
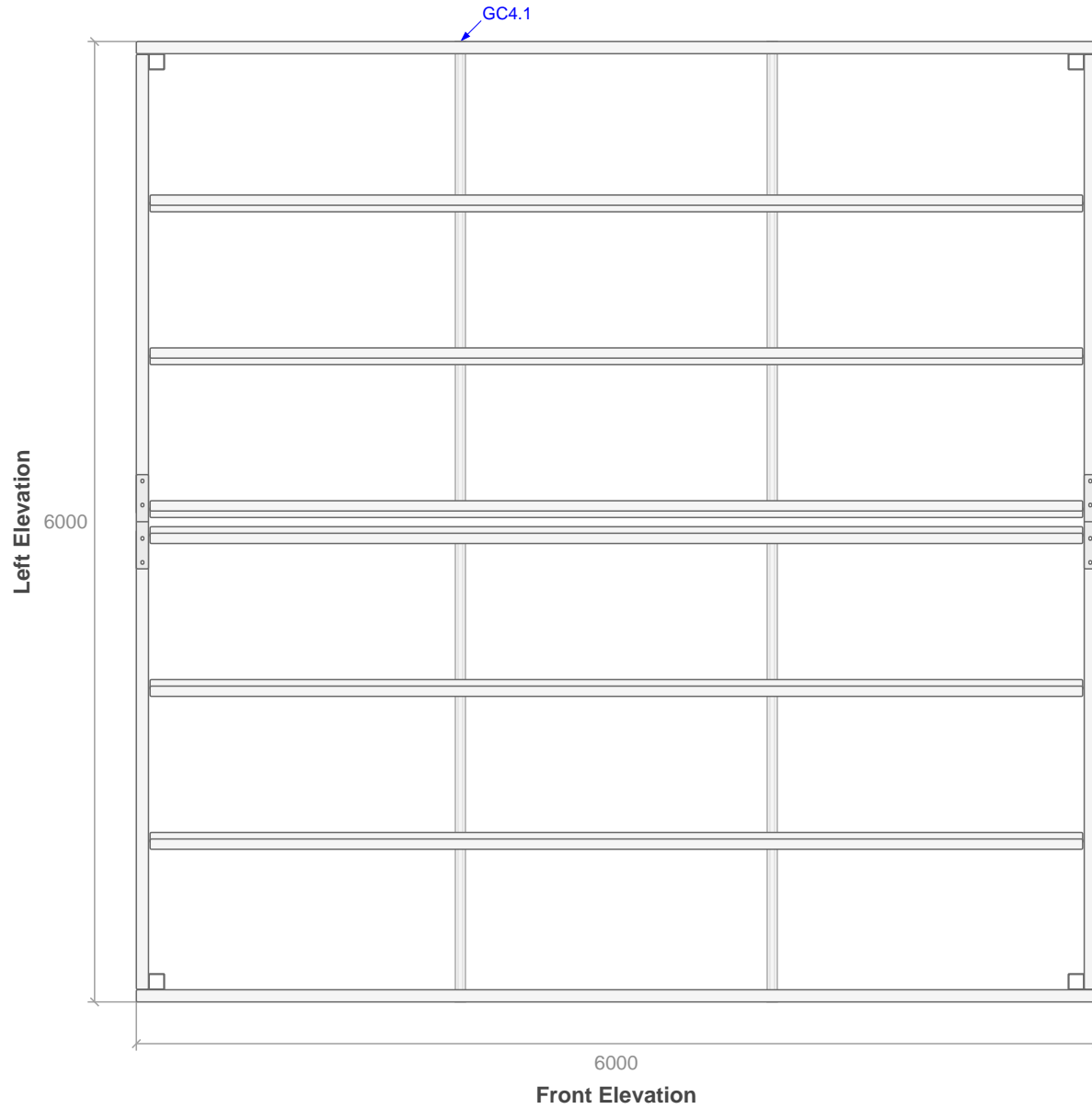


Note: Roof has been designed to support solar panels not exceeding 20 kg/m2. Solar panels to be installed within roof areas and parallel to roof sheets.

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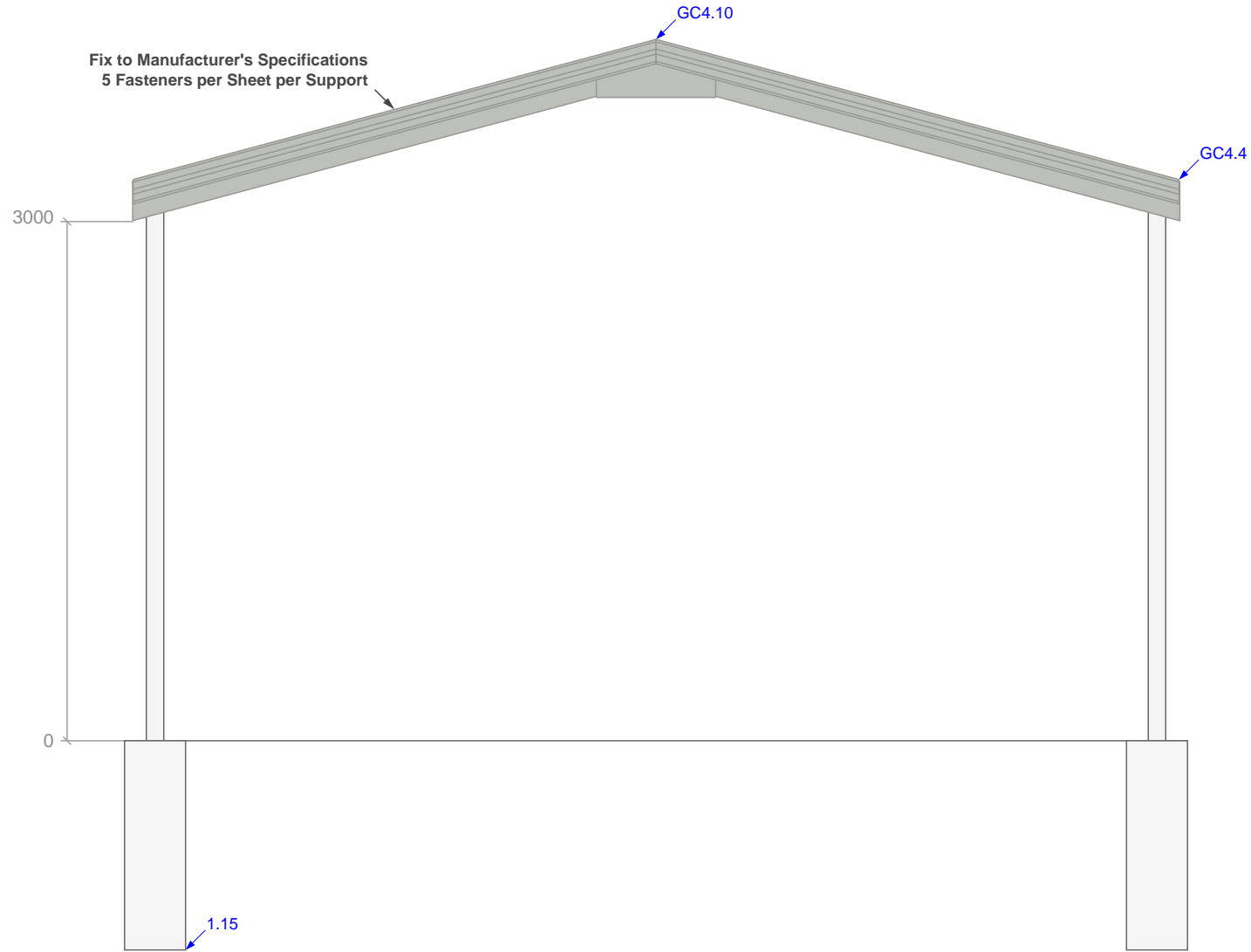
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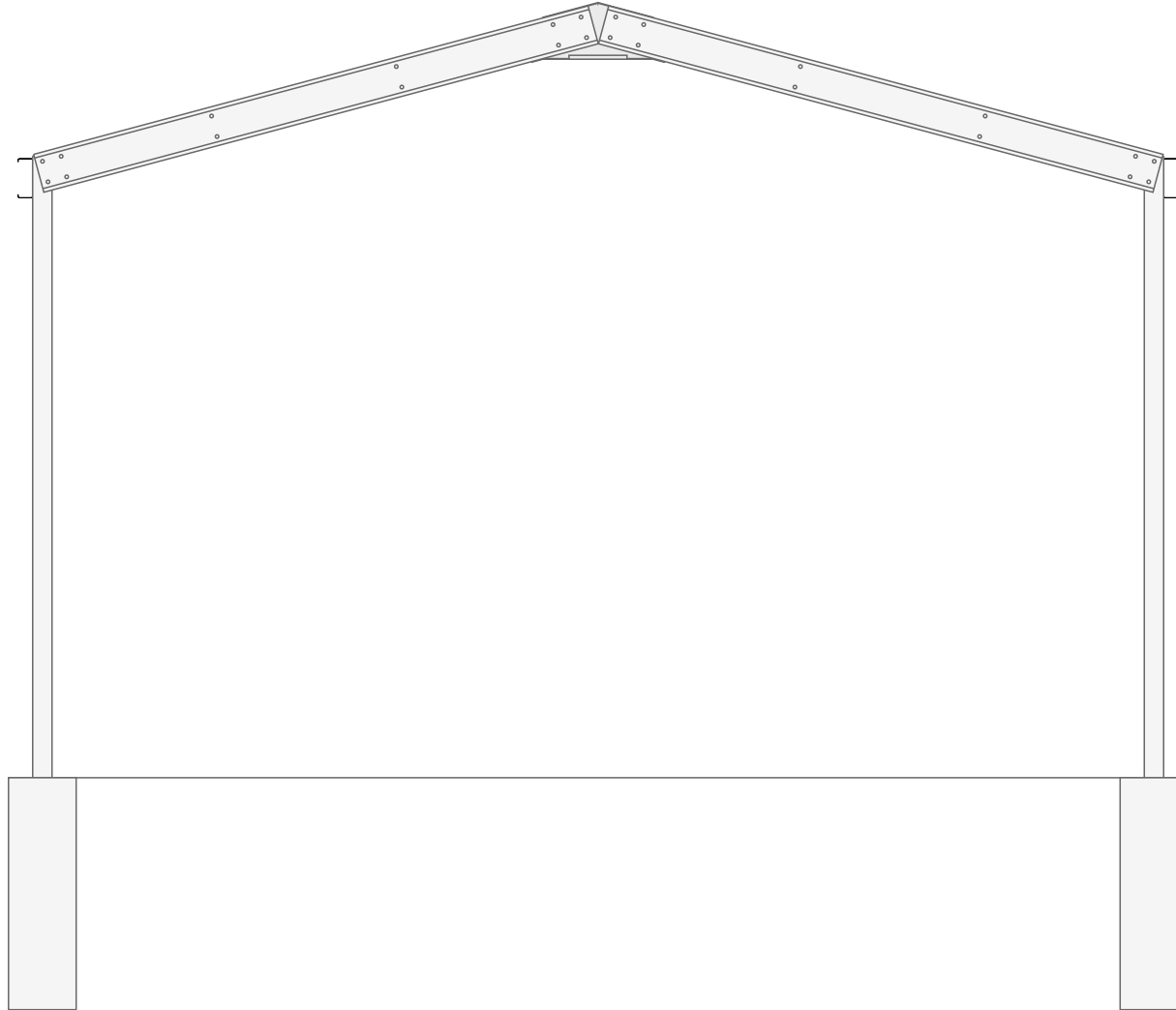


Note: Gutters & Downpipes not shown



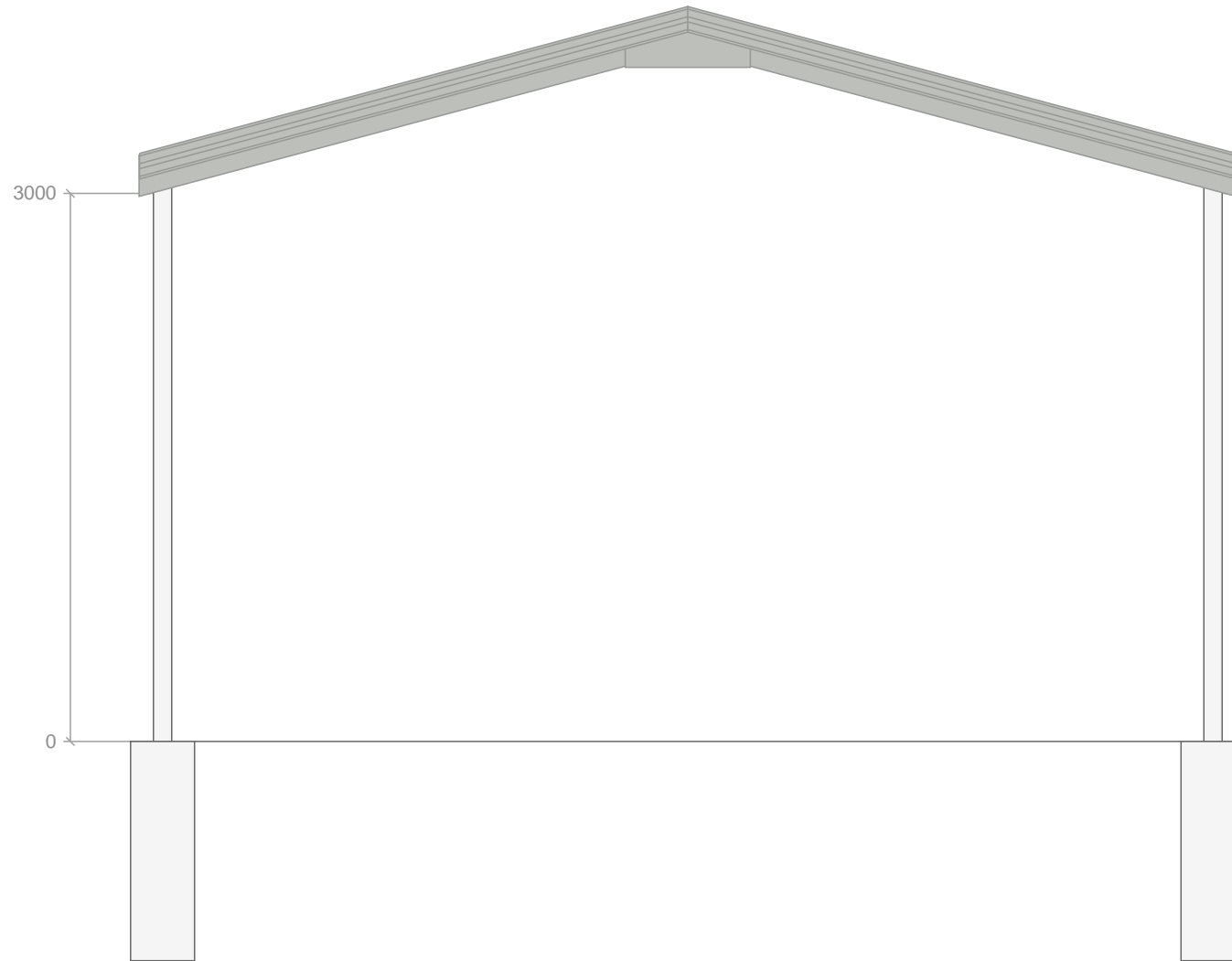
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ADDRESS:	DRAWN DATE: 2024-09-06	1	A4	NTS	7 of 21



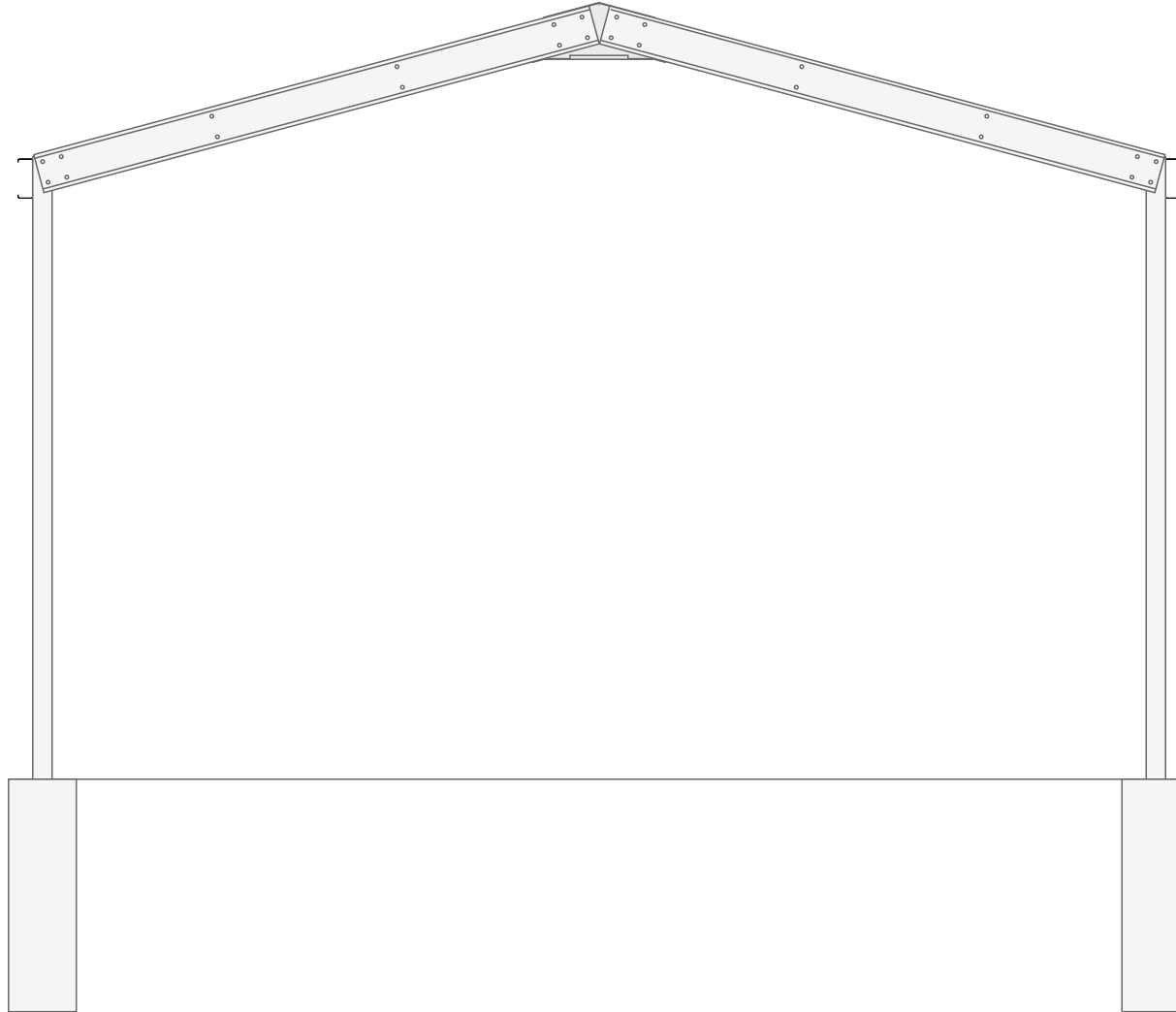
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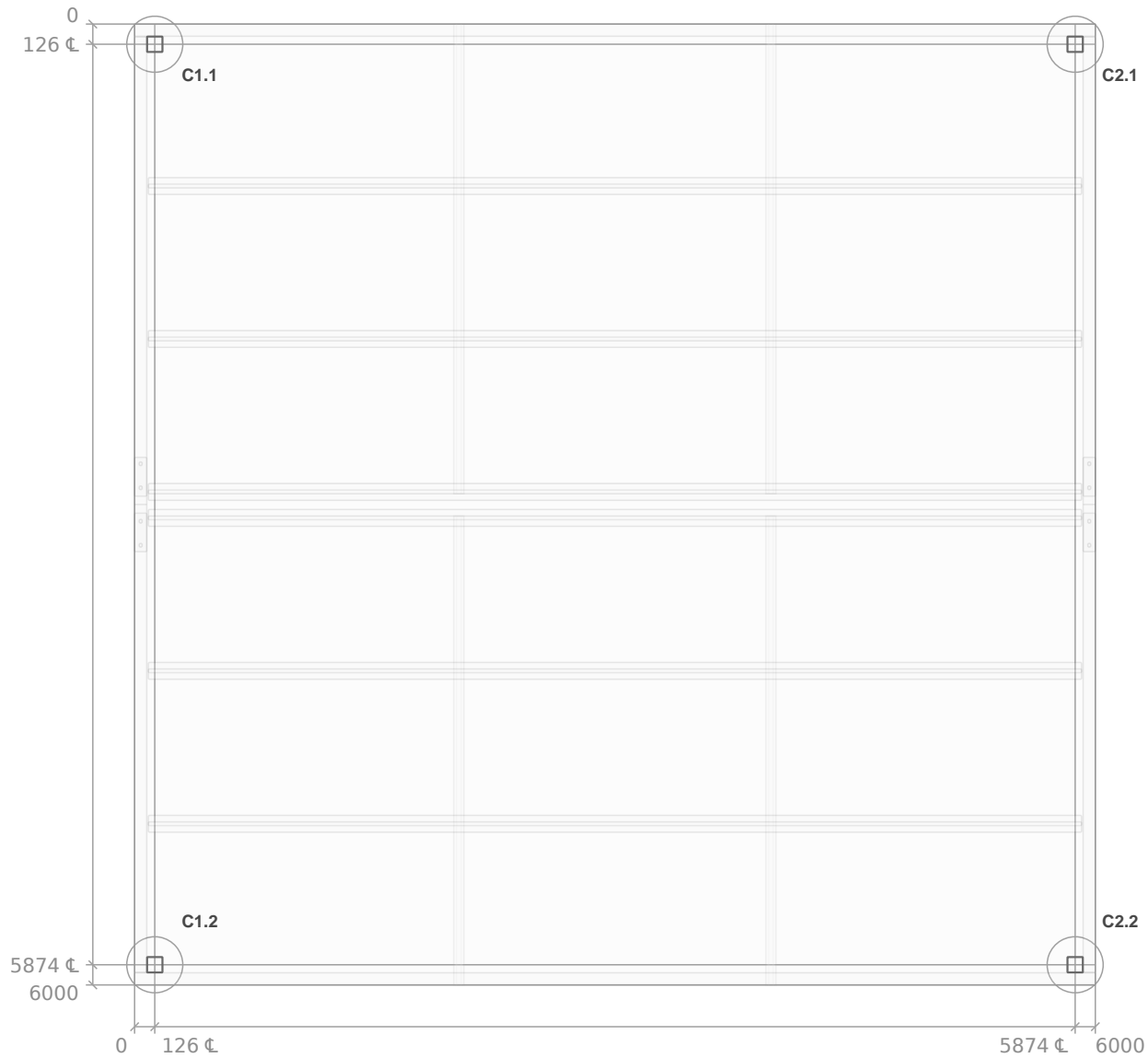
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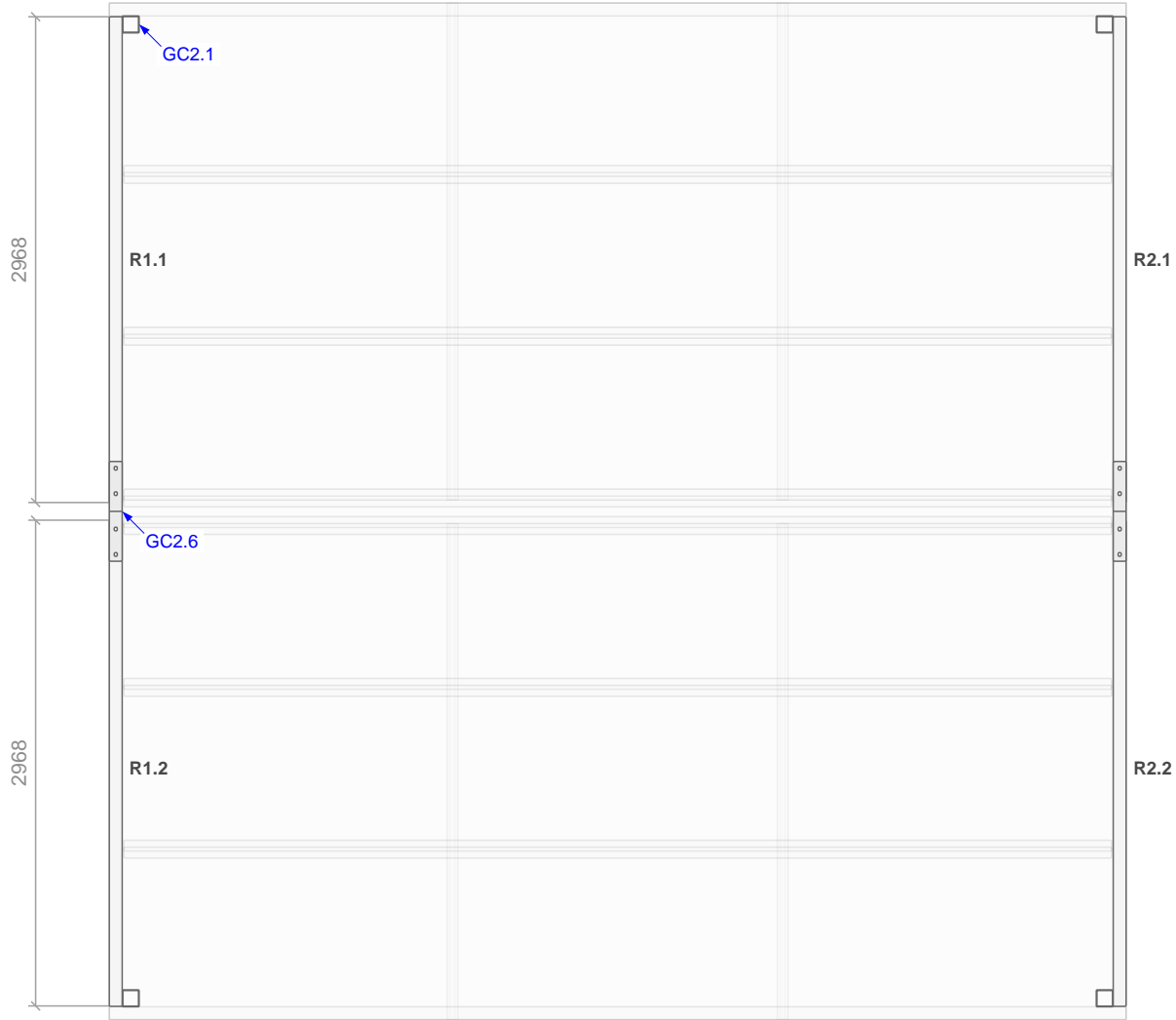


Post & Footing Detail: 100x100x4 Grade C450L0 in a Ø350 x 1200mm pier



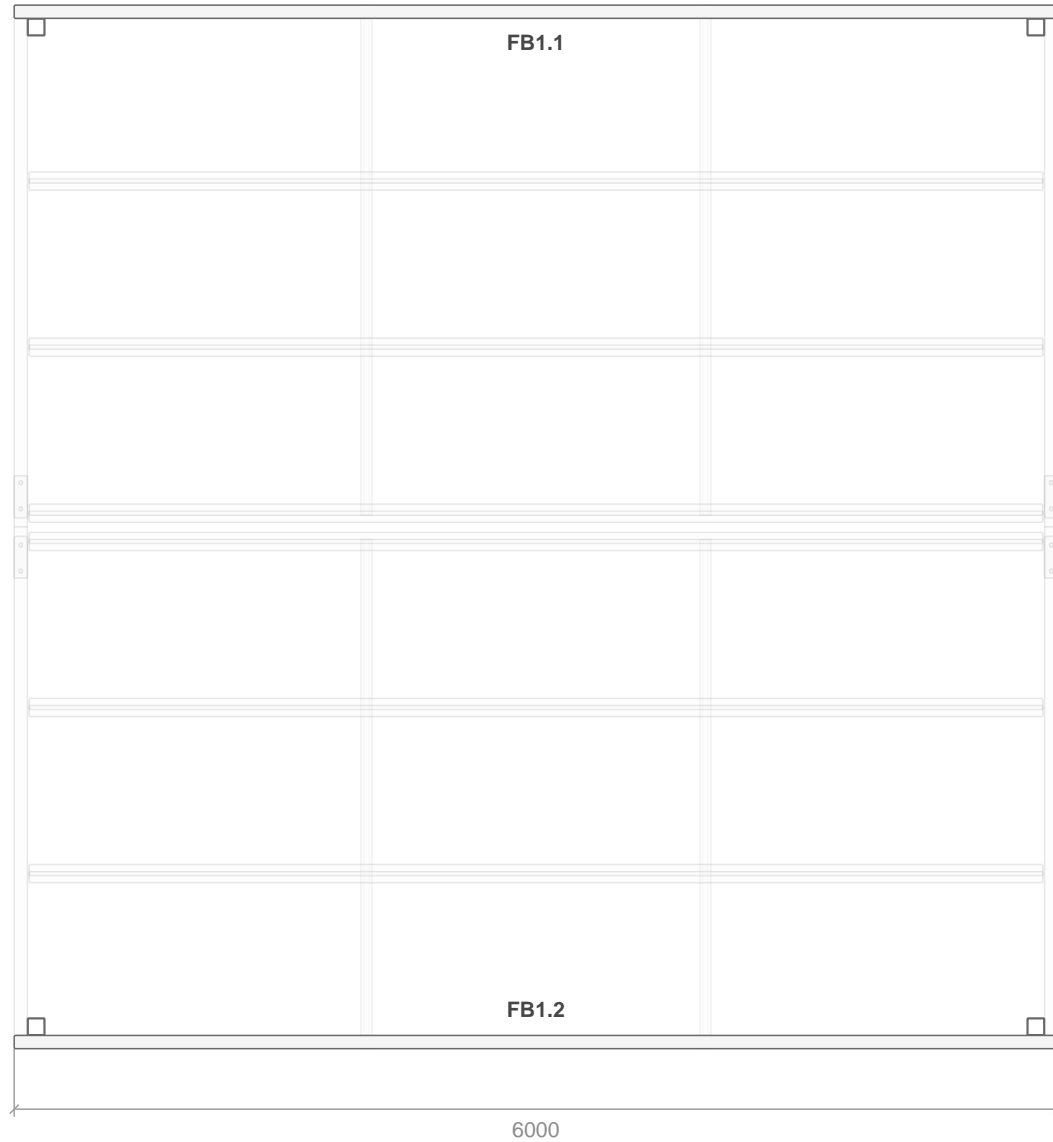
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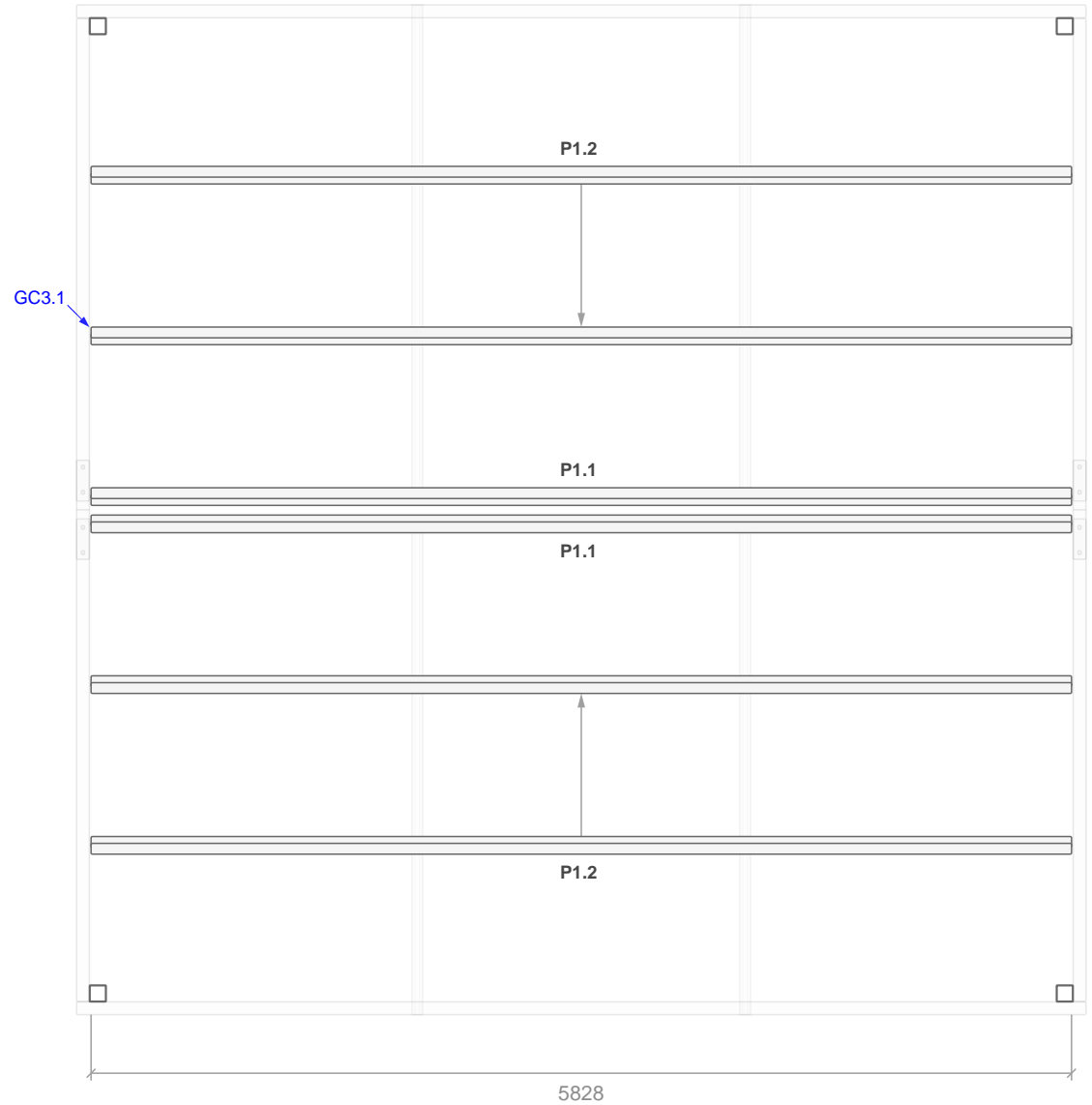
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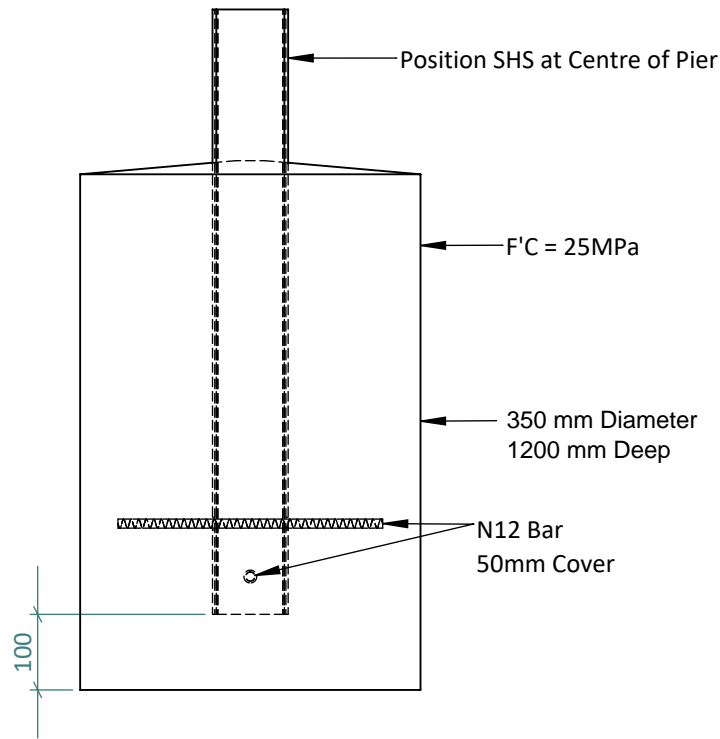


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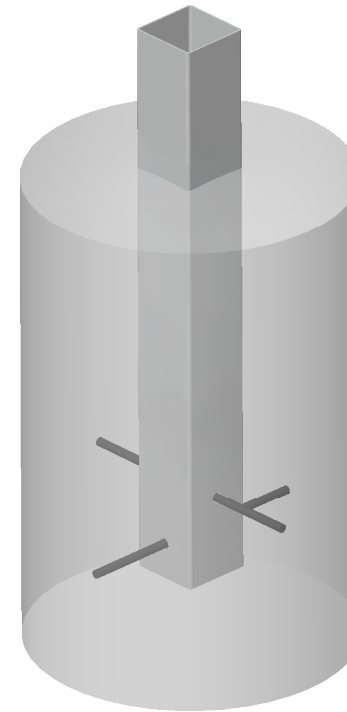
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Video: Scan or Right-Click



ELEVATION



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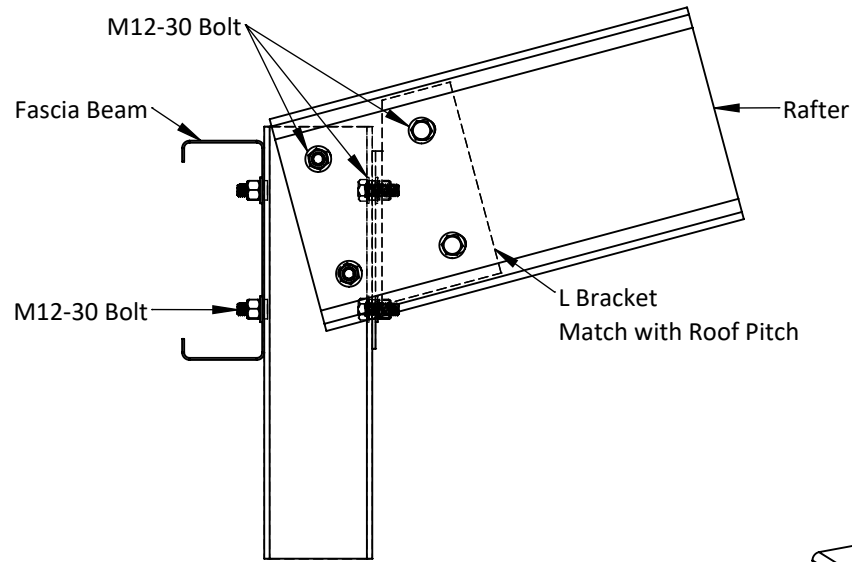
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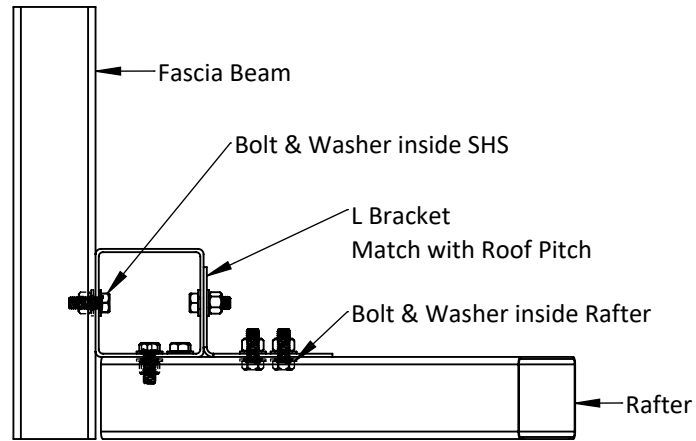
« Detail GC2.1: Rafter Connection Detail



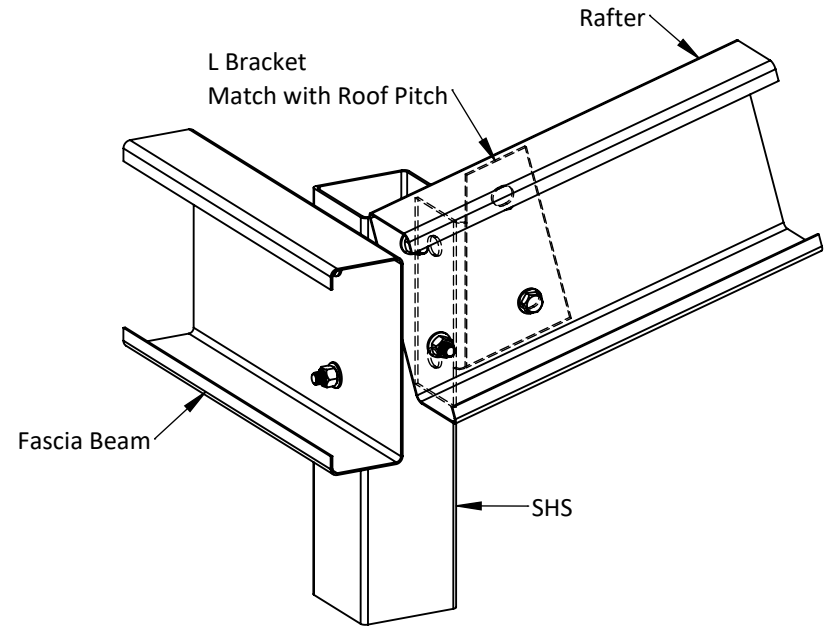
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PLAN



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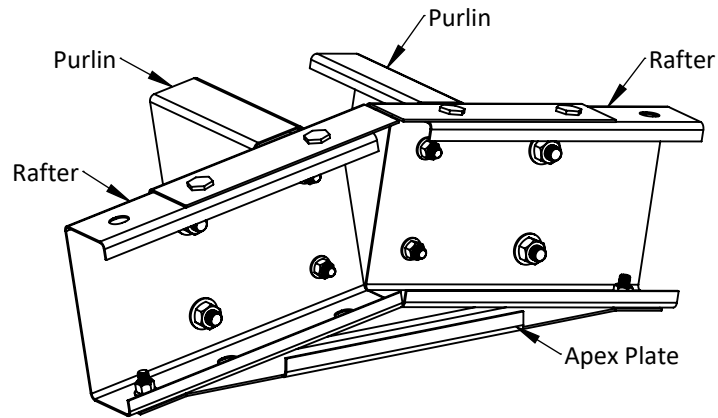
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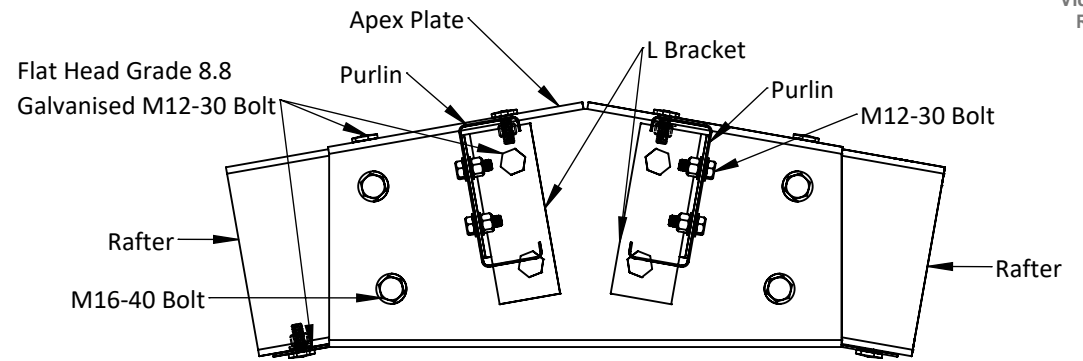
« Detail GC2.6: Apex Plate Connection Detail



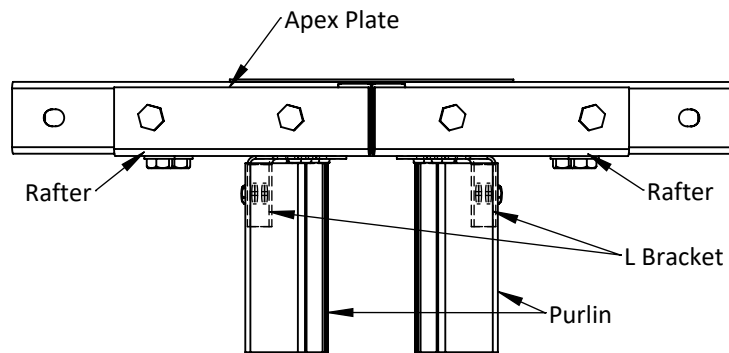
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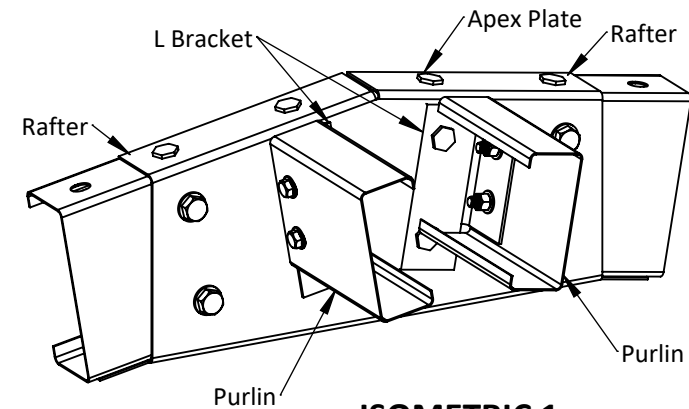
ISOMETRIC 2



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PLAN



ISOMETRIC 1



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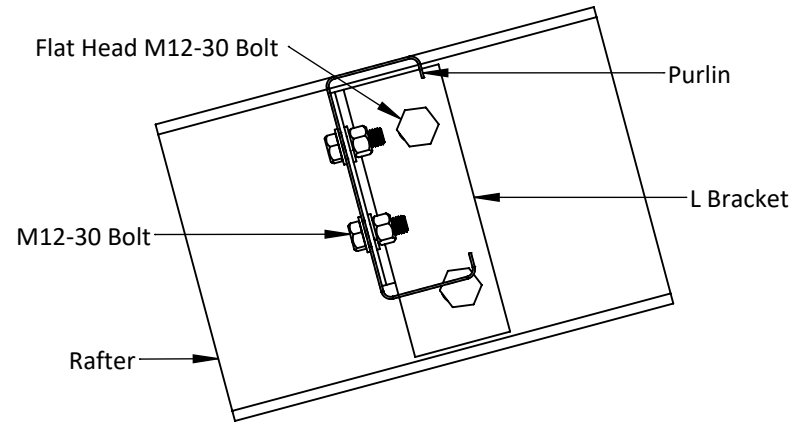
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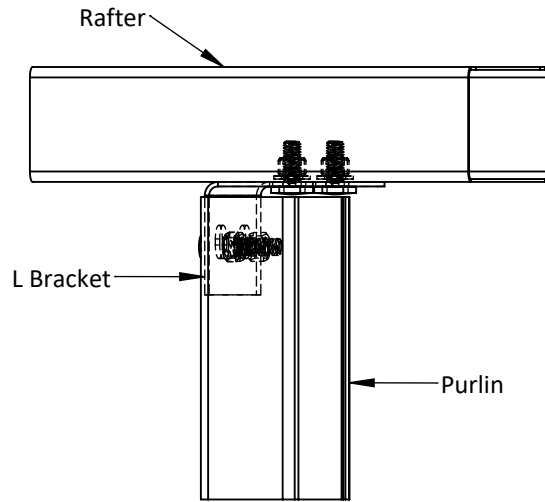
« Detail GC3.1: Purlin to Rafter Web Connection Detail



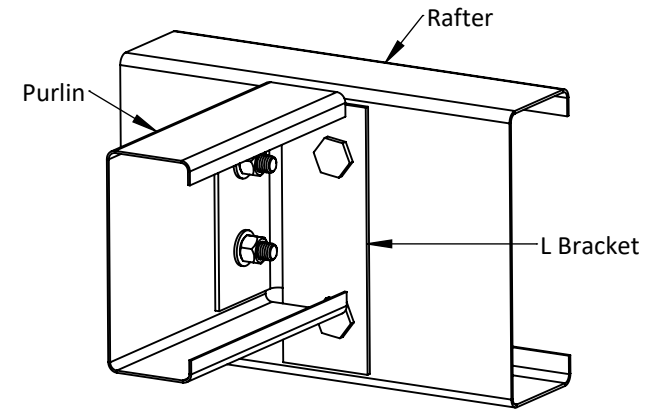
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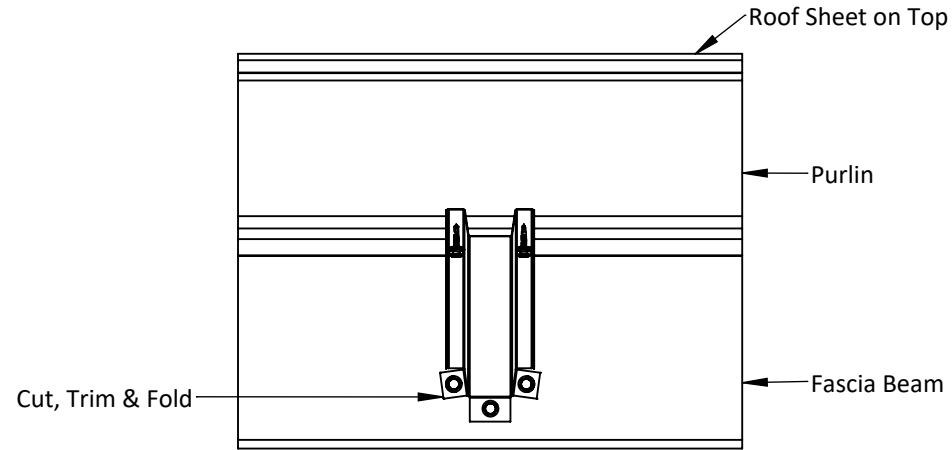
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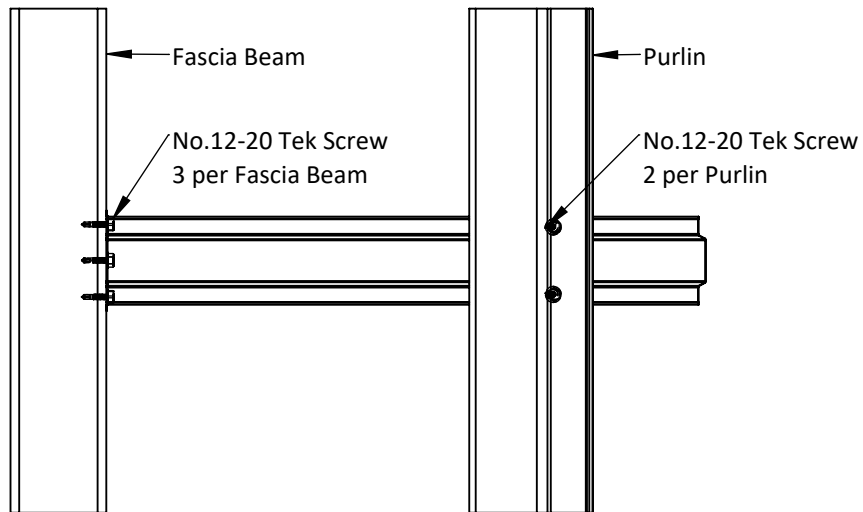
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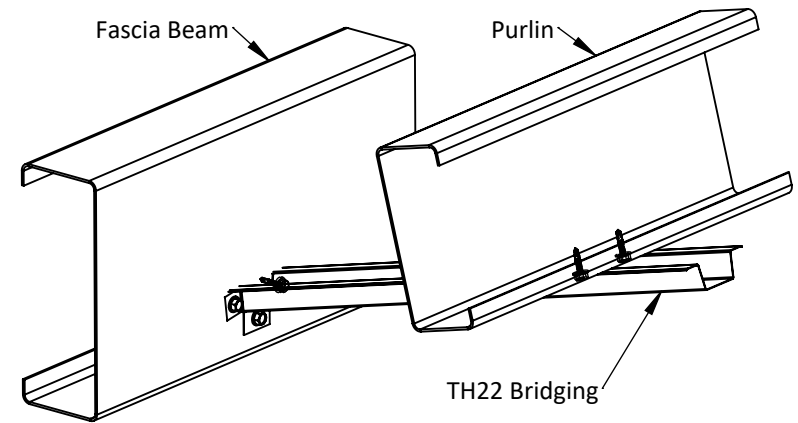
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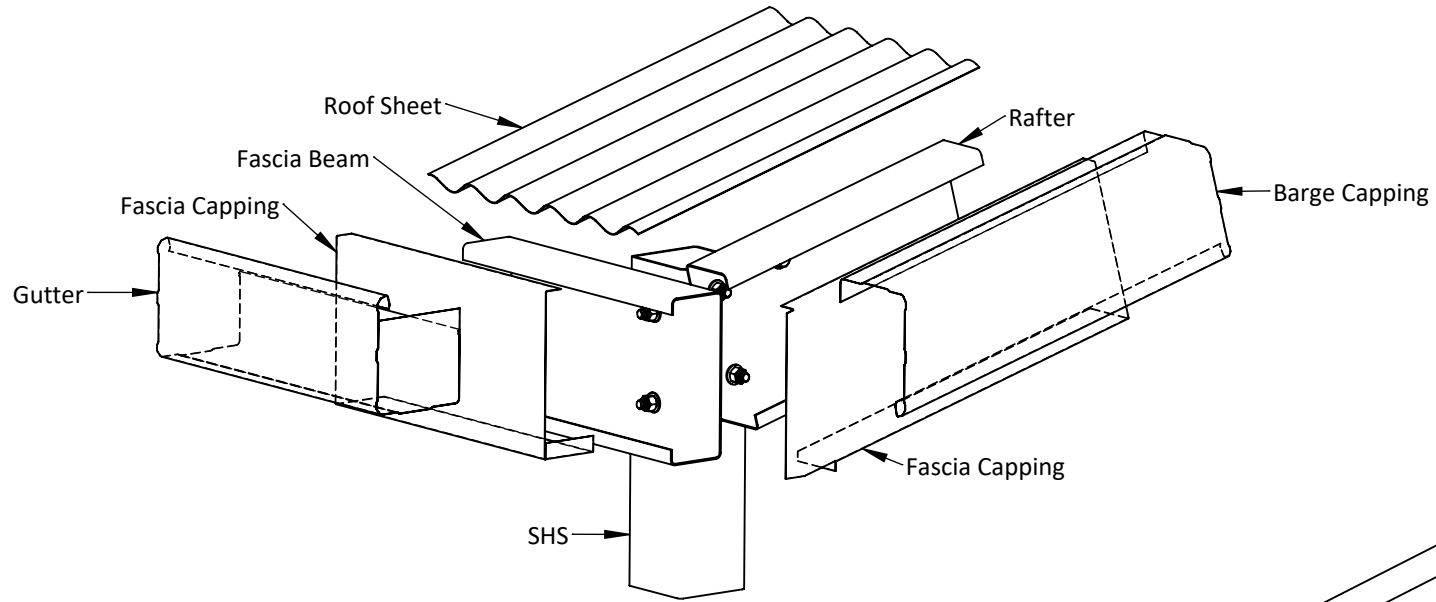
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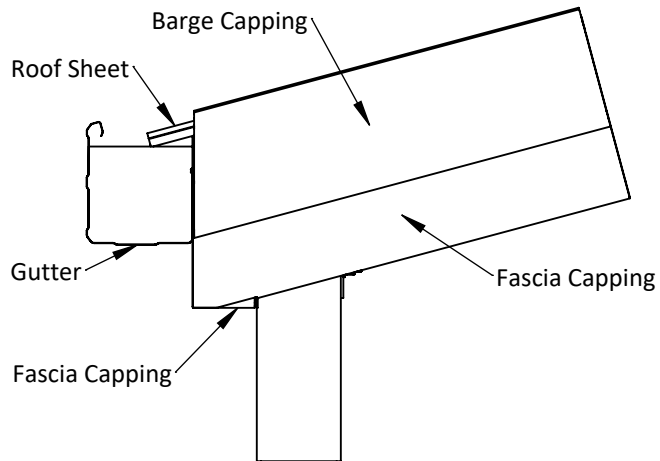
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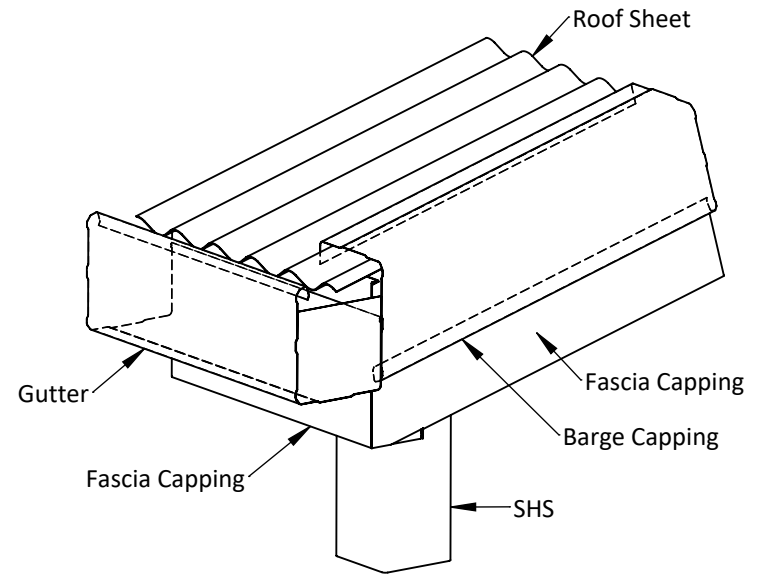
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EXPLODED VIEW



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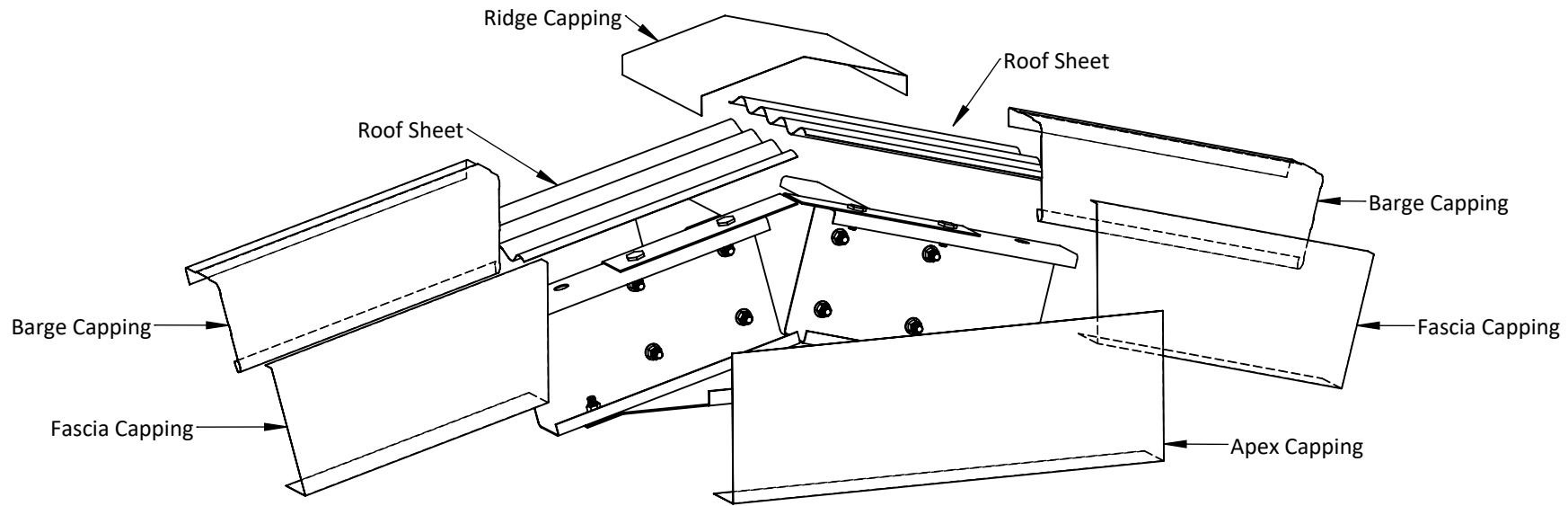
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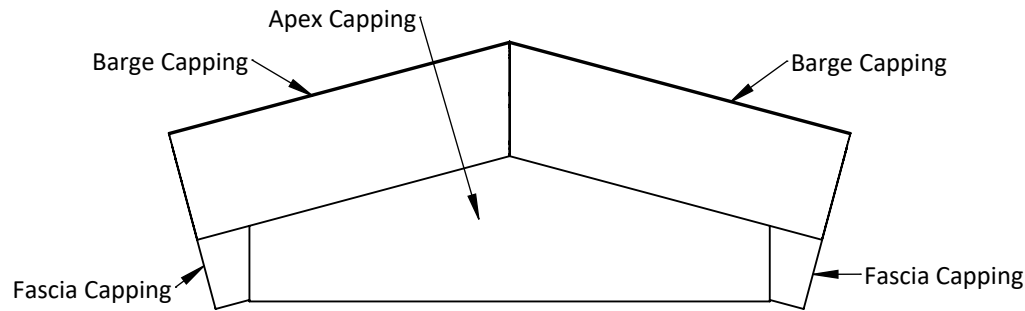
« Detail GC4.10: Apex Flashing Details



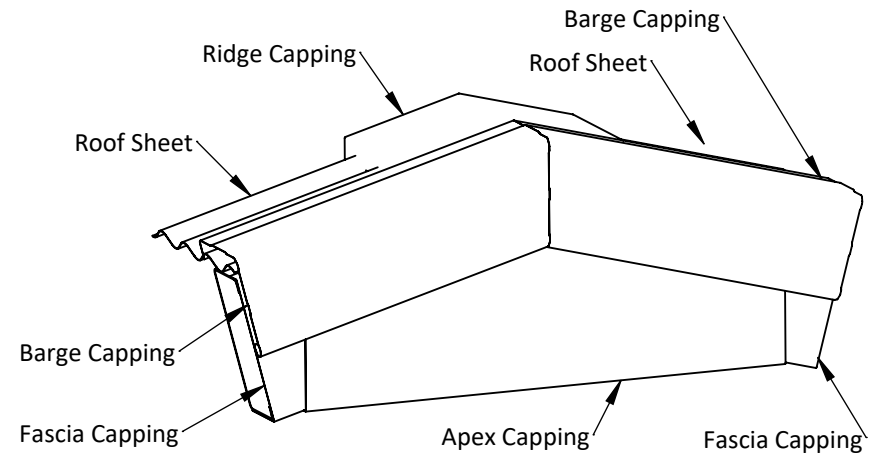
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EXPLODED VIEW



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Technical Data		Cladding Details	
Class 10a · Importance Level 2 Region B1 · Regional Wind Speed 57 m/s Terrain Category 2 Shielding No	Product BlueScope® Colorbond® Min Yield Stress · Grade 550 MPa · G550 Profile CustomOrb® BMT 0.48 mm		
Wind Speed Requirement · AS/NZS 1170.2		Bored Piers	
V_{design} 49.28 m/s · 177 km/h $V_R \times M_c \times M_d \times (M_{z,cat} \times M_s \times M_t)$ 57 x 1 x 0.95 x (0.91 x 1 x 1)	$\varnothing M_{U_i}$ 15.123 kNm Uplift V_u 8.487 kN Shear H_u 5.041 kN Dimensions 350 mm diameter x 1200 mm deep		
Load Requirements · AS/NZS 1170.0, 1170.1 & 1170.2		Connection Calculations	
Q_u 1.457 kPa Inward 0.943 kPa max(0.735, 0.943, 0.36) Outward 0.313 kPa max(0.167, 0.313)	Connections Rafters 2 x M12 4.6/S Bolts Purlins 2 x M12 4.6/S Bolts Connection Type Rafter to Post Components 2 x M12 4.6/S Bolts Capacity Required 8.131 kN Capacity 30.2 kN · 2 x M12 4.6/S Shear Capacity 1 x M12 4.6/S Bolt Web Bearing Capacity 24.883 kN · 1.5 mm C-Section 31.519 kN · 1.9 mm C-Section 39.813 kN · 2.4 mm C-Section Plate Bearing Capacity 49.766 kN · 3.0 mm Plate 1 x M16 8.8/S Bolt Web Bearing Capacity 53.084 kN · 2.4 mm C-Section 66.355 kN · 3.0 mm C-Section Plate Bearing Capacity 66.355 kN · 3.0 mm Plate Tear Out Capacities Minimum · Top Bolt 51.840 kN Minimum · Bottom Bolt 77.760 kN		
Rafter Calculations			
Details · Member C20019 with 2 rows of C15019 Bridging Min Yield Stress · Grade · I_x 450 MPa · G450 · 4.51 x 10⁶mm⁴ Gov Span · Load Width 5748 mm · 3000 mm Capacity Required 2.829 kN/m Member Capacity 11.250 kN/m · min(Inward, Outward) Source: Lysaght® & Stramit® Span Tables $\varnothing M$ Required 11.684 kNm Member $\varnothing M$ 14.823 kNm · L_{ex} 2883 · L_{ey} 989 · L_{ez} 989 Deflection Actual 14.2 mm Permitted 19.2 mm · Span/300 · 1170.0 Table C1			
Purlin Calculations			
Details · Member C15019 with 2 rows of Bridging Min Yield Stress · Grade · I_x 450 MPa · G450 · 2.02 x 10⁶mm⁴ Gov Span · Load Width 5768 mm · 989 mm Capacity Required 1.399 kN/m Member Capacity 1.800 kN/m · min(Inward, Outward) Source: Lysaght® & Stramit® Span Tables Deflection Actual 10.6 mm Permitted 19.2 mm · Span/300 · 1170.0 Table C1			
Fascia Beam Calculations			
Member C20015 with 2 rows of Bridging Min Yield Stress · Grade · I_x 450 MPa · G450 · 3.53 x 10⁶mm⁴ Gov Span · Load Width 5748 mm · 495 mm Capacity Required 0.700 kN/m Member Capacity 1.850 kN/m · min(Inward, Outward) Source: Lysaght® and Stramit® Span Tables Deflection Actual 3.0 mm Permitted 19.2 mm · Span/300 · 1170.0 Table C1			
Post Calculations			
Base Connection Cast In Min Yield Stress 450 MPa Uplift Required 8.487 kN RF Required 5.041 kN · RF = Raking Force $\varnothing M$ Required 15.123 kNm Member $\varnothing M$ 21.000 kNm · 100x100x4 Source: OneSteel® DuraGal® Hollow Sections			



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