

STRUCTURAL
WARRANTY

10
YEAR

 STRATCO



STEEL FRAME FLOORING SOLUTION

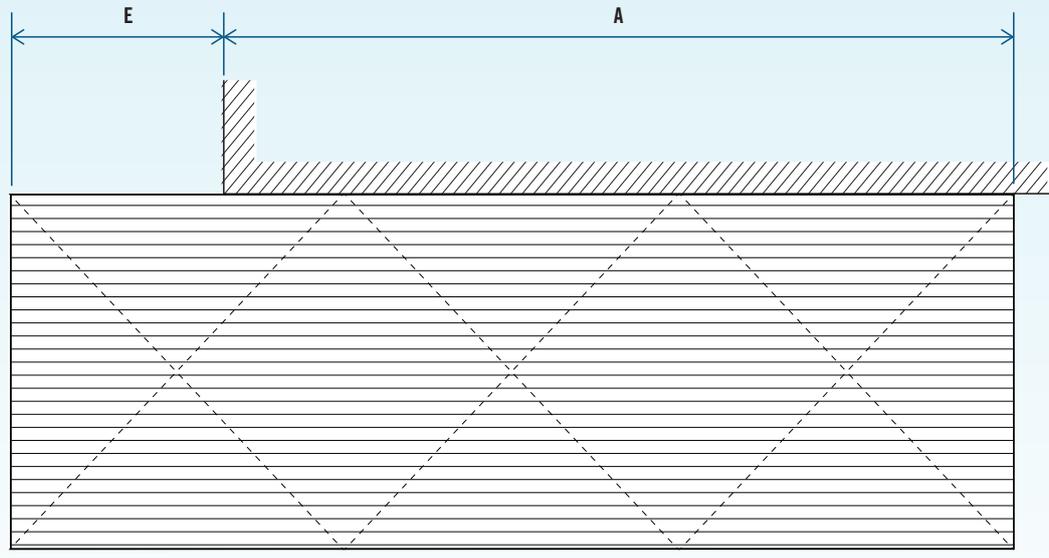
Stratco Pro-Beam® Steel Flooring is a structural sub-floor system that is perfect for exterior decking. Pro-Beam Flooring is very easy to install for the do-it-yourself builder. Pro-Beam is a very strong steel section, featuring a wide spanning capability that reduces the time required to install the system and provides more space for under floor storage.

PRO-BEAM® EXTERIOR FLOORING

CONNECTION DETAILS

ATTACHMENT RULES

SINGLE FLOOR ATTACHMENT



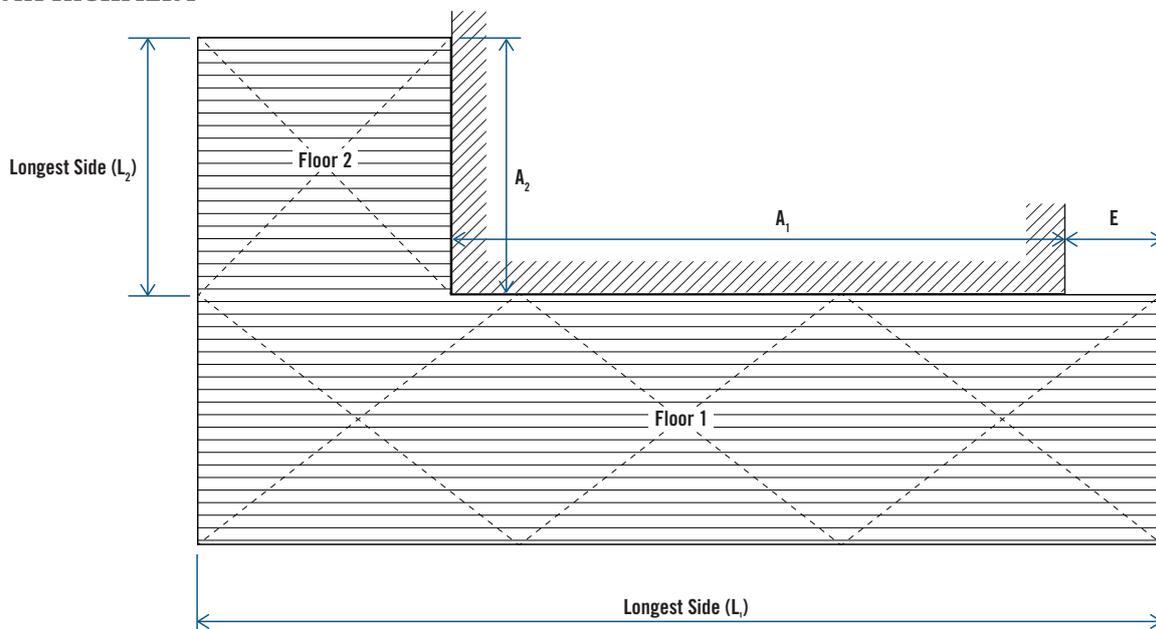
RULES:

$\Sigma A = 0.75L$ (minimum). The unit must be attached to a fully braced structure for at least 75% of its longest side.

with: $\Sigma A =$ total length of attachment to a fully braced structure*.

Extension E shall not exceed 1200mm and must be supported by a corner column.

CORNER ATTACHMENT



RULES:

$A_i = 0.75L_i$ (minimum). Both floor 1 and Floor 2 must be attached to a fully braced structure for at least 75% of their longest sides, L_1 and L_2 respectively.

with: $A_i =$ total length of attachment per floor to a fully braced structure*.

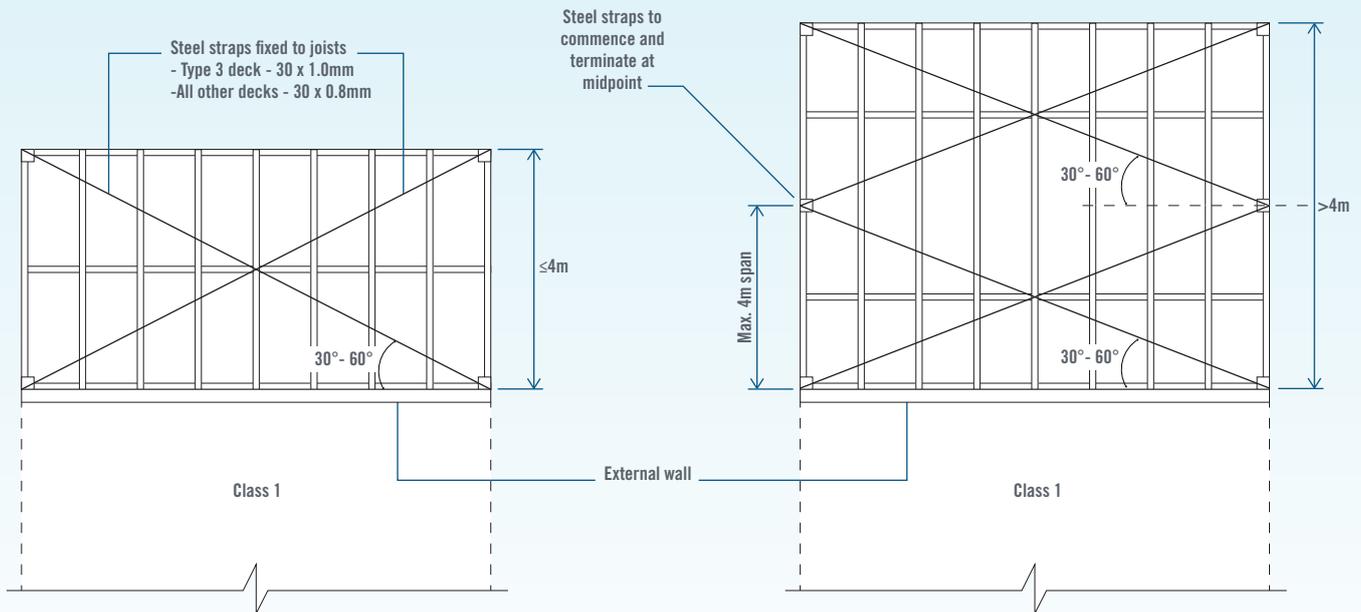
Extension E shall not exceed 1200mm and must be supported by a corner column.

NOTES:

*A fully braced structure is a structure capable of withstanding the additional loads imposed by the floor. These may include, but are not limited to, a Concrete Masonry Wall, or a Braced Elevated Structure.

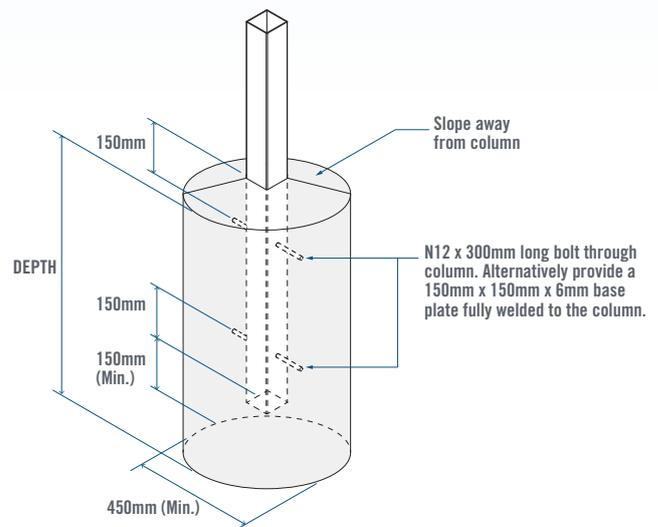
It is the builder's responsibility to ensure the structure to which the floor is attached is capable of withstanding the additional loads imposed by the Pro-Beam® Exterior Floor unit.

BRACING REQUIREMENTS



SQUARE TO CIRCULAR FOOTINGS

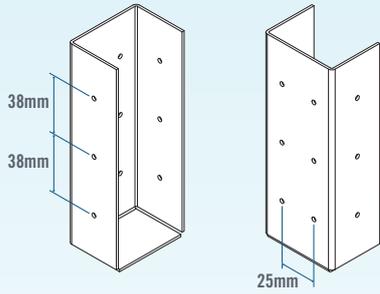
SQUARE FOOTINGS WIDTH x LENGTH x DEPTH (mm)	CIRCULAR FOOTINGS Ø DIAMETER x DEPTH (mm)
450 x 450 x 500	Ø 450 x 500
450 x 450 x 600	Ø 450 x 650
450 x 450 x 650	Ø 450 x 700
450 x 450 x 750	Ø 450 x 750
600 x 600 x 600	Ø 600 x 650
600 x 600 x 650	Ø 600 x 700
600 x 600 x 700	Ø 600 x 750
600 x 600 x 750	Ø 600 x 800
600 x 600 x 800	Ø 600 x 850
600 x 600 x 900	Ø 600 x 950
600 x 600 x 950	Ø 600 x 950
650 x 650 x 600	Ø 600 x 700
650 x 650 x 800	Ø 600 x 850
650 x 650 x 900	Ø 750 x 900
750 x 750 x 800	Ø 750 x 800
750 x 750 x 850	Ø 750 x 1000
750 x 750 x 900	Ø 750 x 1050
750 x 750 x 950	Ø 750 x 1000
800 x 800 x 850	Ø 750 x 950
800 x 800 x 950	Ø 750 x 1050



This is a direct conversion from footings specified on page 13 & 14. Please ensure to comply with all the requirements for the square footings, including the detail on page 15.

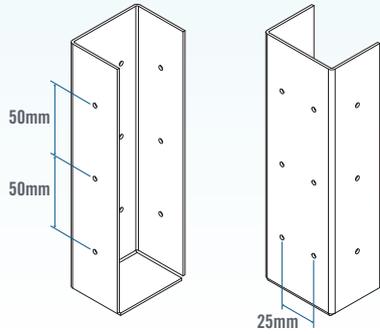
STRATCO PRO-BEAM FLOORING SPAN TABLES

Three 12x20mm self drilling screws per side and six at rear face

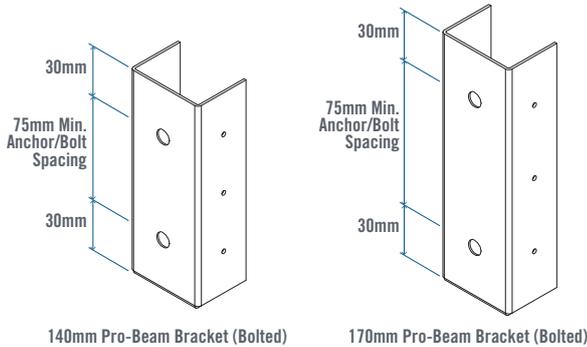


DETAIL 1A - 140mm PRO-BEAM BRACKET

Three 12x20mm self drilling screws per side and six at rear face

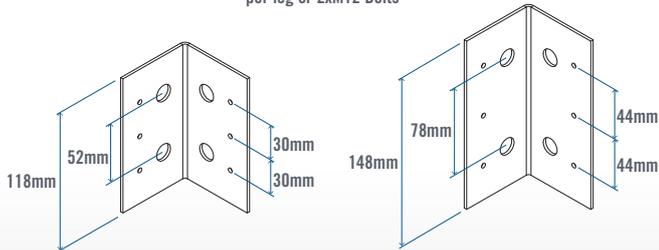


DETAIL 1B - 170mm PRO-BEAM BRACKET



DETAIL 1C

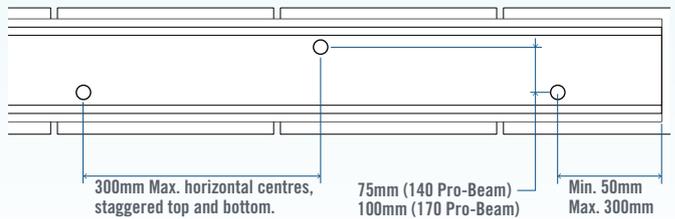
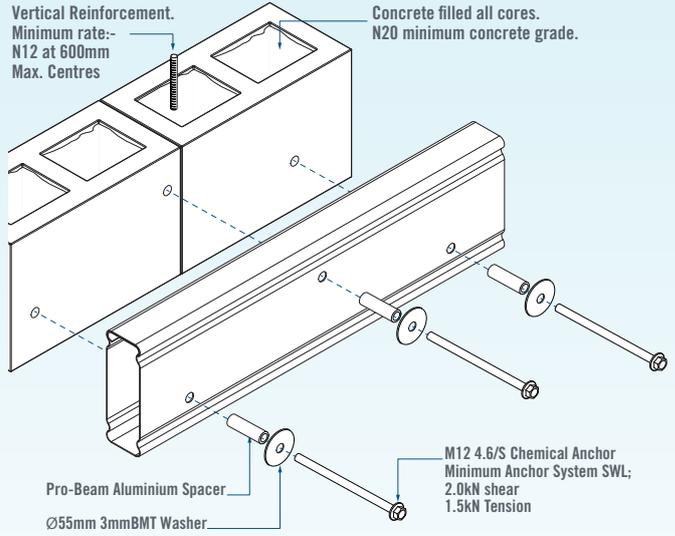
Three 12x20mm self drilling screws per leg or 2xM12 Bolts



Pro-Beam Angle Bracket (Pro-Beam 140)

Pro-Beam Angle Bracket (Pro-Beam 170)

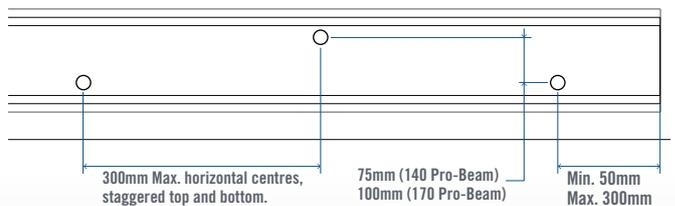
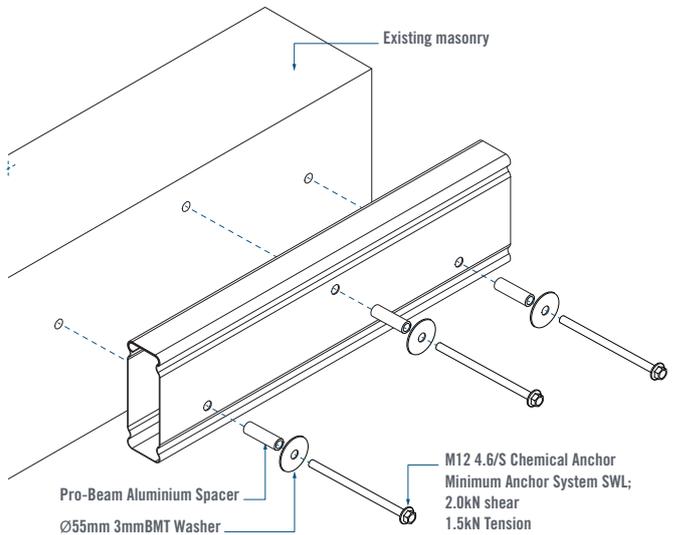
DETAIL 1D



Masonry Anchor Notes:

1. Shall NOT be fixing into mortar beds.
2. Ensure 100mm minimum masonry edge distance.
3. Hot dip galvanised corrosion protection (300g/m² minimum)

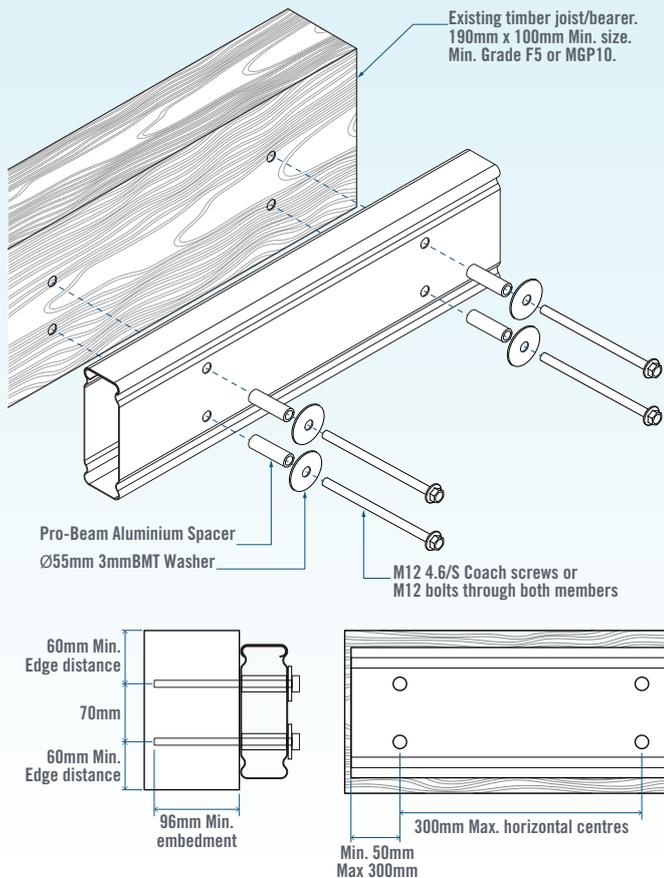
DETAIL 2 - FIXING TO EXISTING MASONRY - 190 BLOCKWORK, CORE FILLED AND REINFORCED



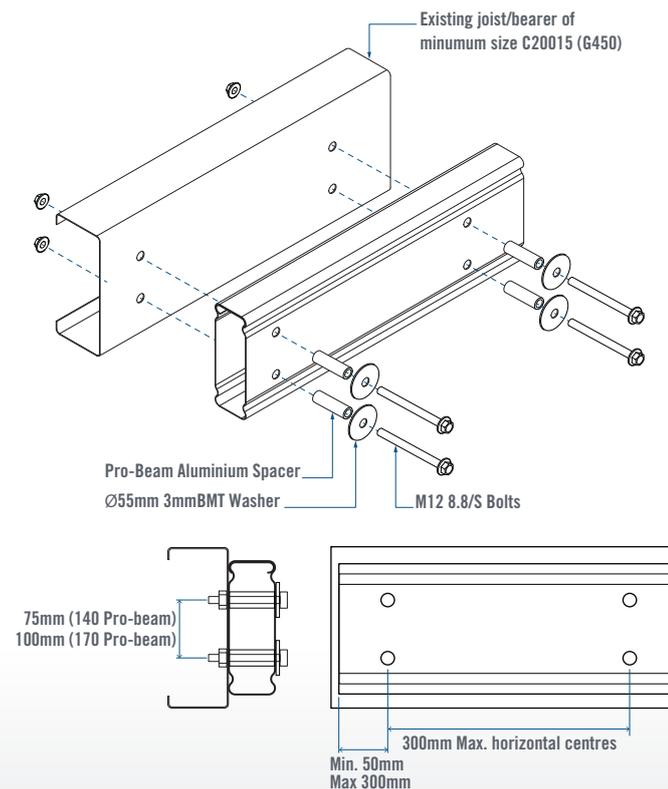
Masonry Anchor Notes:

1. Shall NOT be fixing into mortar beds.
2. Ensure 100mm minimum masonry edge distance.
3. Hot dip galvanised corrosion protection (300g/m² minimum)

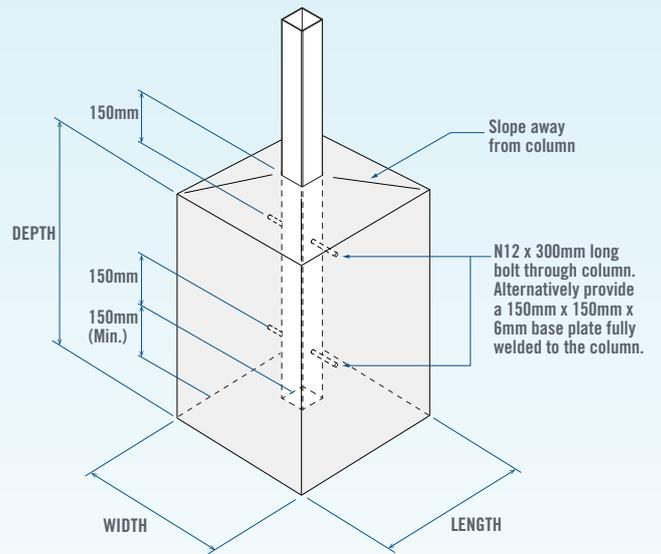
DETAIL 3 - FIXING TO EXISTING MASONRY - CONVENTIONAL MASONRY VENEER CONSTRUCTION



DETAIL 4 - FIXING TO EXISTING TIMBER

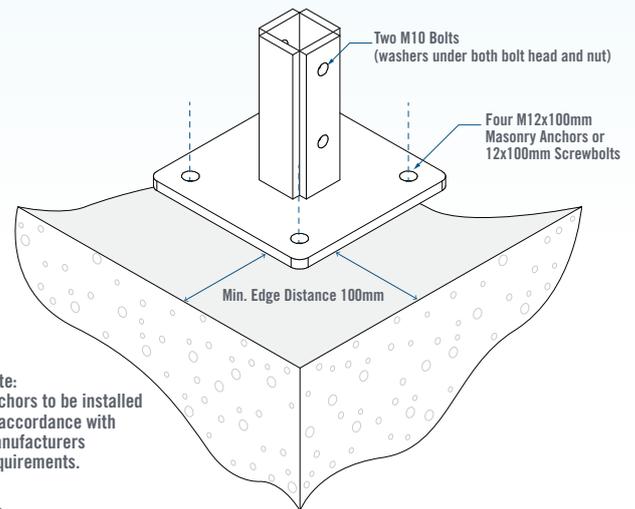


DETAIL 5 - FIXING TO EXISTING STEEL FRAMING



*Refer to page 15 for further details including footing requirements adjacent to house.

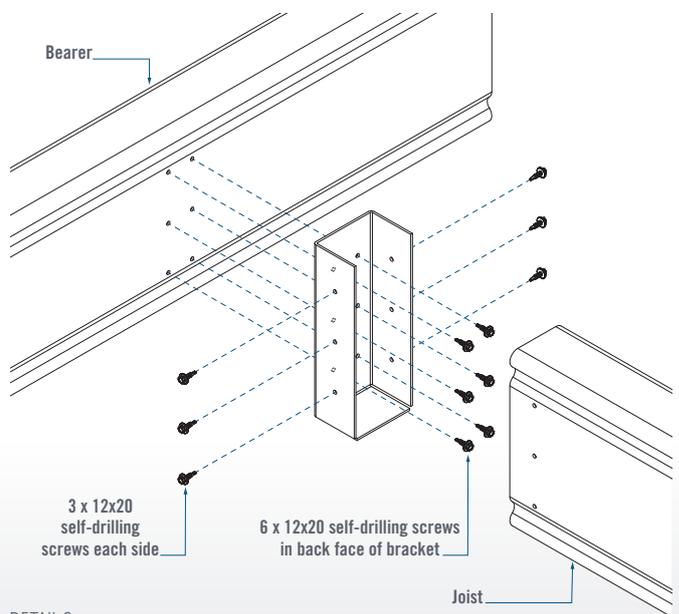
DETAIL 6



Note:
Anchors to be installed in accordance with manufacturers requirements.

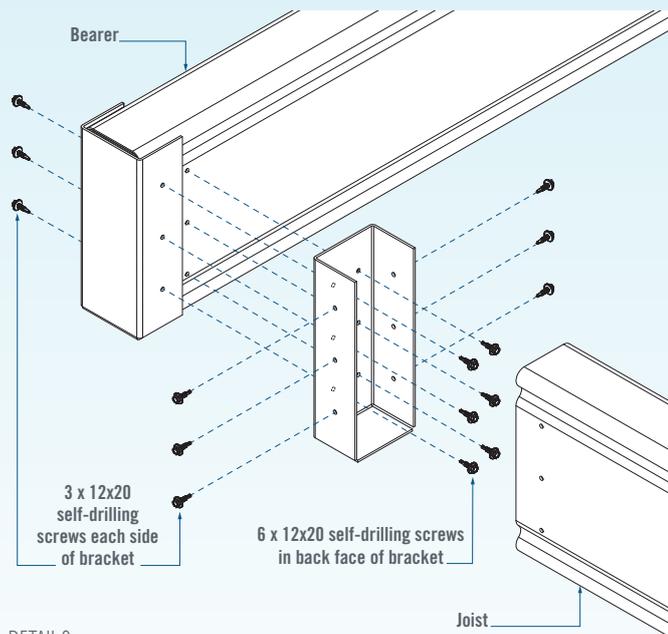
Note:
Only floors not supporting a verandah which are in non-cyclonic conditions may be fixed to a reinforced concrete slab.

DETAIL 7

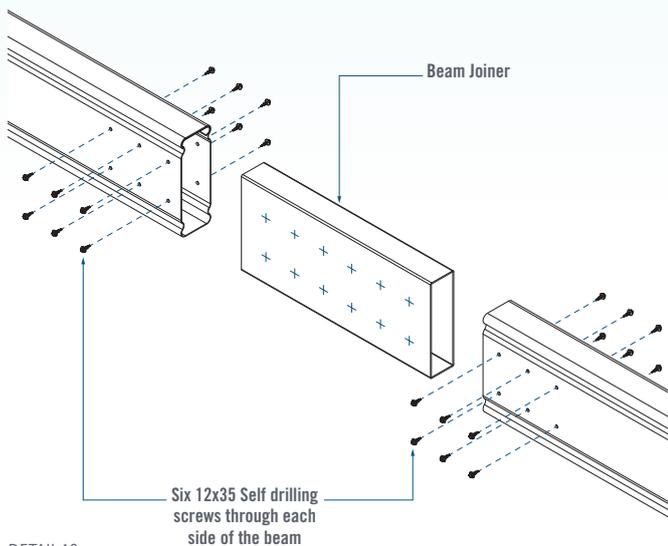


DETAIL 8

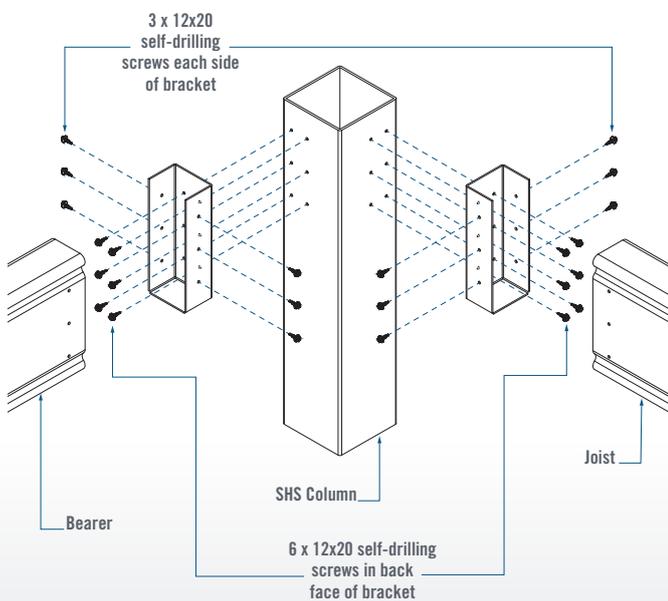
STRATCO PRO-BEAM FLOORING SPAN TABLES



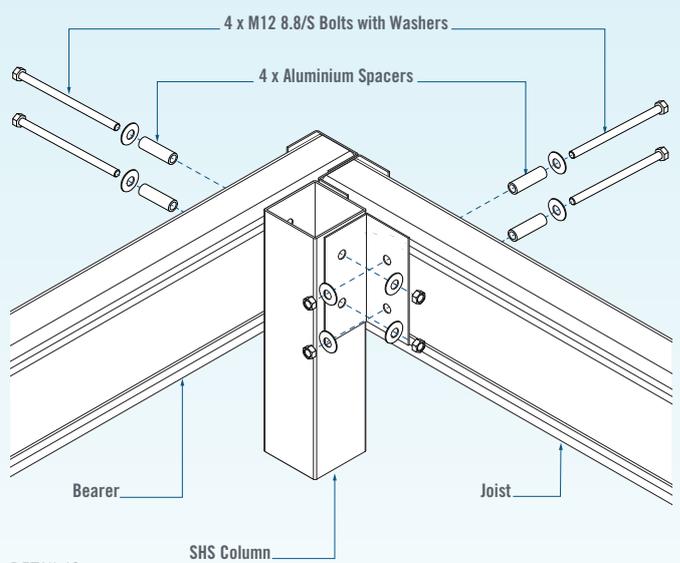
DETAIL 9



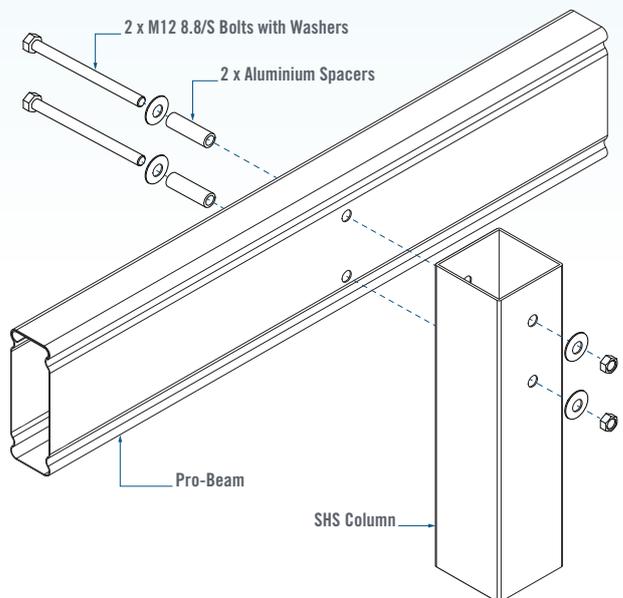
DETAIL 10



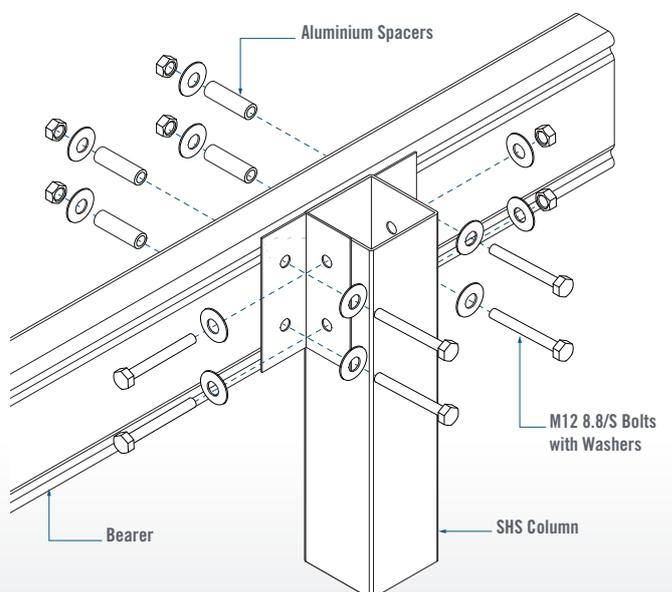
DETAIL 11



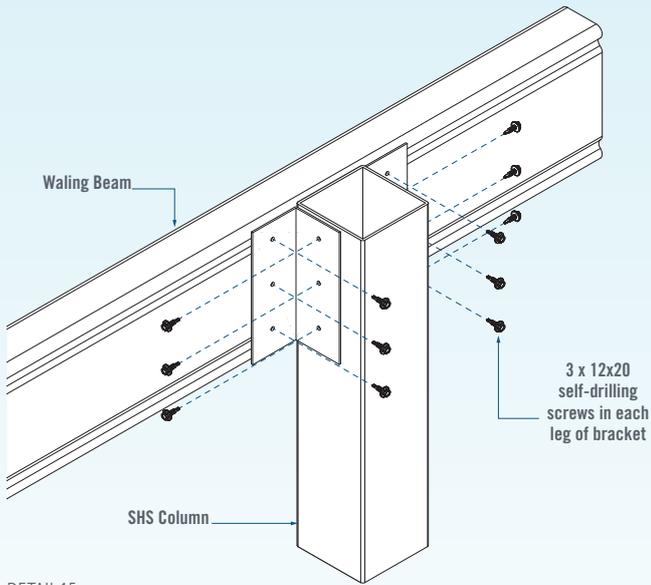
DETAIL 12



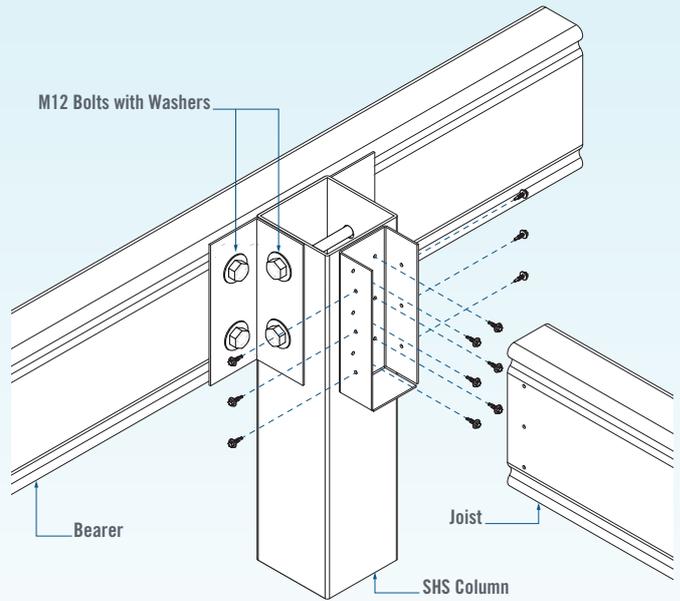
DETAIL 13



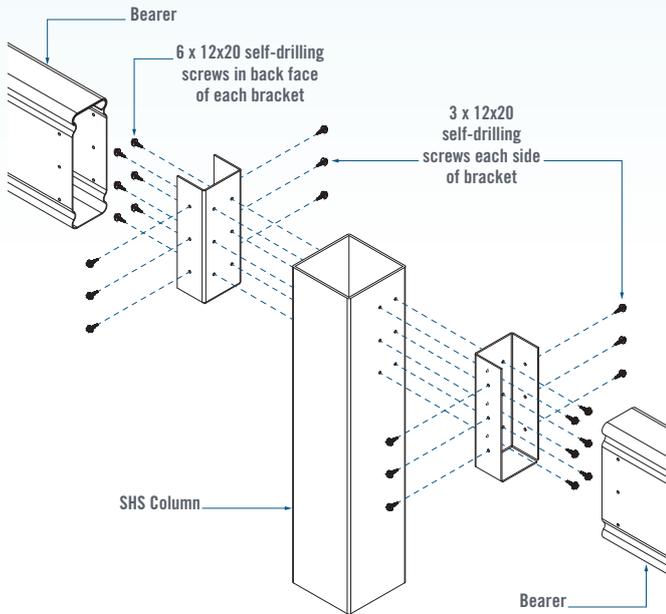
DETAIL 14



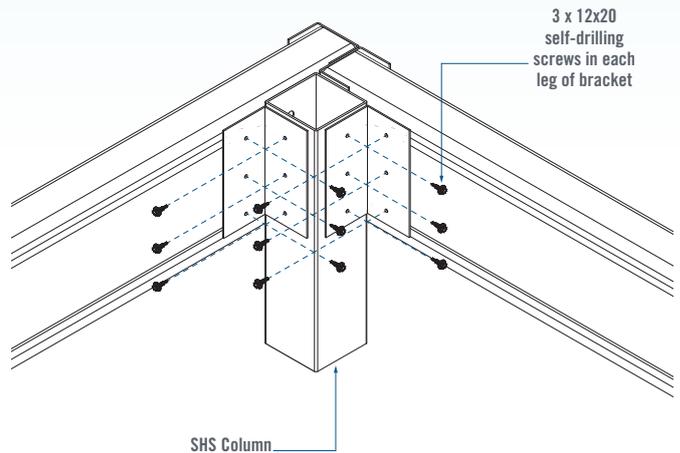
DETAIL 15



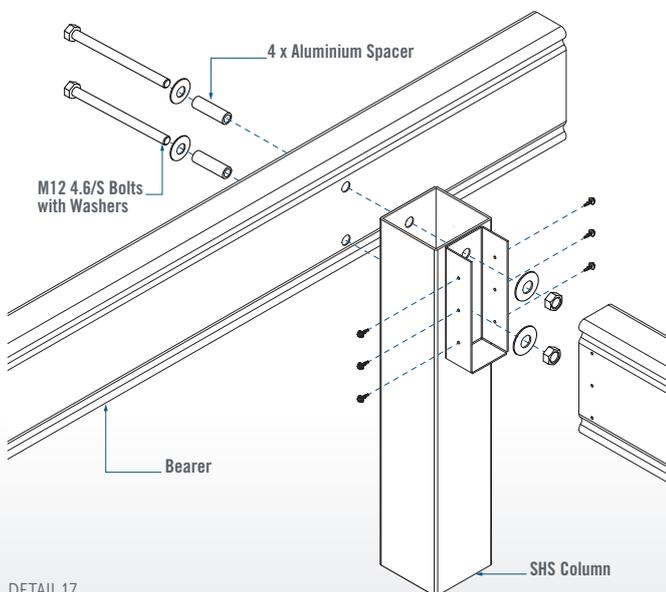
DETAIL 18



DETAIL 16



DETAIL 19



DETAIL 17

CONNECTION NOTES

1. Pro-Beam Flooring may utilise either screw fixed or bolted connections (or combination of) as per details provided.
2. Pro-Beam joists and bearers are to be installed with the double flange at the top.
3. Screw fixed Angle Bracket connections are specific to corner connections (Detail 19) or the waling beam (Detail 15), unless noted otherwise.
4. Installers shall satisfy themselves fasteners are adequately protected from corrosion to suit environmental conditions of allocated site.

