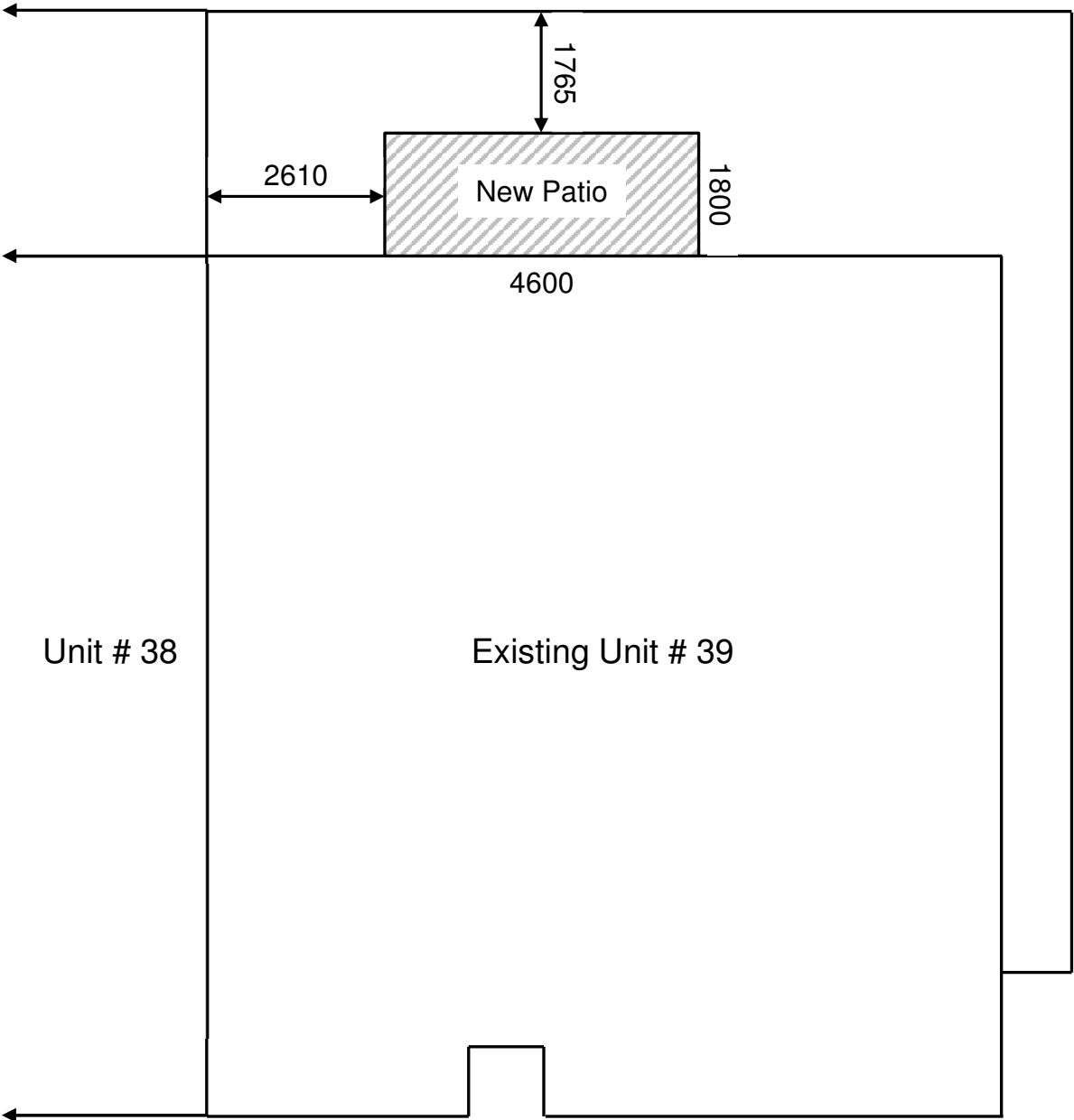


JUST PATIOS (QLD) PTY LTD

Client: Olak
Site Address: 39/27 Gawler Crescent
Bracken Ridge QLD 4017
Lot: 39 Plan: SP191882 Size: 126m²

Roof Style/Type: Ausdeck V Line
0.48mm Single Span
Scale: 1:100 Wind Rating: W33/N2
Builder: Just Patios (QBCC 1026222)
Drawing Number: A4230a

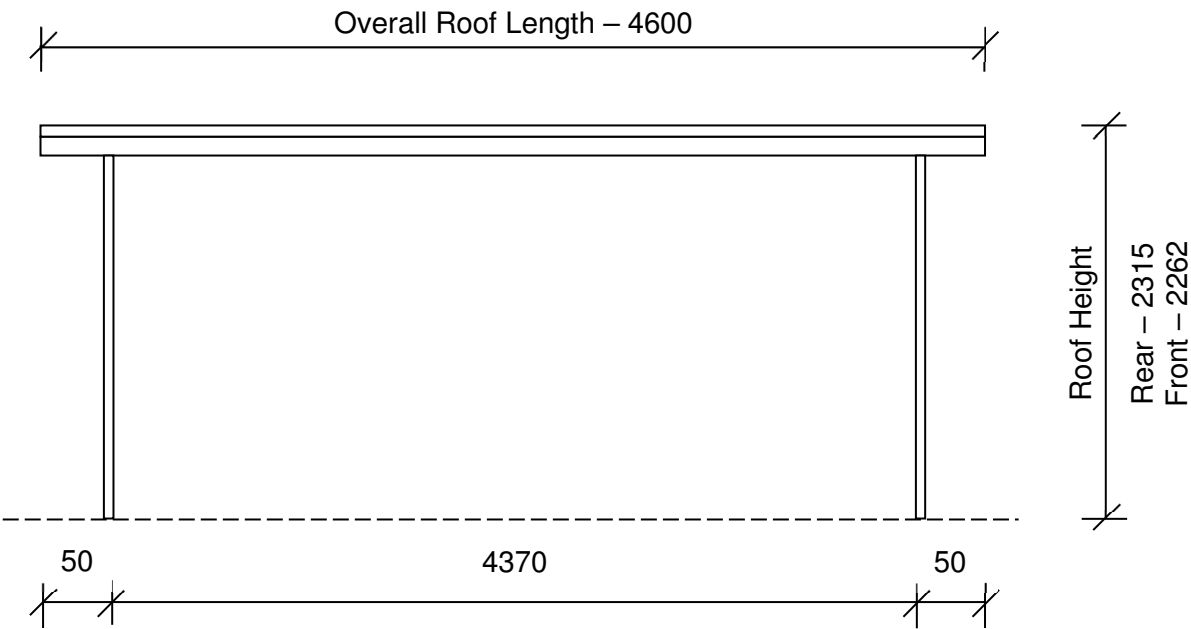


Common Property

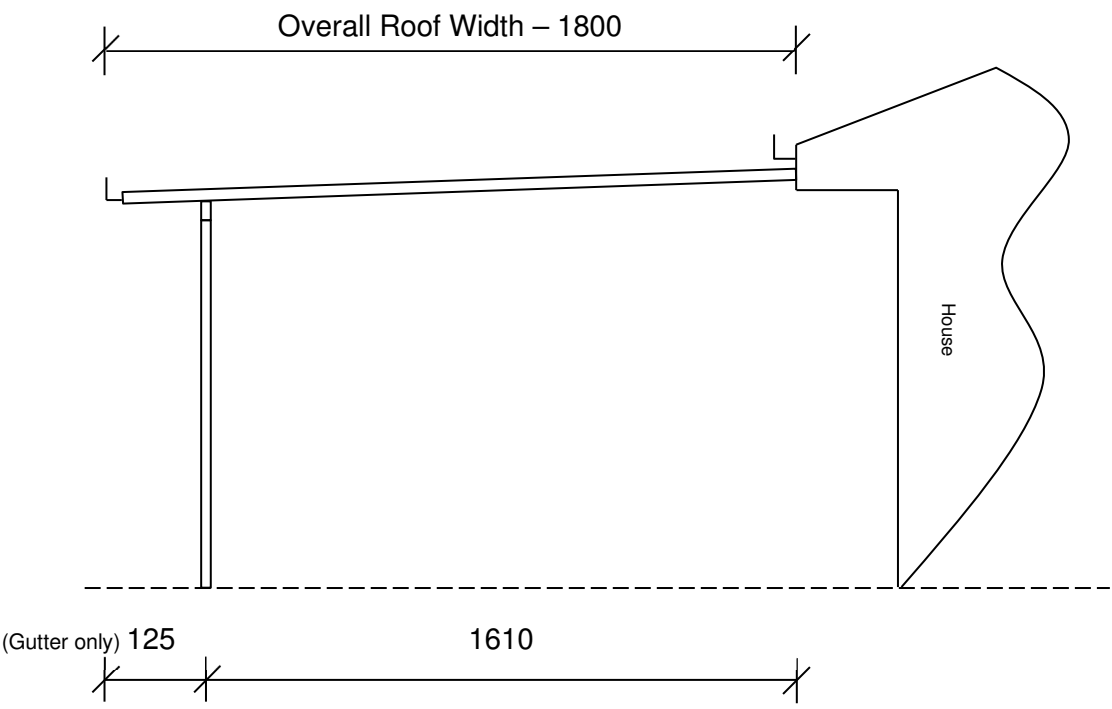
JUST PATIOS (QLD) PTY LTD

Client: Olak
Site Address: 39/27 Gawler Crescent
Bracken Ridge QLD 4017
Lot: 39 Plan: SP191882 Size: 126m²

Roof Style/Type: Ausdeck V Line
0.48mm Single Span
Scale: NTS Wind Rating: W33/N2
Builder: Just Patios (QBCC 1026222)
Drawing Number: A4230b



Front Elevation



Side Elevation

Note: All heights are to the top of the roof and all measurements exclude posts and beams unless otherwise specified.

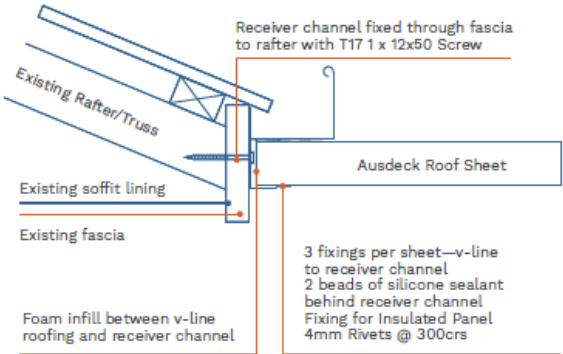
Just Patios (Qld) Pty Ltd (QBCC 1026222)			
Owners Name:	Olak		
Address:	39/27 Gawler Crescent Bracken Ridge QLD 4017		
Lot:	39	Plan:	SP191882
Engineering:	Ausdeck Construction Manual Version July 2025		
<u>Roof Type</u> Ausdeck V Line: ☒ 0.48mm (BMT) ☐ 50mm Ausdeck Insulated: ☐ 100mm ☐ 75mm ☐ 125mm ☐ 150mm			
<u>Post Type</u> Aluminium: ☒ 65 x 65 ☐ 100 x 100 Steel SHS: ☐ 65 x 65 (Offset) Hardwood Timber: ☐ 90 x 90 Other: ☐ 90 x 90 ☐ 150 x 150 ☐ 90 x 90 ☐ 100 x 100 ☐ 140 x 140			
<u>Beam Type</u> Ausdeck Shurelock: ☒ 100 x 65 Other: ☐ 150 x 65 ☐ 200 x 65			

Attachment Details

Fascia:

☐ Timber

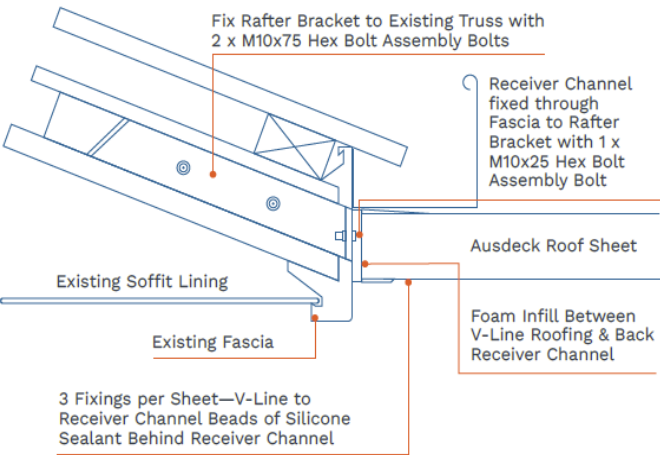
Receiver Channel to Timber Fascia



Fix the Receiver Channel every 600mm to the timber fascia with Tek 12x20 Screw or T17 12x50 Screw.

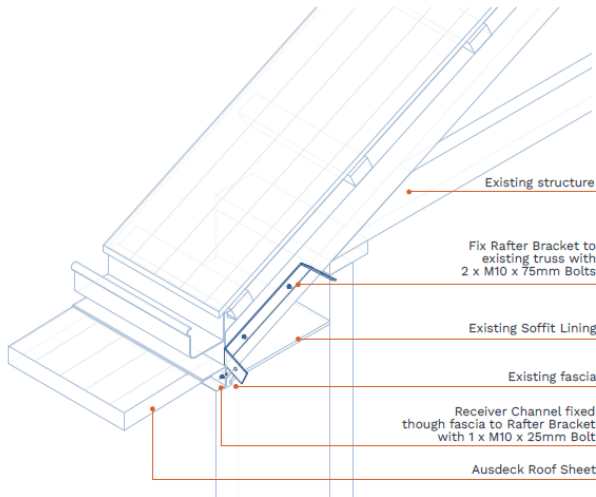
☒ Steel

Receiver Channel to Steel Fascia with Rafter Bracket



Every 900mm fit a fascia Rafter Bracket to existing rafter and bolt through to the Receiver Channel.

Rafter Bracket (To suit Steel Fascia)



Max. Tributary Area—Rafter Bracket

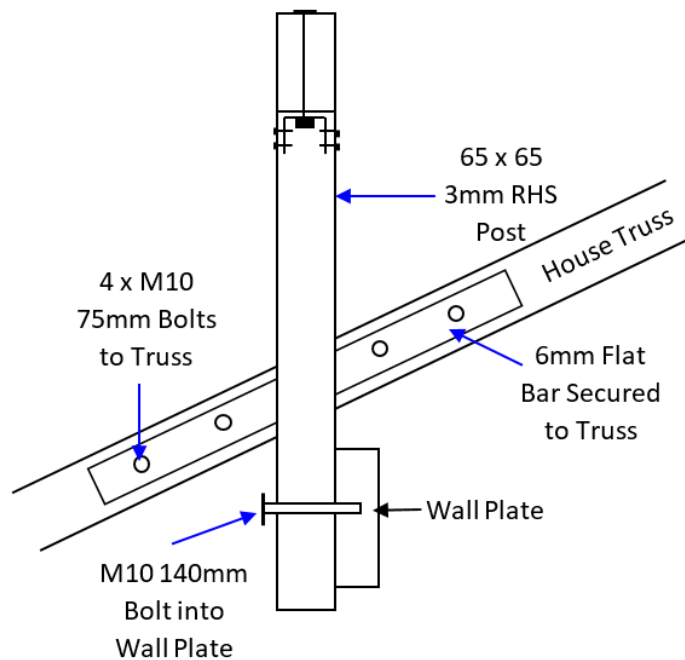
Wind Class	Max. Area—m ²	
	Open/Partially Enclosed	Enclosed
N2	12.0	7.92
N3	7.5	4.95
N4	5.0	3.3
C1	7.5	4.95
C2	5.0	3.3
C3	3.75	2.47

*Recommended Fixings: 2 x M10x75 Hex Bolt Assembly Hex Bolt and 1 x M10x75 Hex Bolt Assembly Hex Bolt

Attachment Details

Flyover:

☐ Extender Bracket



☐ Fascia Upstand Bracket

Fascia Upstand Bracket (Gal PC)

(To suit 100mm, 150mm, 200mm Beam)

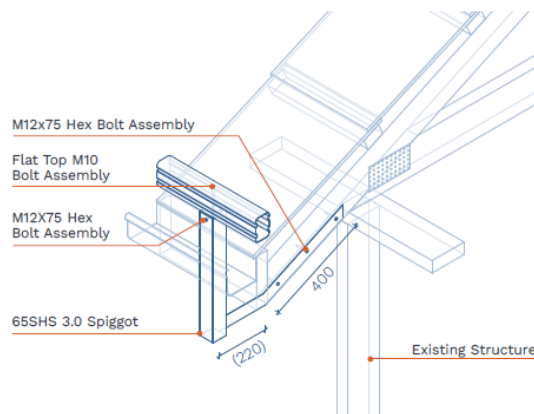
Maximum Contributory Hold Down Area (m²)

10mm Plate Thickness

N2	N3	N4	C1	C2	C3
12.4	7.58	4.96	7.58	4.96	3.29

Max. Tributary Area—Fascia Upstand Bracket

Wind Class	Max. Area—m ²
N2	12.4
N3	7.58
N4	4.96
C1	7.58
C2	4.96
C3	3.29



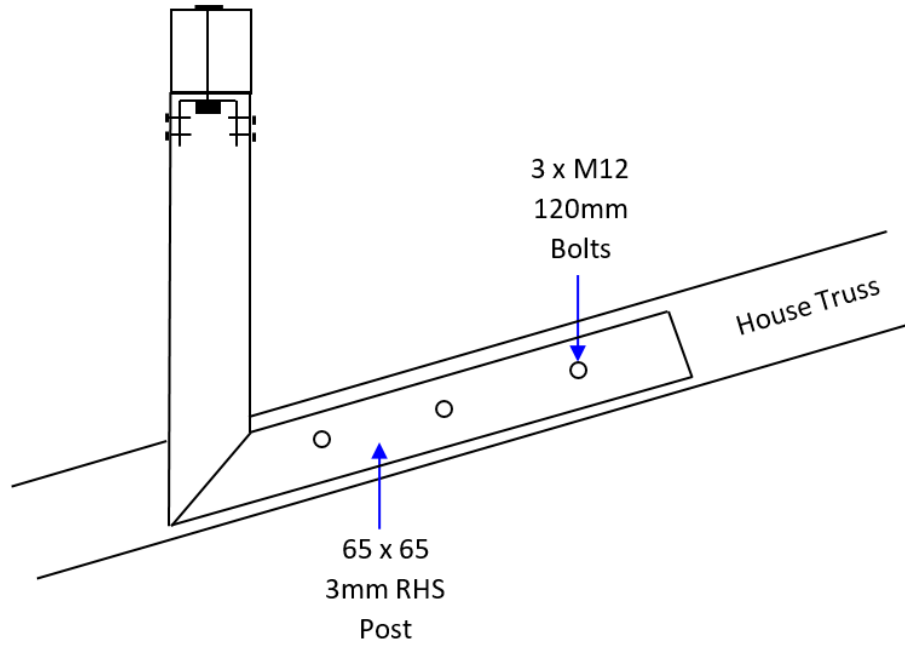
Notes 4 x 10x16 Tek Screws can be used instead of 1 x Flat Head Bolt.

Attachment Details

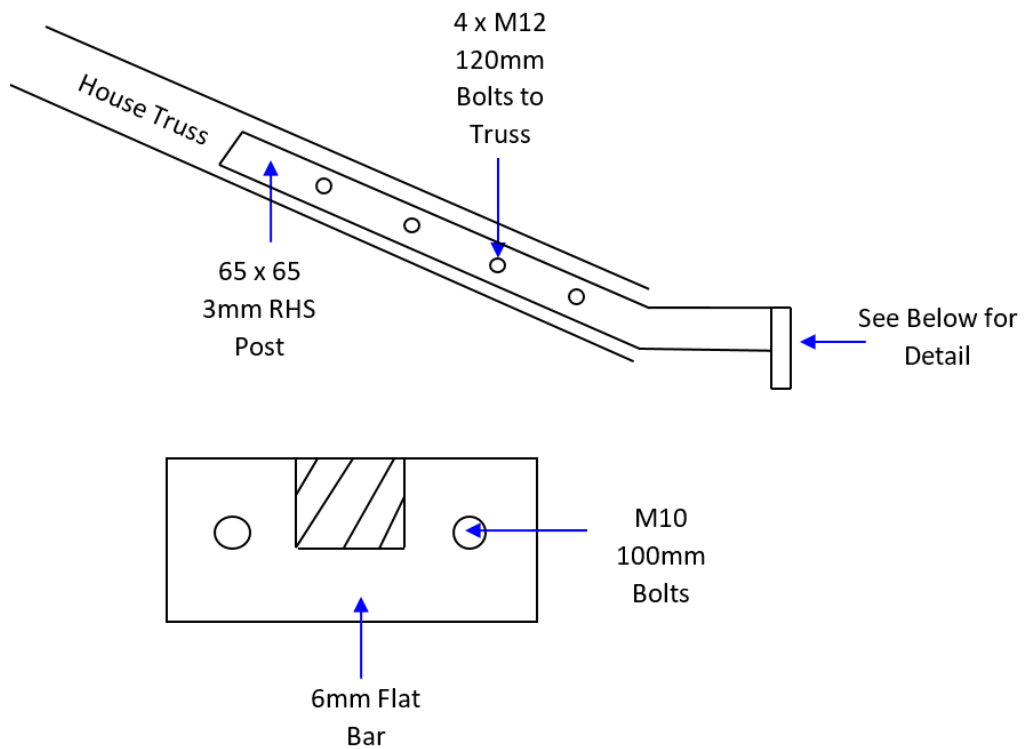
Flyover:



Tick Bracket



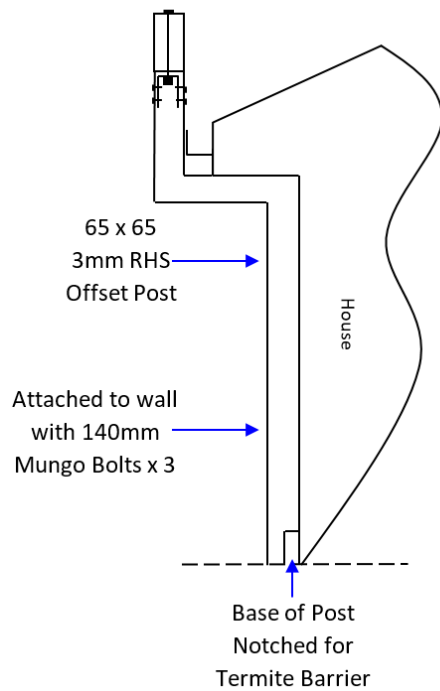
Gable Bracket



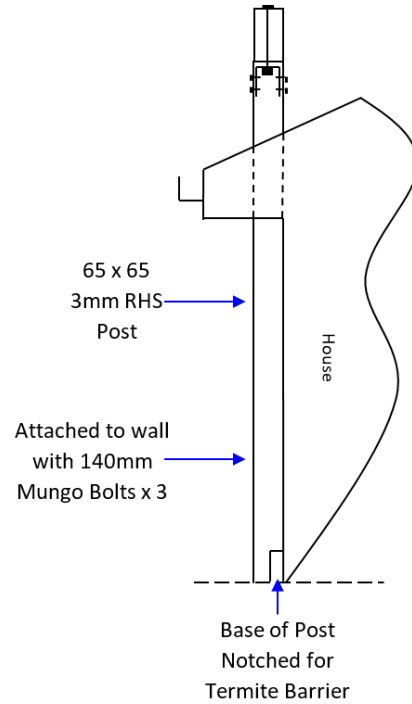
Attachment Details

Flyover:

☐ Offset Post

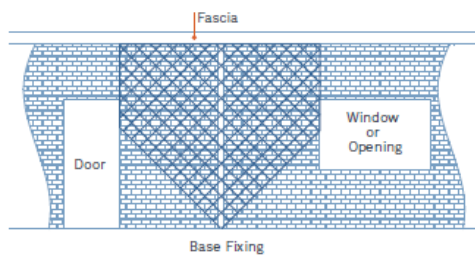


☐ Post through Roof/Fascia

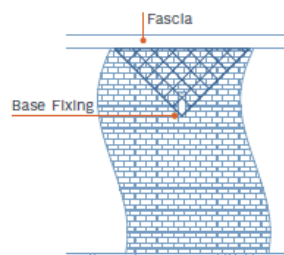


Anchor Capacity of Brickwork

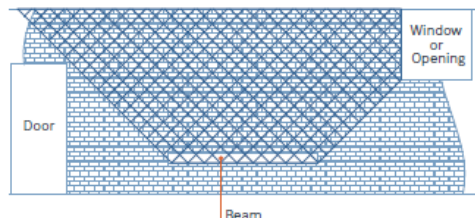
Post



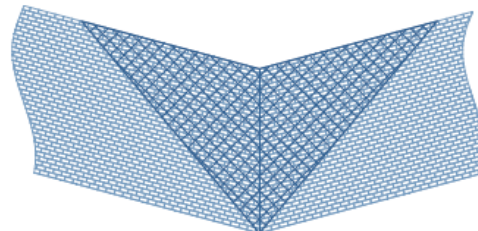
Beam End Cap/Beam Bracket



Beams



Corner



The area of the wall that can be considered effective to provide anchor resistance is that within a 45 degree zone from the base fixing to the top of the wall, excluding any openings. Average Brickwork—110 mm.

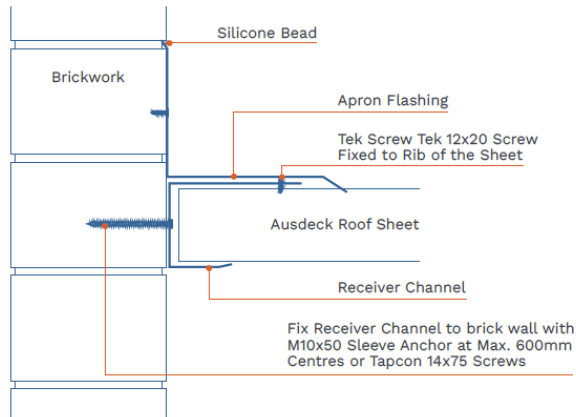
Dead Load = 1.9 kN Per M2 of Average Brickwork. Calculate the area of brickwork above the base fixings as per diagram above and multiply by 1.9 = Maximum kN Capacity.

Attachment Details

Wall:

- ☐ Timber (See detail for attached to timber fascia)
- ☐ Brick/Block

Receiver Channel to Brick/Masonry Wall



Fix the receiver channel every 600mm to the wall with M10x50 Sleeve Anchor for the brickwork that you are attaching to. Or fix Tapcon 14x75 Screw every 450mm (not suitable for structures with no eaves or two storey with blueboard over brick).

Receiver Channel to Beam:



Receiver Channel to Beam Connections

100mm



Wind Class	Max Spans (mm)
N1, N2, N3, N4	5200
C1, C2	4500
C3	3950

150mm



Wind Class	Max Spans (mm)
N1, N2, N3, N4	6800
C1, C2	5900
C3	5150

200mm



Wind Class	Max Spans (mm)
N1, N2, N3, N4	8000
C1, C2	6950
C3	6100

Attachment Details

Receiver
Channel
to
Receiver
Channel:

- ☐ No Reinforcement
- ☐ Single Reinforcement
- ☐ Double Reinforcement

Back to Back Receiver Channel Using No Reinforcement

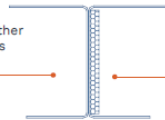
Fix receiver channel together
using 5mm diameter bolts
Max 500mm centres



Wind Class	Max Spans (mm)
N1, N2, N3, N4	3400
C1, C2	2950
C3	2600

Back to Back Receiver Channel Using Single Reinforcement Bar

Fix receiver channel together
using 5mm diameter bolts
Max 500mm centres

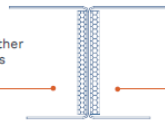


60mm x 5mm flat
reinforcement bar

Wind Class	Max Spans (mm)
N1, N2, N3, N4	3500
C1, C2	3000
C3	2650

Back to Back Receiver Channel Using Double Reinforcement Bar

Fix receiver channel together
using 5mm diameter bolts
Max 500mm centres



60mm x 5mm flat
reinforcement bar

Wind Class	Max Spans (mm)
N1,N2,N3, N4	3700
C1, C2	3200
C3	2800

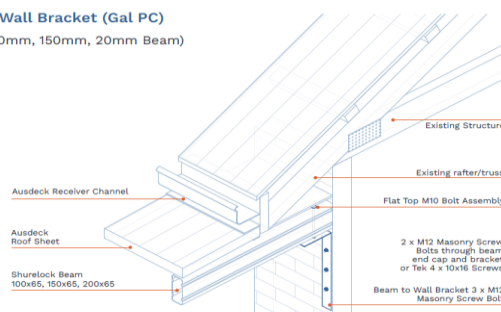
Free-
standing:



Beam to
Wall
Bracket:



Beam to Wall Bracket (Gal PC) (To suit 100mm, 150mm, 200mm Beam)



Max. Tributary Area—Beam to Wall Bracket

Beam to Wall Bracket (mm)	Max. Area—m²									
	Open/Partially Enclosed					Enclosed				
	450'	900'	1800'	1800'	450/900/1800'	450'	900'	1800'	1800'	450/900/1800'
N2	4.2	9.0	11.0	17.1	12.0	2.7	5.9	7.2	11.8	7.9
N3	2.7	5.8	7.0	11.1	7.7	1.7	3.8	4.6	7.3	5.0
N4	1.7	3.9	4.7	7.4	5.2	1.1	2.5	3.1	4.8	3.4
C1	2.7	5.8	7.0	11.1	7.7	1.7	3.8	4.6	7.3	5.0
C2	1.7	3.9	4.7	7.4	5.2	1.1	2.5	3.1	4.8	3.4
C3	1.35	2.9	3.5	5.5	3.8	0.8	1.9	2.3	3.6	2.5

1 Single Storey with lined soffit
2 Single Storey with/out lined soffit
3 Double Storey

Attachment Details

Beam
End
Cap to
Wall:



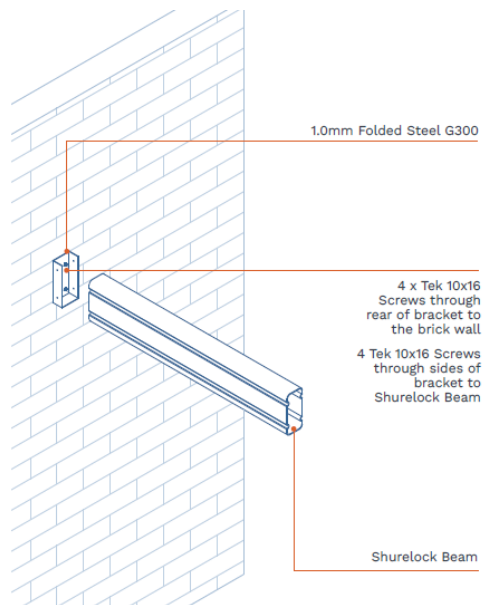
Beam End Cap Bracket to Masonry Wall

(To suit 100mm, 150mm, 200mm Beam)

Max. Tributary Area*—Beam End Cap Bracket

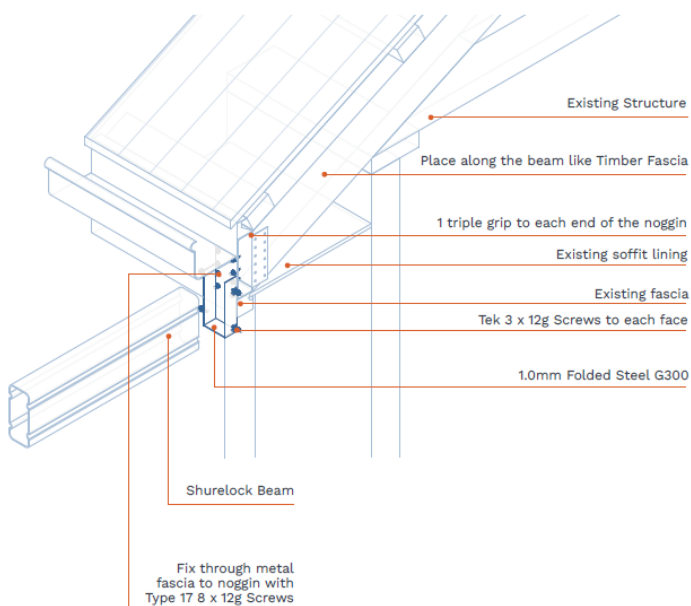
Wind Class	Max. Area—m ²	
	Open/Partially Enclosed	Enclosed
N1/N2	27.0	17.8
N3	17.9	11.2
N4	11.4	7.5
C1	17.0	11.2
C2	11.4	7.5
C3	8.6	5.6

*Recommended fixings: Tek 8 x 10x16 Screws
Notes Suitable for coreflute block work masonry.
For other masonry types please consult an engineer.

Fascia
Bracket:

Fascia Hanging Bracket

(To suit 100mm, 150mm, 200mm Beam)



Max. Tributary Area—
Fascia Hanging Bracket

Wind Class	Max. Area—m ²
N2	12.5
N3	8.7
N4	5.6
C1	8.7
C2	5.6
C3	3.7

Notes Figures shown are per bracket. Capacity of existing tie down/truss must be checked for structural adequacy prior to any construction.

Attachment Details

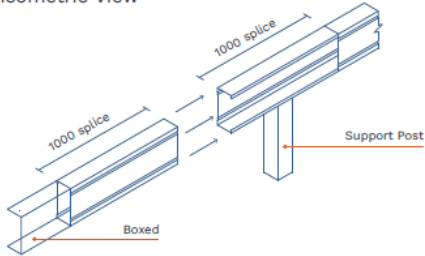
Beam Join
Connections:



Beam Splice Connection

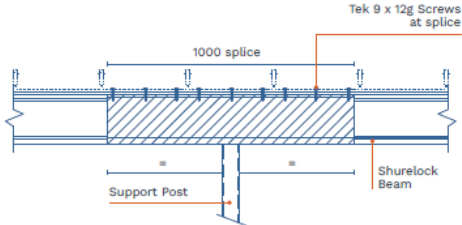
Beam Splice Connection

Isometric View



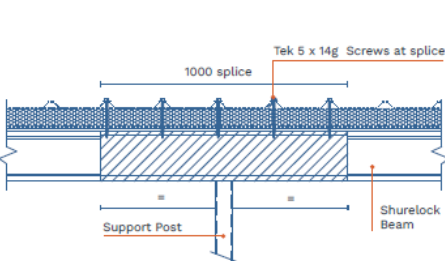
V-Line Single-Skin Roofing

Elevated View



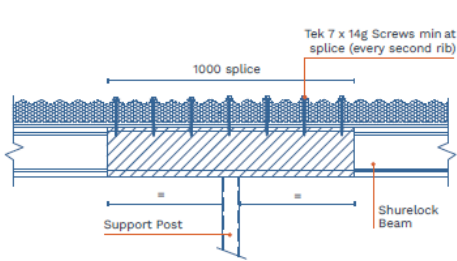
Ribbed Insulated Roofing

Elevated View

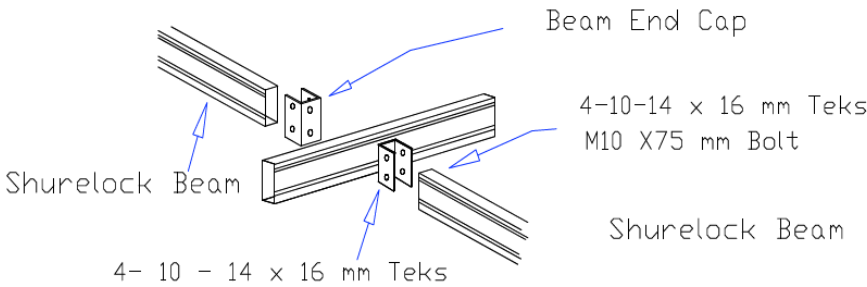


Corrugated Insulated Roofing

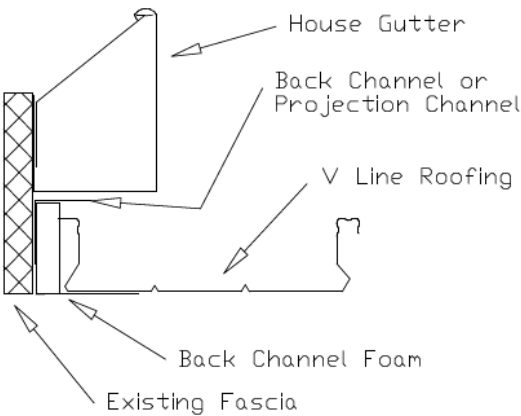
Elevated View



Beam to
Internal
Beam:



Projection
Channel:

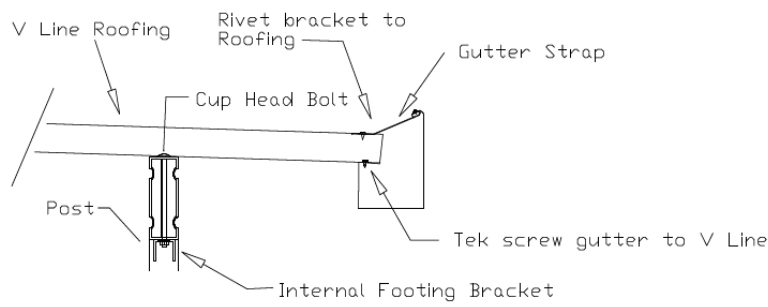


Attachment Details

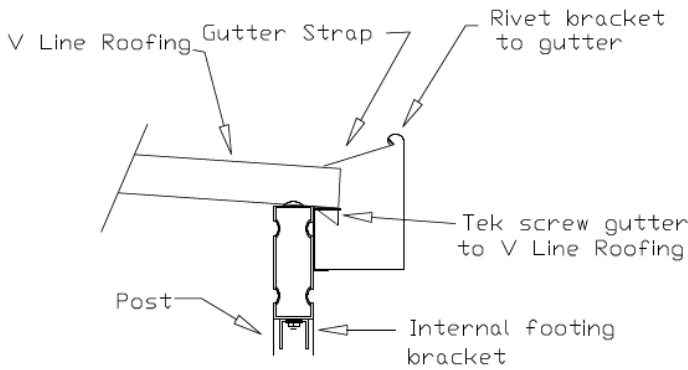
Gutter Attachment:



Sheet Overhang



No Sheet Overhang



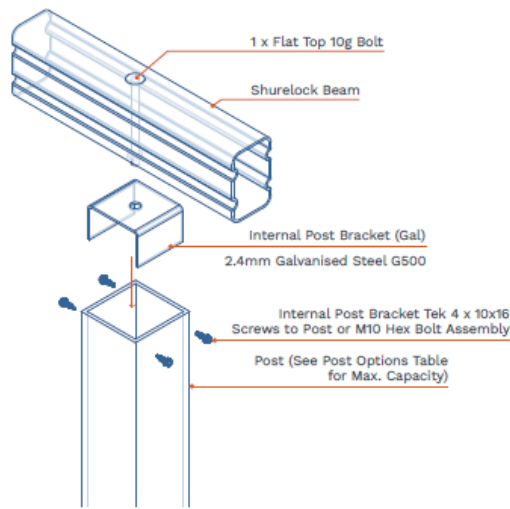
Post to Beam Connections:



Internal Post Bracket SHS

Internal Post Bracket (Gal)

(To suit 65mm, Post) Max. load 9.5kN



Notes: Not suitable for freestanding structures.
4 x 10x16 Tek Screws can be used instead of 1 x Flat Head Bolt.

Max. Tributary Area*—Internal Post Bracket (gal)

Wind Class	Max. Area—m ²	
	Open/Partially Enclosed (Cp,n 0.8)	Enclosed (Cp,n 1.2-1.6)
N1/N2	21.6	14.4
N3	13.8	9.2
N4	9.3	6.2
C1	13.8	6.9
C2	9.3	4.6
C3	6.3	3.2

*Enclosed Cp,n 1.2 (non cyclonic) 1.6 (cyclonic).

Attachment Details

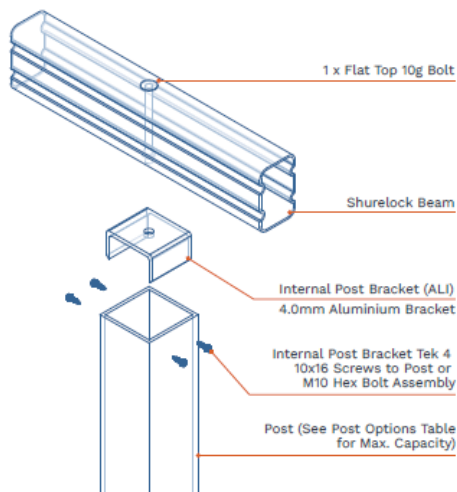
Post to Beam
Connections:



Internal Post Bracket Alum

Internal Post Bracket (Ali)

(To suit 65mm Post)



Max. Tributary Area*—Internal Post Bracket (Ali)

Wind Class	Max. Area—m ²	
	Open/Partially Enclosed	Enclosed
N1/N2	14.4	9.6
N3	9.2	6.2
N4	6.2	4.1
C1	9.2	4.6
C2	6.2	3.1
C3	4.2	2.1

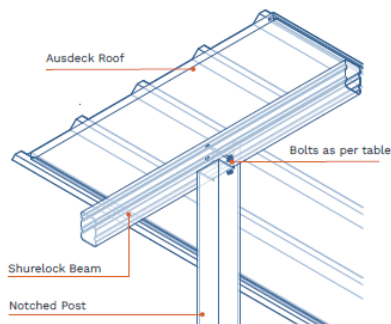
Notes: Not suitable for freestanding structures. 4 x 10x16 Tek Screws can be used instead of 1 x Flat Head Bolt.

Post to Beam
Connections:



Notched Post

Notched Post for Steel, Aluminium and Timber



Maximum Area of Roof Tied Down by Bolted Connection

Post size	Required Bolts	Max. Area—m ²														
		Freestanding			Wall to One Side			Wall to Two Sides			Wall to Three Sides			Enclosed		
		N1/N2	N3	N4	N1/N2	N3	N4	N1/N2	N3	N4	N1/N2	N3	N4	N1/N2	N3	N4
90x90 ALI 2.0	2 x M10	14.8	9.0	5.9	10.2	6.3	4.1	6.2	3.9	2.6	4.2	2.6	1.7	5.7	3.5	2.3
	2 x M12	17.8	10.8	7.0	12.2	7.5	4.9	7.5	4.7	3.1	5.0	3.2	2.1	6.8	4.3	2.8
89x89 SHS 2.0	2 x M10	21.6	13.1	8.5	14.8	9.1	6.0	9.1	5.7	3.7	6.1	3.8	2.5	8.3	5.2	3.4
	2 x M12	25.9	15.7	10.3	17.7	10.9	7.2	10.9	6.8	4.5	7.3	4.6	3.0	9.9	6.2	4.1
100x100 SHS 3.0	2 x M10	21.6	13.1	8.5	14.8	9.1	6.0	9.1	5.7	3.7	6.1	3.8	2.5	8.3	5.2	3.4
	2 x M12	25.9	15.7	10.3	17.7	10.9	7.2	10.9	6.8	4.5	7.3	4.6	3.0	9.9	6.2	4.1
90TIMB	2/M12				17.2	10.4	6.7	9.4	5.8	3.8	9.4	5.8	3.8	9.4	5.8	3.8

Attachment Details

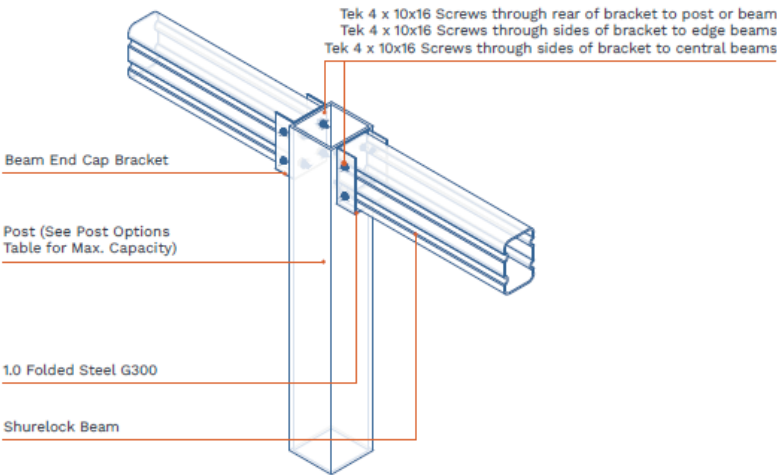
Post to Beam
Connections:



Beam End Cap Bracket to Post

Beam End Cap Bracket to Post

(To suit 65mm, 89mm, 100mm, 150mm Post)



Notes Suitable for straight or L configurations.

Max. Tributary Area*—Beam End Cap Bracket

Wind Class	Max. Area—m ²	
	Open/Partially Enclosed	Enclosed
N1/N2	27.0	17.8
N3	17.9	11.2
N4	11.4	7.5
C1	17.0	11.2
C2	11.4	7.5
C3	8.6	5.6

*Recommended fixings: Tek 8 x 10x16 Screws

Footings Details

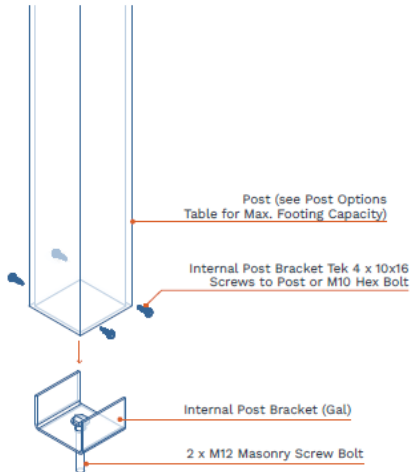
On Slab
(Alum or
SHS):



Internal Bracket SHS

Internal Post Bracket (Gal)

(To suit 65mm, 89mm, 100mm Post)



Notes Not suitable for freestanding structures.

Max. Tributary Area*—Internal Post Bracket (Gal)

Wind Class	Max. Area—m ²	
	Open/Partially Enclosed (Cp,n 0.8)	Enclosed, Enclosed Cp,n 1.2 (non cyclonic) 1.6 (cyclonic)
N1/N2	12.0	8.0
N3	7.7	5.1
N4	5.2	3.4
C1	7.7	3.8
C2	5.2	2.6
C3	3.5	1.8

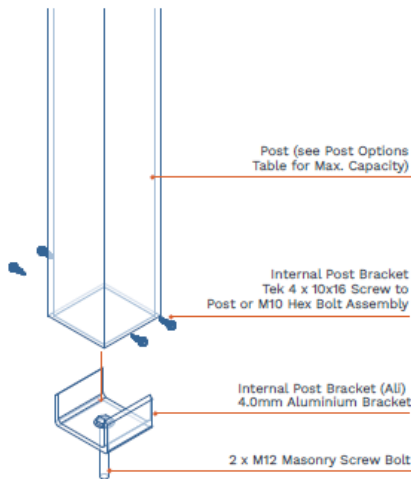
*Recommended Fixings: M12 Masonry Screw Bolt.



Internal Bracket Alum

Internal Post Bracket (Ali)

(To suit 65mm, 90mm, 100mm, 150mm Post)



Notes Not suitable for freestanding structures.

Max. Tributary Area*—Internal Post Bracket (Ali)

Wind Class	Max. Area—m ²	
	Open/Partially Enclosed (Cp,n 0.8)	Enclosed, Enclosed Cp,n 1.2 (non cyclonic) 1.6 (cyclonic)
N1/N2	12.0	8.0
N3	7.7	5.1
N4	5.2	3.4
C1	7.7	3.8
C2	5.2	2.6
C3	3.5	1.8

*Recommended Fixings: M12 Masonry Screw Bolt.

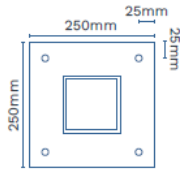
Footing Details



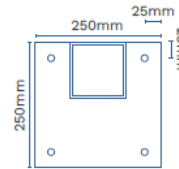
External Bracket/Base Plate

Welded Post Base Plates (Gal)

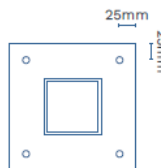
(To suit 89mm, 100mm Post)



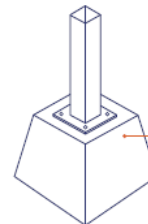
Post Size	Base Plate Size	Max. load
89x89 x 2.0 SHS	10mm	36.8
89x89 x 3.5 SHS	10mm	45.0
100x100 x 3.0 SHS	10mm	49.0



Post Size	Base Plate Size	Max. load
89x89 x 2.0 SHS	10mm	36.8
89x89 x 3.5 SHS	10mm	45.0
100x 00 x 3.0 SHS	10mm	49.0



Minimum Edge Distance to Bolts	
M10	100mm
M12	120mm



M12 Masonry Screw Bolt to concrete footing or slab with welded post base plate

Notes For attached patios, posts can be located at the centre edge of the base plate, provided the bolt locations remain unchanged. Welded post base plate as per 89x89 and 100x100 SHS post with 10mm thick steel plate. All bolts/sleeve anchors to be installed strictly in accordance with manufacturers specifications and data sheets. Post-footing connection details to be selected according to anchor load requirements.

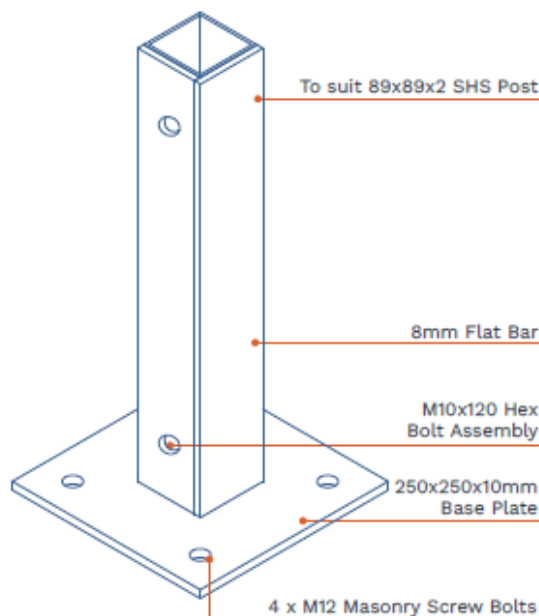


External Bracket/Base Plate Sleeve

Post to Slab Base Plate (Gal)

(To suit 90mm Post)

Max. load 20.4kN



Footing Details

In
Ground
(Alum
or SHS):

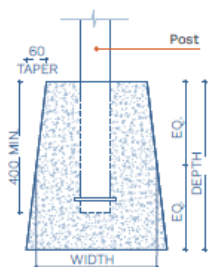
- ☐ Min. 600 x 300 x 300
- ☐ 750 x 450 x 450
- ☐ 900 x 450 x 450
- ☐ Other (Specify)

Post Options for Freestanding Structures

Post Type	Post Size	Roof Area Up To	Max. Height (mm)
Steel Posts	89x89 x 2.0	20m ²	3000
	100x100 x 3.0	40m ²	3600
	100x100 x 3.0	60m ²	3600

Notes Not applicable to Aluminium Posts

Post Options for Attached Structures



Inground post 400mm minimum to ground

Post cast into concrete footing SHS posts to be plastic wrapped and sealed to resist corrosion (min. N12 x 200 rod or bolt through with 4 x 400mm screws)

*By increasing the number of posts and/or flyover brackets, you can reduce your Anchor Load and footing size.

Post Options for Attached Structures

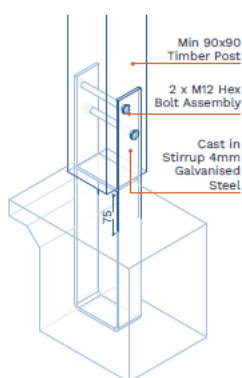
Post Type	Post Size	Max. Height (mm)
Steel Posts	89x89 x 2.0	5600
	100x100 x 3.0	5800
	100x100 x 5.0	6000
Aluminium Posts 6063-T5	65x65 x 2.0	3950
	90x90 x 2.5	4000
	100x100 x 6.0	4500
	150x150 x 3.0	4500

Timber:

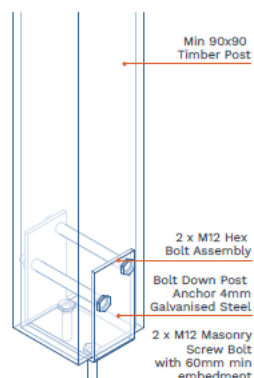
☐ On Slab

☐ In Ground

Cast in Stirrup for Timber Posts



Bolt Down Post Anchor for Timber Posts



Notes For engineering requirements refer to the manufacturer specifications. Cast in Stirrup and Bolt Down Post Anchor not a sold item. For footing requirements refer to the Footing Capacities table on page 66. *For freestanding structure refer to page 44 and 46.

Max. Tributary Area*—Cast In Stirrup

Wind Class	Max. Area—m ²			
	Wall on One Side	Wall on Two Sides	Wall on Three Sides	Fully Enclosed
N1/N2	57.3	31.2	31.2	31.2
N3	34.6	19.3	19.3	19.3
N4	22.5	12.7	12.7	12.7

*Slab is to be min of 20MPa, 100mm thick with F62 reinforcement

Max. Tributary Area*—Bolt Down Post Anchor

Wind Class	Max. Area—m ²		
	Wall on One Side	Wall on Two Sides	Wall on Three Sides
N1/N2	6.9	3.7	3.7
N3	4.2	2.3	2.3
N4	2.7	1.5	1.5

*Slab is to be min of 20MPa, 100mm thick with F62 reinforcement