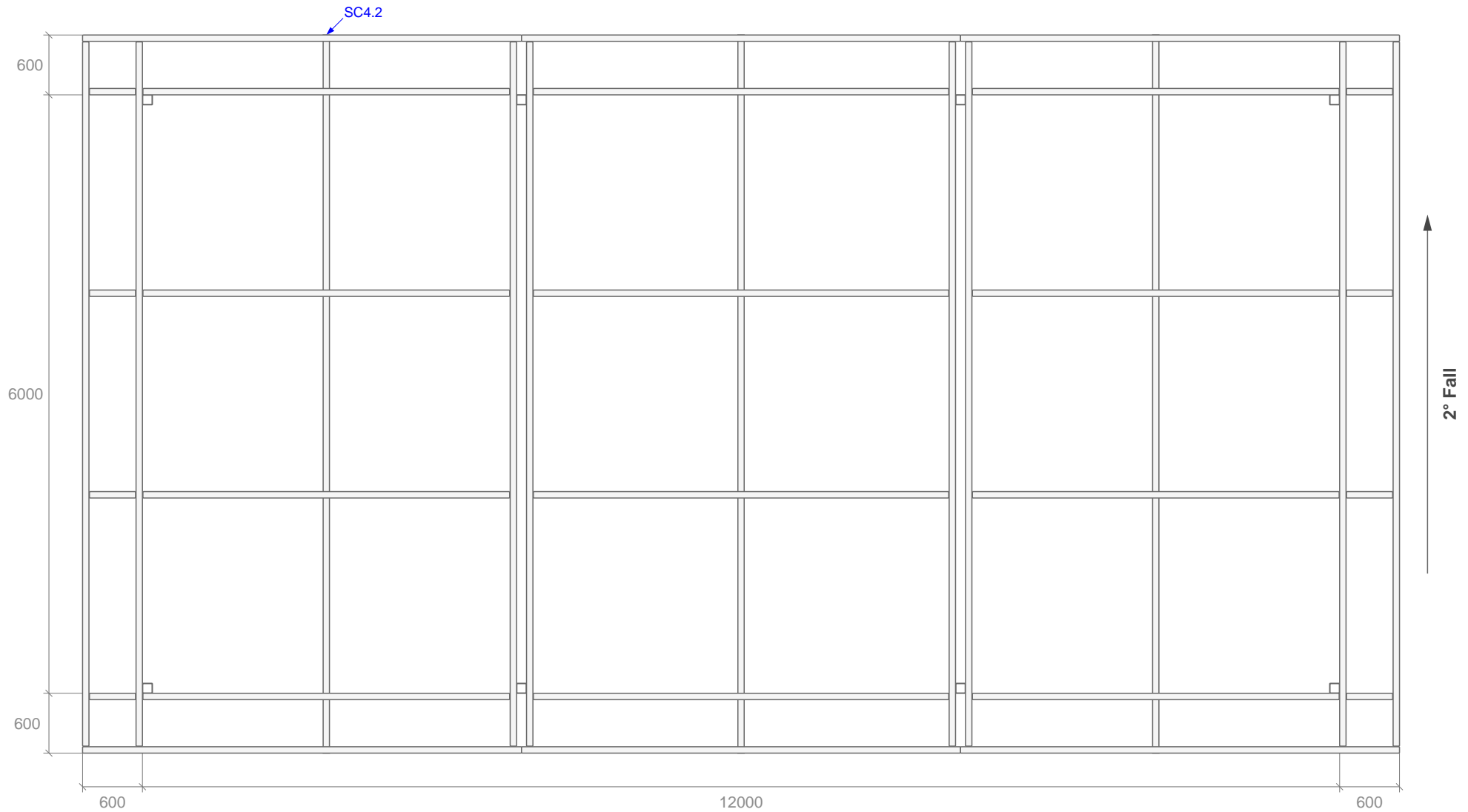
7200 Frame Depth


13200 Frame Width

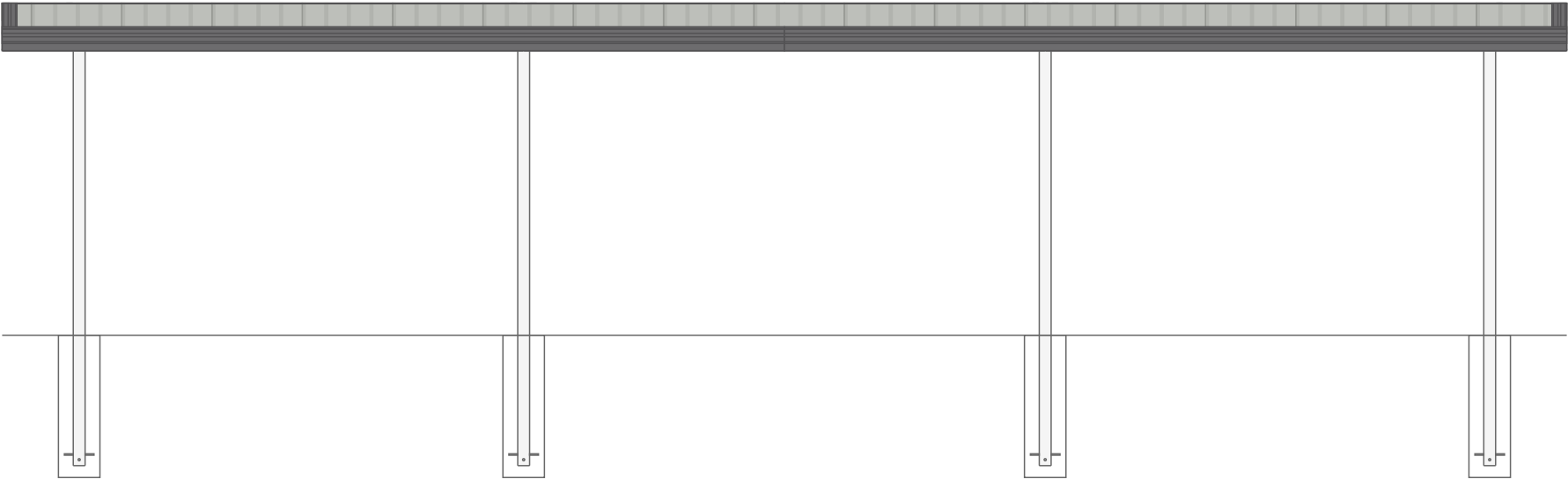
2° Fall


Note: Roof structure is non foot trafficable.

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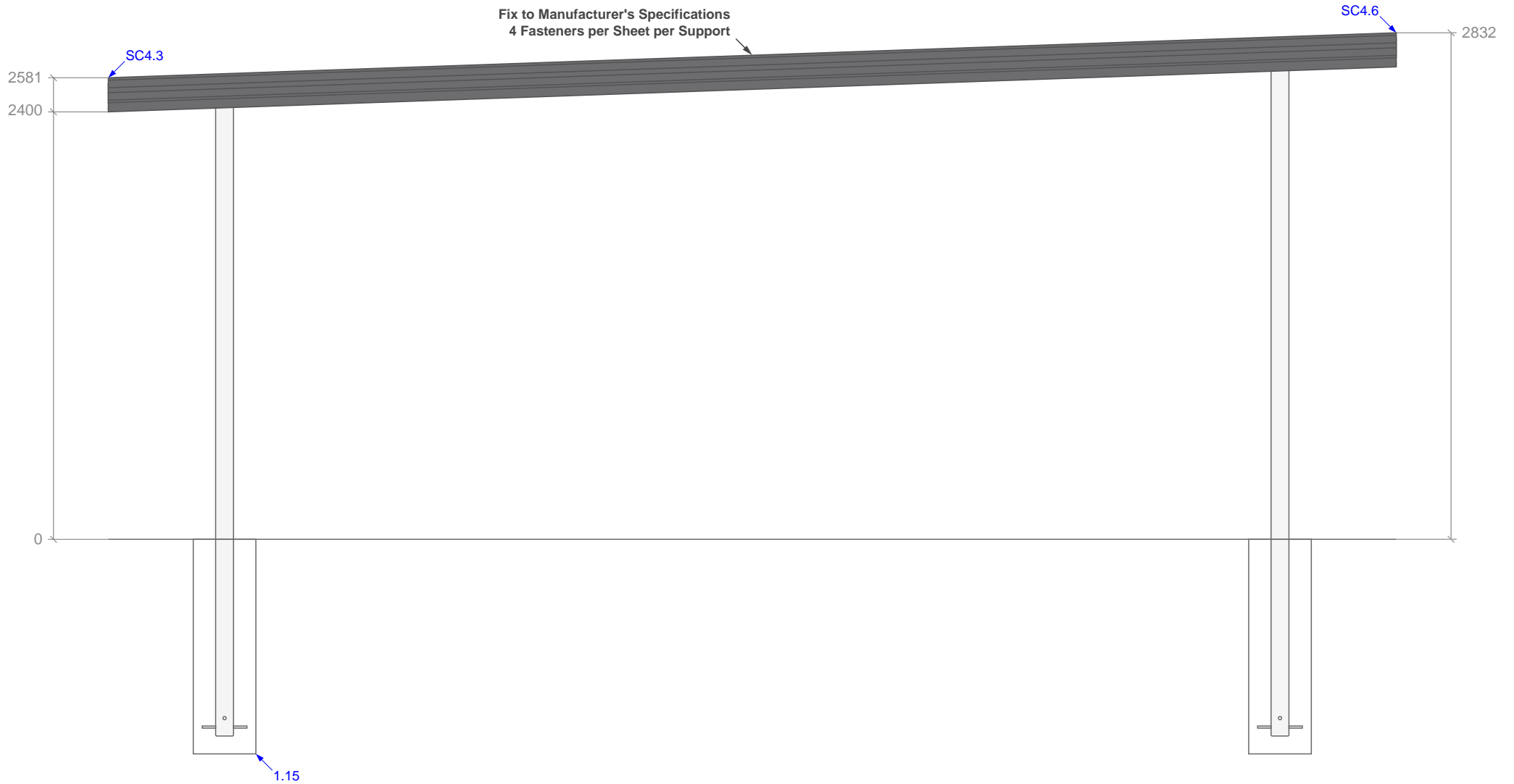
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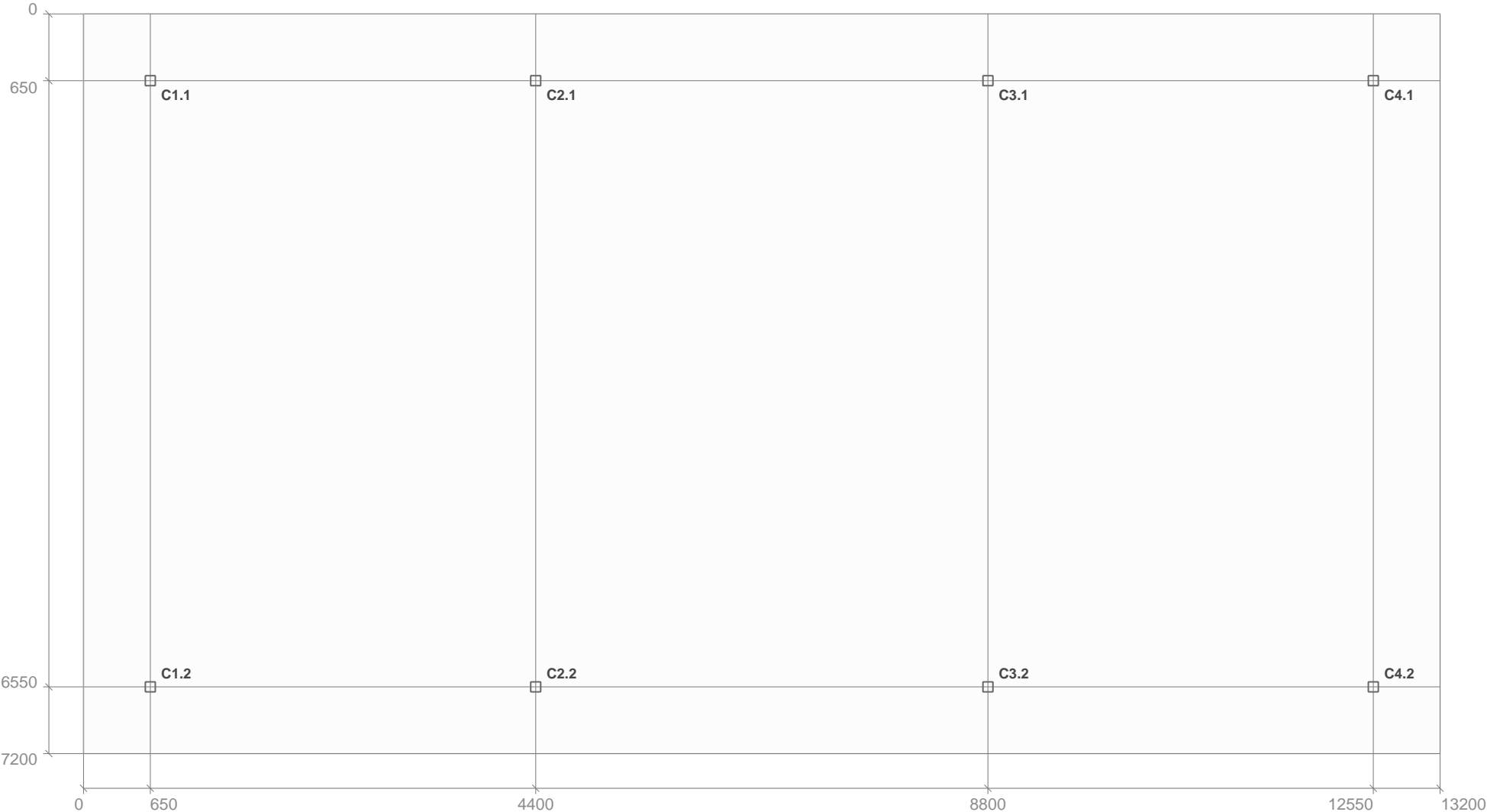
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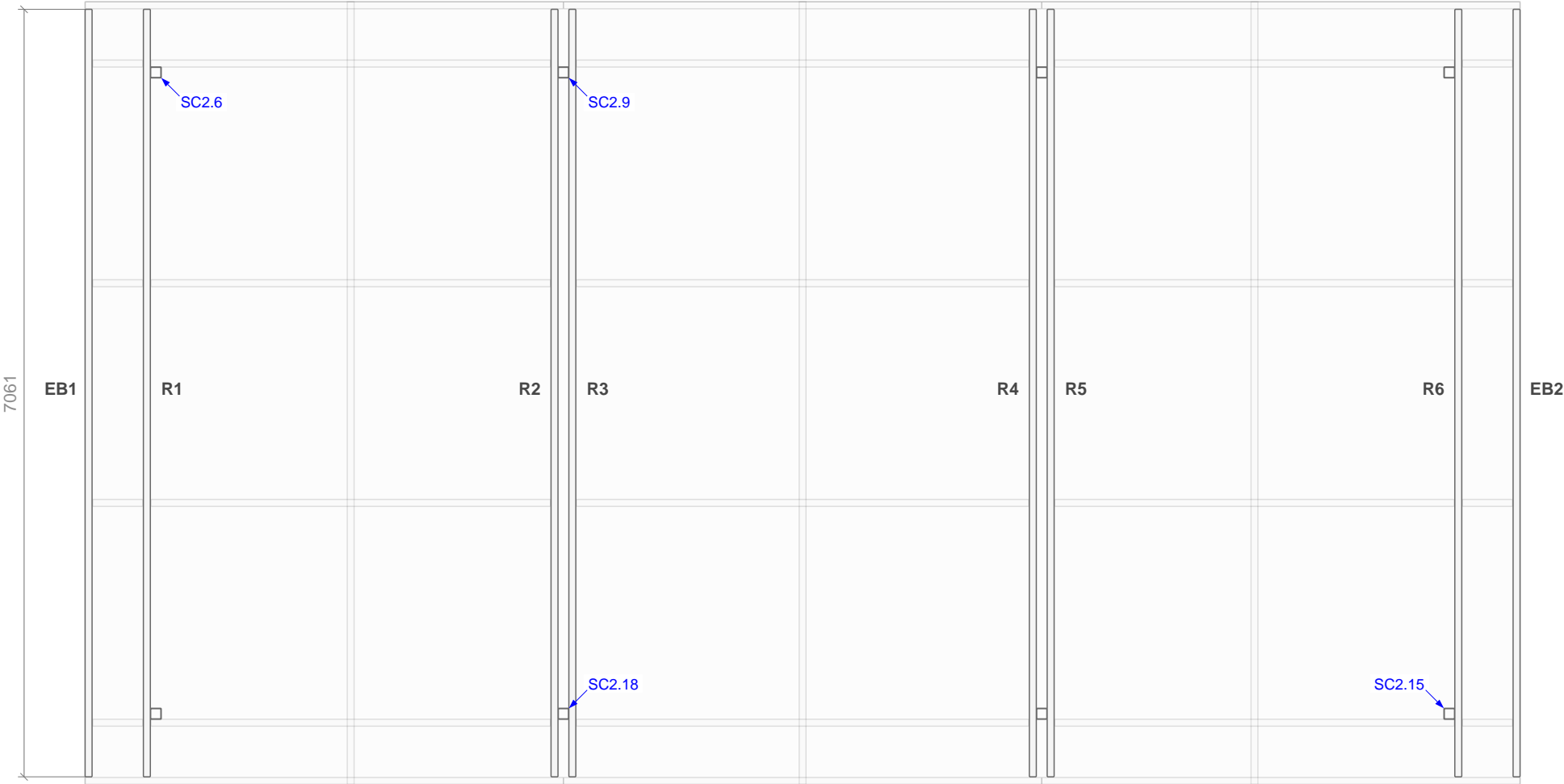



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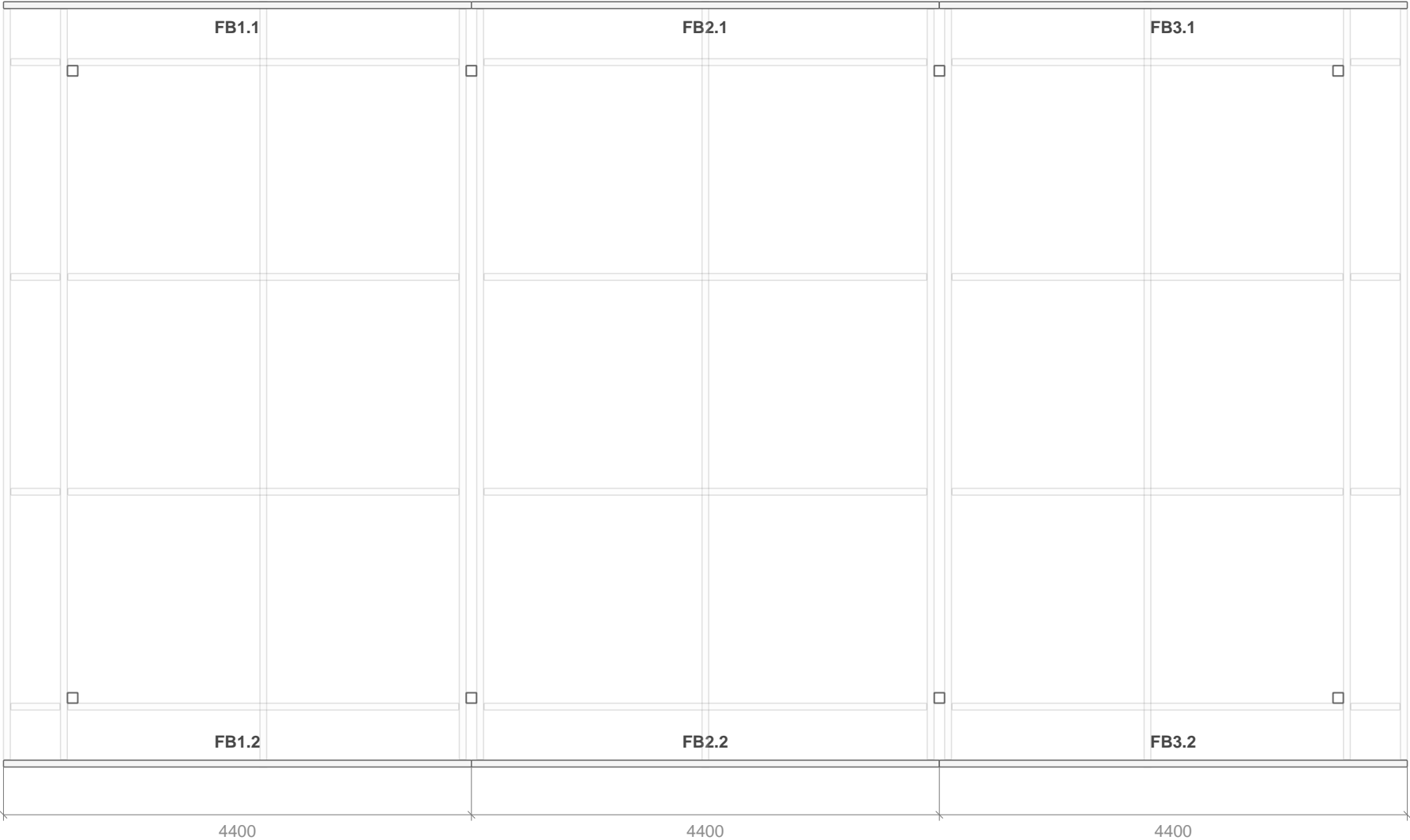



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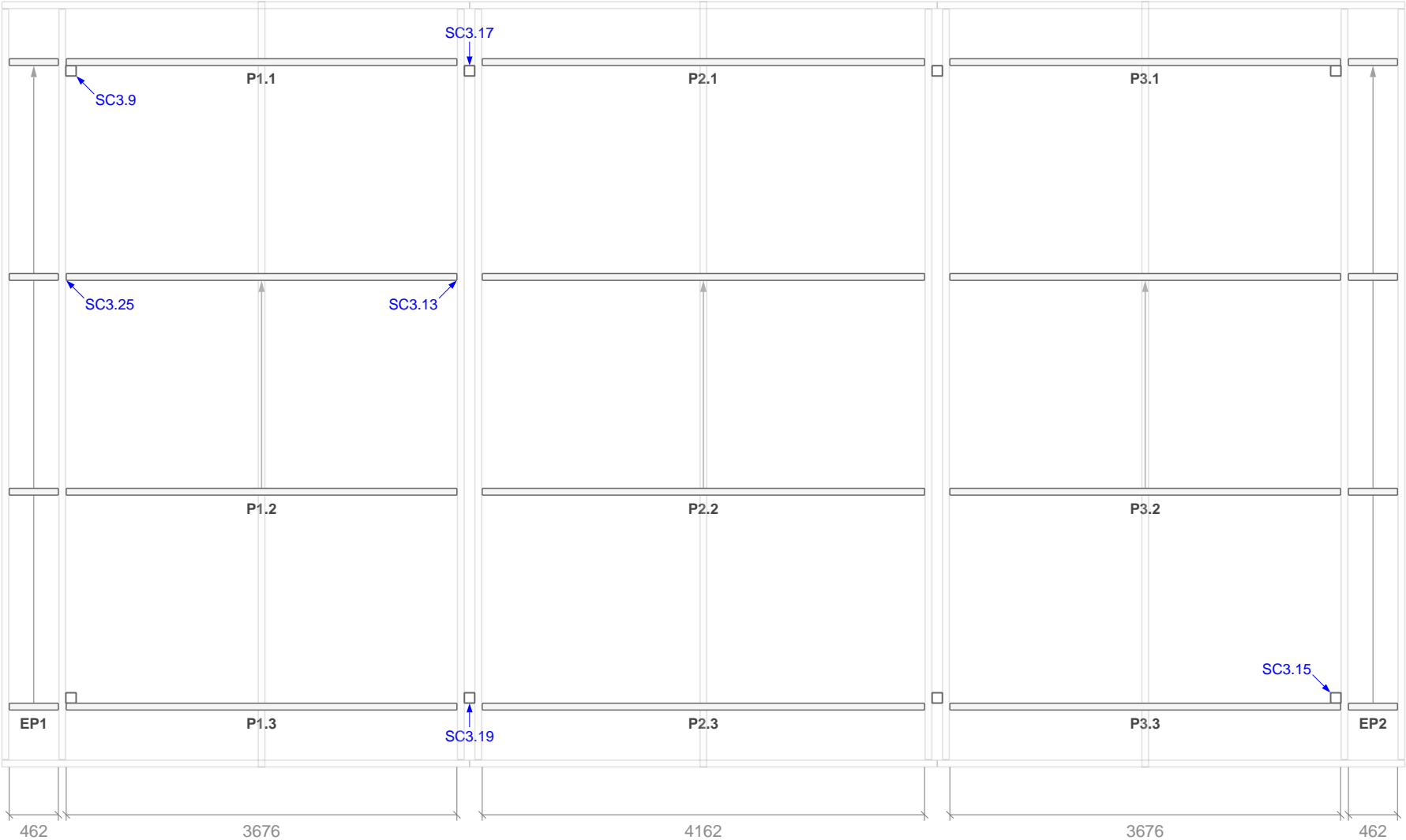





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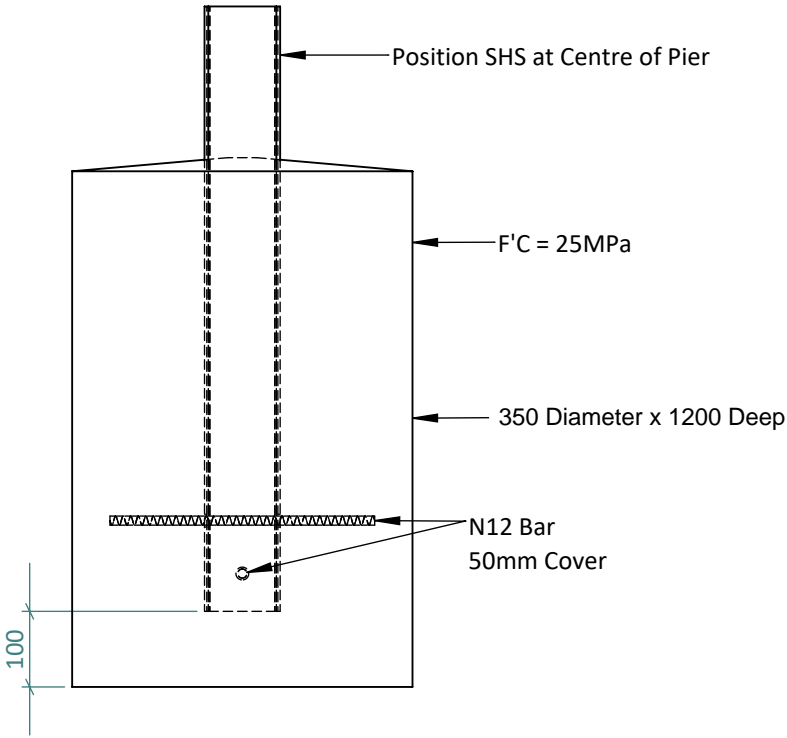
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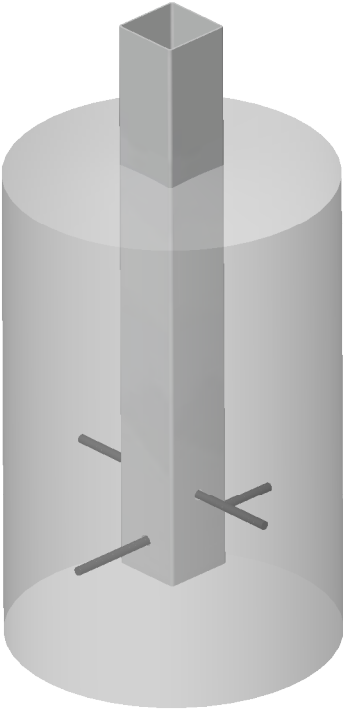
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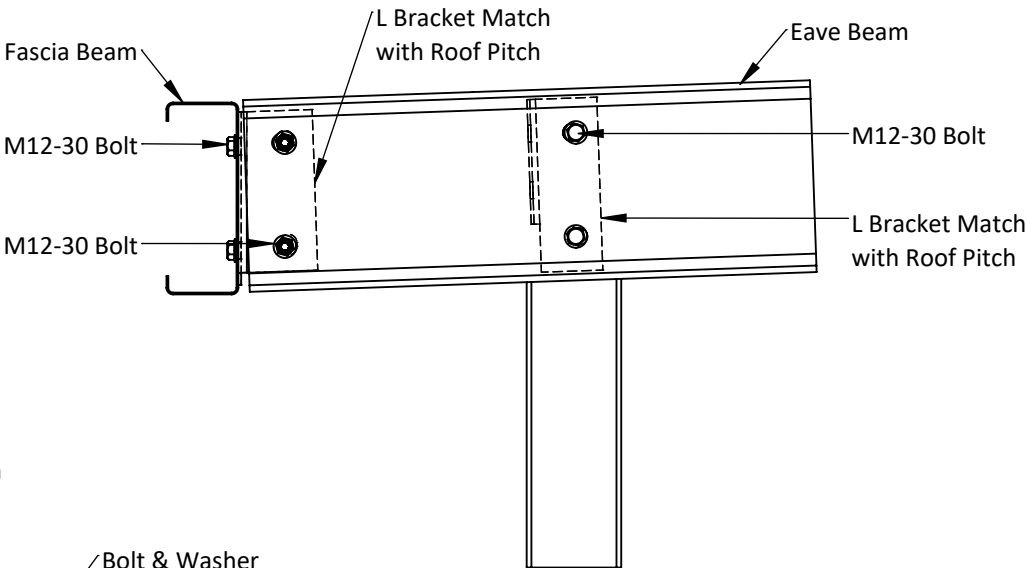


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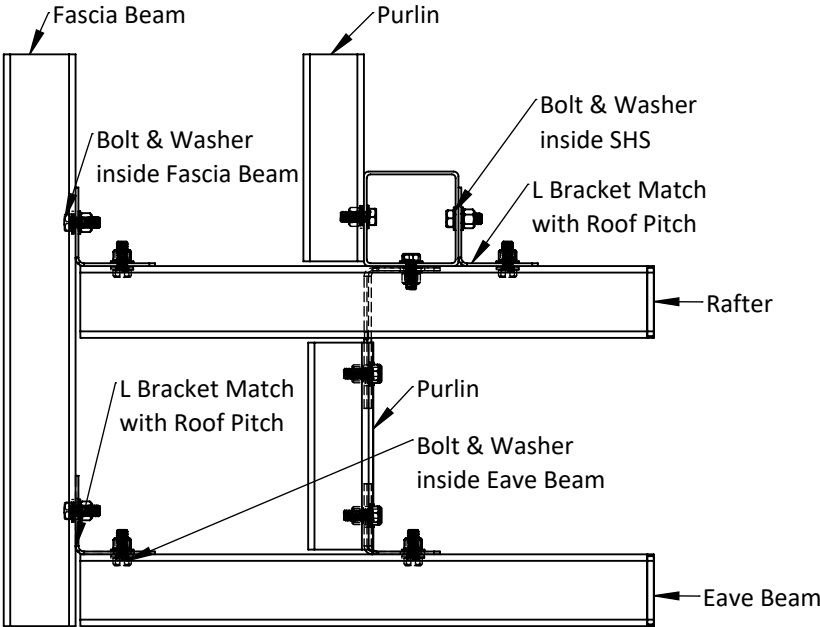
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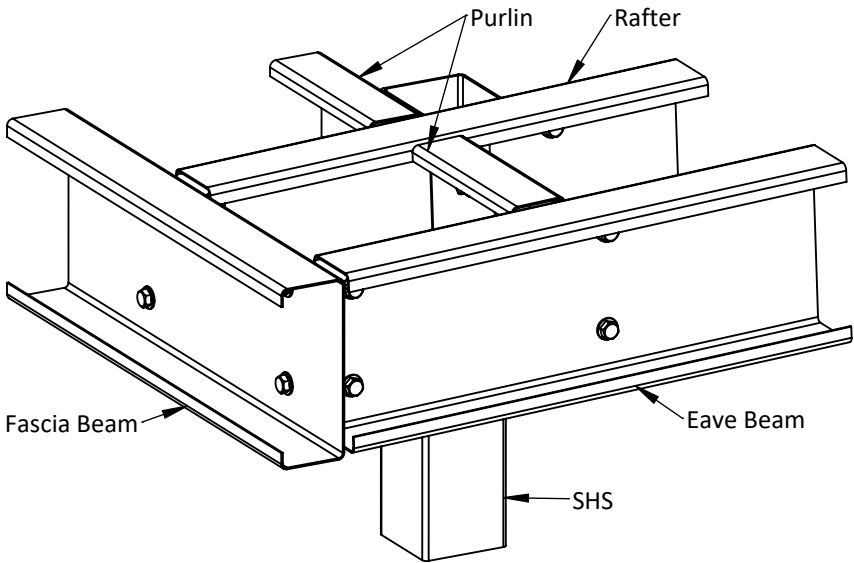
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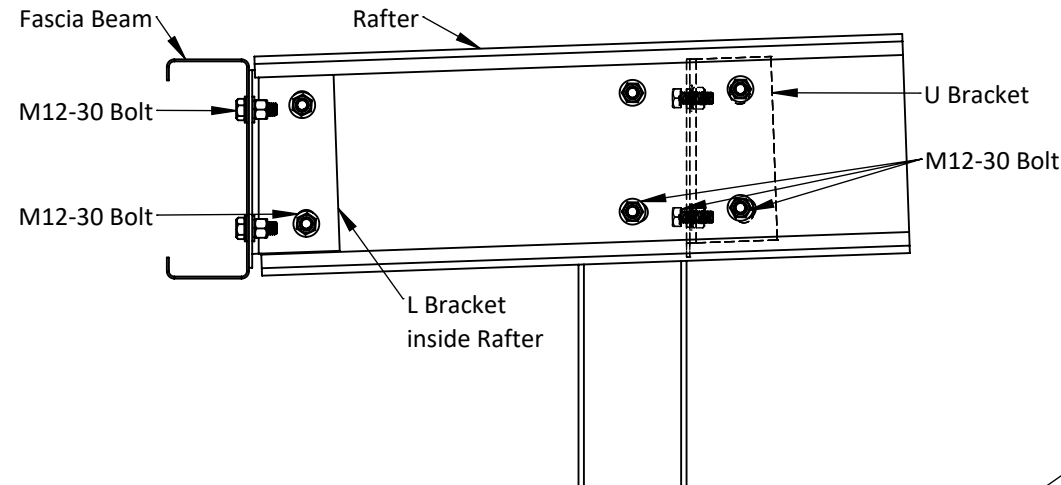
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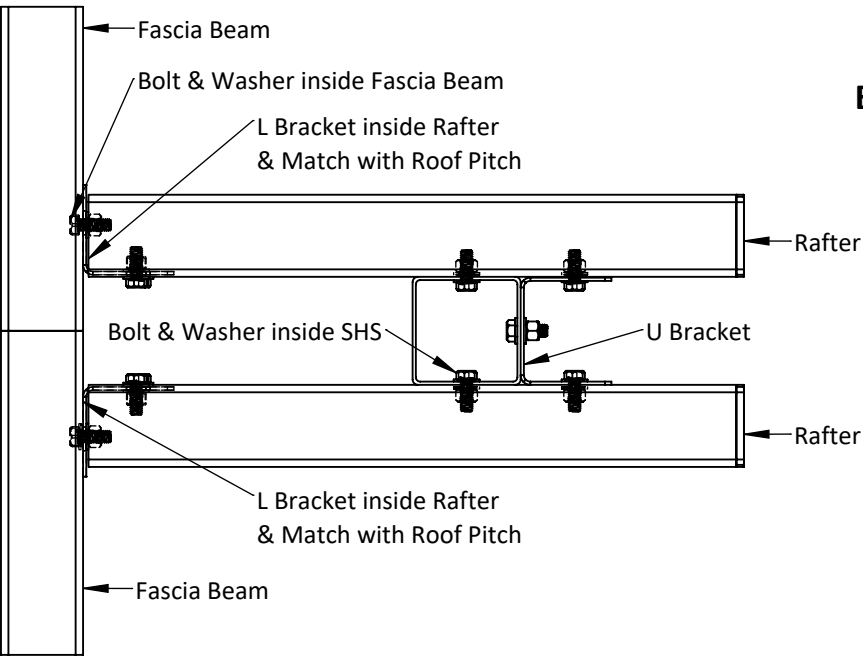
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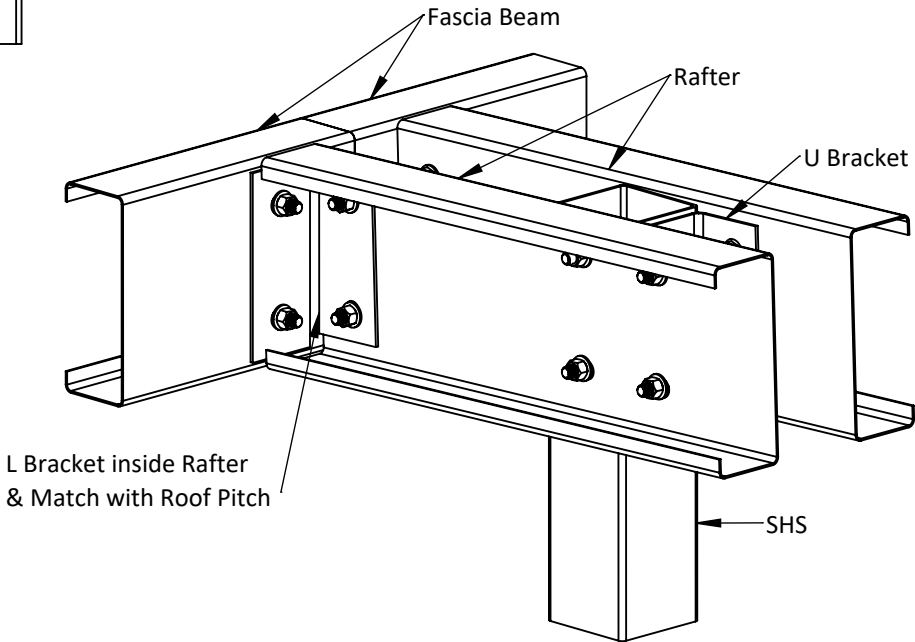
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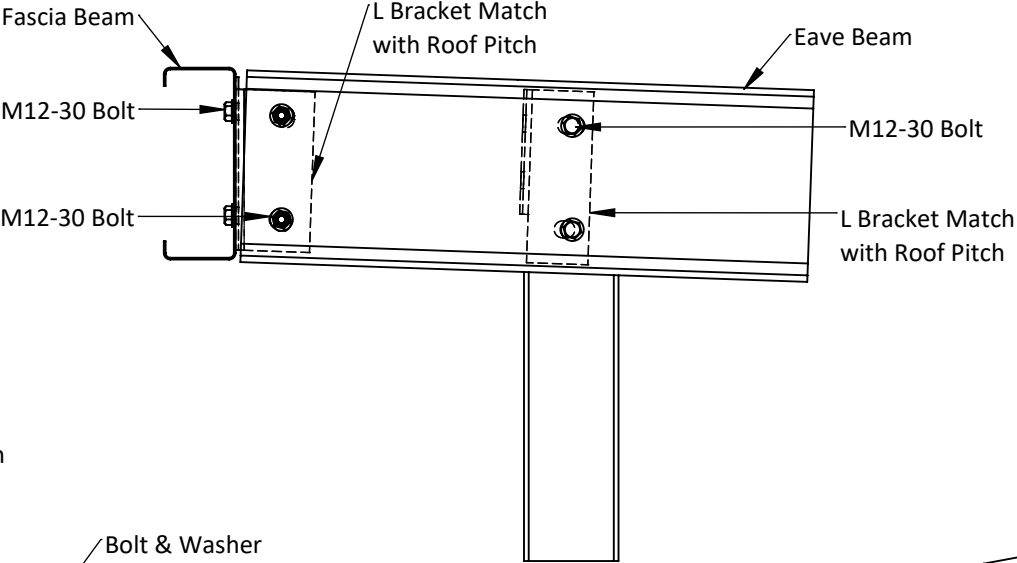
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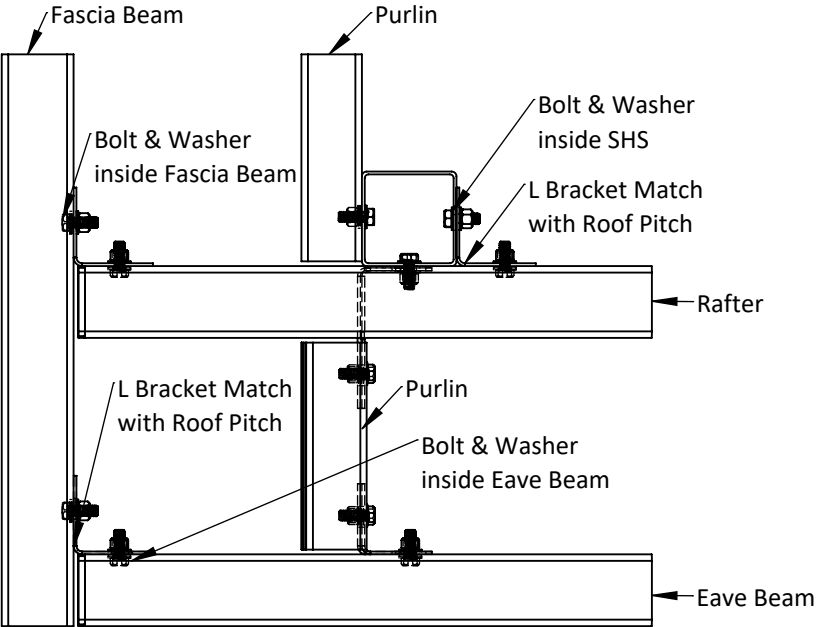
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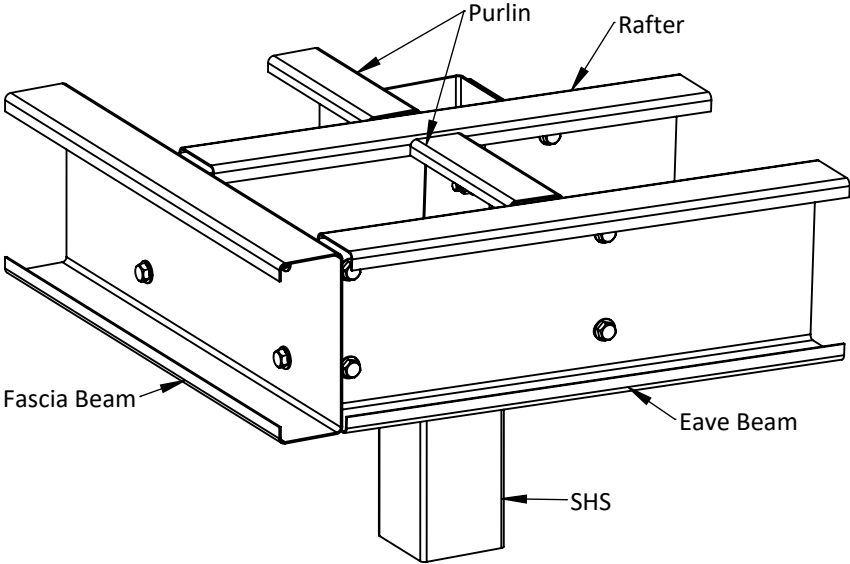
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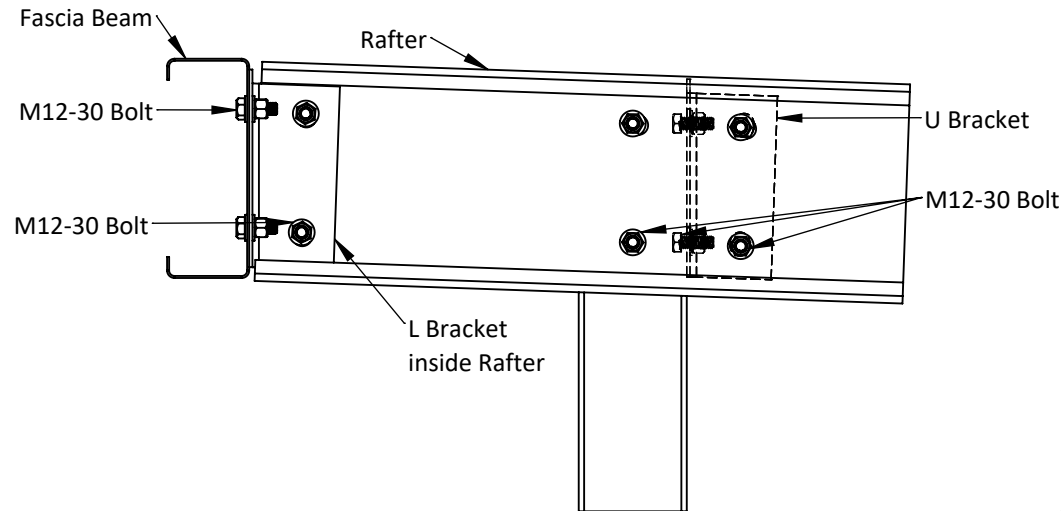
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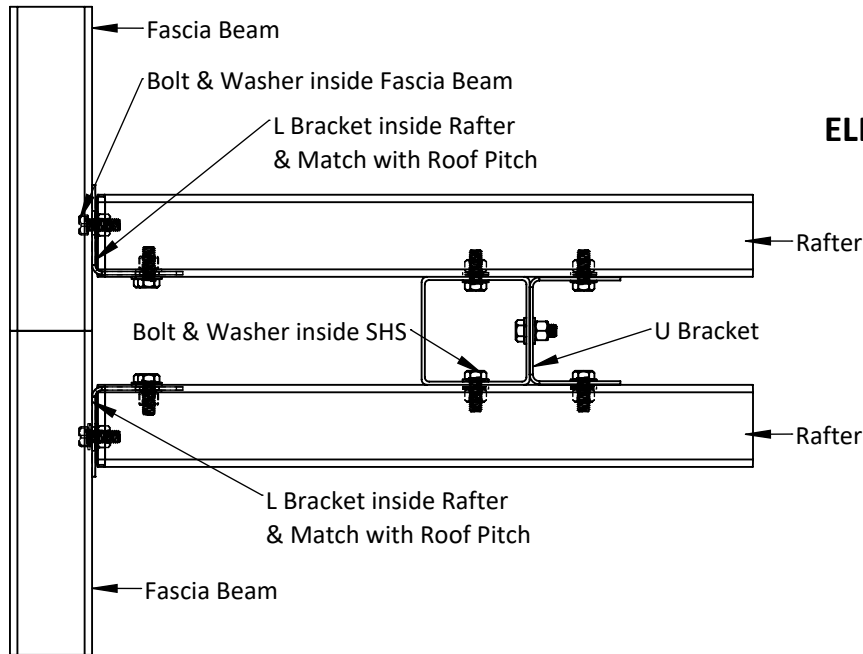
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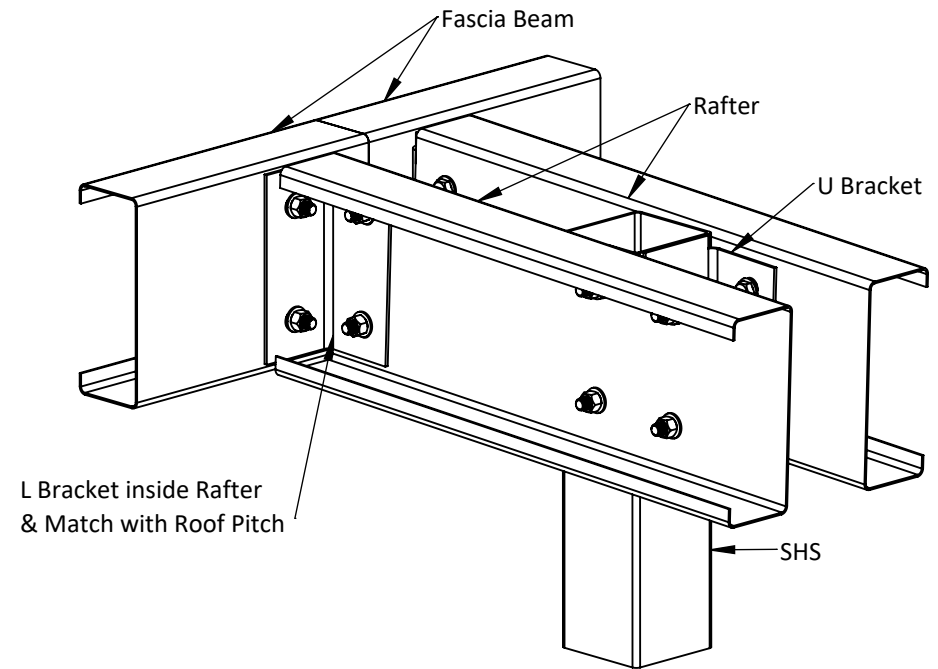
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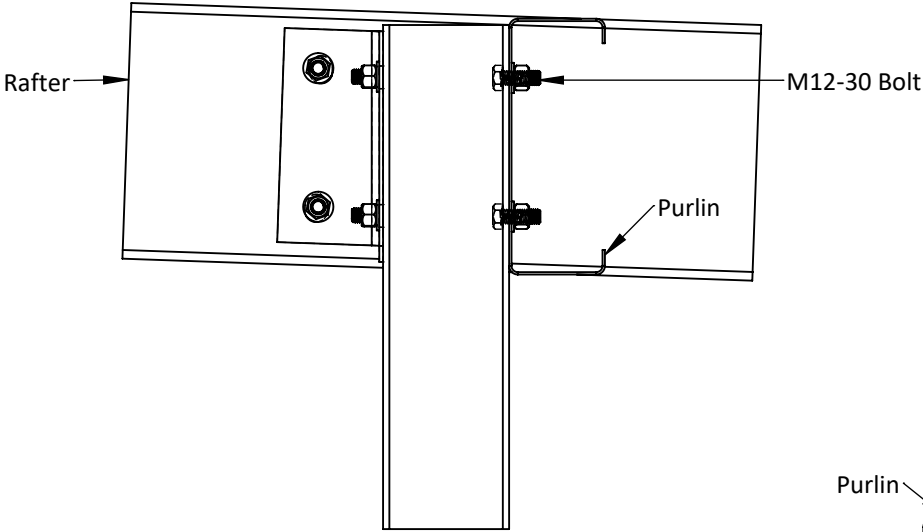


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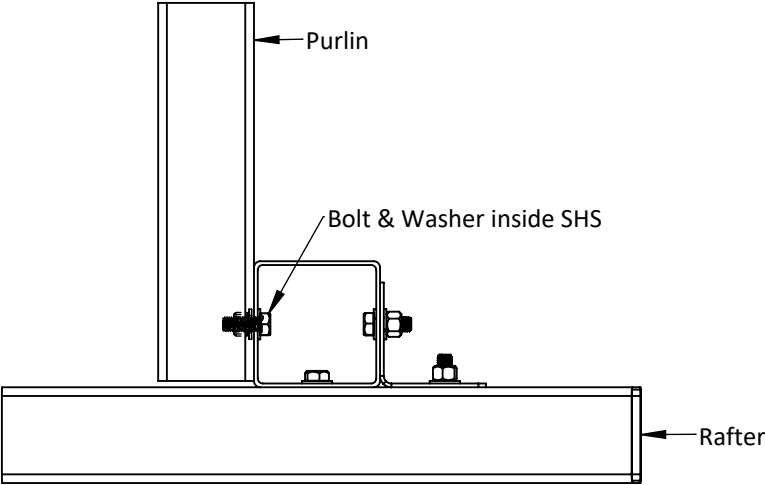




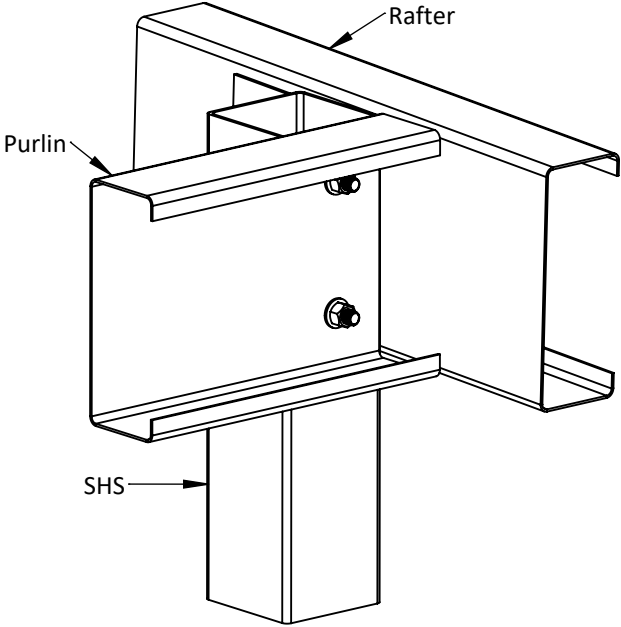
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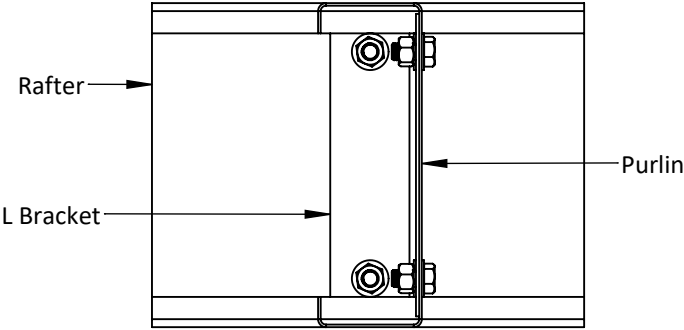


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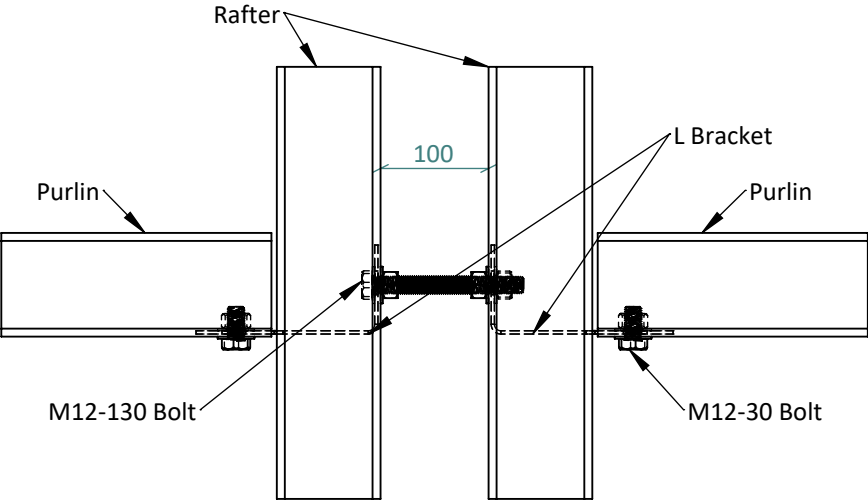
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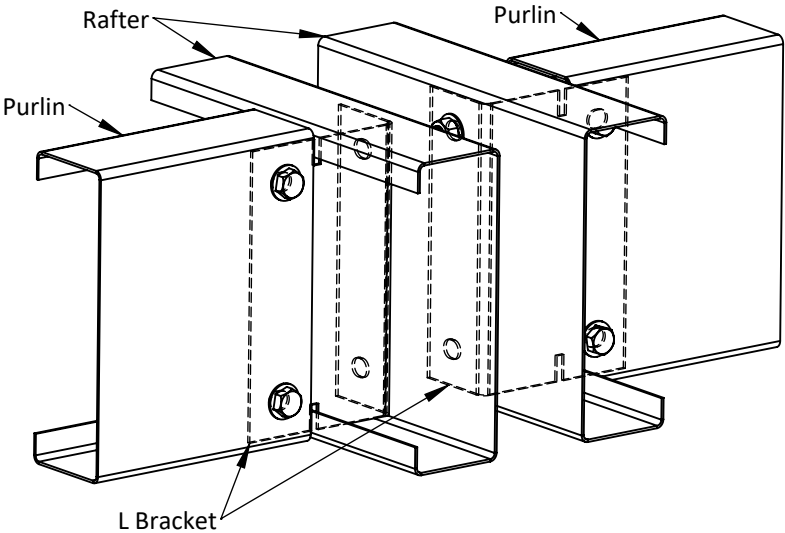
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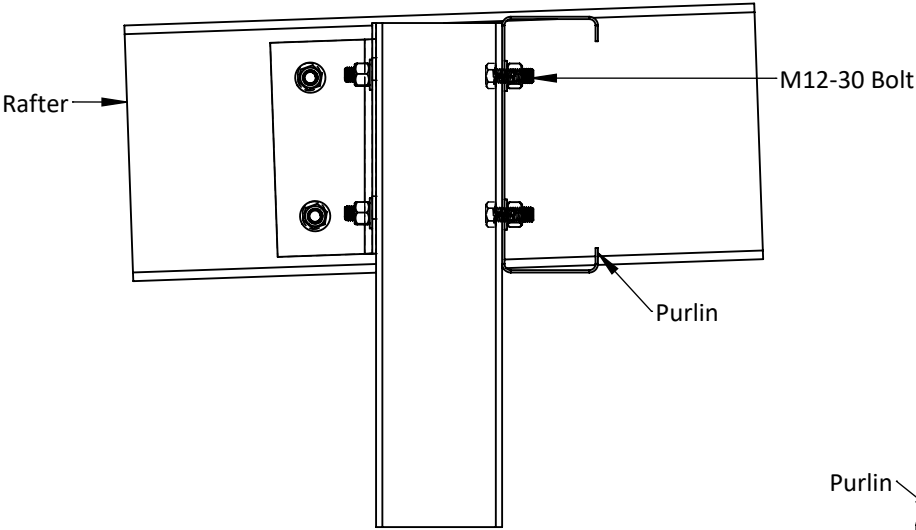


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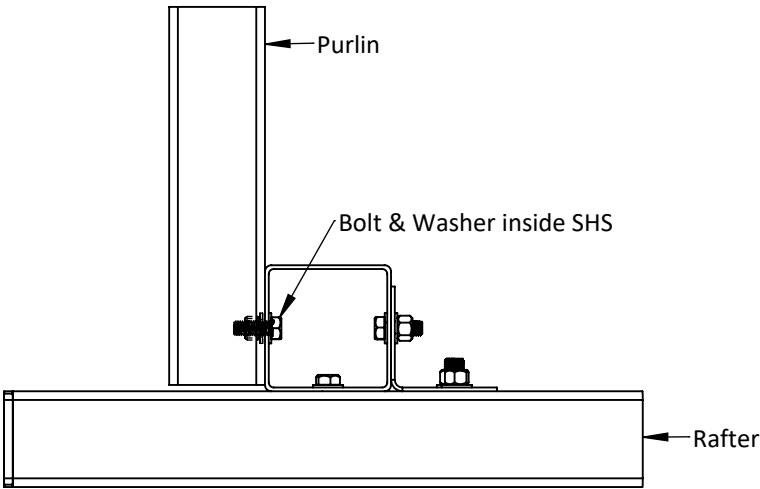
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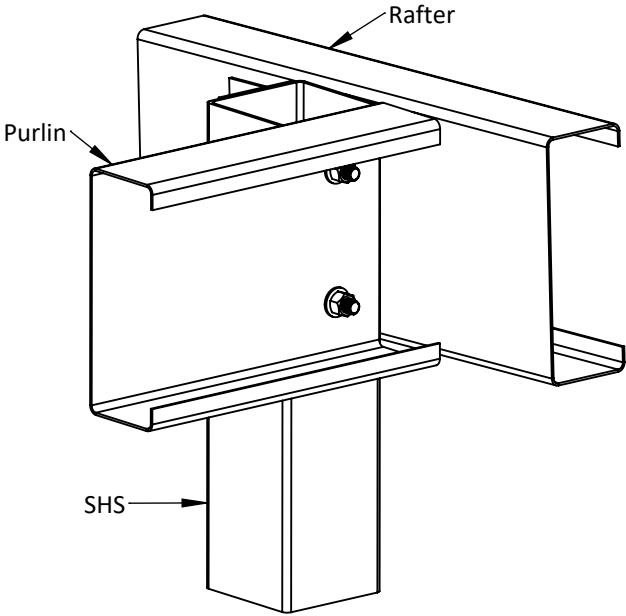
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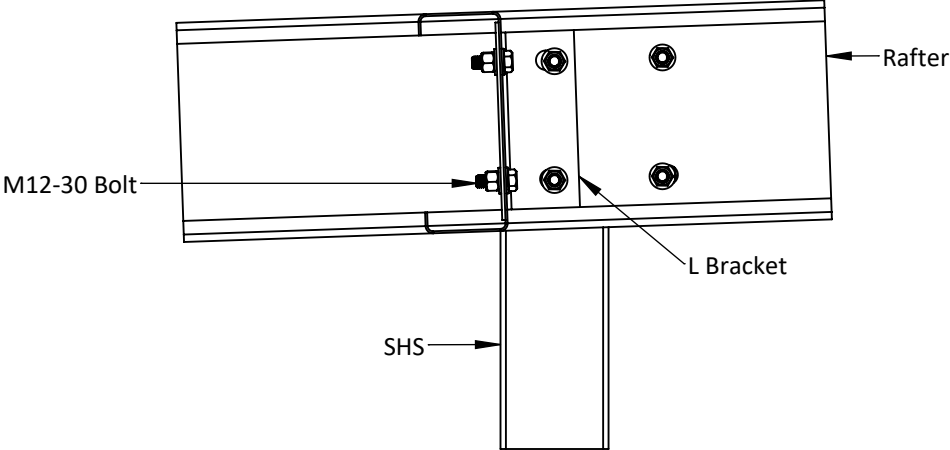
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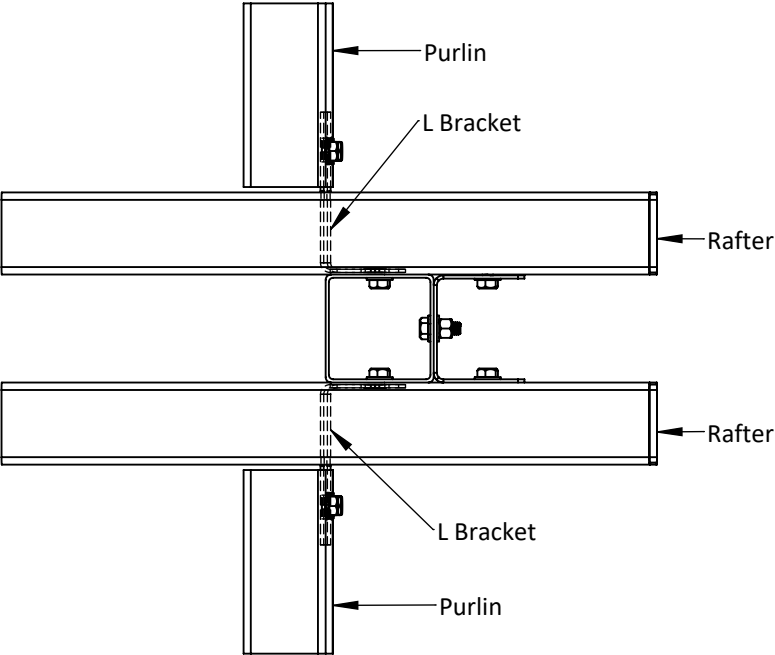
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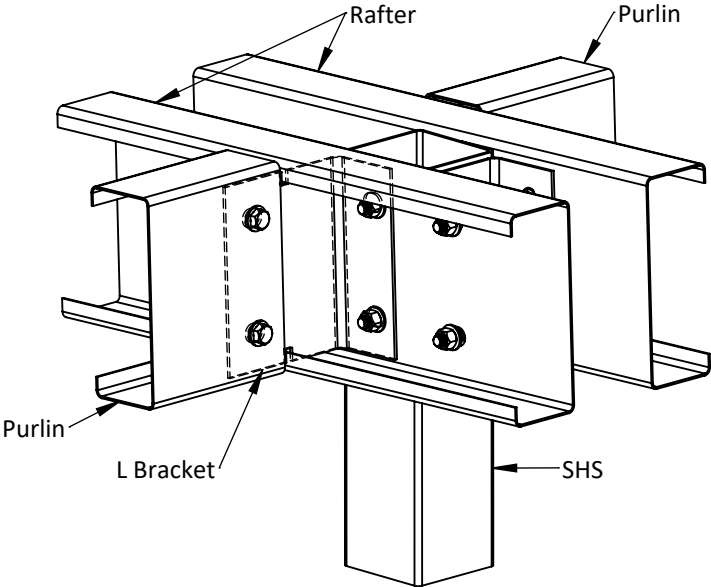
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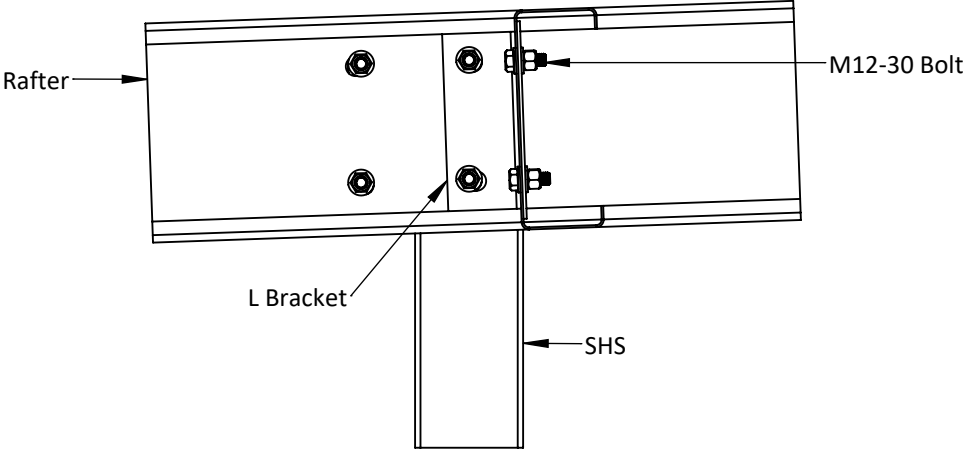


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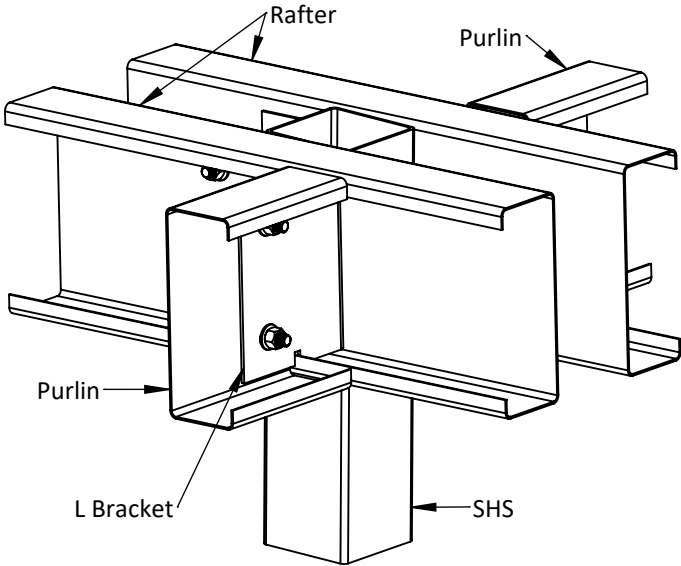
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	ADDRESS: Example Street, Suburb QLD 4444	DRAWN DATE: 2022-09-28	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 20 of 26



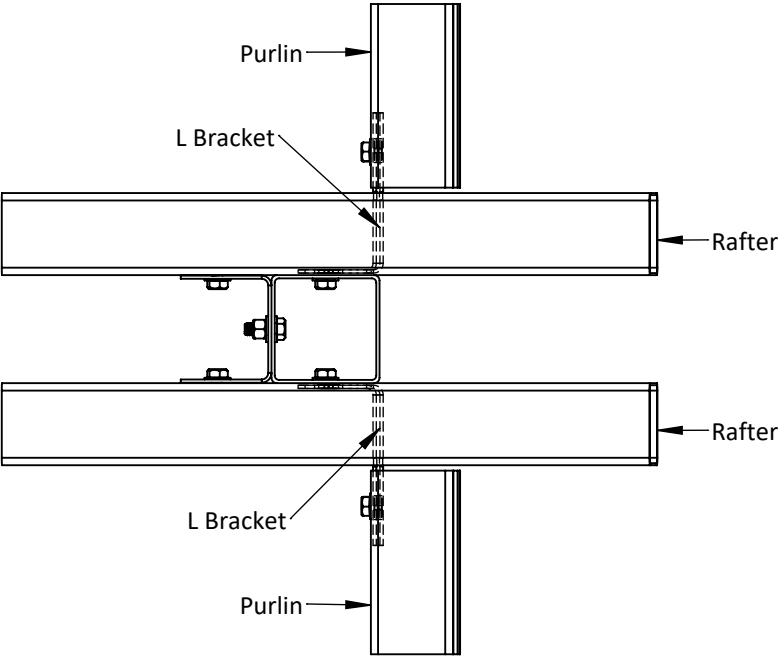
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Right-Click



ELEVATION



ISOMETRIC



PLAN



PROJECT:  
Example 7200 x 13200 x 2400 Region B1 Skillion

CLIENT:  
Example Customer

ADDRESS:  
Example Street, Suburb QLD 4444

PROJECT NUMBER:  
6464

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DRAWN DATE:  
2022-09-28

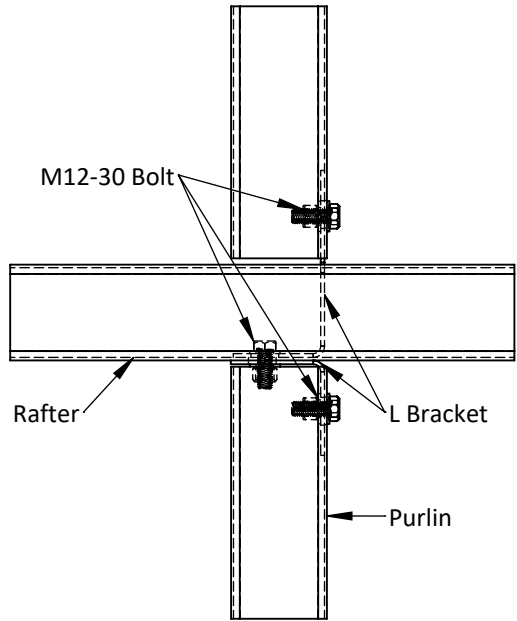
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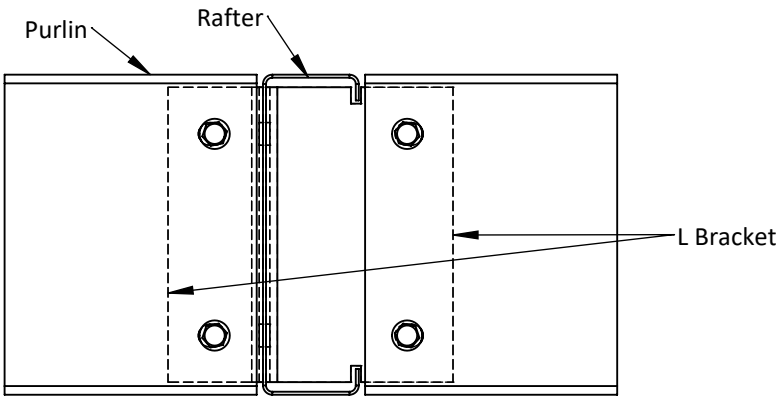
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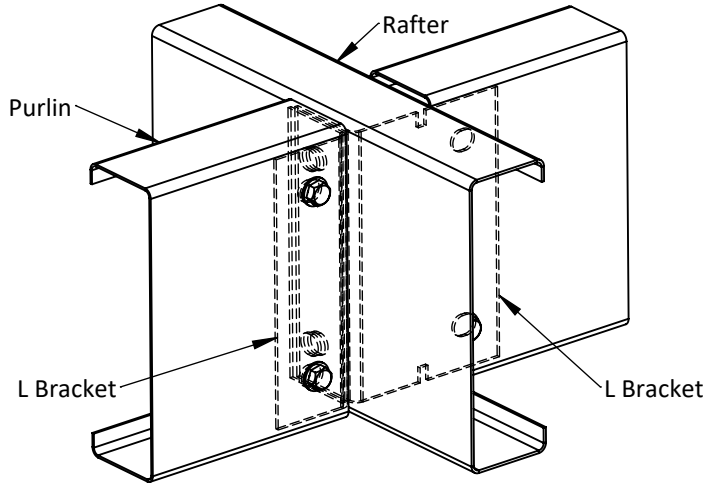
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PLAN



ELEVATION



ISOMETRIC



PROJECT:  
Example 7200 x 13200 x 2400 Region B1 Skillion

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6464

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2022-09-28

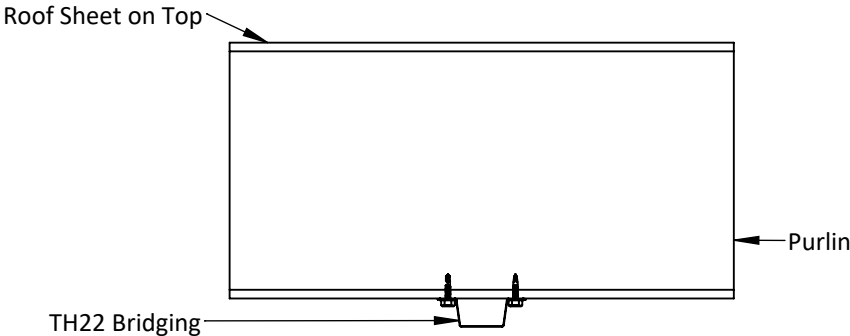
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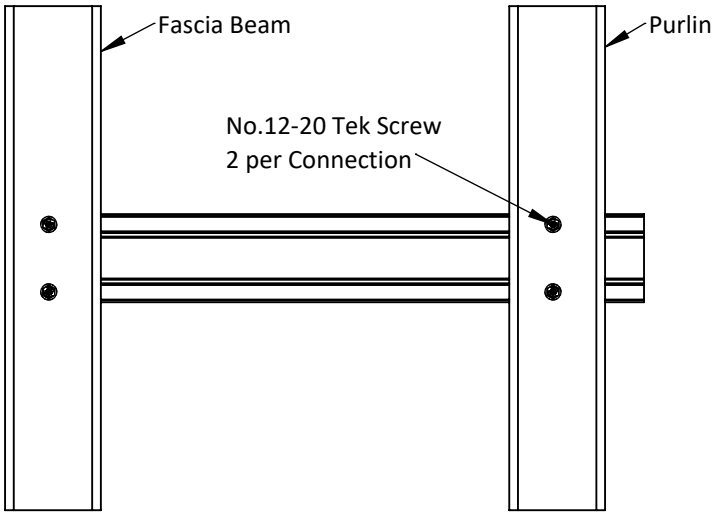
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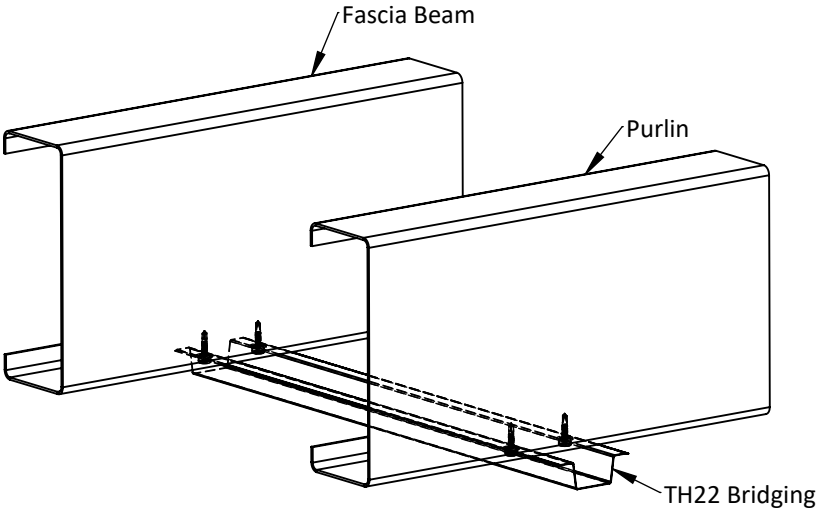
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ELEVATION



PLAN

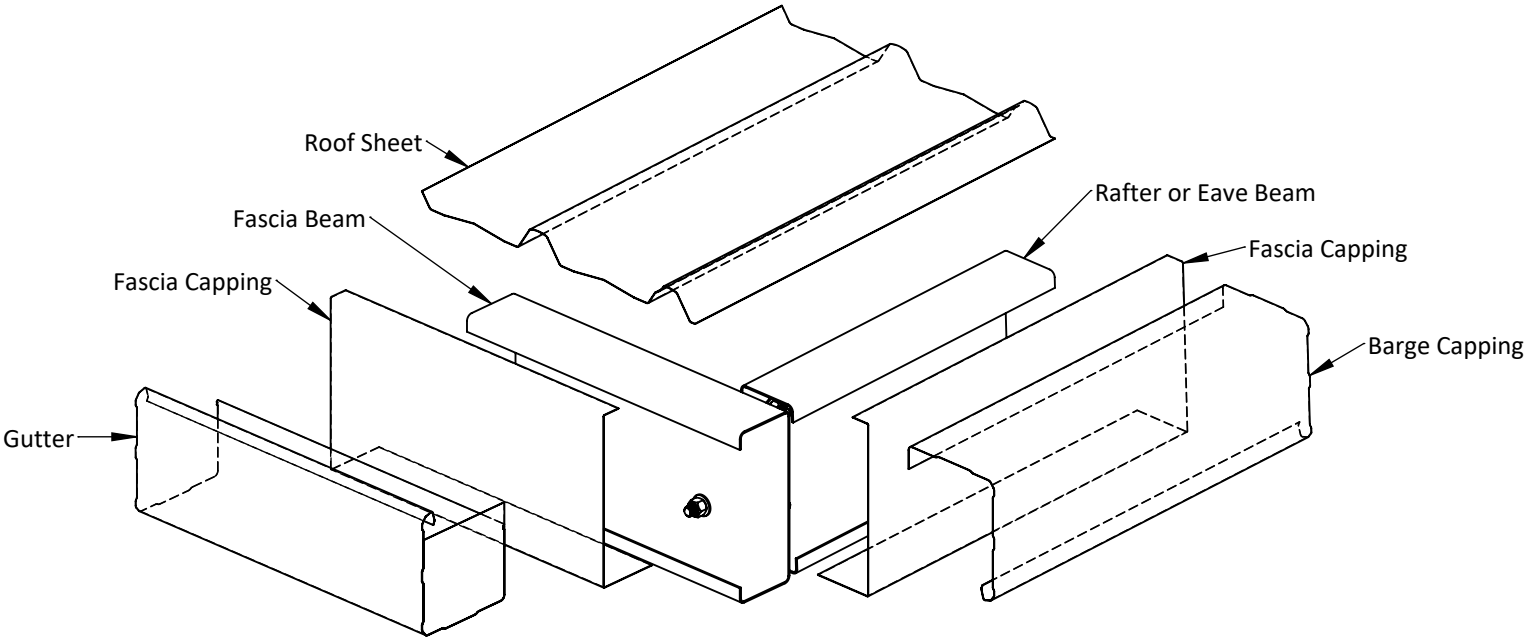


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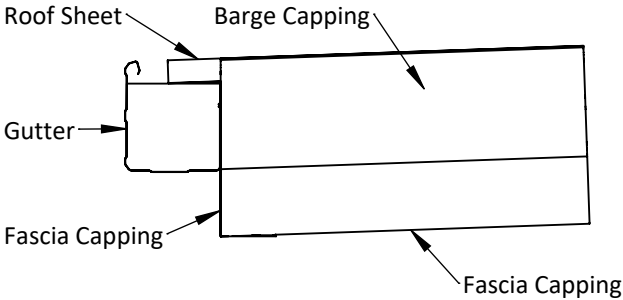
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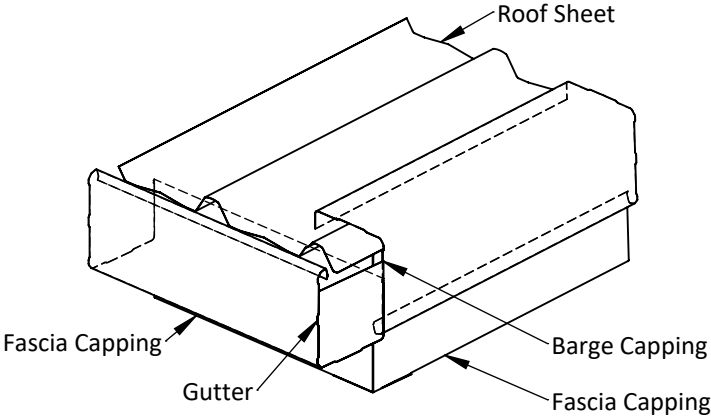
Video: Scan or  
Right-Click



EXPLODED VIEW



ELEVATION



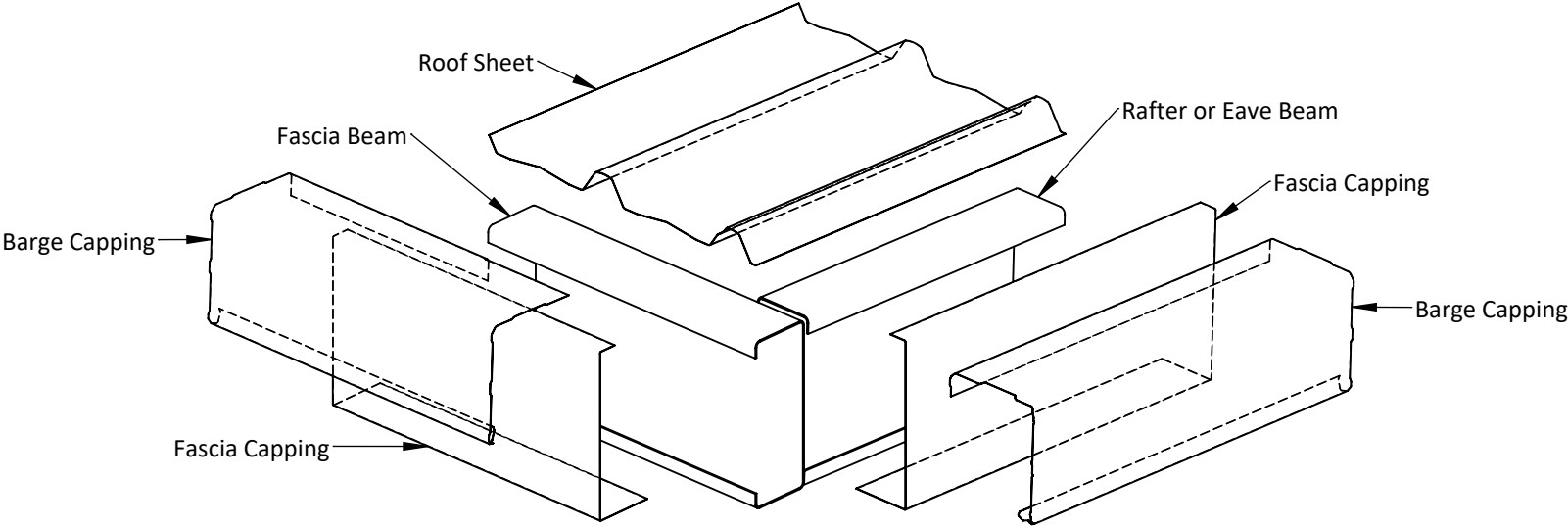
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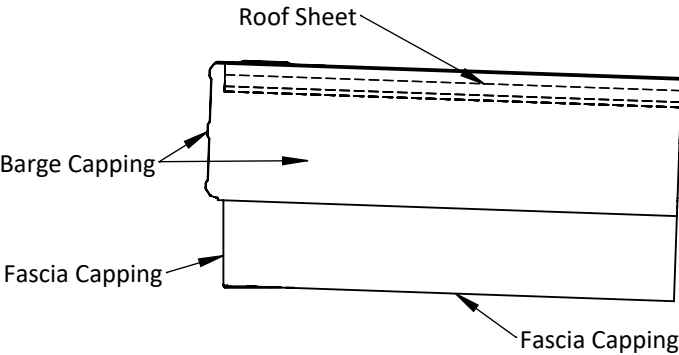




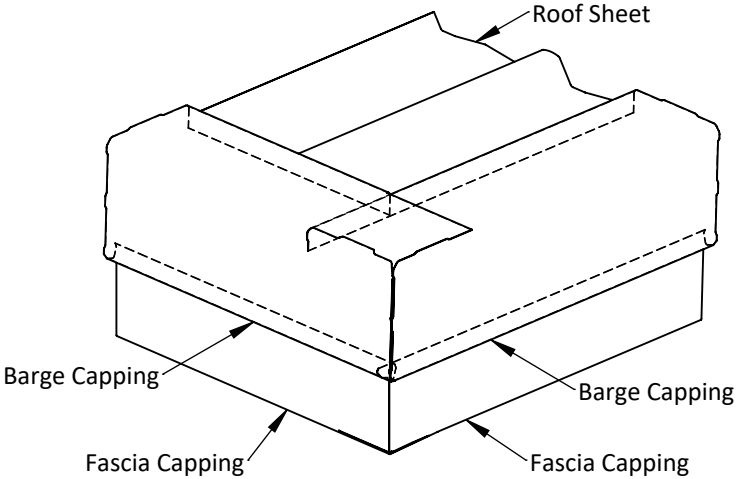
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EXPLODED VIEW



ELEVATION



ISOMETRIC

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<div>Technical Data</div> <div><div>Region</div><div>B1 · Regional Wind Speed 57 m/s</div><div>Terrain Category</div><div>2.5</div><div>Shielding</div><div>No</div><div>V<sub>design</sub></div><div>47.11 m/s</div><div>Q<sub>u</sub></div><div>1.332 kPa</div><div>Inward Load</div><div>0.653 kPa · max(0.495, 0.653)</div><div>Outward Load</div><div>0.616 kPa</div></div>		<div>BMT0.42 mm</div> <div>Bored Piers</div> <div><div>ØM · M<sub>u</sub></div><div>12.455 kNm</div><div>Uplift · V<sub>u</sub></div><div>10.344 kN</div><div>Shear · H<sub>u</sub></div><div>4.738 kN</div><div>Dimensions</div><div>350 mm diameter x 1200 mm deep</div></div> <div>Connection Calculations</div> <div><div>Connections · Rafters</div><div>2 x M12 4.6/S Bolts</div><div>Purlins</div><div>2 x M12 4.6/S Bolts</div><div>Connection Type</div><div>Rafter to Post</div><div>Components</div><div>2 x M12 4.6/S Bolts</div><div>Capacity Req</div><div>4.239 kN</div><div>Capacity</div><div>30.2 kN · 2 x M12 4.6/S Shear Capacity</div><div>1 x M12 4.6/S Bolt</div><div>Web Bearing Capacity</div><div>24.883 kN · 1.5 mm Gauge C-Section</div><div>31.519 kN · 1.9 mm Gauge C-Section</div><div>39.813 kN · 2.4 mm Gauge C-Section</div><div>Plate Bearing Capacity</div><div>49.766 kN · 3.0 mm Gauge Plate</div><div>Web Bearing Capacity</div><div>53.084 kN · 2.4 mm Gauge C-Section</div><div>66.355 kN · 3.0 mm Gauge C-Section</div><div>Plate Bearing Capacity</div><div>66.355 kN · 3.0 mm Gauge Plate</div><div>Tear Out Capacities</div><div>Plates</div><div>Minimum · Top Bolt</div><div>51.840 kN</div><div>Minimum · Bottom Bolt</div><div>77.760 kN</div></div>							
<div>Rafter Calculations</div> <div><div>Details · Member</div><div>C15019 with 2 rows of C15012 Bridging</div><div>Min Yield Stress · Grade · I<sub>x</sub></div><div>450 MPa · G450 · 2.02 x 10<sup>6</sup>mm<sup>4</sup> · Min = Minimum</div><div>Gov Span · Load Width</div><div>5900 mm · 2200 mm · Gov = Governing</div><div>Capacity · Req</div><div>1.437 kN/m · Req = Required</div><div>Member Capacity</div><div>1.800 kN/m · min(Inward, Outward)</div><div>Source: Lysaght® &amp; Stramit® Span Tables</div><div>ØM · Req</div><div>6.253 kNm</div><div>ØM</div><div>8.596 kNm · L<sub>ex</sub> 5900 · L<sub>ey</sub> 2021 · L<sub>ez</sub> 2021</div><div>Deflection</div><div>8.6 mm · 19.7 mm Permitted</div></div>									
<div>Purlin Calculations</div> <div><div>Details · Member</div><div>C15012 with 1 row of Bridging</div><div>Min Yield Stress · Grade · I<sub>x</sub></div><div>500 MPa · G500 · 1.29 x 10<sup>6</sup>mm<sup>4</sup></div><div>Gov Span · Load Width</div><div>3606 mm · 2021 mm</div><div>Capacity · Req</div><div>1.980 kN/m</div><div>Member Capacity</div><div>2.450 kN/m · min(Inward, Outward)</div><div>Source: Lysaght® &amp; Stramit® Span Tables</div><div>Deflection</div><div>2.9 mm · 12.0 mm Permitted</div></div>									
<div>Fascia Beam Calculations</div> <div><div>Member</div><div>C15012 with 1 row of Bridging</div><div>Min Yield Stress · Grade · I<sub>x</sub></div><div>500 MPa · G500 · 1.29 x 10<sup>6</sup>mm<sup>4</sup></div><div>Gov Span · Load Width</div><div>4200 mm · 300 mm</div><div>Capacity · Req</div><div>0.294 kN/m</div><div>Member Capacity</div><div>2.120 kN/m · min(Inward, Outward)</div><div>Source: Lysaght® and Stramit® Span Tables</div><div>Deflection</div><div>0.5 mm · 14.0 mm Permitted</div></div>									
<div>Post Calculations</div> <div><div>Base Connection</div><div>Cast In</div><div>Min Yield Stress</div><div>450 MPa</div><div>Uplift · Req</div><div>10.344 kN</div><div>Raking Force</div><div>Force Coefficients C<sub>f,x</sub></div><div>1.8 · AS/NZS 1170.2 Table C.5</div><div>Frame Spacing Ratio</div><div>13.296</div><div>Shielding Factors K<sub>sh</sub></div><div>1.000 · AS/NZS 1170.2 Table C.2</div><div>Req</div><div>4.738 kN per post</div><div>ØM · Req</div><div>12.455 kNm</div><div>ØM</div><div>13.900 kNm · 100x100x3</div><div>Source: OneSteel® DuraGal® Hollow Sections</div></div>									
<div>Cladding Details</div> <div><div>Product</div><div>BlueScope® Colorbond®</div><div>Min Yield Stress · Grade</div><div>550 MPa · G550</div><div>Profile</div><div>TrimDek®</div></div>									
<div><div><div><div></div><div></div><div></div></div><div>Your Logo Here</div></div></div>		<div>PROJECT:</div> <div>Example 7200 x 13200 x 2400 Region B1 Skillion</div>		<div>PROJECT NUMBER:</div> <div>6464</div>		<div>© 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 &amp; drawings are not to scale.</div> <div>Powered by dm3Solutions.com</div>			
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		<div>ADDRESS:</div> <div>Example Street, Suburb QLD 4444</div>		<div>DRAWN DATE:</div> <div>2022-09-28</div>		<div>ISSUE:</div> <div>1</div>	<div>SIZE:</div> <div>A4</div>	<div>SCALE:</div> <div>NTS</div>	<div>DRAWING NUMBER</div> <div>26 of 26</div>