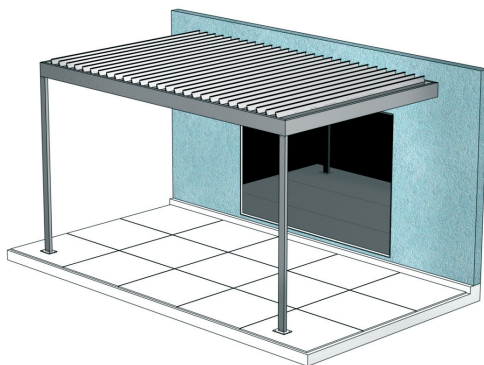


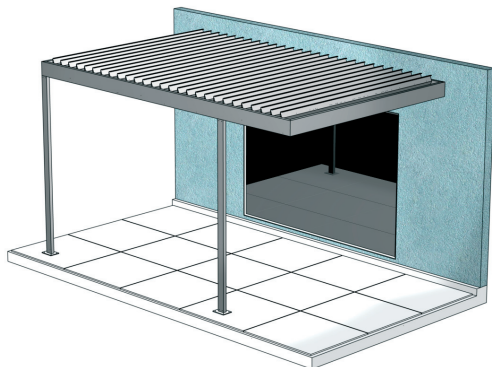
TYPICAL DETAIL // ALUMINIUM BEAM & POST STRUCTURES

THREE BASIC BEAM DESIGNS

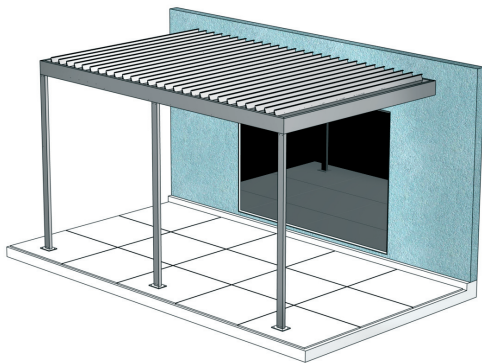
// 1. SIMPLY SUPPORTED



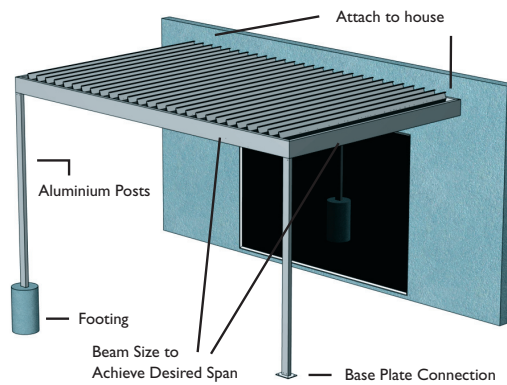
// 2. SINGLE CANTILEVER



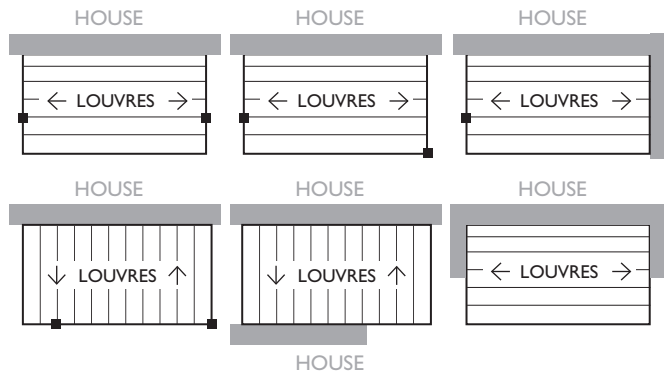
// 3. CONTINUOUS SPAN



TYPICAL ALUMINIUM BEAM & POST ASSEMBLY



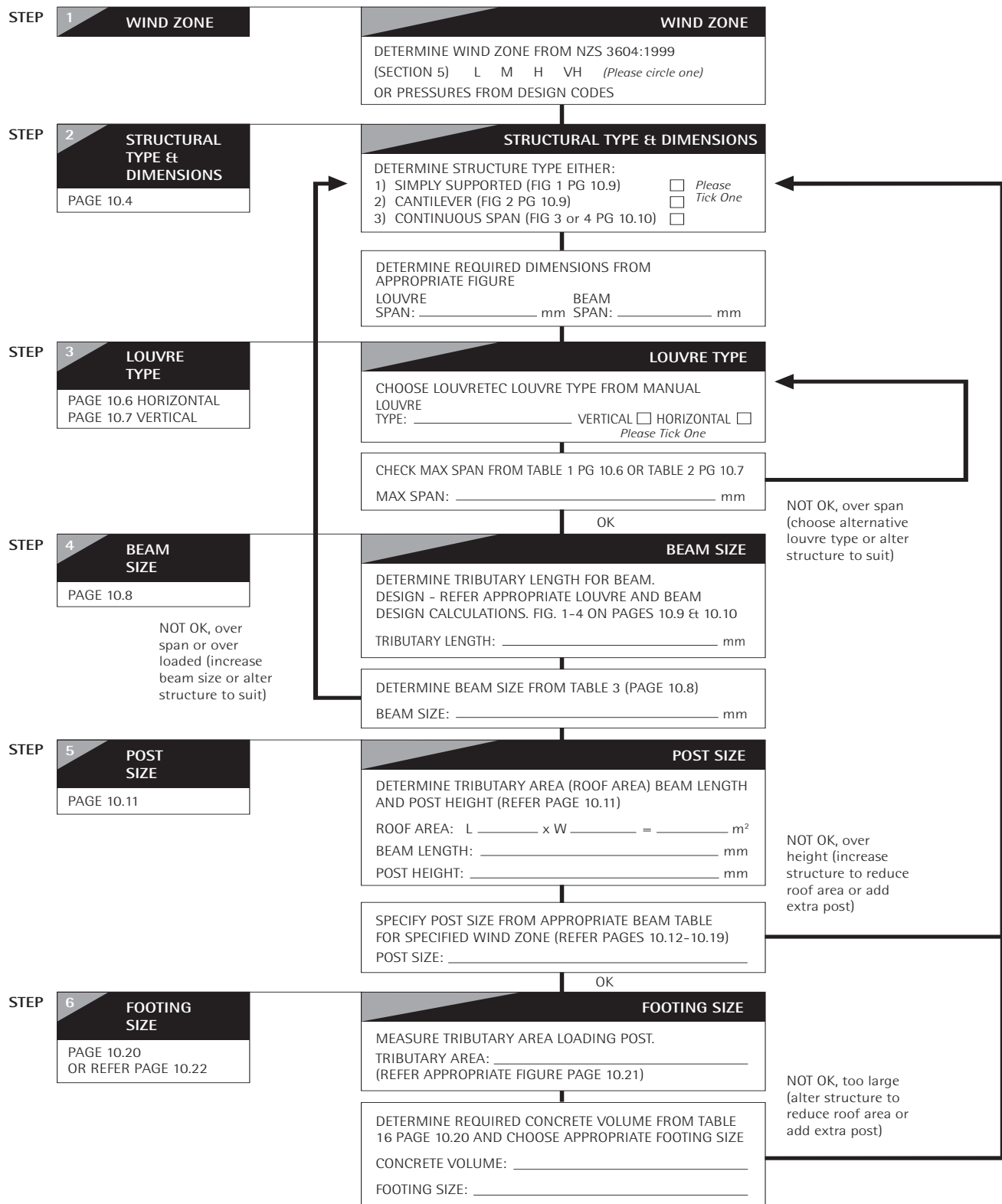
CONFIGURATIONS AVAILABLE



Refer to section 12 for full engineering details.

ALUMINIUM BEAMS	ALUMINIUM POSTS
150 x 50 x 3	50 x 50 x 3
2/150 x 50 x 3	
200 x 50 x 3	75 x 50 x 3
2/200 x 50 x 3	
250 x 50 x 3	75 x 75 x 3
2/250 x 50 x 3	
300 x 50 x 3	100 x 50 x 3
2/300 x 50 x 3	
	100 x 100 x 3

TYPICAL DETAIL // ENGINEERING SPECIFIERS GUIDE



engineering - louvre calculation

PLEASE REFER TO ENGINEERING REFERENCES AND DESIGN INFORMATION - PAGES 12.01, 12.02






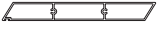
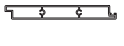
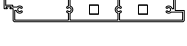




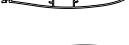




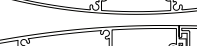

// STEP 1 - DETERMINE WIND ZONE

// STEP 2 - DETERMINE STRUCTURE TYPE

LOUVRE TYPE HORIZONTAL






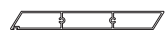








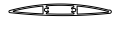


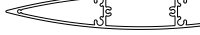

SPANS FOR HORIZONTAL LOUVRES (ROOF OR WALL)

TABLE I

Wind Zone	Maximum Louvre Span (mm)				
	Inside (self wt)	L	M	H	VH
Factored wind speed at building		115km/h	133km/h	158km/h	179km/h
		32 m/s	37 m/s	44 m/s	50 m/s
Ultimate limit state loads (kPa)		+1.1	+1.48	+2.09	+2.70
		-1.38	-1.85	-2.61	-3.38
Louvre Type					
 180 Classic Opening Roof	4500	3900	3750	3200	2800
 180 Linear Opening Roof	3900	3750	3400	3000	2750
 260 Translucent Opening Roof	5200	3100	2700	2300	2050
 200 Direct Drive Opening Roof	4500	3900	3750	3200	2800
 125 Louvre Line Weatherboard Panel	2600	2500	2300	2050	1900
 180 Louvre Line Weatherboard Panel	3200	3050	2800	2500	2300
 120 Louvre Line Flush Panel	2600	2500	2300	2050	1900
 200 Louvre Line Flush Panel	3500	3350	3000	2650	2450
 40mm Mini Louvre	1500	1350	1200	1100	1000
 58mm Mini Louvre - Slimline 60	1700	1600	1400	1300	1200
 70mm Mini Louvre	2050	1900	1700	1500	1400
 90mm Midi Louvre	2350	2000	1850	1600	1500
 150mm Midi Louvre	2900	2750	2500	2200	2000
 95mm Midi Louvre - Slideline 100	2600	2300	2100	1850	1650
 120mm Airfoil	2400	2300	2100	1850	1700
 180mm Airfoil	3100	2950	2700	2400	2200
 200mm Maxi	3700	3700	3550	2950	2600
 300mm Maxi	4800	4800	4800	4200	3700
 600mm Maxi	7150	6550	5600	4700	4100

engineering - louvre calculation

LOUVRE TYPE VERTICAL

SPANS FOR VERTICAL LOUVRES (WALL LOADING)						TABLE 2
Wind Zone	Inside (self wt)	Maximum Louvre Span (mm)				
		L	M	H	VH	
Factored wind speed at building		115km/h	133km/h	158km/h	179km/h	
		32 m/s	37 m/s	44 m/s	50 m/s	
Ultimate limit state loads (kPa)		0.84	1.13	1.6	2.06	
Louvre Type						
 180 Classic Opening Roof	5000	4400	4200	3850	3500	
 180 Linear Opening Roof	4500	4100	3900	3500	3200	
 260 Translucent Opening Roof	3700	3500	3100	2600	2300	
 200 Direct Drive Opening Roof	5000	4400	4200	3850	3500	
 125 Louvre Line Weatherboard Panel	3100	2900	2700	2500	2300	
 180 Louvre Line Weatherboard Panel	3700	3500	3200	2850	2650	
 120 Louvre Line Flush Panel	3100	2900	2700	2500	2300	
 200 Louvre Line Flush Panel	4200	3800	3400	3000	2800	
 40mm Mini Louvre	1600	1550	1400	1250	1150	
 58mm Mini Louvre - Slimline 60	1900	1800	1650	1500	1350	
 70mm Mini Louvre	2300	2150	2000	1750	1600	
 90mm Midi Louvre	2400	2300	2100	1900	1750	
 150mm Midi Louvre	3300	3150	2900	2550	2350	
 95mm Midi Louvre - Slideline 100	2650	2600	2350	2150	1900	
 120mm Airfoil	2800	2650	2400	2150	1950	
 180mm Airfoil	3600	3400	3100	2750	2550	
 200mm Maxi	4700	4450	4050	3500	3100	
 300mm Maxi	6700	6400	5700	4900	4400	
 600mm Maxi	7800	7450	6550	5600	5000	

Notes:

This table is for louvres spanning vertically, and located within 1.0m of a building less than 10m in height. For a free standing structure specific design is required as loadings increase. The supporting structure and fixings must be checked / designed by a Chartered Professional Engineer and not taken from tables in this manual.

engineering - beam calculation

TO CALCULATE TRIBUTARY LENGTH FOR BEAMS

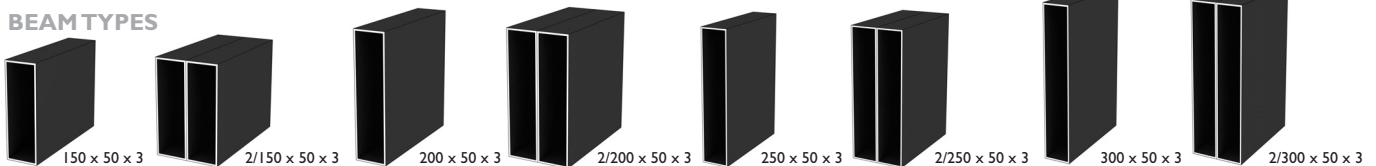
Typically the tributary length for simply supported beams only is half the length of the louvre span (refer note below)
Determining the Tributary length is shown through figures 1–4 on pages 10.09 and 10.10 of this engineering section.

Note: Care must be taken when calculating the tributary length for mid beams on continuous spanning structures as half the louvre span on either side of the beam may not be equal.

ROOF BEAM, SIMPLY SUPPORTED		TABLE 3								
		Max Beam Span (mm)								
Tributary length of louvres		1	1.5	2	2.5	3	3.5	4	4.5	5
Wind Zone	Beam Size (mm)									
L	150x50x3	3900	3450	3150	2900	2750	2550	2400	2250	2150
	2 / 150x50x3	4900	4300	3900	3650	3450	3300	3150	3000	2900
	200x50x3	5000	4400	4000	3700	3400	3150	2950	2750	2600
	2 / 200x50x3	6250	5500	5000	4700	4400	4200	4000	3850	3700
	250x50x3	6100	5350	4900	4450	4050	3750	3500	3300	3100
	2 / 250x50x3	7550	6700	6100	5700	5350	5100	4900	4650	4400
	300x50x3	7150	6300	5700	5100	4650	4300	4000	3800	3600
	2 / 300x50x3	8850	7800	7150	6650	6300	6000	5750	5500	5250
M	150x50x3	3600	3150	2850	2600	2350	2200	2050	1900	1800
	2 / 150x50x3	4500	4000	3600	3350	3150	3000	2850	2700	2550
	200x50x3	4650	4050	3550	3200	2900	2700	2500	2350	2250
	2 / 200x50x3	5800	5100	4650	4300	4050	3800	3600	3350	3200
	250x50x3	5650	4900	4250	3800	3450	3200	3000	2800	2700
	2 / 250x50x3	7000	6200	5650	5250	4900	4500	4200	4000	3750
	300x50x3	6600	5650	4900	4350	3950	3650	3450	3250	3050
	2 / 300x50x3	8200	7250	6600	6150	5800	5400	5000	4750	4500
H	150x50x3	3200	2800	2400	2150	1950	1800	1700	1600	1500
	2 / 150x50x3	4050	3500	3200	2950	2750	2500	2400	2250	2100
	200x50x3	4100	3450	2950	2650	2400	2250	2100	2000	1900
	2 / 200x50x3	5200	4500	4100	3800	3450	3200	3000	2800	2650
	250x50x3	5000	4100	3550	3150	2900	2700	2500	2350	2250
	2 / 250x50x3	6300	5500	5000	4450	4050	3750	3500	3300	3150
	300x50x3	5800	4700	4050	3650	3300	3050	2850	2700	2550
	2 / 300x50x3	7400	6500	5900	5300	4850	4500	4200	3950	3750
VH	150x50x3	2900	2450	2100	1900	1700	1600	1500	1400	1350
	2 / 150x50x3	3700	3200	2900	2650	2400	2250	2100	1950	1850
	200x50x3	3700	3000	2600	2300	2100	1950	1850	1700	1650
	2 / 200x50x3	4750	4100	3700	3300	3000	2800	2600	2450	2300
	250x50x3	4400	3600	3100	2800	2500	2350	2200	2050	1950
	2 / 250x50x3	5800	5000	4350	3900	3550	3300	3100	2900	2750
	300x50x3	5050	4100	3550	3200	2900	2700	2500	2350	2250
	2 / 300x50x3	6800	5900	5200	4650	4250	3900	3650	3450	3250

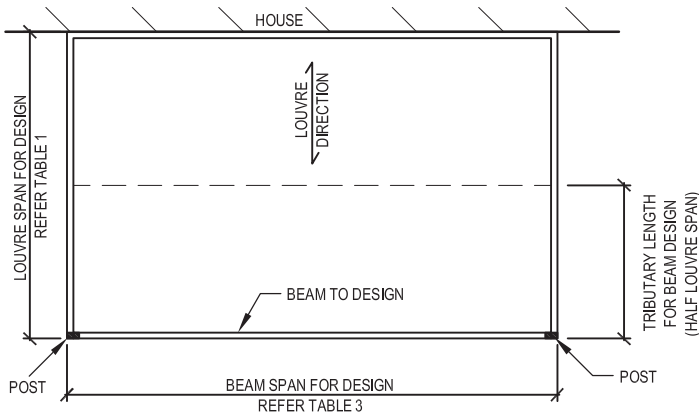
Fix double beams together with 2/10g x 25mm S/S Pan head self tapping screws 50mm in from top and bottom of box section at 900crs. Use continuous flexible sealant / adhesive along top and bottom between box sections.

BEAM TYPES

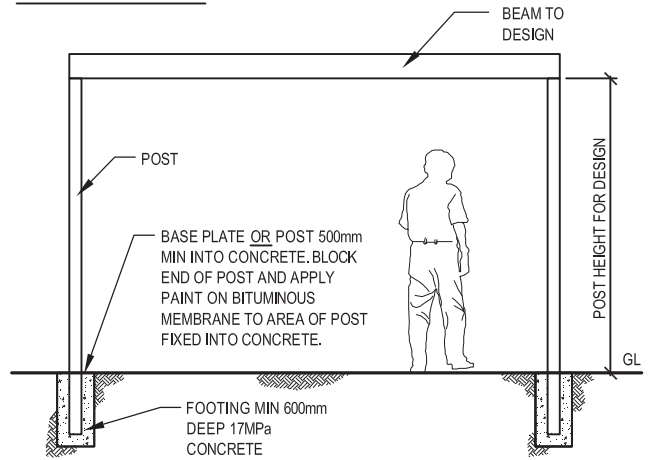


TYPICAL DETAIL // SIMPLY SUPPORTED BEAM FIGURE 1

Plan view / Louvre and Beam Design

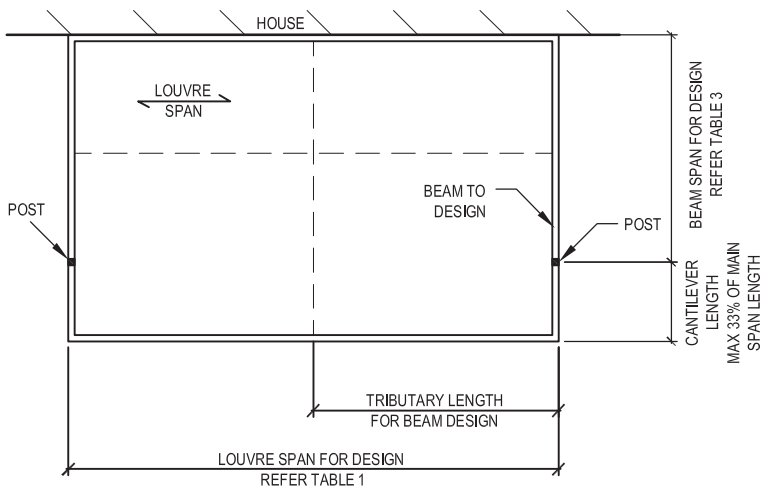


Front Elevation

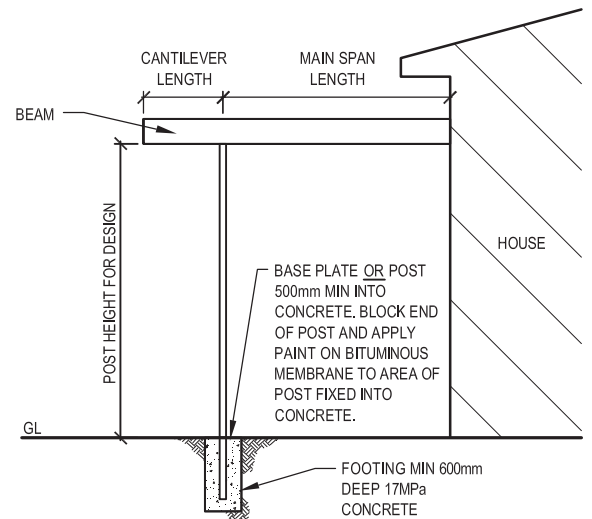


TYPICAL DETAIL // CANTILEVER BEAM FIGURE 2

Plan view / Louvre and Beam Design



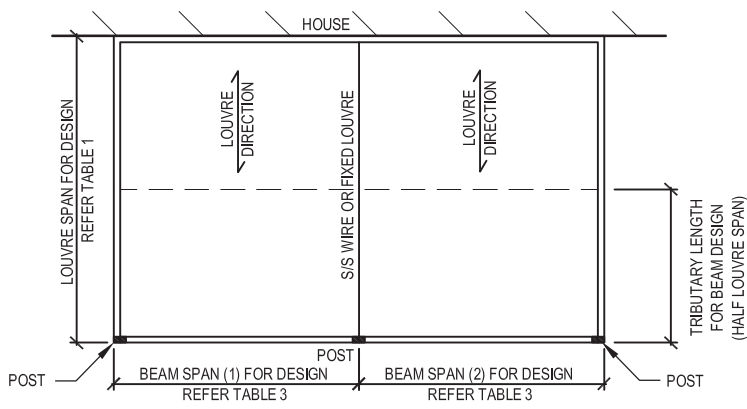
Front Elevation



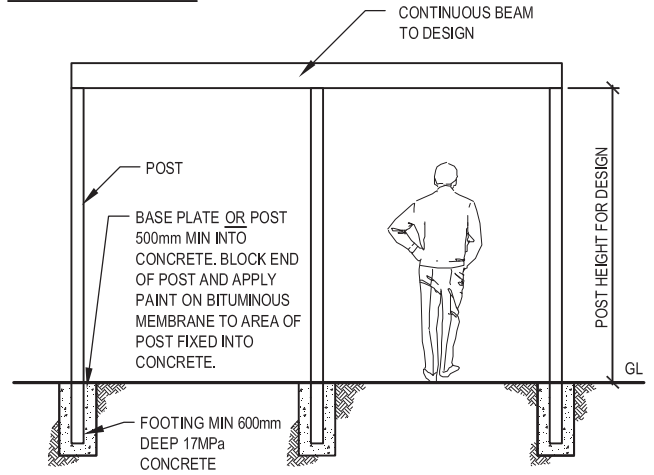
SCALE NTS

TYPICAL DETAIL // CONTINUOUS BEAM SPAN OPTION 1 FIGURE 3

Plan view / Louvre and Beam Design

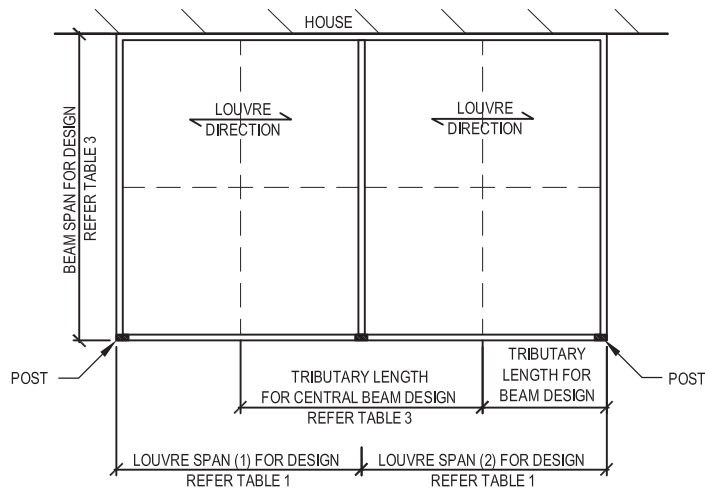


Front Elevation

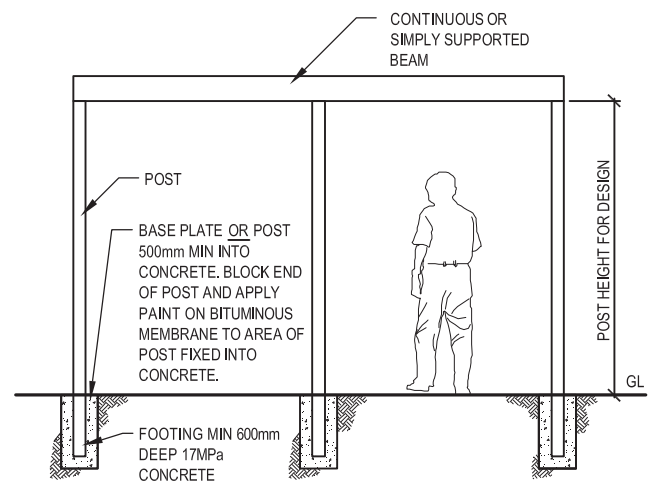


TYPICAL DETAIL // CONTINUOUS BEAM SPAN OPTION 2 FIGURE 4

Plan view / Louvre and Beam Design



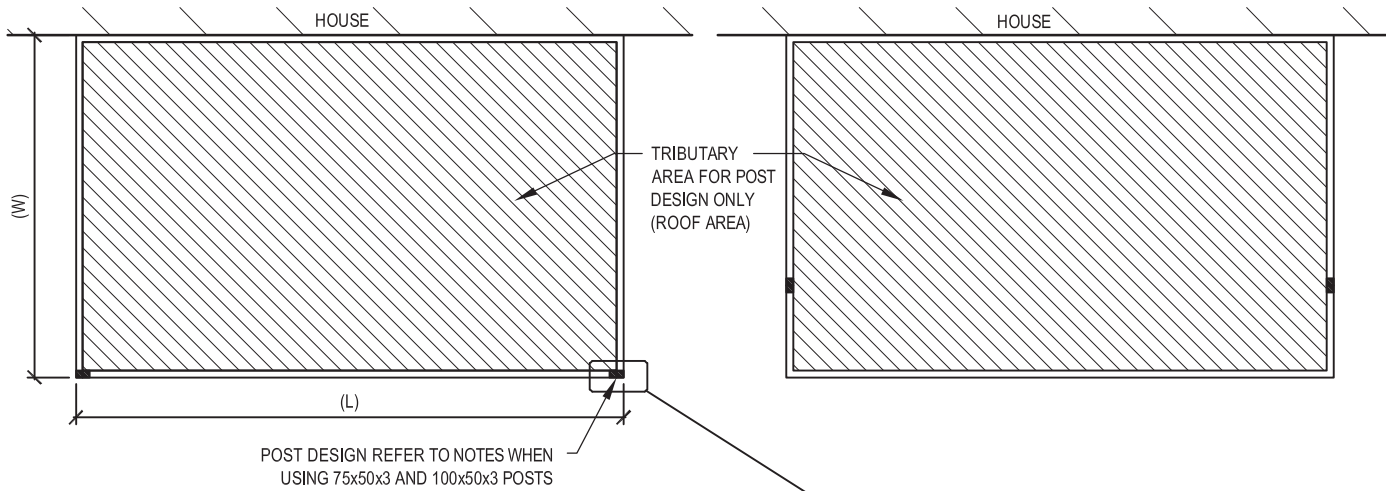
Front Elevation



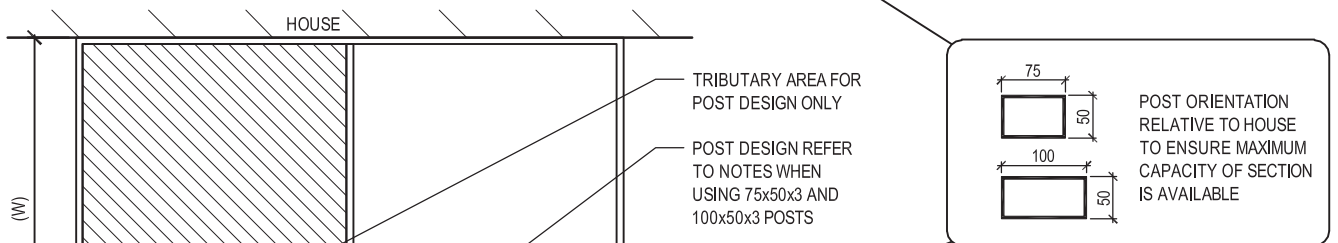
SCALE NTS

TYPICAL DETAIL // DETERMINING TRIBUTARY AREA & BEAM FIGURE 5

Plan - Simply Supported & Cantilever Frame



Plan - Continuous Beam Span



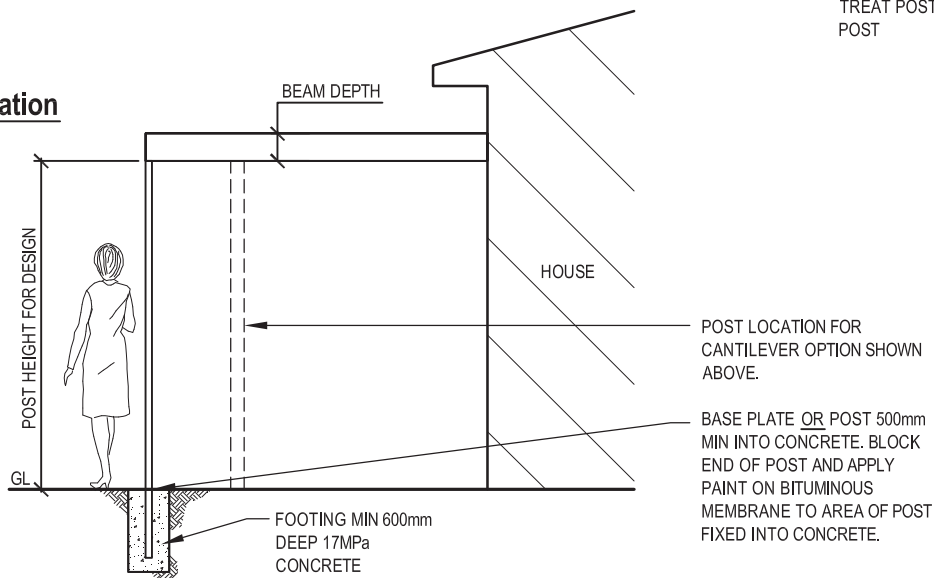
NOTES:

CARE MUST BE TAKEN USING POST SIZES 75x50x3 AND 100x50x3.

IF POSTS ARE PLACE ORIENTATION AS SHOWN USE POST SIZES IN TABLES

IF ORIENTATION IS 90° TO THAT SHOWN TREAT POST (FOR SIZING) AS A 50x50x3 POST

Side Elevation



SCALE NTS

engineering - post calculation

// LOW WIND ZONE

SPECIFYING POSTS

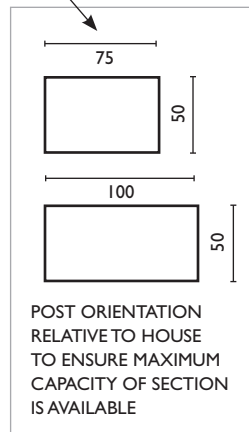
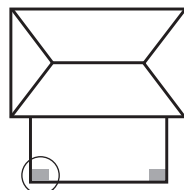
To use the following tables you need to have the beam length for design, know the tributary area (roof area) for the post and know the height of the post. Determining these values is shown in figure 5 on page 10.11

TO CALCULATE TRIBUTARY AREA FOR POSTS

The tributary area for post design only is the total area of the roof, typically length multiplied by width.

POST ORIENTATION

Care must be taken using post sizes 75x50x3 and 100x50x3. If posts are placed in orientation as shown use post sizes in tables. If orientation is 90° to that orientation treat post (for sizing) as a 50x50x3 post.



POST LOADS

Wind speeds taken from NZS 3604; 1999, are ultimate limit state wind speeds

- L = Low wind speed
- M = Medium wind speed
- H = High wind speed
- VH = Very high wind speed

Wind pressure had been calculated using AS/NZS 1170.2.2002

$$P_{nl} := (0.5 \text{ pair}) \cdot V \cdot s \cdot i \cdot t_{\beta} \cdot \text{any}^2 \cdot C_{fig} \cdot I \cdot C_{dyn} \cdot 10^{-3}$$

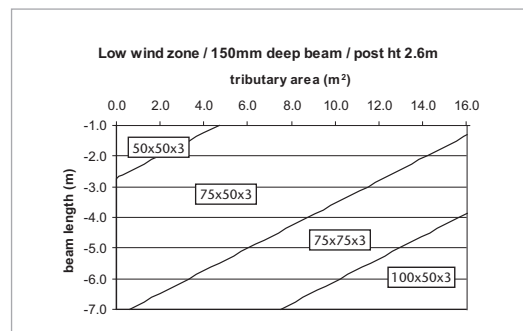
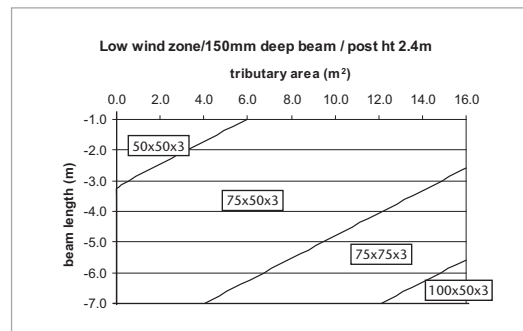
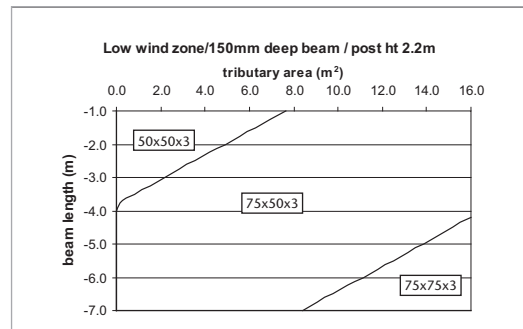
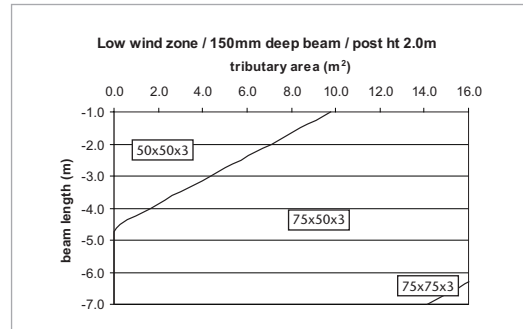
$$\text{pair} = 1.2 \text{ kg/m}^3, \text{kar} = 1.0, \text{ki} = 1.0$$

Pressure kPa	ULS capacity				SLS deflection			
	L	M	H	VH	L	M	H	VH
factored wind speed	32	37	44	50	27	31	37	42
vsit β at building	m/s	m/s	m/s	m/s	m/s	m/s	m/s	m/s

Cfig value	Drag force on beam							
1.45 coefficient	0.89	1.19	1.68	2.18	0.63	0.84	1.19	1.53

Cfig value	Drag force on roof							
0.04 coefficient	0.02	0.03	0.05	0.06	0.02	0.02	0.03	0.04

TABLE 4 // 150mm DEEP BEAM



engineering - post calculation

// LOW WIND ZONE

TABLE 5 // 200mm DEEP BEAM

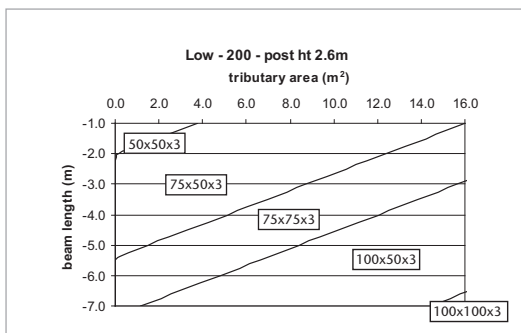
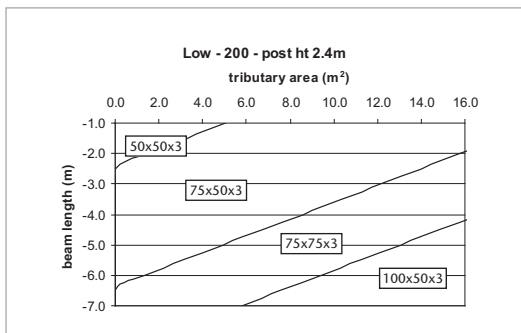
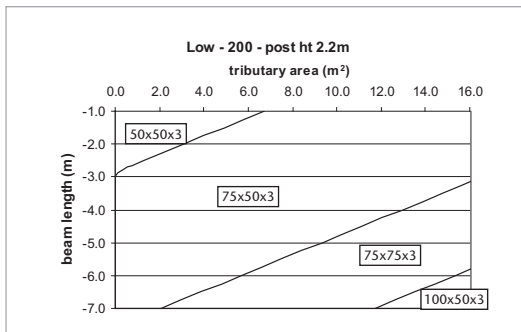
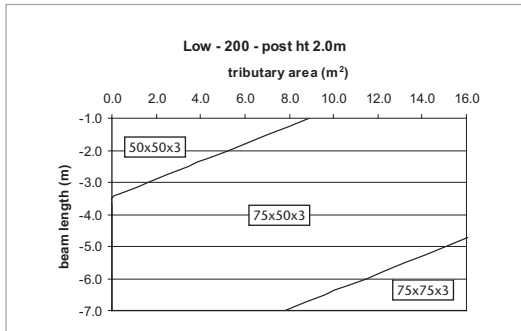
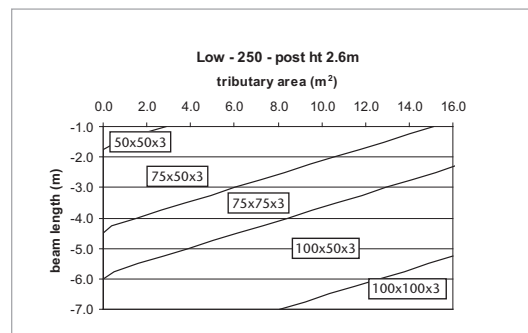
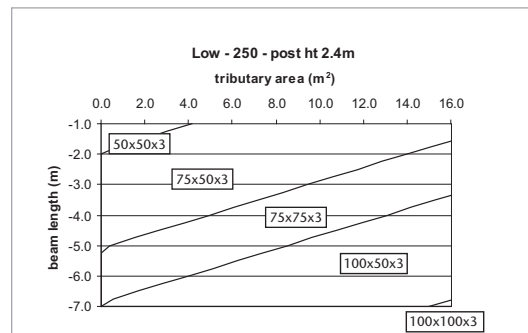
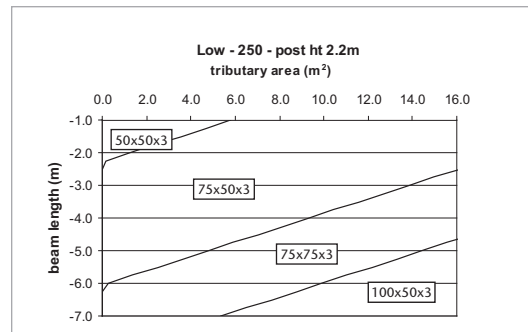
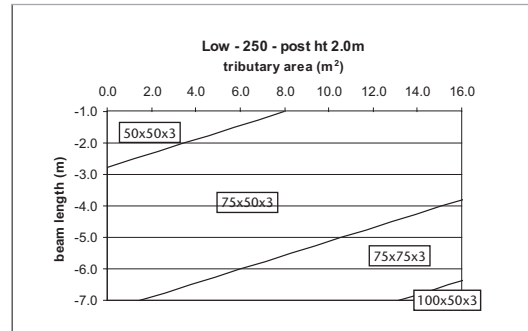


TABLE 6 // 250mm DEEP BEAM



engineering - post calculation

// MEDIUM WIND ZONE

SPECIFYING POSTS

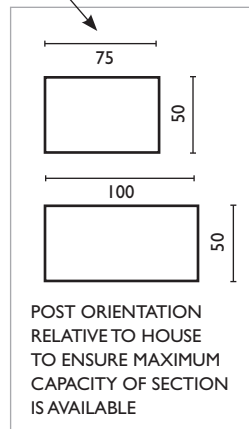
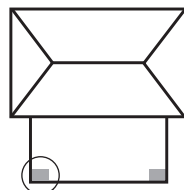
To use the following tables you need to have the beam length for design, know the tributary area (roof area) for the post and know the height of the post. Determining these values is shown in figure 5 on page 10.11

TO CALCULATE TRIBUTARY AREA FOR POSTS

The tributary area for post design only is the total area of the roof, typically length multiplied by width.

POST ORIENTATION

Care must be taken using post sizes 75x50x3 and 100x50x3. If posts are placed in orientation as shown use post sizes in tables. If orientation is 90° to that orientation treat post (for sizing) as a 50x50x3 post.



POST LOADS

Wind speeds taken from NZS 3604; 1999, are ultimate limit state wind speeds

- L = Low wind speed
- M = Medium wind speed
- H = High wind speed
- VH = Very high wind speed

Wind pressure had been calculated using AS/NZS 1170.2.2002

$$P_{nl} := (0.5 \text{ pair}) \cdot V \cdot s \cdot i \cdot t_{\beta} \cdot \text{any}^2 \cdot C_{fig} \cdot I \cdot C_{dyn} \cdot 10^{-3}$$

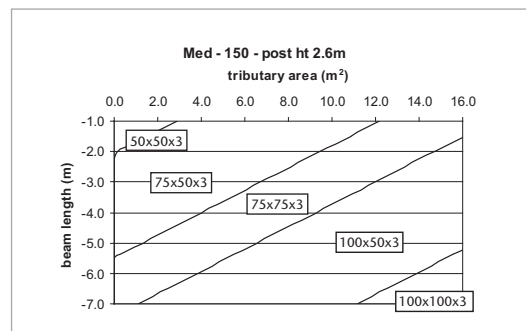
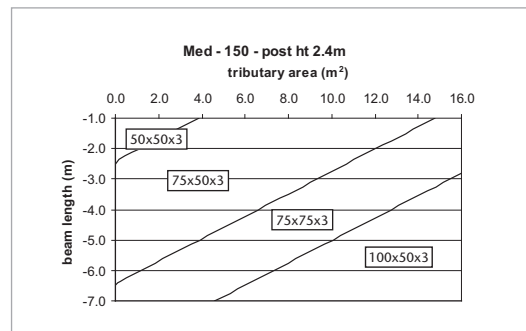
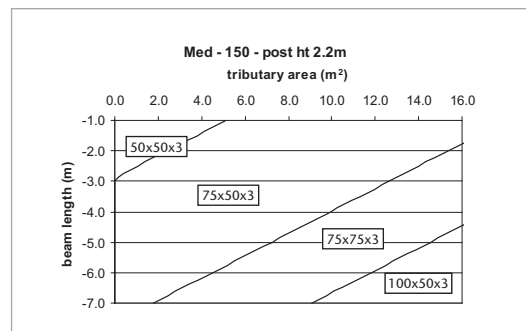
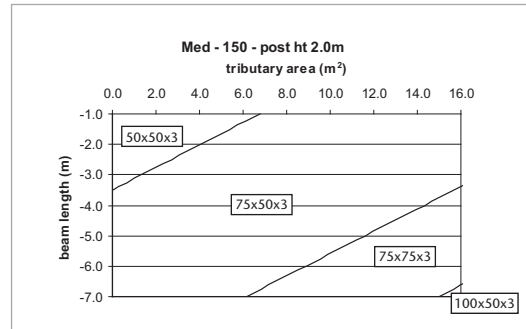
$$\text{pair} = 1.2 \text{ kg/m}^3, \text{kar} = 1.0, \text{ki} = 1.0$$

Pressure kPa	ULS capacity				SLS deflection			
	L	M	H	VH	L	M	H	VH
factored wind speed	32	37	44	50	27	31	37	42
vsit β at building	m/s	m/s	m/s	m/s	m/s	m/s	m/s	m/s

Cfig value	Drag force on beam							
1.45 coefficient	0.89	1.19	1.68	2.18	0.63	0.84	1.19	1.53

Cfig value	Drag force on roof							
0.04 coefficient	0.02	0.03	0.05	0.06	0.02	0.02	0.03	0.04

TABLE 7 // 150mm DEEP BEAM



engineering - post calculation

// MEDIUM WIND ZONE

TABLE 8 // 200mm DEEP BEAM

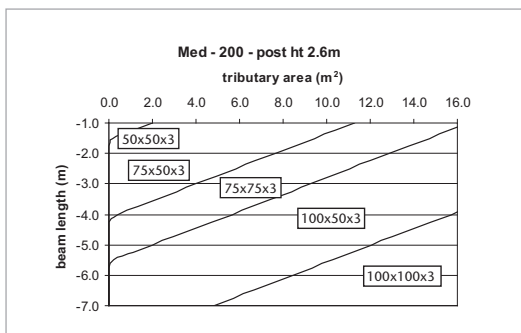
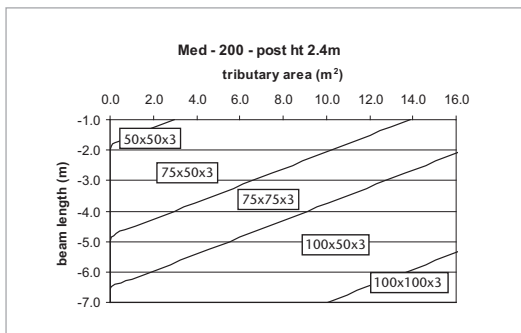
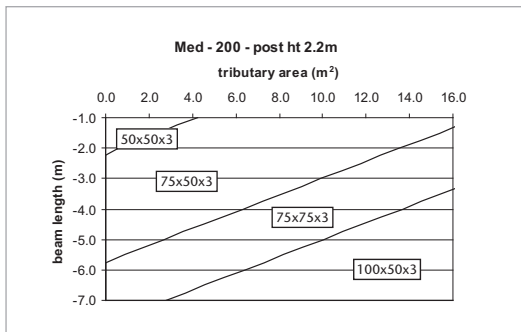
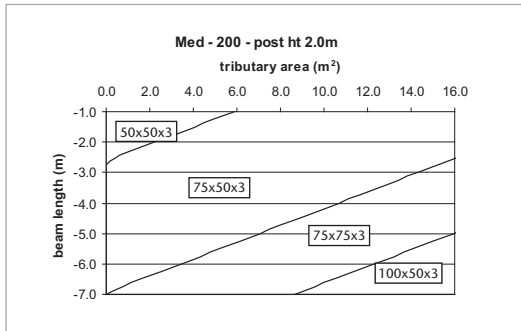
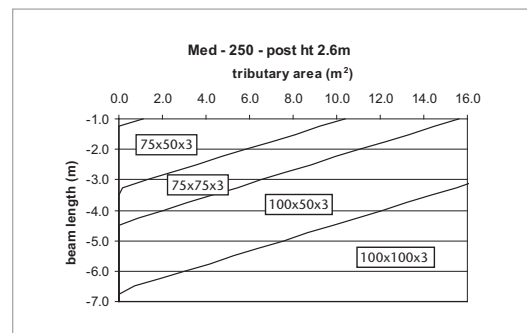
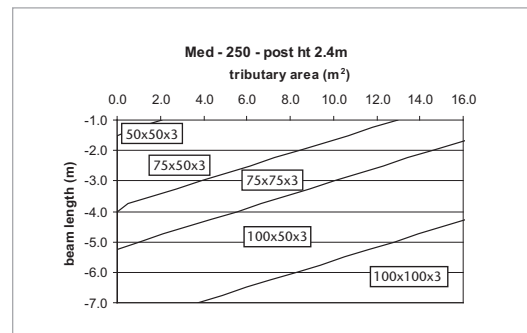
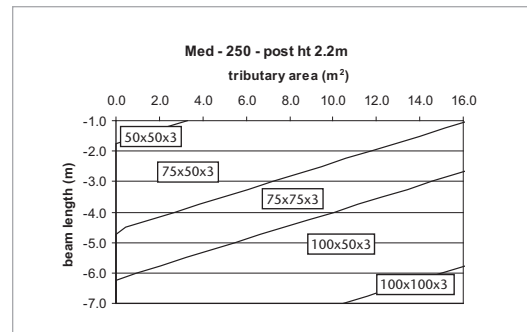
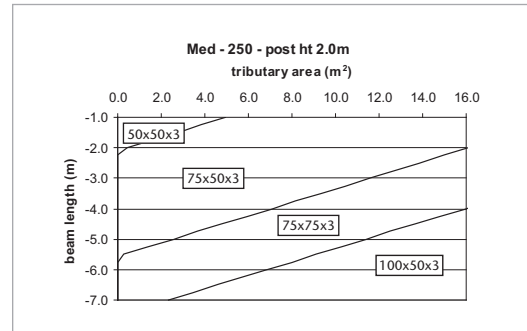


TABLE 9 // 250mm DEEP BEAM



engineering - post calculation

// HIGH WIND ZONE

SPECIFYING POSTS

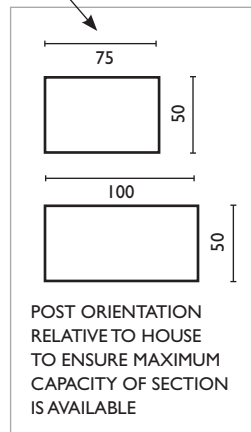
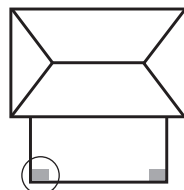
To use the following tables you need to have the beam length for design, know the tributary area (roof area) for the post and know the height of the post. Determining these values is shown in figure 5 on page 10.11

TO CALCULATE TRIBUTARY AREA FOR POSTS

The tributary area for post design only is the total area of the roof, typically length multiplied by width.

POST ORIENTATION

Care must be taken using post sizes 75x50x3 and 100x50x3. If posts are placed in orientation as shown use post sizes in tables. If orientation is 90° to that orientation treat post (for sizing) as a 50x50x3 post.



POST LOADS

Wind speeds taken from NZS 3604; 1999, are ultimate limit state wind speeds

- L = Low wind speed
- M = Medium wind speed
- H = High wind speed
- VH = Very high wind speed

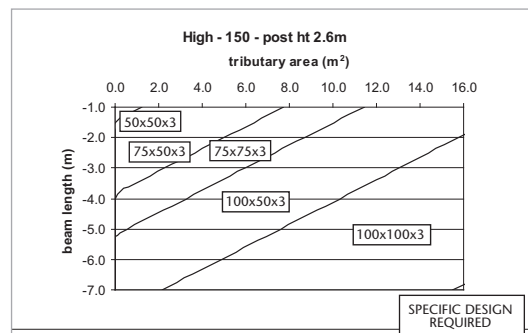
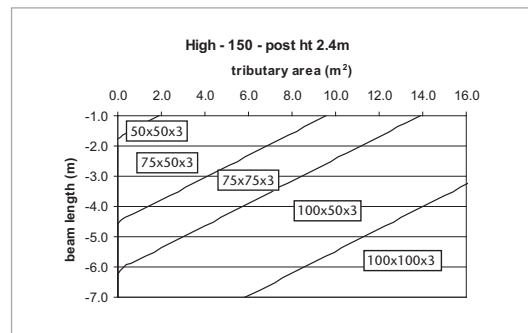
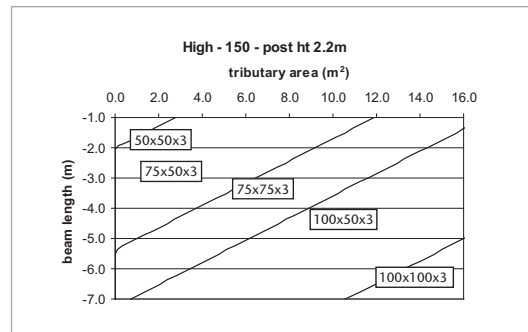
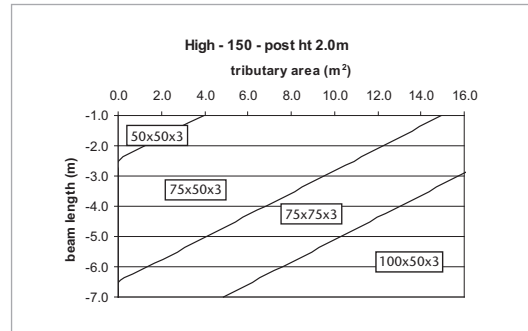
Wind pressure had been calculated using AS/NZS 1170.2.2002

$$P_{nl} := (0.5 \text{ pair}) \cdot V \cdot s \cdot i \cdot t_{\beta} \cdot \text{any}^2 \cdot C_{fig} \cdot I \cdot C_{dyn} \cdot 10^{-3}$$

$$\text{pair} = 1.2 \text{ kg/m}^3, \text{kar} = 1.0, \text{ki} = 1.0$$

Pressure kPa	ULS capacity				SLS deflection			
	L	M	H	VH	L	M	H	VH
factored wind speed	32	37	44	50	27	31	37	42
vsit β at building	m/s	m/s	m/s	m/s	m/s	m/s	m/s	m/s
C _{fig} value	Drag force on beam							
1.45 coefficient	0.89	1.19	1.68	2.18	0.63	0.84	1.19	1.53
C _{fig} value	Drag force on roof							
0.04 coefficient	0.02	0.03	0.05	0.06	0.02	0.02	0.03	0.04

TABLE 10 // 150mm DEEP BEAM



engineering - post calculation

// HIGH WIND ZONE

TABLE I1 // 200mm DEEP BEAM

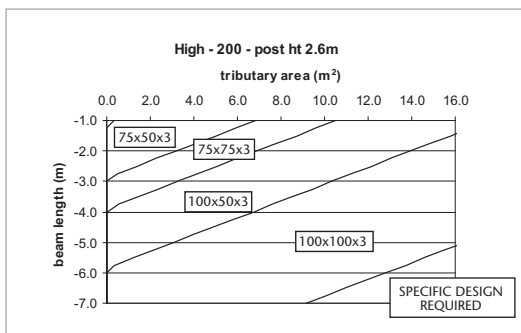
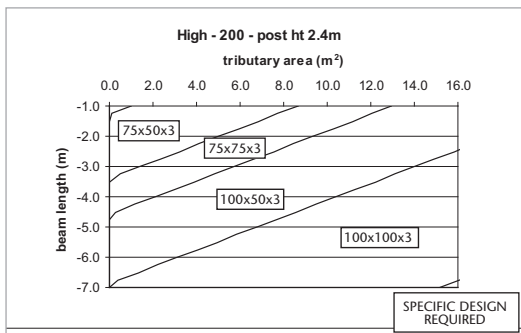
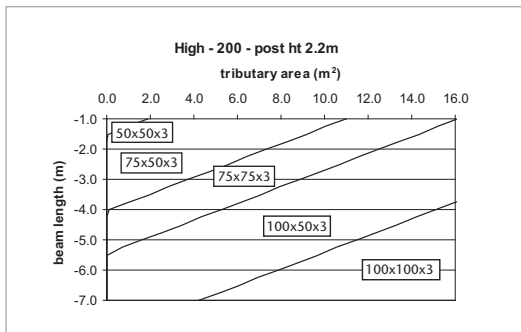
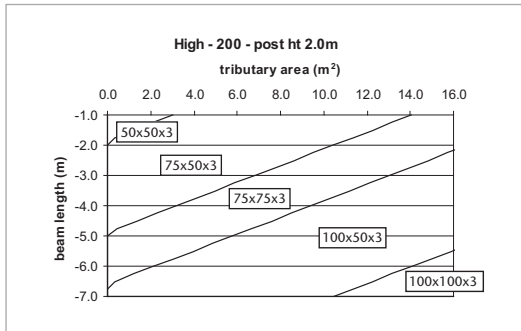
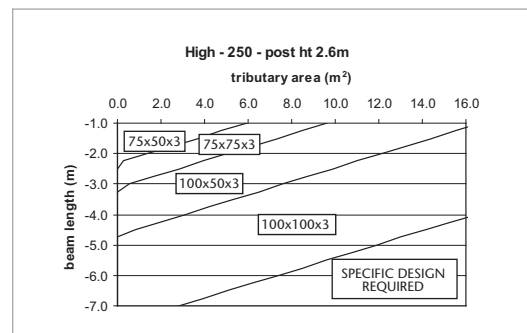
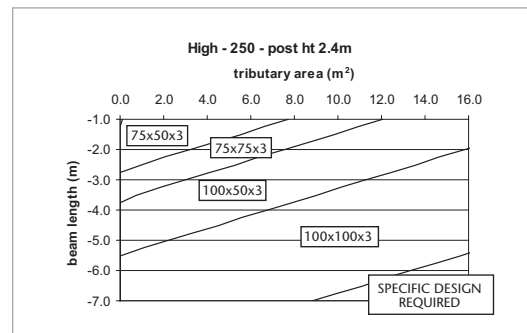
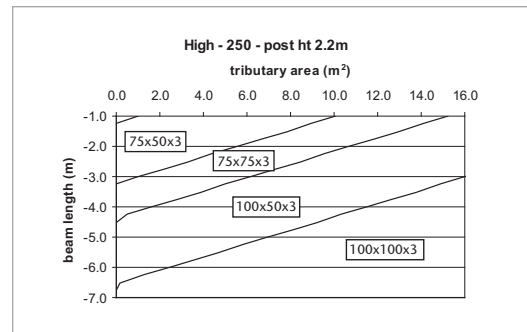
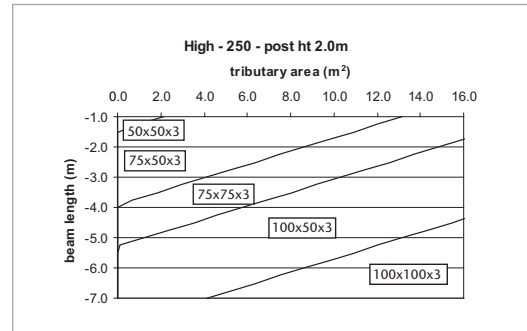


TABLE I2 // 250mm DEEP BEAM



engineering - post calculation

// VERY HIGH WIND ZONE

SPECIFYING POSTS

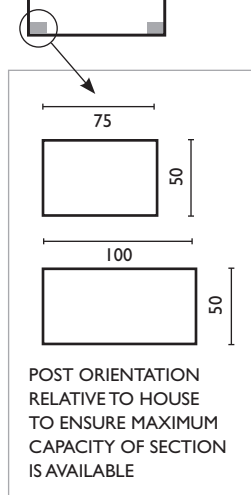
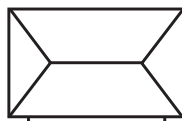
To use the following tables you need to have the beam length for design, know the tributary area (roof area) for the post and know the height of the post. Determining these values is shown in figure 5 on page 10.11

TO CALCULATE TRIBUTARY AREA FOR POSTS

The tributary area for post design only is the total area of the roof, typically length multiplied by width.

POST ORIENTATION

Care must be taken using post sizes 75x50x3 and 100x50x3. If posts are placed in orientation as shown use post sizes in tables. If orientation is 90° to that orientation treat post (for sizing) as a 50x50x3 post.



POST LOADS

Wind speeds taken from NZS 3604; 1999, are ultimate limit state wind speeds

- L = Low wind speed
- M = Medium wind speed
- H = High wind speed
- VH = Very high wind speed

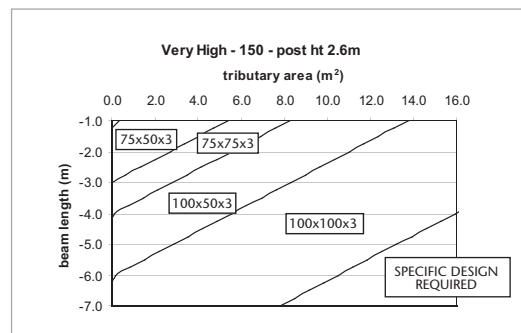
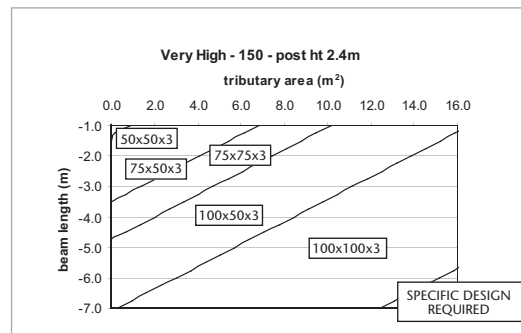
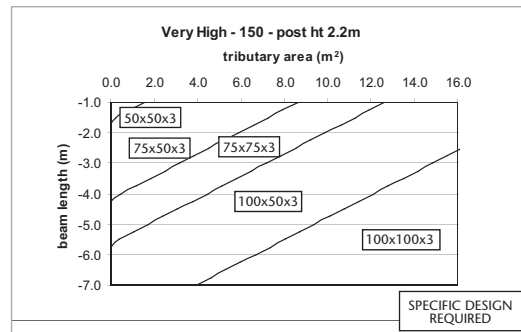
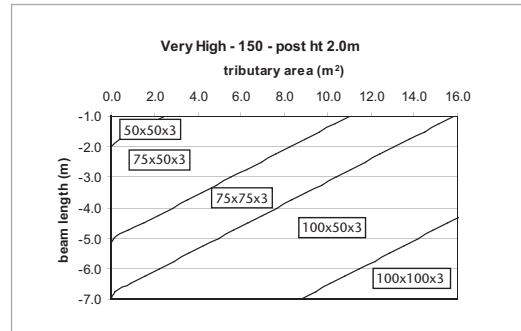
Wind pressure had been calculated using AS/NZS 1170.2.2002

$$P_{nl} := (0.5 \text{ pair}) \cdot V \cdot s \cdot i \cdot t_{\beta} \cdot \text{any}^2 \cdot C_{fig} \cdot I \cdot C_{dyn} \cdot 10^{-3}$$

$$\text{pair} = 1.2 \text{ kg/m}^3, \text{ kar} = 1.0, \text{ ki} = 1.0$$

Pressure kPa	ULS capacity				SLS deflection			
	L	M	H	VH	L	M	H	VH
factored wind speed	32	37	44	50	27	31	37	42
vsit β at building	m/s	m/s	m/s	m/s	m/s	m/s	m/s	m/s
C _{fig} value	Drag force on beam							
1.45 coefficient	0.89	1.19	1.68	2.18	0.63	0.84	1.19	1.53
C _{fig} value	Drag force on roof							
0.04 coefficient	0.02	0.03	0.05	0.06	0.02	0.02	0.03	0.04

TABLE 13 // 150mm DEEP BEAM



engineering - post calculation

// VERY HIGH WIND ZONE

TABLE 14 // 200mm DEEP BEAM

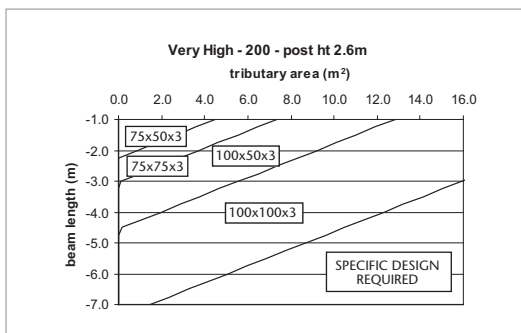
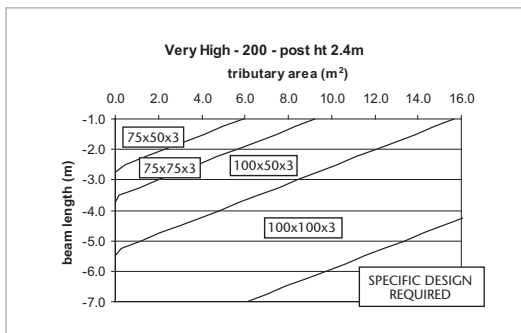
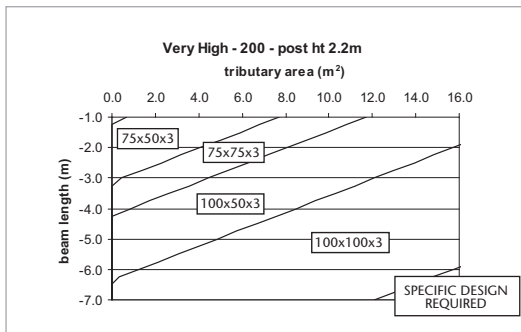
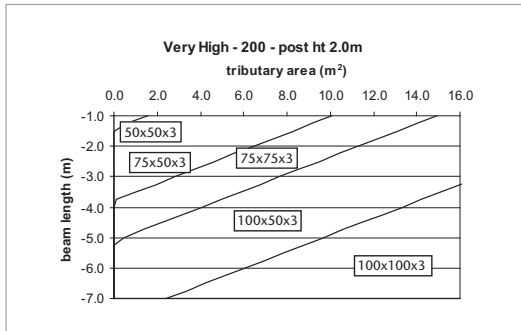
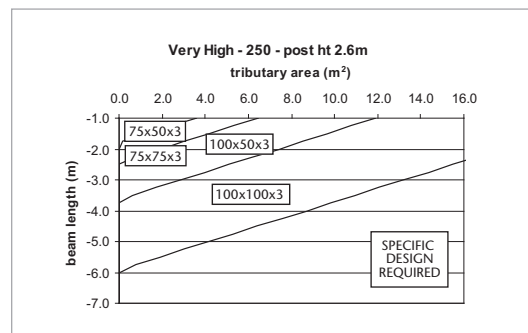
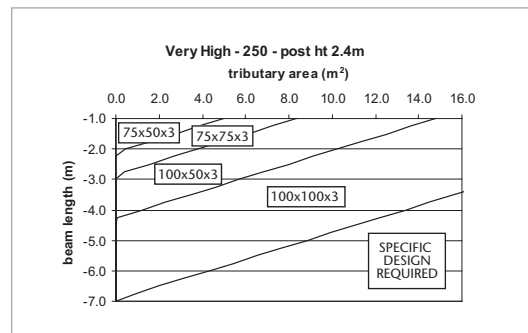
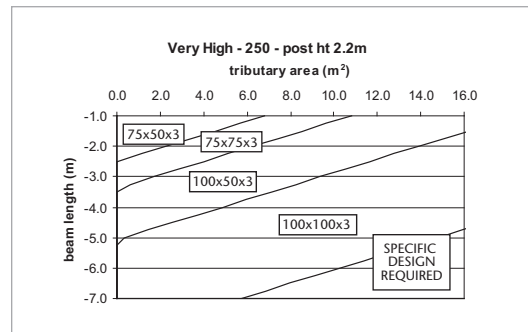
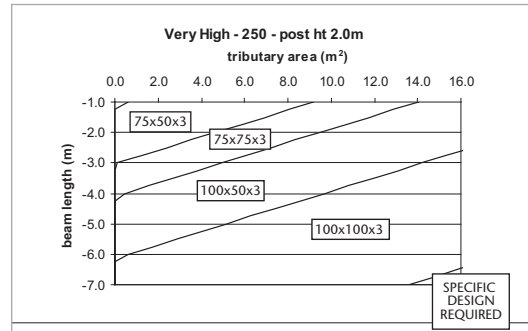


TABLE 15 // 250mm DEEP BEAM



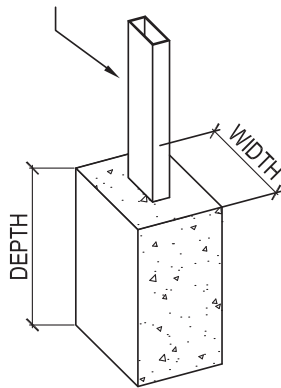
engineering - footing volume calculation

CONCRETE VOLUME // TO CALCULATE TRIBUTARY AREA FOR FOOTING SIZE

When calculating the tributary area for footing size please refer to specific structure design, figures 8-11 on page 10.21.

SIZE OF FOOTING REQUIRED // SQUARE FOOTING

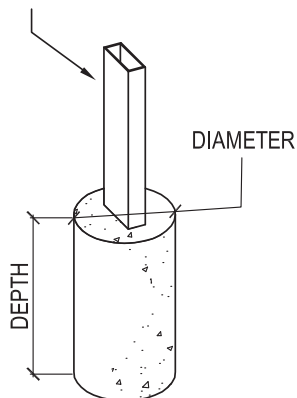
ALUMINIUM POST



Apply Bituminous paint on membrane to area of post fixed into concrete block end of post.

// CIRCULAR FOOTING

ALUMINIUM POST



Apply Bituminous paint on membrane to area of post fixed into concrete block end of post.

TABLE 16 // MINIMUM CONCRETE VOLUME FOR ROOF AREA TO RESIST UPLIFT

Wind Zone	Concrete Volume Required m ³			
	L	M	H	VH
Tributary area m ²				
1.0	0.03	0.05	0.07	0.09
2.0	0.07	0.10	0.14	0.18
3.0	0.10	0.14	0.21	0.27
4.0	0.14	0.19	0.27	0.36
6.0	0.21	0.28	0.41	0.54
8.0	0.28	0.38	0.55	0.72
10.0	0.34	0.47	0.69	0.90
12.0	0.41	0.57	0.82	1.08
14.0	0.48	0.66	0.96	1.26
16.0	0.55	0.76	1.10	1.44

Minimum footing size: 0.35 x 0.35 x 0.6m deep or 0.3m diameter by 0.6m deep

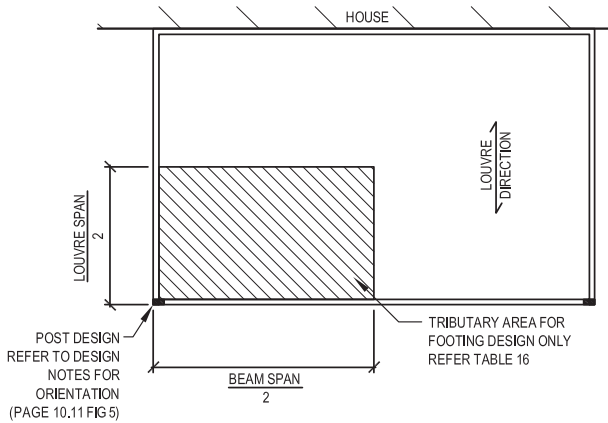
TABLE 17 // FOOTING VOLUME FOR DIMENSIONS SHOWN

Square Footing					circular footing		
width m		m	depth m	volume m ³	diameter m	depth m	volume m ³
0.35	x	0.35	x 0.6	= 0.07	0.3	x 0.6	0.04
			x 0.8	= 0.10		0.8	0.06
0.4	x	0.4	x 0.6	= 0.10		1.0	0.07
			x 0.8	= 0.13		1.2	0.09
0.45	x	0.45	x 0.6	= 0.12		1.4	0.10
			x 0.8	= 0.16	0.35	x 0.6	0.06
0.5	x	0.5	x 0.6	= 0.15		0.8	0.08
			x 0.8	= 0.20		1.0	0.10
0.65	x	0.65	x 0.6	= 0.25		1.2	0.12
			x 0.8	= 0.34		1.4	0.14
0.7	x	0.7	x 0.6	= 0.29	0.4	x 0.6	0.08
			x 0.8	= 0.39		0.8	0.10
0.75	x	0.75	x 0.6	= 0.34		1.0	0.13
			x 0.8	= 0.45		1.2	0.15
0.8	x	0.8	x 0.8	= 0.51		1.4	0.18
			1.0	= 0.64	0.45	x 0.6	0.10
0.85	x	0.85	x 0.8	= 0.58		0.8	0.13
			1.0	= 0.72		1.0	0.16
0.9	x	0.9	x 1.0	= 0.81		1.2	0.19
			1.0	= 0.81		1.4	0.22
1.0	x	1.0	x 1.2	= 1.20	0.5	x 0.6	0.12
1.1	x	1.1	x 1.2	= 1.45		0.8	0.16
						1.0	0.20
						1.2	0.24
						1.4	0.28

TYPICAL DETAIL // SIMPLY SUPPORTED BEAM

FIGURE 8

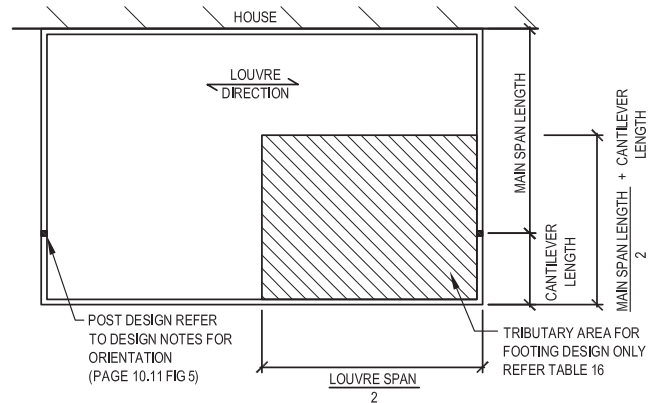
Plan view / Footing Design



TYPICAL DETAIL // CANTILEVER BEAM

FIGURE 9

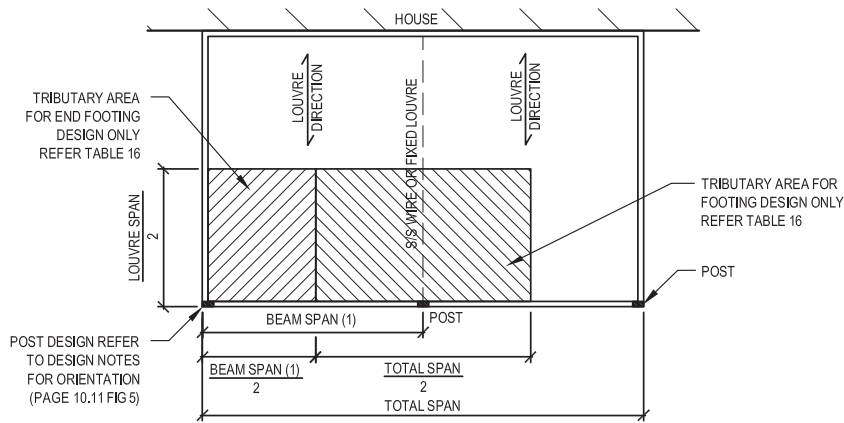
Plan view / Footing Design



TYPICAL DETAIL // CONTINUOUS BEAM SPAN OPTION 1

FIGURE 10

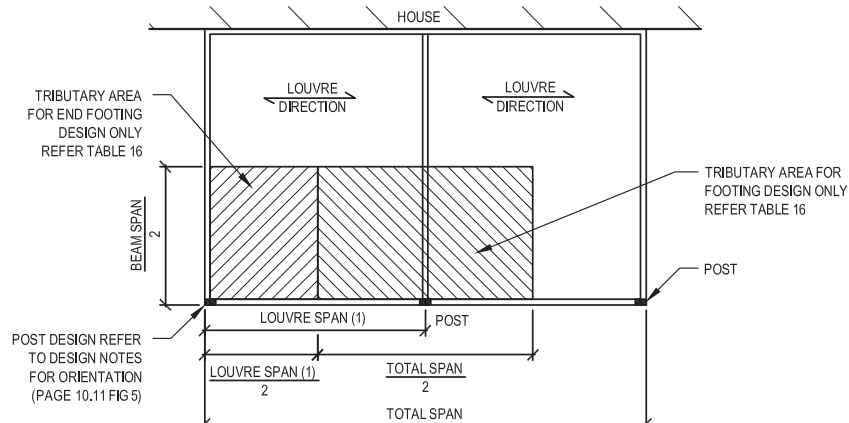
Plan view / Footing Design



TYPICAL DETAIL // CONTINUOUS BEAM SPAN OPTION 2

FIGURE 11

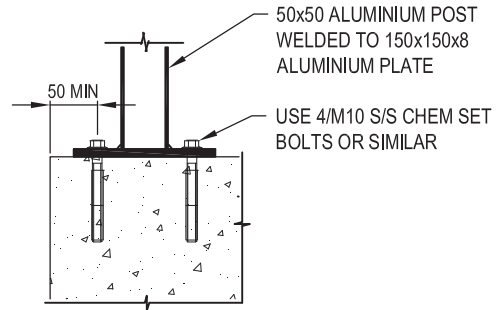
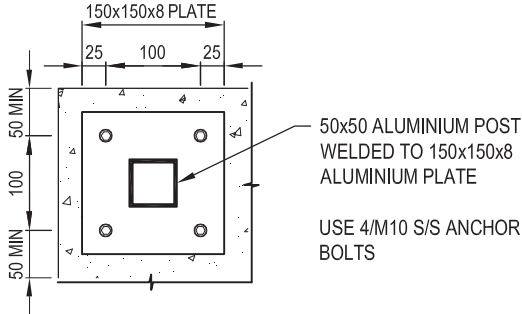
Plan view / Footing Design



SCALE NTS

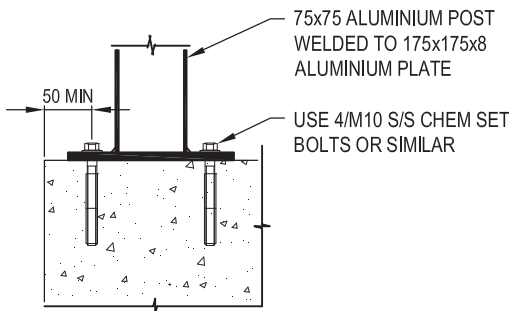
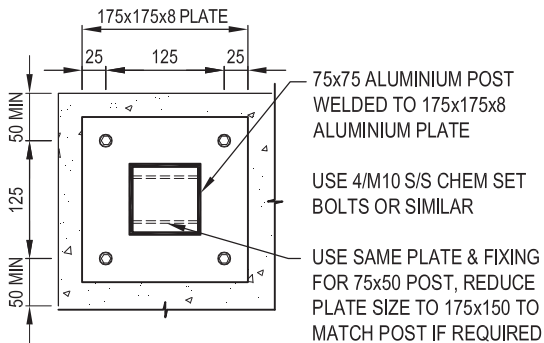
TYPICAL DETAIL // BASE PLATE SIZE FOR 50X50 POST

50x50 ALUMINIUM POST BASE PLATE

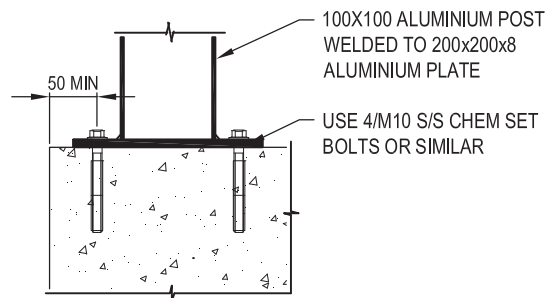
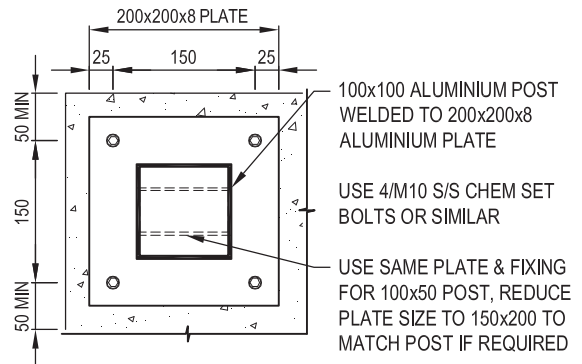


TYPICAL DETAIL // BASE PLATE SIZES FOR VARIOUS POSTS

75x75 ALUMINIUM POST BASE PLATE
75x50



100x100 ALUMINIUM POST BASE PLATE
100x50



SCALE 1:8