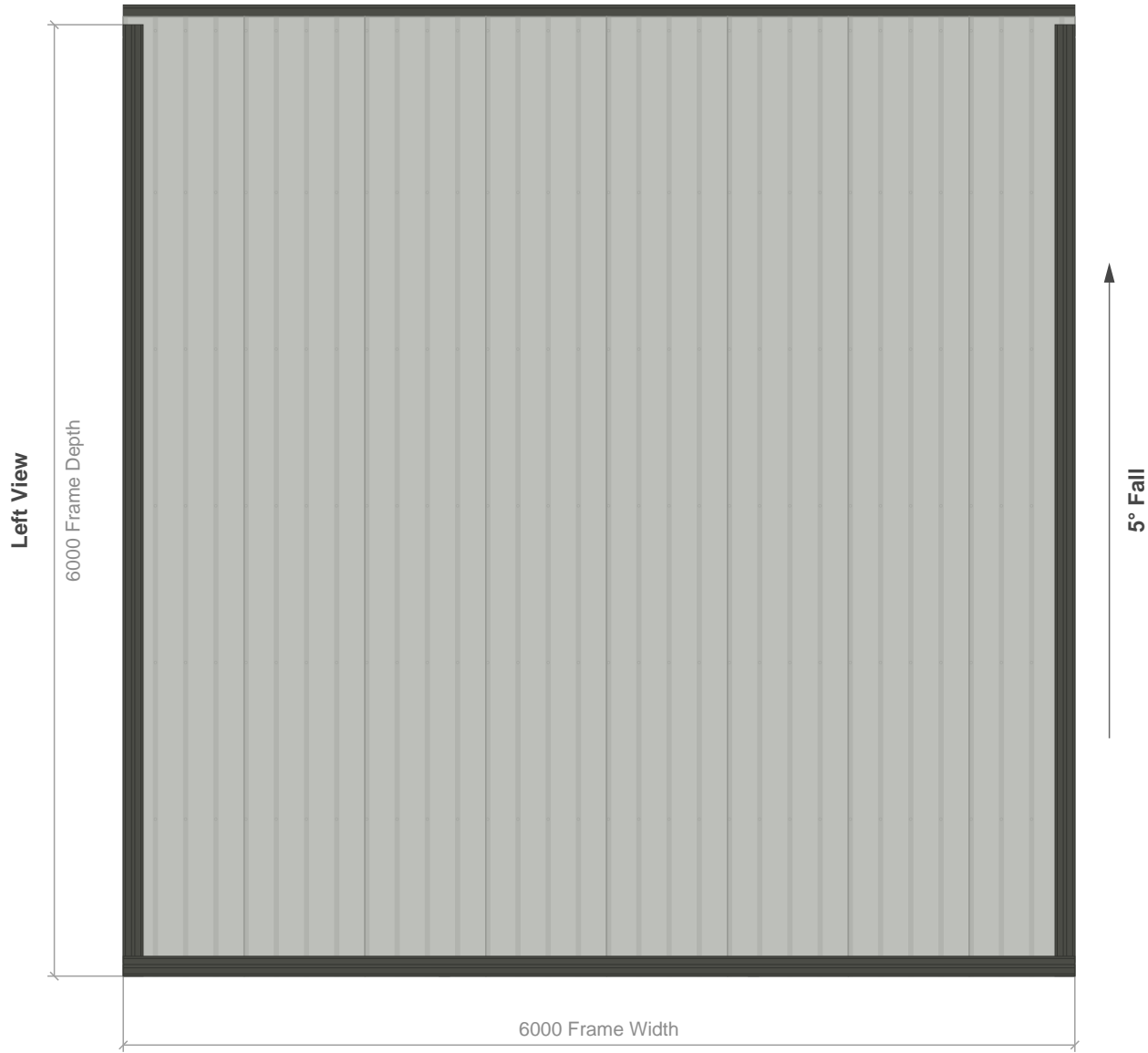


Back View - Low/Gutter Side



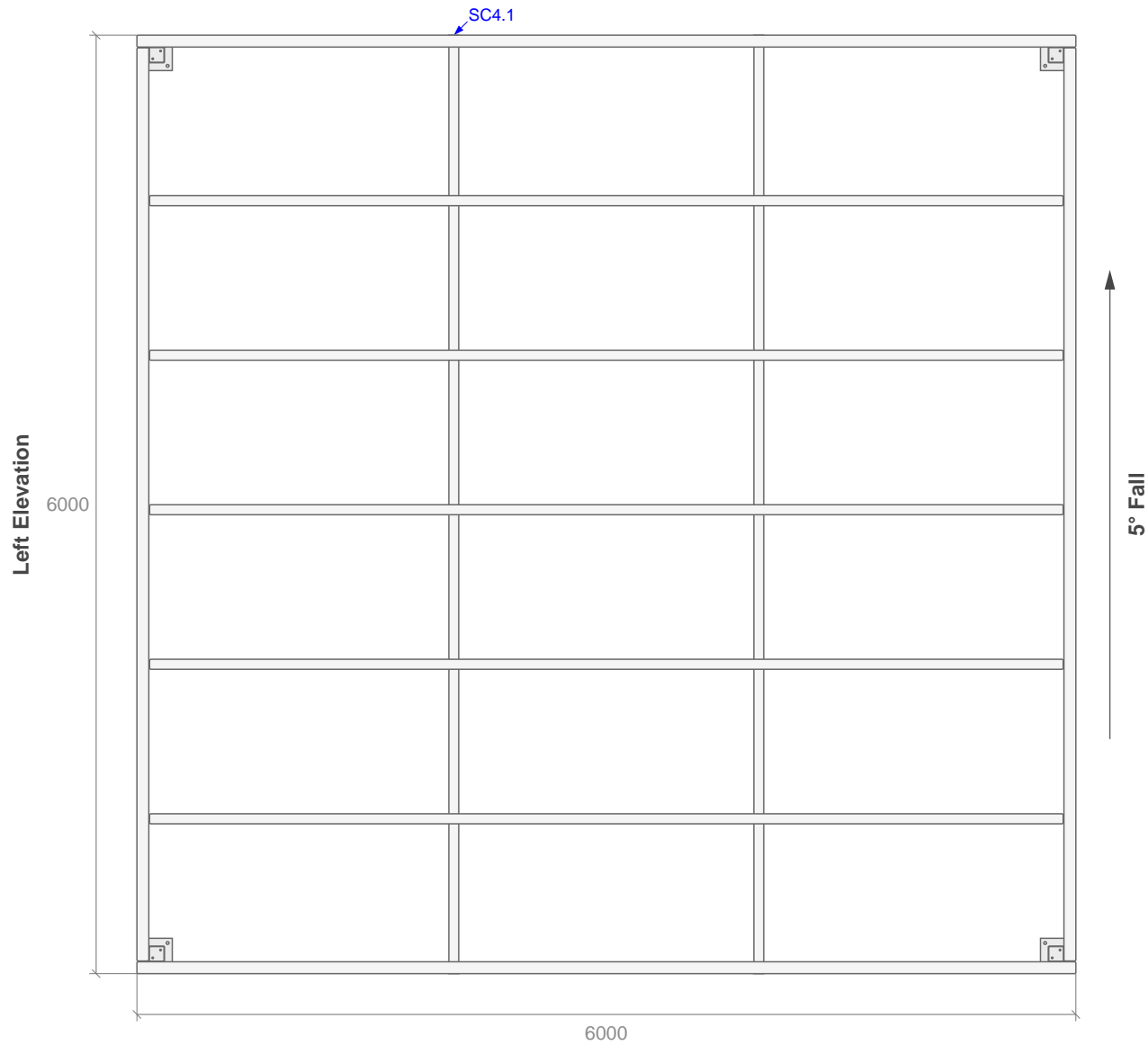
Note: Roof has been designed to support solar panels not exceeding 20 kg/m2. Solar panels to be installed within roof areas and parallel to roof sheets.

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Back Elevation



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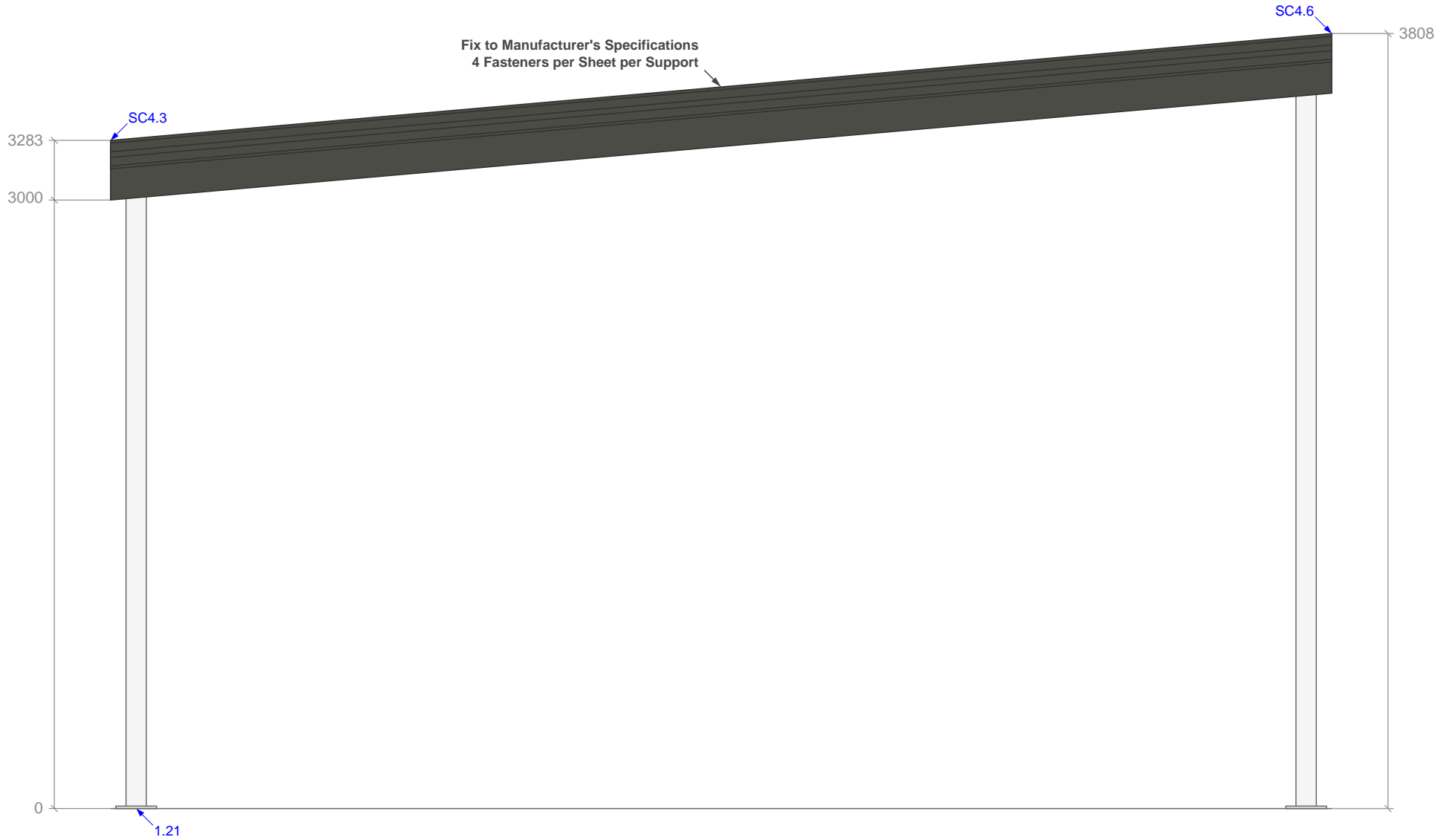


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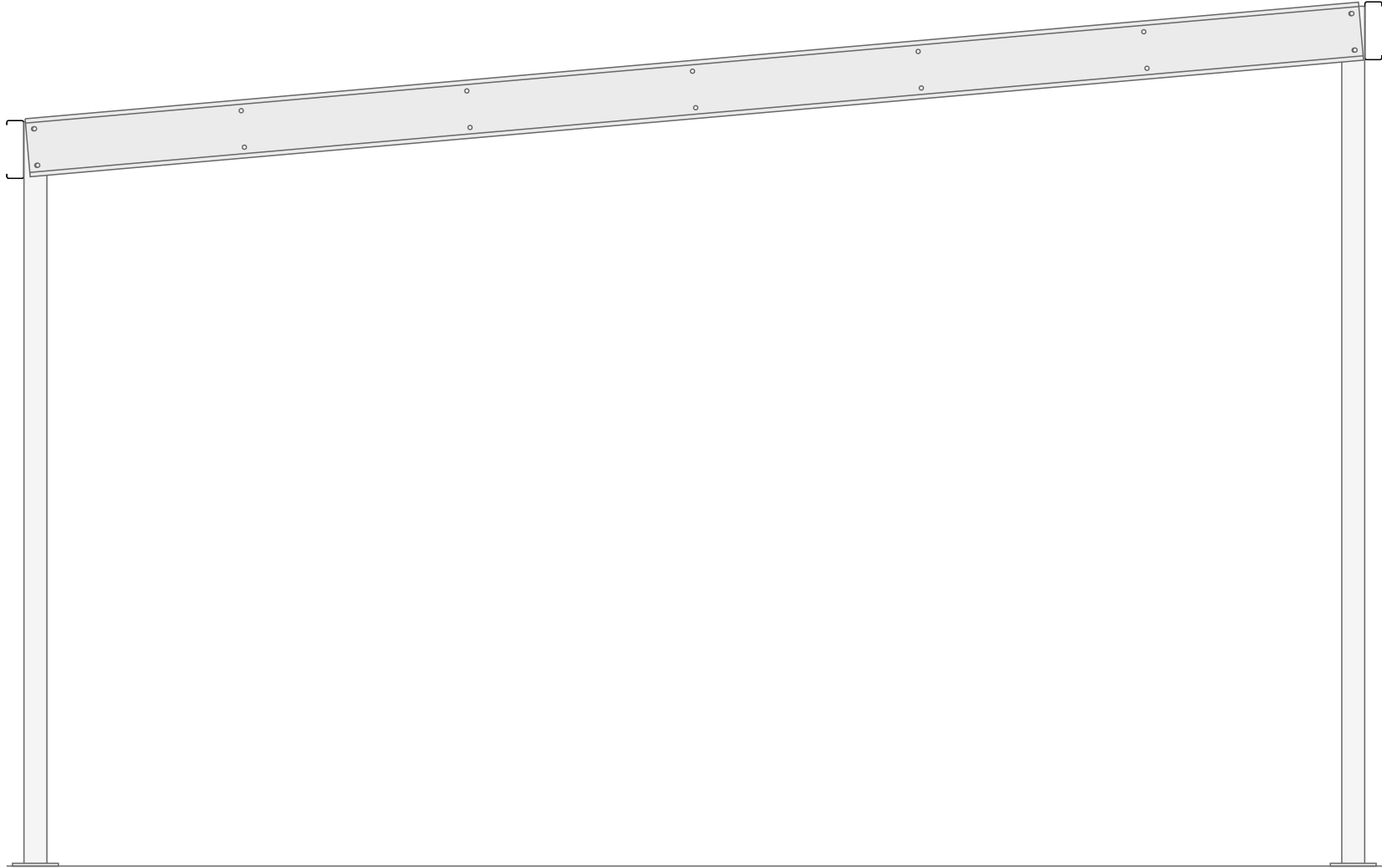
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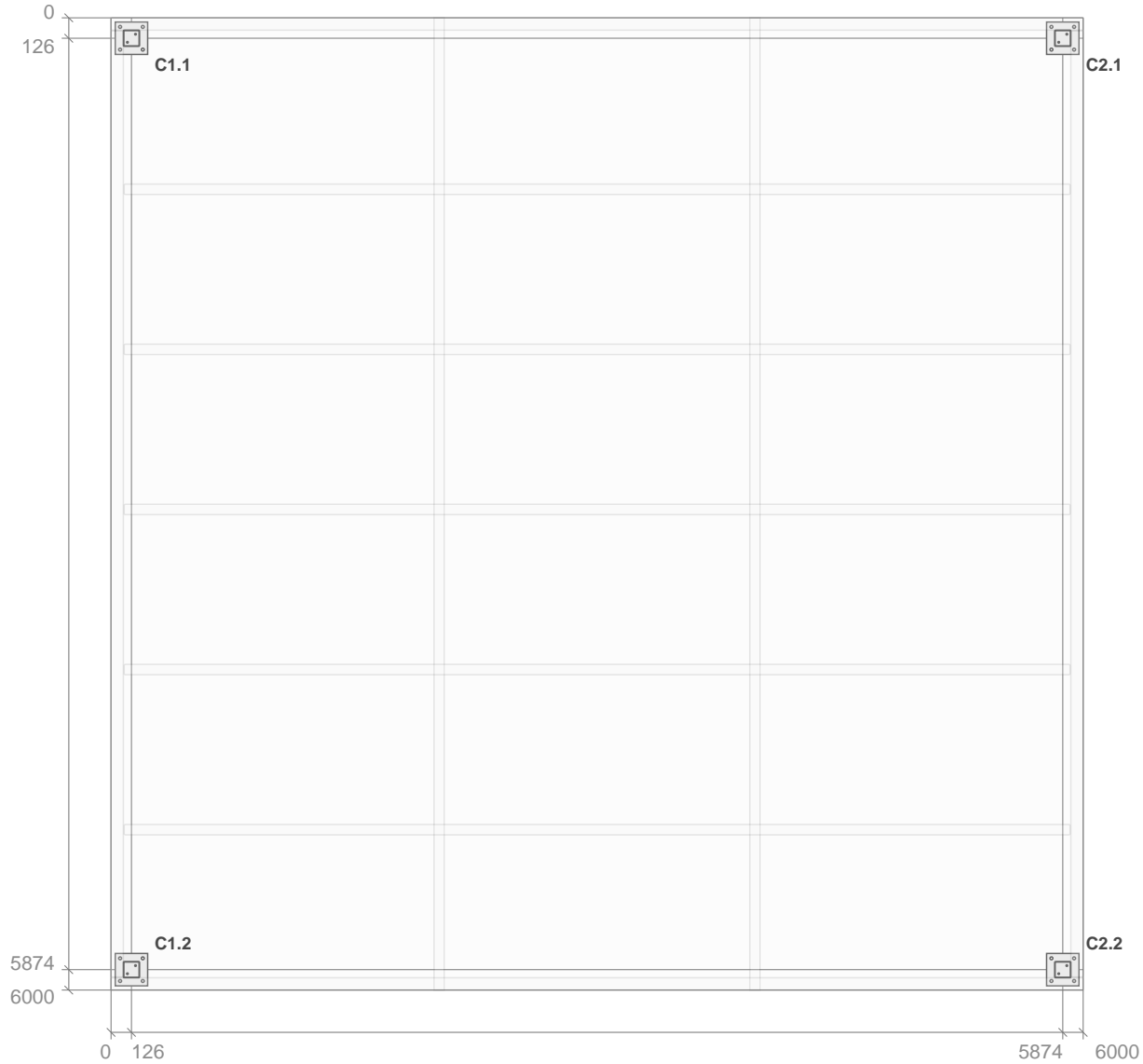
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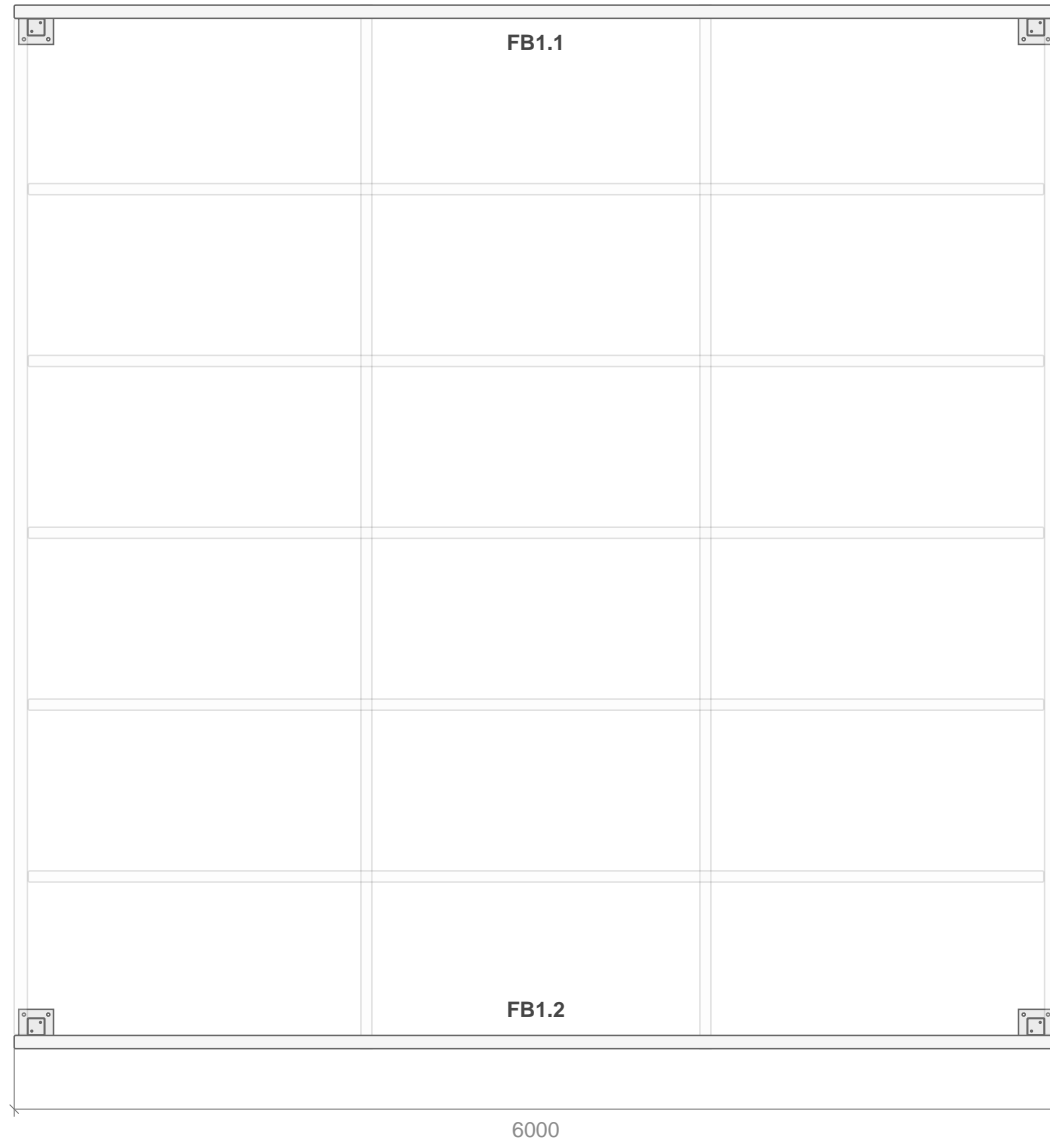
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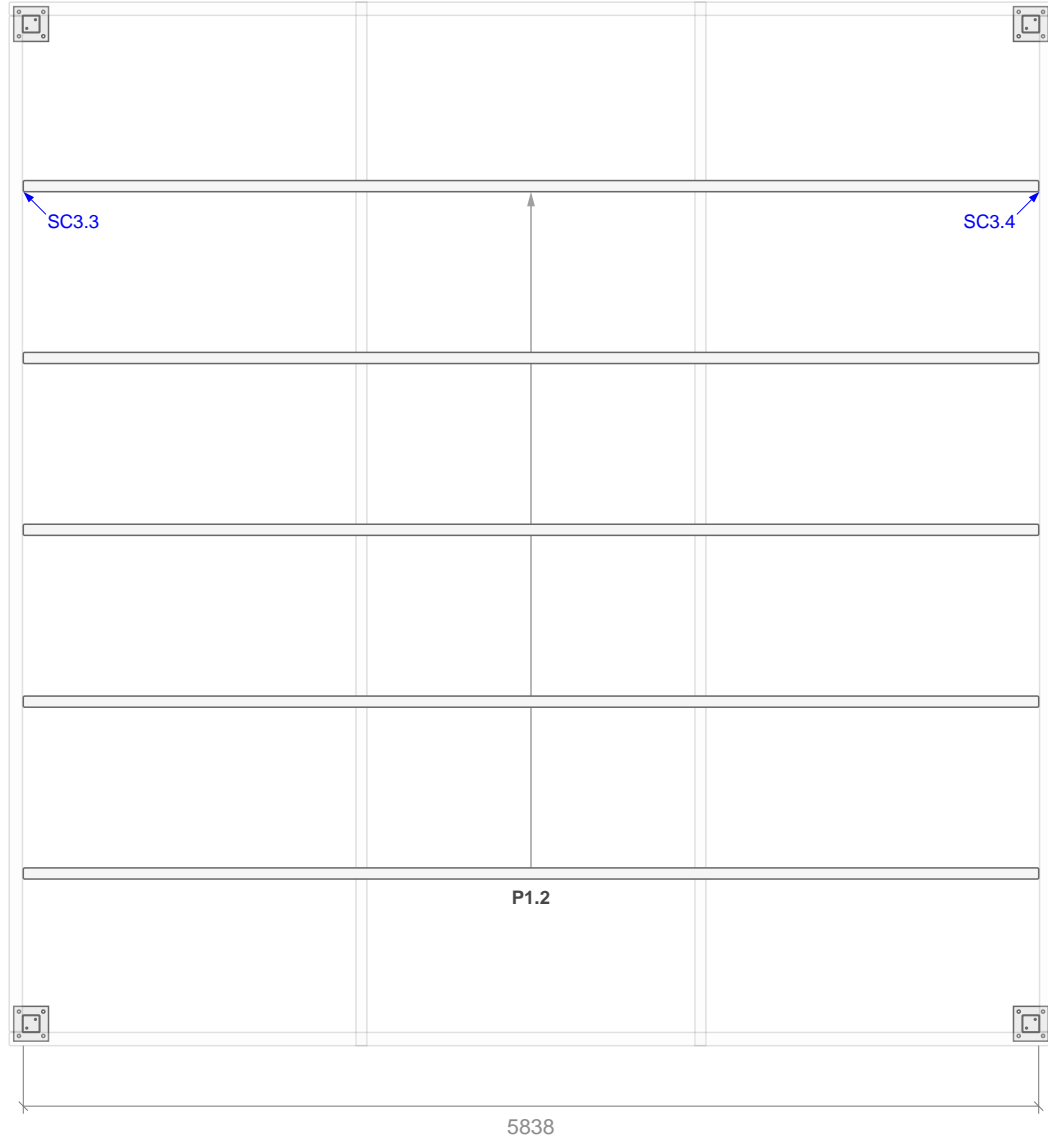
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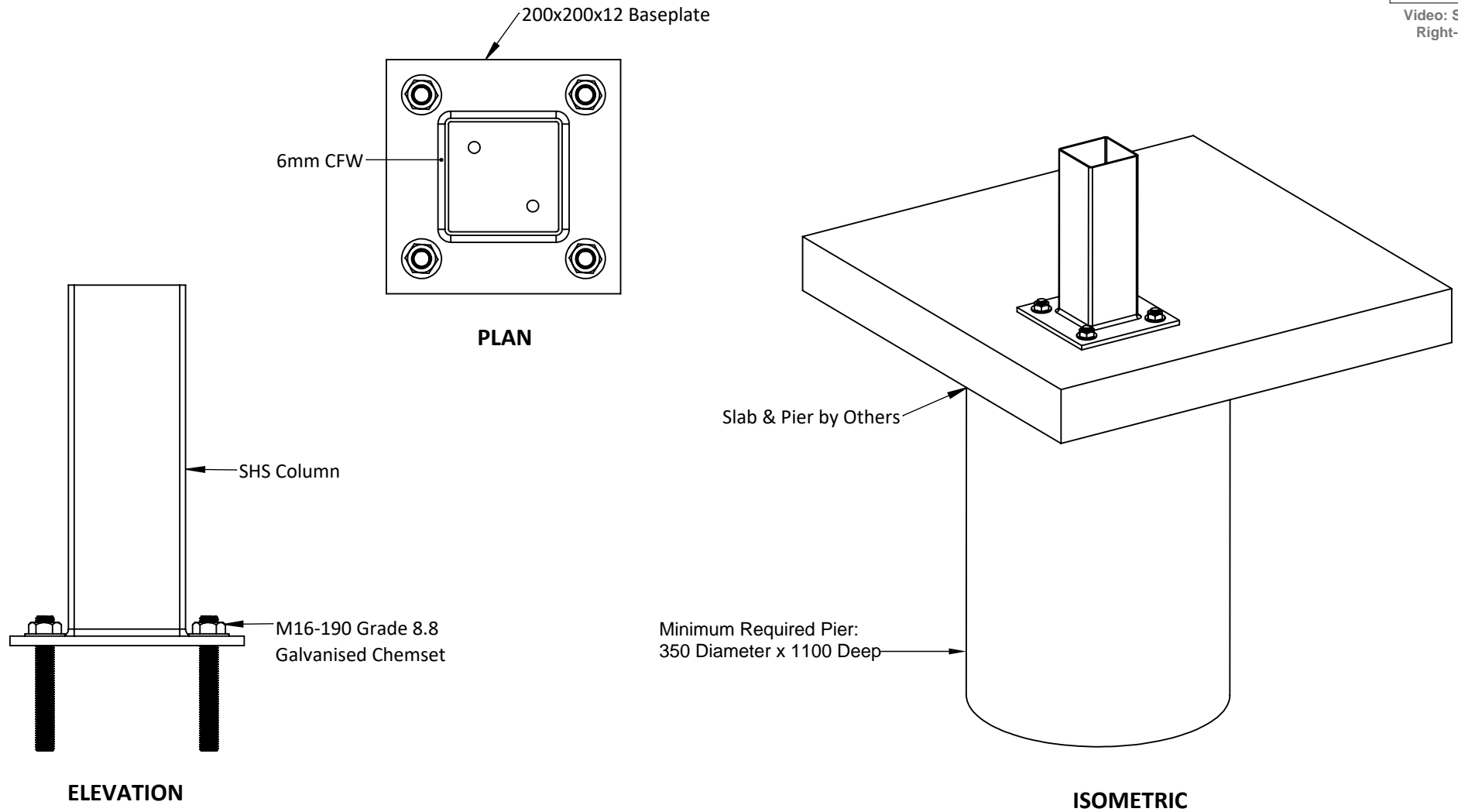
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« Detail 1.21: Footings



Video: Scan or Right-Click



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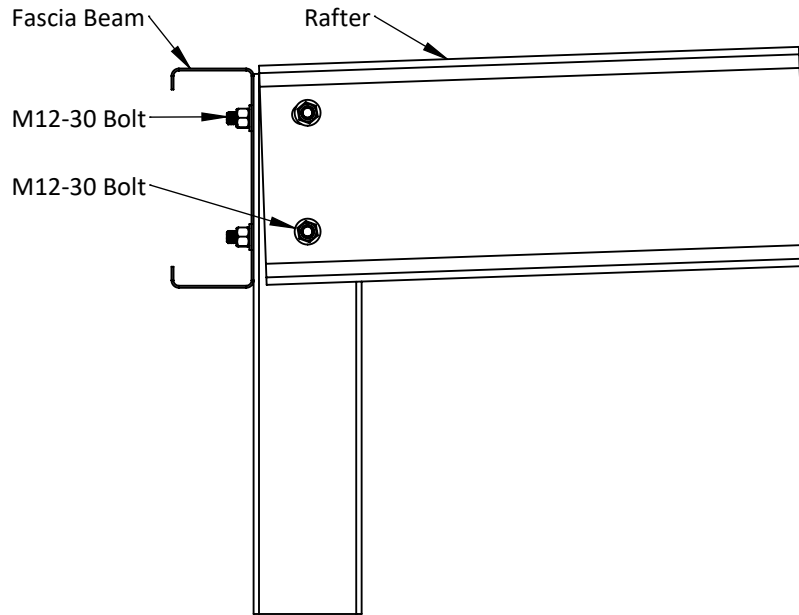
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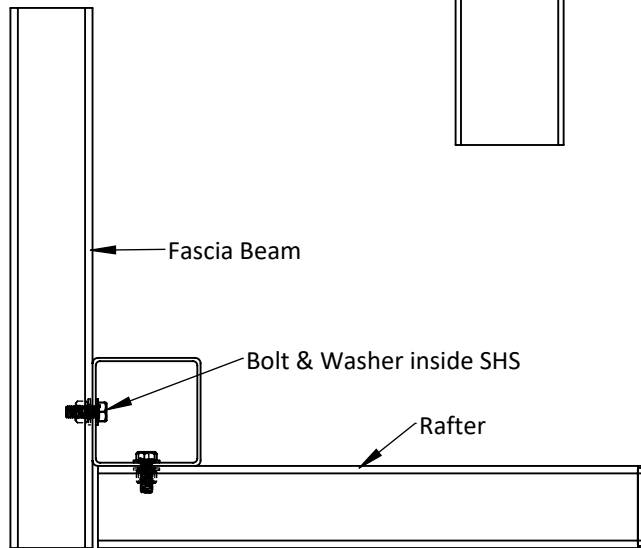
« Detail SC2.1: Rafters



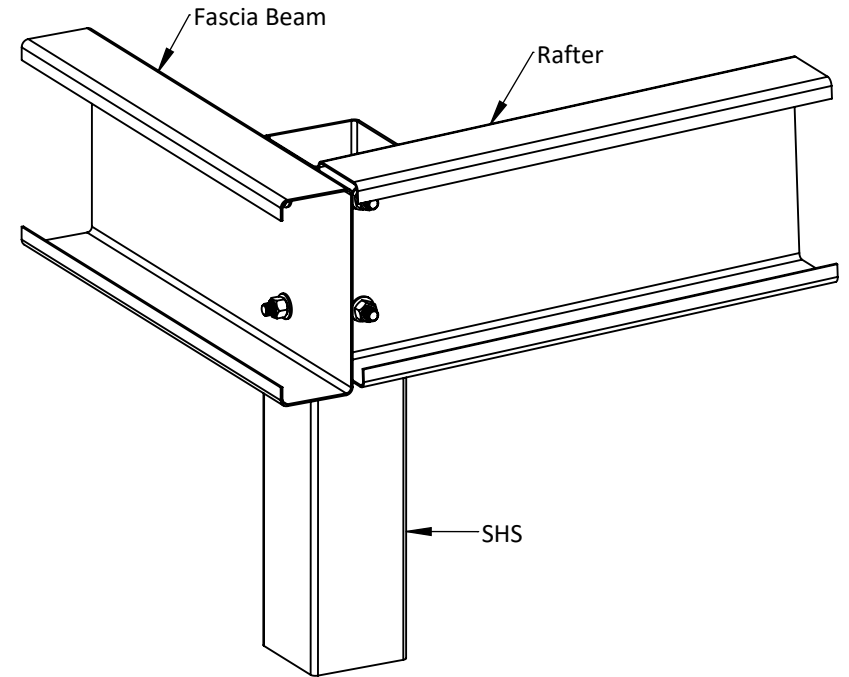
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ELEVATION



PLAN



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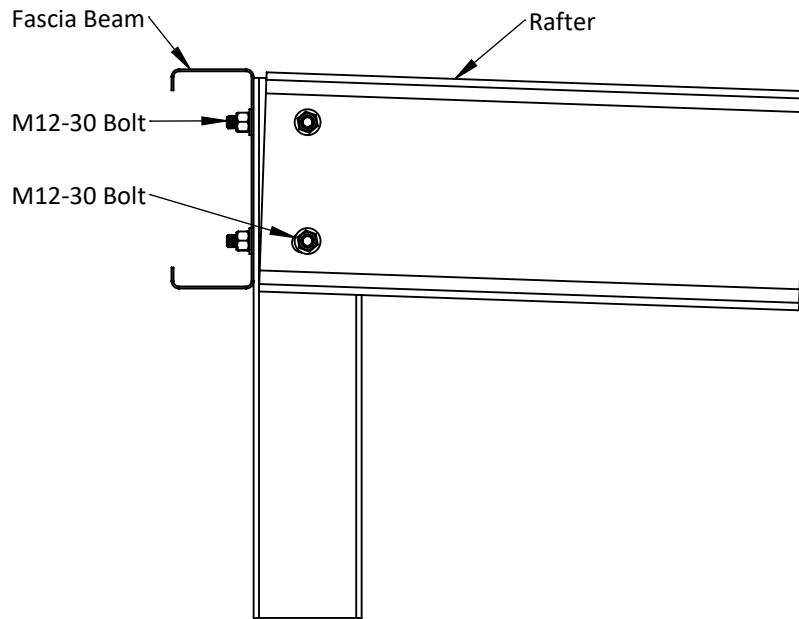
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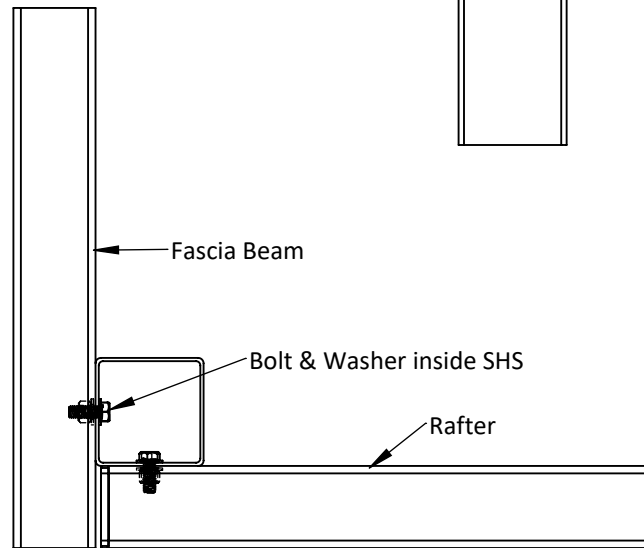
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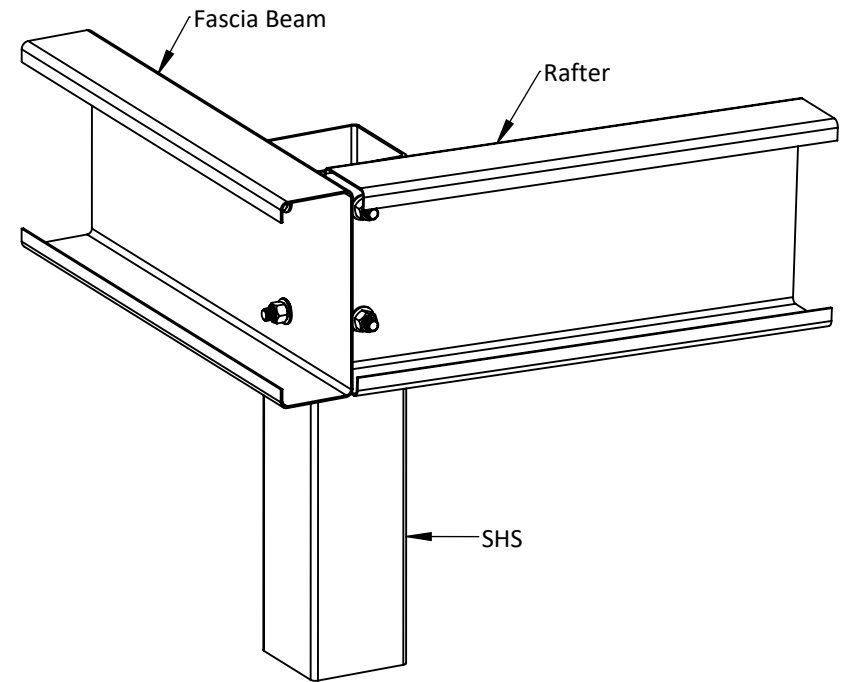
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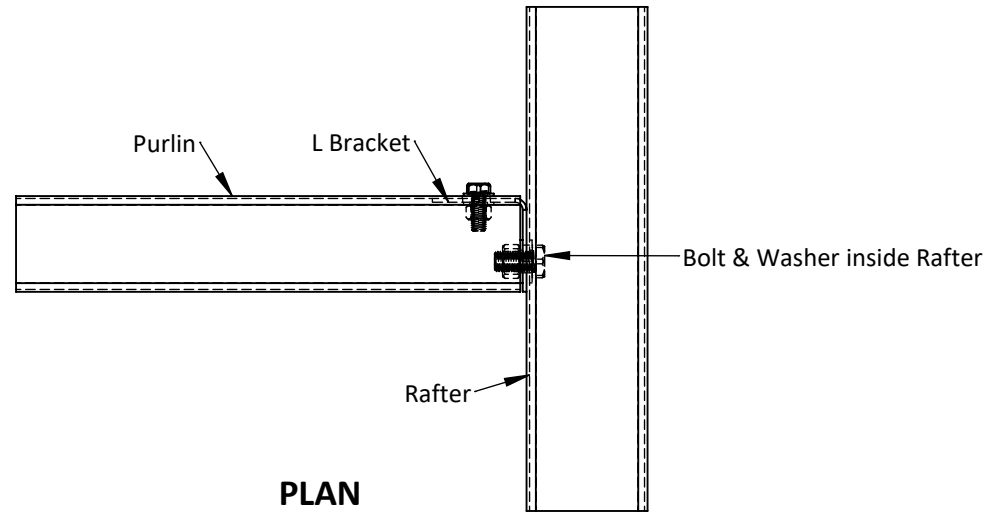
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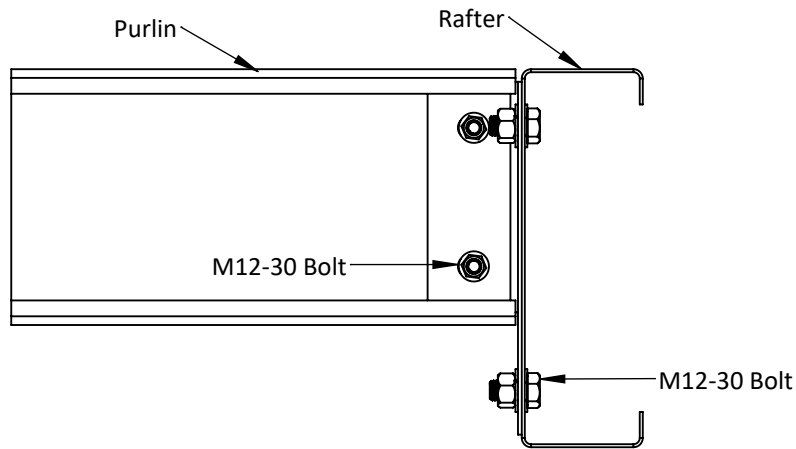
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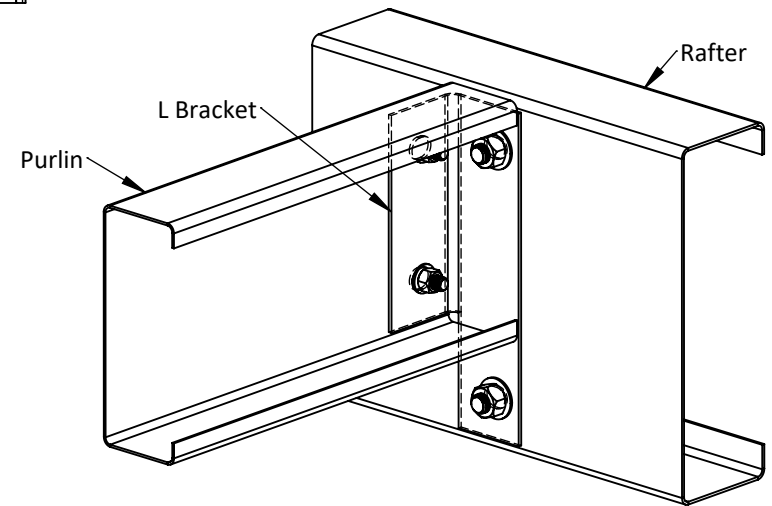
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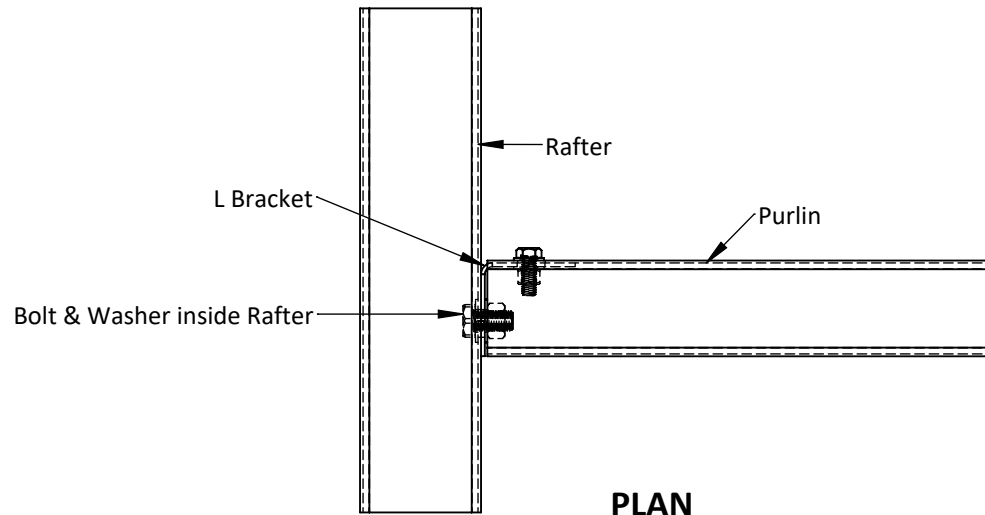
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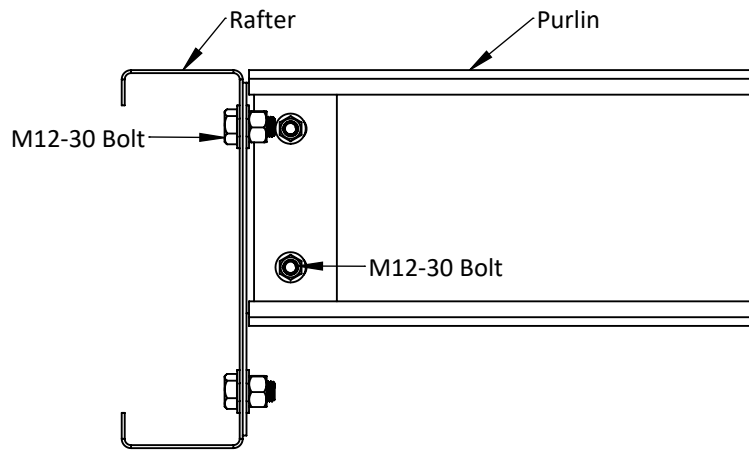
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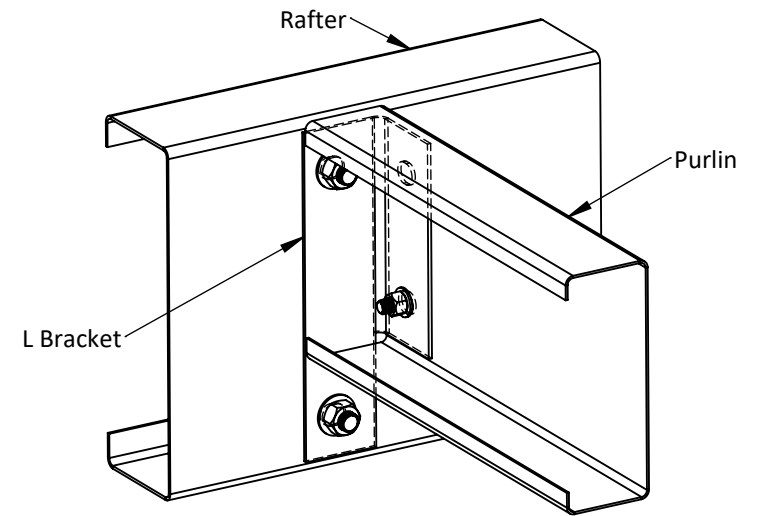
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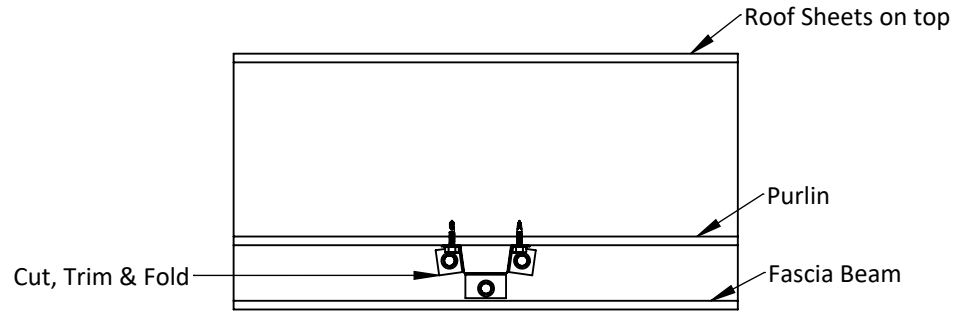
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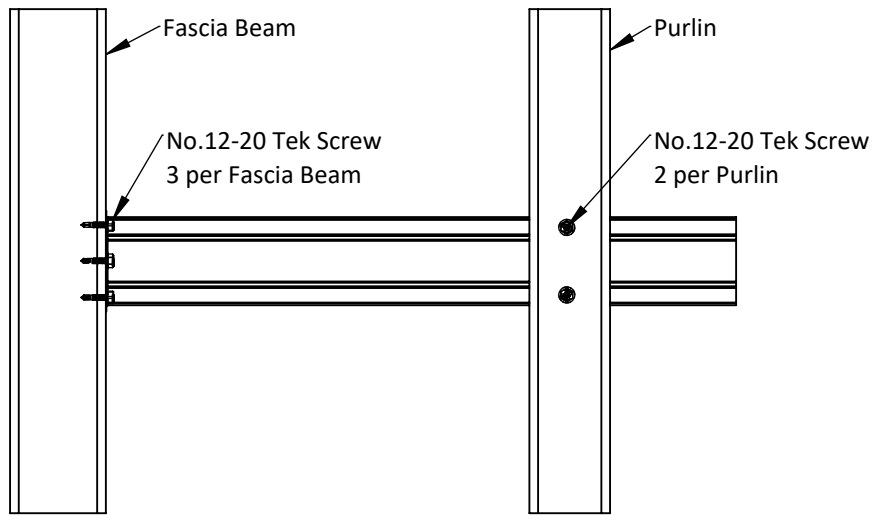
« Detail SC4.1: Purlin Bridging



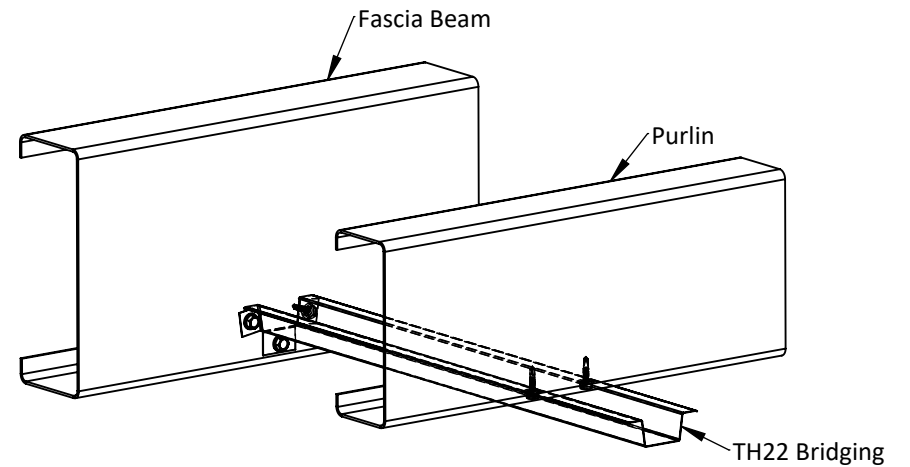
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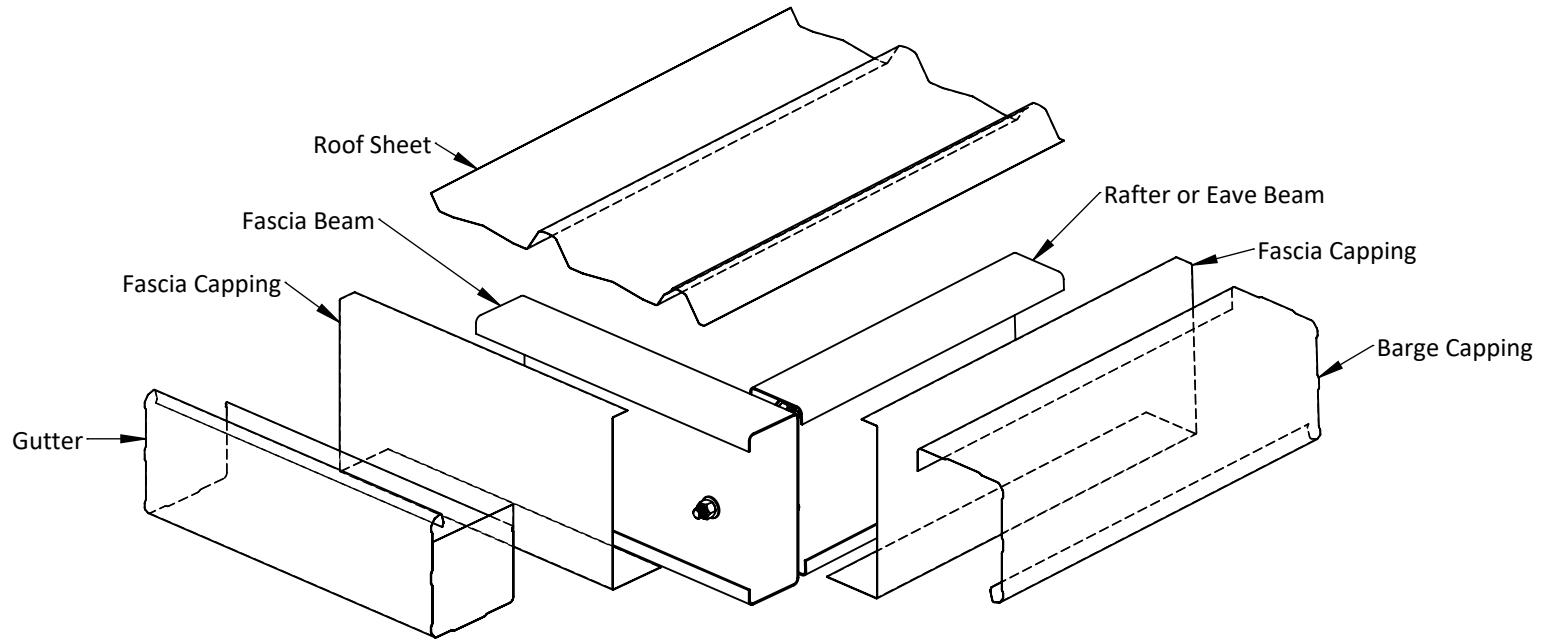
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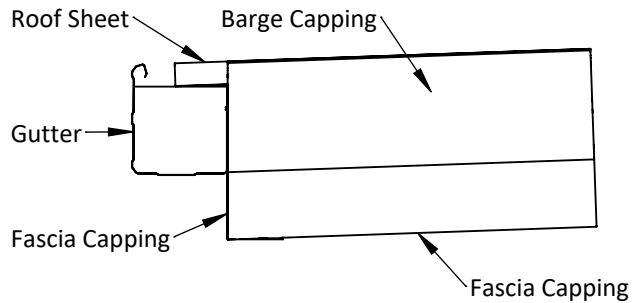
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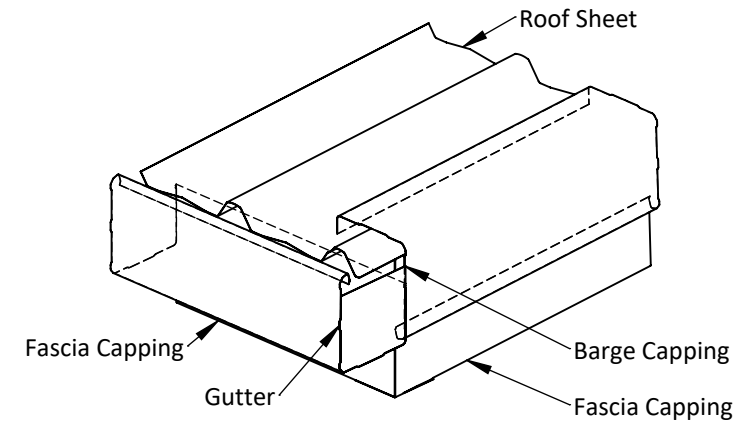
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EXPLODED VIEW



ELEVATION



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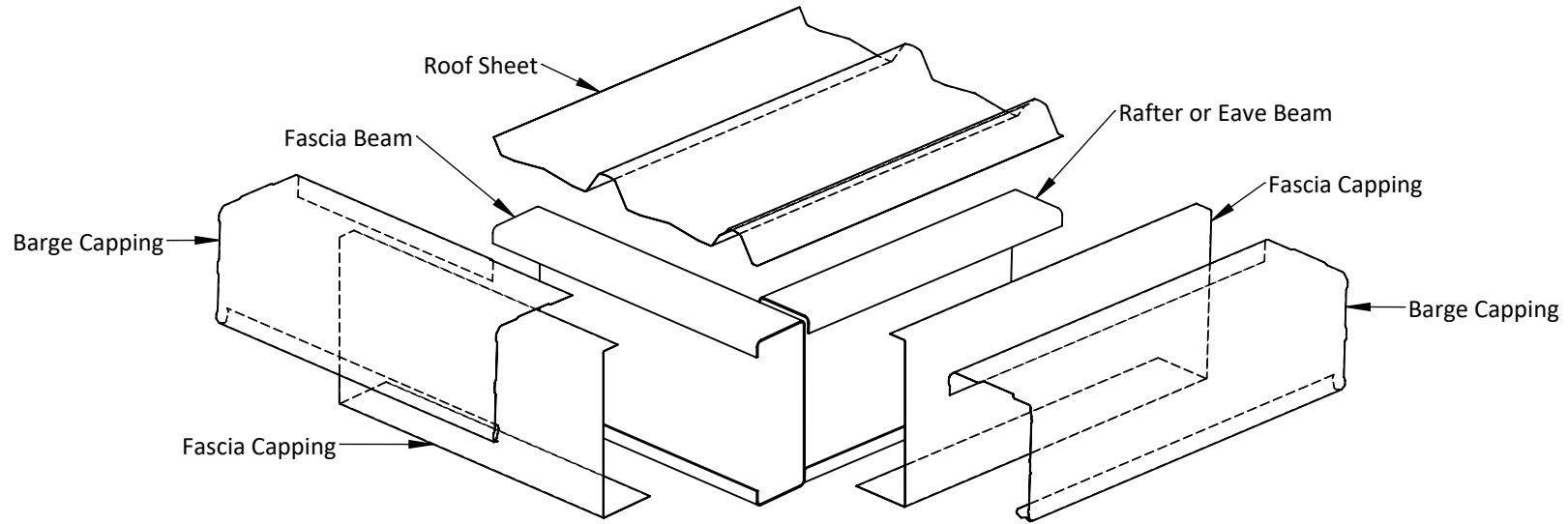
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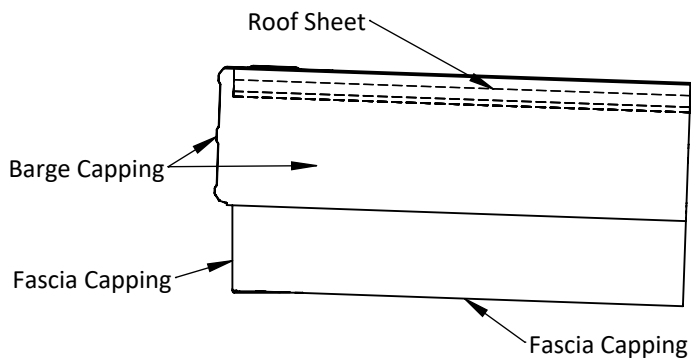
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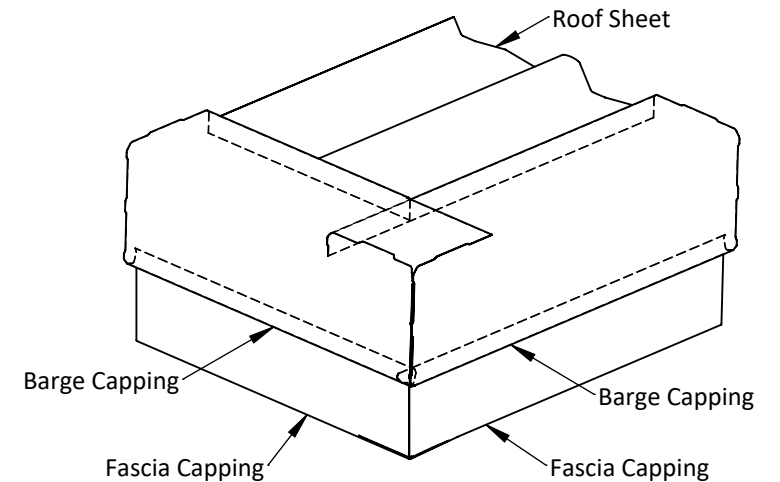
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EXPLODED VIEW



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Technical Data		Required 3.722 kN per post ØM Required 13.079 kNm Member ØM 13.900 kNm · 100x100x3 Source: OneSteel® DuraGal® Hollow Sections				
Class 10a · Importance Level 2 Region B1 · Regional Wind Speed 57 m/s Terrain Category 2 Shielding No		Cladding Details				
Wind Speed Requirement · AS/NZS 1170.2		Product BlueScope® Colorbond® Min Yield Stress · Grade 550 MPa · G550 Profile TrimDek® BMT 0.48 mm				
V _{design} 49.28 m/s · 177 km/h V _R × M _C × M _D × (M _{Z,cat} × M _S × M _T) 57 × 1 × 0.95 × (0.91 × 1 × 1)		Minimum Recommended Bored Piers				
Load Requirements · AS/NZS 1170.0, 1170.1 & 1170.2		ØM M _U 13.079 kNm Uplift V _U 10.188 kN Shear H _U 3.722 kN Dimensions 350 mm diameter x 1100 mm deep				
Q _U 1.457 kPa Inward 1.132 kPa max(0.735, 1.132) Outward 0.502 kPa		Connection Calculations				
Rafter Calculations		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 9.760 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 Plates Tear Out Capacities Minimum · Top Bolt 51.840 kN Minimum · Bottom Bolt 77.760 kN				
Details · Member C25019 with 3 rows of C15019 Bridging Min Yield Stress · Grade · I _x 450 MPa · G450 · 7.62 x 10⁶mm⁴ Gov Span · Load Width 5748 mm · 3000 mm Capacity Required 3.396 kN/m Member Capacity 3.570 kN/m · min(Inward, Outward) Source: Lysaght® & Stramit® Span Tables ØM Required 14.025 kNm Member ØM 18.711 kNm · L _{ex} 5748 · L _{ey} 988 · L _{ez} 988 Deflection Actual 8.4 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 · 988 mm Capacity Required 1.678 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 C25019 with 2 rows of Bridging Min Yield Stress · Grade · I _x 450 MPa · G450 · 7.62 x 10⁶mm⁴ Gov Span · Load Width 5748 mm · 494 mm Capacity Required 0.839 kN/m Member Capacity 3.570 kN/m · min(Inward, Outward) Source: Lysaght® and Stramit® Span Tables Deflection Actual 1.4 mm Permitted 19.2 mm · Span/300 · 1170.0 Table C1						
Post Calculations						
Base Connection Base Plates Min Yield Stress 450 MPa Uplift Required 10.188 kN Raking Force Force Coefficients C _{f,x} 1.8 · AS/NZS 1170.2 Table C.5 Frame Spacing Ratio 6.500 Shielding Factors K _{sh} 0.700 · AS/NZS 1170.2 Table C.2						



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