



# Lighting Columns and Attachments

Technical Information Pack

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# Tubular Columns Compatibility

## Post Top & Side Entry Luminaires

Notes:  
 Galvanised finish as standard  
 Add suffix /BLK for black painted columns  
 See Page 4 for typical configuration drawings



Column Height above ground (m)	Code (Planted root) - for flange mount replace 'PR' with 'FM'	Column shaft diameter (mm)	Luminaire Compatibility			
			Cygnus ST	Mistral Medium, Mistral Small		
			Single post top Adapter	Single post top Adapter	Single Side Entry 500mm Outreach Arm	Twin Side Entry 500mm Outreach Arm
4m Light	CT4PRXXL	76	COLRED76-60	COLRED76-60	CBK500-461	CBK500-462
5m Medium	CT5PRXXM	76	COLRED76-60	COLRED76-60	CBK500-461	CBK500-462
5m Heavy	CT5PRXXH	76	Use medium duty	Use medium duty	Use medium duty	Use medium duty
6m Medium	CT6PRXXMD	76	COLRED76-60	COLRED76-60	CBK500-461	CBK500-462
6m Heavy	CT6PRXXH	89	Use medium duty	Use medium duty	Use medium duty	Use medium duty
8m Medium	CT8PRXXMD	89	COLRED89-60	COLRED89-60	CBK500-81	Use heavy duty
8m Heavy	CT8PRXXH	114	Use medium duty	Use medium duty	Use medium duty	CBK500-82
10m Medium	CT10PRXXMD	114	COLRED114-60	COLRED114-60	CBK500-101	Use heavy duty
10m Heavy	CT10PRXXH	140	Use medium duty	Use medium duty	Use medium duty	CBK500-102
12m Heavy	CT12PRXXH	140	COLRED140-60	COLRED140-60	CBK500-121	CBK500-122

# Tubular Columns Compatibility

## Small Floodlights

**Notes:**

Galvanised finish as standard  
 Add suffix /BLK for black painted columns  
 See Page 4 for typical configuration drawings




Column Height above ground (m)	Code (Planted root) - for flange mount replace 'PR' with 'FM'	Column shaft diameter (mm)	Euroflood SL Small		Euroflood SL Medium	
			Single Floodlight Arm 500mm	Twin Floodlight Arm 1000mm	Single Floodlight Arm 500mm	Twin Floodlight Arm 1000mm
			4m Light	CT4PRXXL	76	CBKFA500-461
5m Medium	CT5PRXXM	76	CBKFA500-461	CBKFA1000-462	CBKFA500-461	CBKFA1000-462
6m Medium	CT6PRXXMD	76	CBKFA500-461	CBKFA1000-462	CBKFA500-461	CBKFA1000-462
8m Medium	CT8PRXXMD	89	CBKFA500-81	Use heavy duty	CBKFA500-81	Use heavy duty
8m Heavy	CT8PRXXH	114	Use medium duty	CBKFA1000-82	Use medium duty	CBKFA1000-82
10m Medium	CT10PRXXMD	114	CBKFA500-101	Use heavy duty	CBKFA500-101	Use heavy duty
10m Heavy	CT10PRXXH	140	Use medium duty	CBKFA1000-102	Use medium duty	CBKFA1000-102
12m Heavy	CT12PRXXH	140	CBKFA500-121	CBKFA1000-122	CBKFA500-121	CBKFA1000-122

# Tubular Columns Compatibility

## Large Floodlights



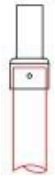
	Column Height above ground (m)	Code (Planted root) - for flange mount replace 'PR' with 'FM'	Column shaft diameter (mm)	Single Floodlight Arm 500mm	Twin Floodlight Arm 1000mm	3 way Floodlight Arm 1500mm 'T'	4 way Floodlight Arm 2200mm
<b>Euroflood MaxiLED</b>  <b>1 module</b>  	<b>6m Heavy</b>	CT6PRXXH	89	CBKFA500-81	CBKFA1000-462	Not an option	Not an option
	<b>8m Extra Heavy</b>	CT8PRXXEH	140	CBKFA500-121	CBKFA1000-102	CBKFA1500-83	CBKFA2000-84
	<b>10m Heavy</b>	CT10PRXXH	140	CBKFA500-121	CBKFA1000-102	Use extra heavy	Use extra heavy
	<b>10m Extra Heavy</b>	CT10PRXXEH	140	Use heavy duty	Use heavy duty	CBKFA1500-83	CBKFA2000-84
	<b>12m Heavy</b>	CT12PRXXH	140	CBKFA500-121	CBKFA1000-102	Use extra heavy	Use extra heavy
	<b>12m Extra Heavy **</b>	CT12PRXXEH	n/a	Use heavy duty	Use heavy duty	CBKFA1500-153	CBKFA2000-124
	<b>15m Heavy **</b>	CT15PRXXH	n/a	CBKFA500-151	CBKFA1000-152	CBKFA1500-153	CBKFA2000-124
<b>Euroflood MaxiLED</b>  <b>2 module</b>  	<b>8m Extra Heavy</b>	CT8PRXXEH	140	CBKFA500-121	CBKFA1000-102	Contact Whitecroft	Contact Whitecroft
	<b>10m Extra Heavy</b>	CT10PRXXEH	140	CBKFA500-121	CBKFA1000-102	Contact Whitecroft	Contact Whitecroft
	<b>12m Extra Heavy **</b>	CT12PRXXEH	n/a	CBKFA500-151	CBKFA1000-152	Contact Whitecroft	Contact Whitecroft
	<b>15m Heavy **</b>	CT15PRXXH	n/a	CBKFA500-151	CBKFA1000-152	Contact Whitecroft	Contact Whitecroft
<b>Euroflood MaxiLED</b>  <b>3 module</b>  	<b>8m Extra Heavy</b>	CT8PRXXEH	140	CBKFA500-121	Contact Whitecroft	Contact Whitecroft	Contact Whitecroft
	<b>10m Extra Heavy</b>	CT10PRXXEH	140	CBKFA500-121	Contact Whitecroft	Contact Whitecroft	Contact Whitecroft
	<b>12m Extra Heavy **</b>	CT12PRXXEH	n/a	CBKFA500-151	Contact Whitecroft	Contact Whitecroft	Contact Whitecroft
	<b>15m Heavy **</b>	CT15PRXXH	n/a	CBKFA500-151	Contact Whitecroft	Contact Whitecroft	Contact Whitecroft

Code	To suit column shaft diameter (mm)
CBKFA500-461	76
CBKFA1000-462	76/89
CBKFA500-81	89
CBKFA500-101	114
CBKFA1000-102	140
CBKFA1500-83	140
CBKFA2000-84	140
CBKFA500-121	140
CBKFA500-151	Disc
CBKFA1000-152	Disc
CBKFA1500-153	Disc
CBKFA2000-124	Disc

## Typical Mounting Configurations

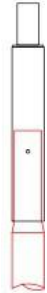


### 76 to 60mm



60mm post top dia.

76mm column shaft diameter



### 89 / 114 / 140 to 60mm

60mm post top dia.

Internal spigot

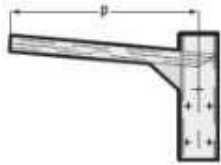
Column shaft dia.  
89 / 114 / 140mm

### Single Post Top Adapters

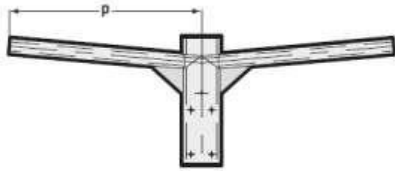
Reduce from column shaft diameter to 60mm diameter to suit post top mounted luminaires.  
(See matrix on Page 1)



Single post top mounting - Mistral



Single Arm (p = projection in mm)



Twin Arm (p = projection in mm)

### Outreach Arms for side entry

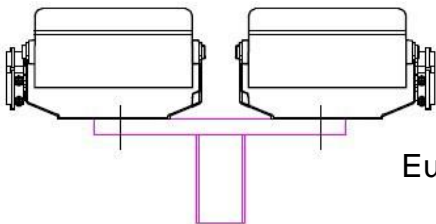
Tubular steel 500mm projection with 60mm diameter arm for side entry. Inclined by 5 degrees.  
(See matrix on Page 1)



Single Outreach



Twin Outreach



Euroflood MaxiLED twin top mounting

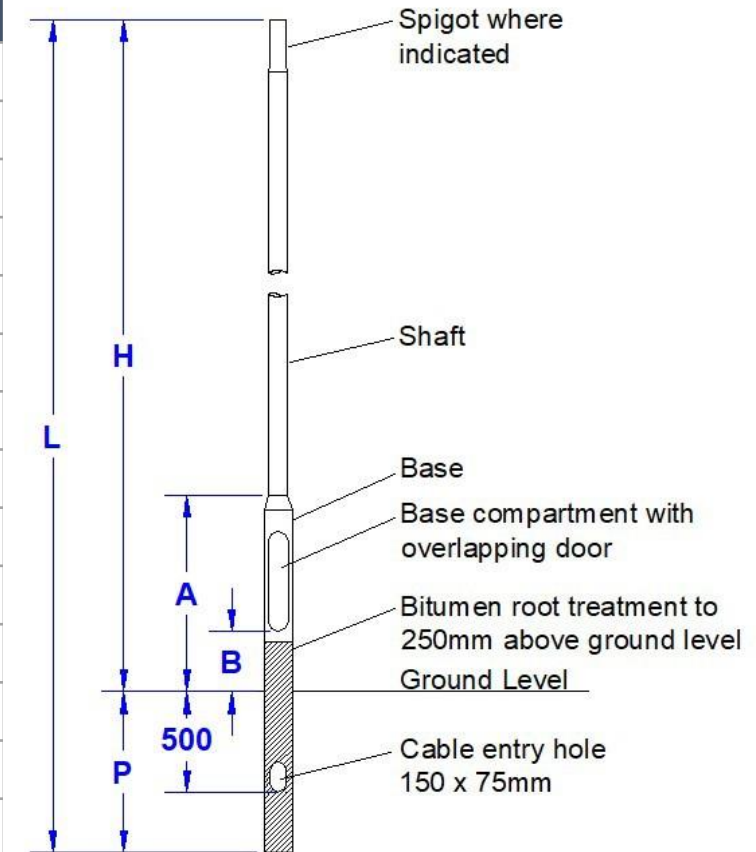
### Floodlight Arms

Box section steel to suit 1, 2, 3 or 4 floodlights.  
(See matrix on Pages 2, 3 & 3a)

# Tubular Steel Planted Columns Dimensions



Column Height above ground & Type	Code	Planting depth P	Overall height L	Height above ground H	Base height A	Door to ground height B	Door aperture height	Door aperture width	Base diameter	Shaft diameter	Spigot diameter
4m Light	CT4PRXXL	800	4800	4000	980	300	500	100	140	76	76
5m Medium	CT5PRXXM	800	5800	5000	980	300	500	100	140	76	76
5m Heavy	CT5PRXXH	800	5800	5000	980	300	500	100	140	76	76
6m Medium	CT6PRXXMD	1000	7000	6000	1030	300	500	100	140	76	76
6m Heavy	CT6PRXXH	1000	6750	5750	1280	300	600	115	168	89	76
8m Medium	CT8PRXXMD	1200	8950	7750	1280	300	600	115	168	89	76
8m Heavy	CT8PRXXH	1200	8950	7750	1250	425	600	115	168	114	101
8m Extra heavy	CT8PRXXEH	1200	8950	7750	1625	775	600	115	194	140	127
10m Medium	CT10PRXXMD	1500	11250	9750	1250	425	600	115	168	114	101
10m Heavy	CT10PRXXH	1500	11250	9750	1625	775	600	115	194	140	127
10m Extra Heavy	CT10PRXXEH	1500	11250	9750	1625	775	600	115	194	140	127
12m Heavy	CT12PRXXH	1700	13450	11750	1625	775	600	115	194	140	127
12m Extra Heavy	CT12PRXXEH	1700	13700	12000	*	400	900	140	300	*	*
15m Heavy	CT15PRXXH	2000	17000	15000	*	400	900	140	342	*	*



\* Indicates tapered floodlight column

# Tubular Steel Planted Columns Loadings & Foundation Details



Column Height above ground & Type	Code	Maximum headload (kg)	Over Turning Moment kNm	Maximum windage (m <sup>2</sup> ) Rationalised Wind Location Factors PD6547: 2004				Column Base Dia	Minimum concrete surround thickness (mm) for Ground factor type G		
				Light	Medium	Heavy	Extra Heavy		G=230 Poor	G=390 Average	G=630 Good
4m Light	CT4PRXXL	50	4	0.76	0.70	0.62	0.49	140	150	100	50
5m Medium	CT5PRXXM	50	4	0.50	0.45	0.40	0.29	140	150	50	50
5m Heavy	CT5PRXXH	50	5	0.90	0.82	0.72	0.56	140	150	50	50
6m Medium	CT6PRXXMD	50	5	0.60	0.53	0.47	0.33	140	100	50	0
6m Heavy	CT6PRXXH	75	9	1.24	1.13	1.03	0.81	168	200	100	50
8m Medium	CT8PRXXMD	50	9	0.40	0.34	0.30	0.20	168	100	50	0
8m Heavy	CT8PRXXH	75	11	0.74	0.64	0.55	0.32	168	150	50	0
8m Extra heavy	CT8PRXXEH	100	20	1.71	1.61	1.35	0.92	194	250	150	50
10m Medium	CT10PRXXMD	50	13	0.48	0.44	0.39	0.30	168	50	0	0
10m Heavy	CT10PRXXH	100	19	0.97	0.88	0.80	0.60	194	100	50	0
10m Extra Heavy	CT10PRXXEH	100	24	1.42	1.30	1.20	0.93	194	150	50	0
12m Heavy	CT12PRXXH	75	19	0.58	0.53	0.49	0.35	194	50	0	0
12m Extra Heavy	CT12PRXXEH	120	40	1.85	1.65	1.45	1.05	300	50	0	0
15m Heavy	CT15PRXXH	120	53	1.65	1.45	1.25	0.90	342	50	0	0

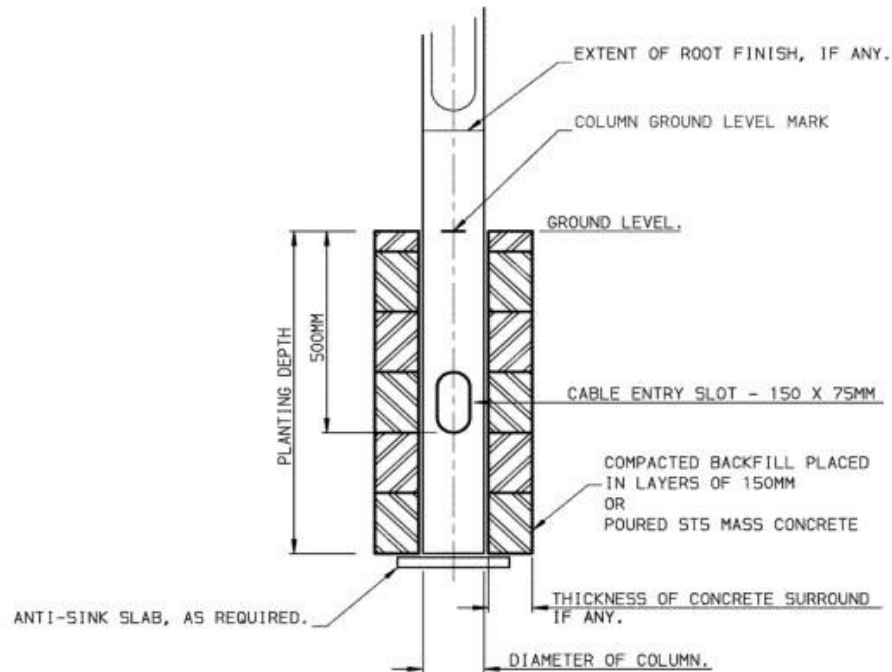


# Tubular Steel Planted Columns Loadings & Foundation Details



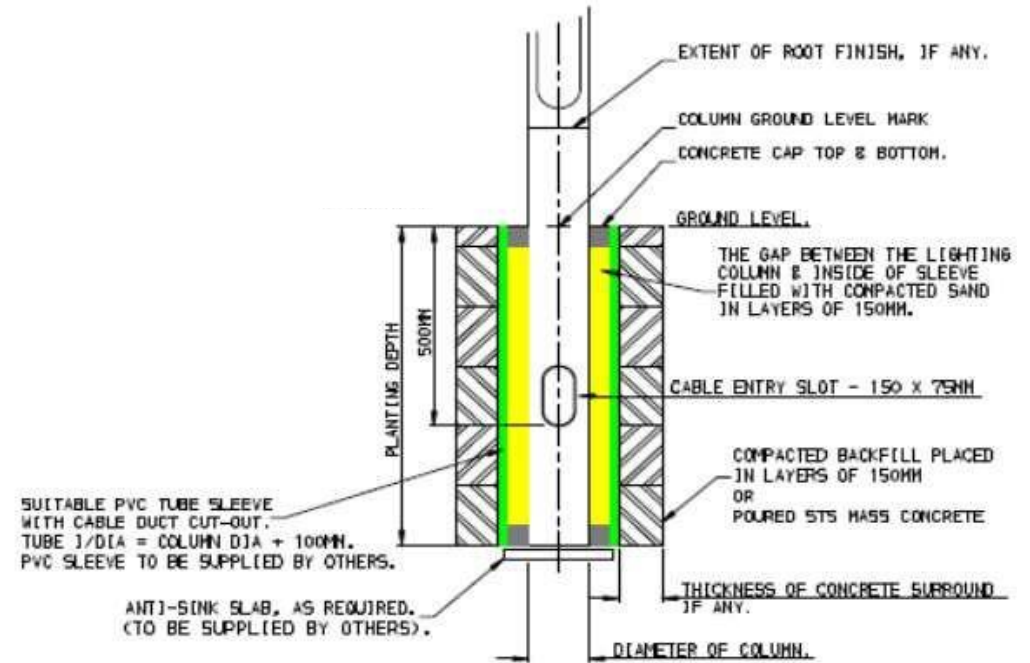
Table of ground factor 'G'

G	Soil Quality	
630	Good	Compact, well graded sand & gravel, hard clay, well graded fine and coarse sand, decomposed granite rock & soil, well drained
390	Average	Compact fine sand, medium clay, compact well drained sandy loam, loose coarse sand & gravel, sufficiently drained
230	Poor	Soft clay, clay loam, poorly compacted sand, clays containing high amounts of silt & vegetable matter, made ground, poorly drained



Un-prepared arrangement

Dimensions in mm unless stated otherwise

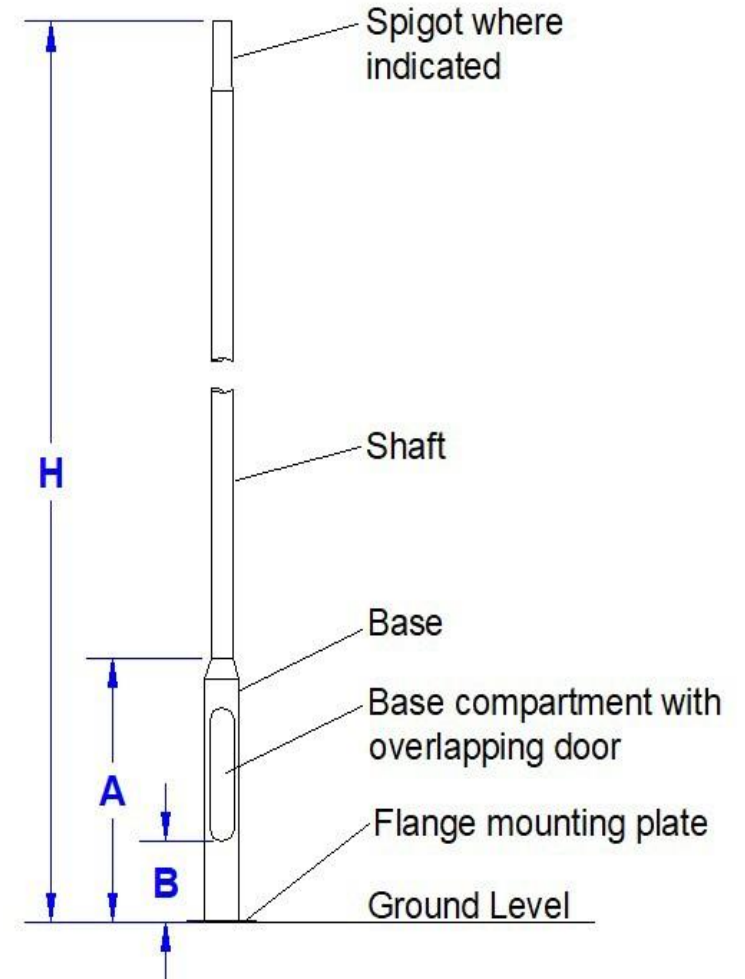


Prepared arrangement with sleeve

# Tubular Steel Flanged Columns Dimentions



Column Height above ground & Type	Code	Height above ground H	Base height A	Door to ground B	Door aperture height	Door aperture width	Base diameter	Shaft diameter	Spigot diameter
4m Light	CT4FMXXL	4000	980	300	500	100	140	76	76
5m Medium	CT5FMXXM	5000	980	300	500	100	140	76	76
5m Heavy	CT5FMXXH	5000	980	300	500	100	140	76	76
6m Medium	CT6FMXXMD	6000	1030	300	500	100	140	76	76
6m Heavy	CT6FMXXH	5750	1280	300	600	115	168	89	76
8m Medium	CT8FMXXMD	7750	1280	300	600	115	168	89	76
8m Heavy	CT8FMXXH	7750	1250	425	600	115	168	114	101
8m Extra heavy	CT8FMXXEH	7750	1625	775	600	115	194	140	127
10m Medium	CT10FMXXMD	9750	1250	425	600	115	168	114	101
10m Heavy	CT10FMXXH	9750	1625	775	600	115	194	140	127
10m Extra Heavy	CT10FMXXEH	9750	1625	775	600	115	194	140	127
12m Heavy	CT12FMXXH	11750	1625	775	600	115	194	140	127
12m Extra Heavy	CT12FMXXEH	12000	*	400	900	140	*	*	*
15m Heavy	CT15FMXXH	15000	*	400	900	140	*	*	*



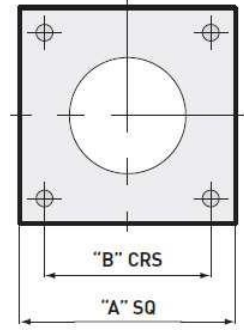
\* Indicates tapered floodlight column

Dimensions in mm unless stated otherwise

# Tubular Steel Flanged Columns Loadings & Base Details



Column Height above ground & Type	Code	Maximum headload (kg)	Over Turning Moment kNm	Maximum windage (m <sup>2</sup> ) Rationalised Wind Location Factors PD6547:				Flange Plate Details			Flange Mounting Kit			Concrete Block size Based on 100 kN/m <sup>2</sup> bearing pressure	
				2004				Dim 'A' overall	Dim 'B' fixing centres	Bolt Load kN	Code	Template code	Fixing bolt size (Length x thread)	Square width mm x mm	Depth mm
				Light	Medium	Heavy	Extra Heavy								
4m Light	CT4FMXXL	50	4	0.76	0.70	0.62	0.49	280	200	14.3	CFMKIT1	CFMTEMP1	450 x M16	950	625
5m Medium	CT5FMXXM	50	4	0.50	0.45	0.40	0.29	280	200	13.9	CFMKIT1	CFMTEMP1	450 x M16	950	625
5m Heavy	CT5FMXXH	50	5	0.90	0.82	0.72	0.56	280	200	21.1	CFMKIT1	CFMTEMP1	450 x M16	1050	675
6m Medium	CT6FMXXMD	50	5	0.60	0.53	0.47	0.33	280	200	20.7	CFMKIT1	CFMTEMP1	450 x M16	1050	675
6m Heavy	CT6FMXXH	75	9	1.24	1.13	1.03	0.81	430	300	23.6	CFMKIT2	CFMTEMP2	550 x M24	1250	775
8m Medium	CT8FMXXMD	50	9	0.40	0.34	0.30	0.20	430	300	23.2	CFMKIT2	CFMTEMP2	550 x M24	1250	775
8m Heavy	CT8FMXXH	75	11	0.74	0.64	0.55	0.32	430	300	31.8	CFMKIT2	CFMTEMP2	550 x M24	1350	825
8m Extra heavy	CT8FMXXEH	100	20	1.71	1.61	1.35	0.92	430	300	55.1	CFMKIT2	CFMTEMP2	550 x M24	1500	900
10m Medium	CT10FMXXMD	50	13	0.48	0.44	0.39	0.30	430	300	36.3	CFMKIT2	CFMTEMP2	550 x M24	1350	825
10m Heavy	CT10FMXXH	100	19	0.97	0.88	0.80	0.60	430	300	53.9	CFMKIT2	CFMTEMP2	550 x M24	1500	900
10m Extra Heavy	CT10FMXXEH	100	24	1.42	1.30	1.20	0.93	430	300	66.6	CFMKIT2	CFMTEMP2	550 x M24	1700	1000
12m Heavy	CT12FMXXH	75	19	0.58	0.53	0.49	0.35	430	300	52.6	CFMKIT2	CFMTEMP2	550 x M24	1500	900
12m Extra Heavy	CT12FMXXEH	120	40	1.85	1.65	1.45	1.05	400	300	93.0	Included	Included	850 x M27	1700	1000
15m Heavy	CT15FMXXH	120	53	1.65	1.45	1.25	0.90	450	350	107.0	Included	Included	850 x M27	1800	1050



Flange base

Dimensions in mm unless stated otherwise

# Tubular Steel Flanged Columns Installation

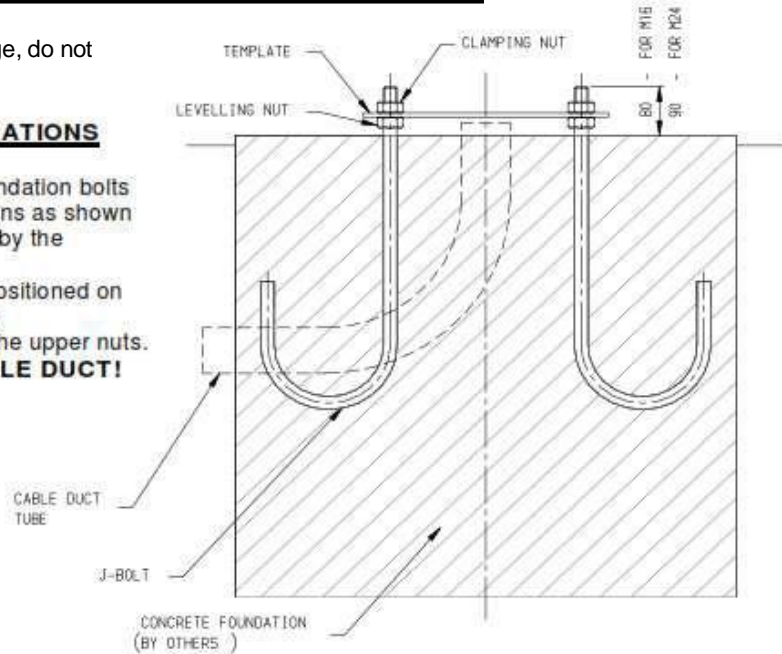


## M16 & M24 Foundation J-Bolts

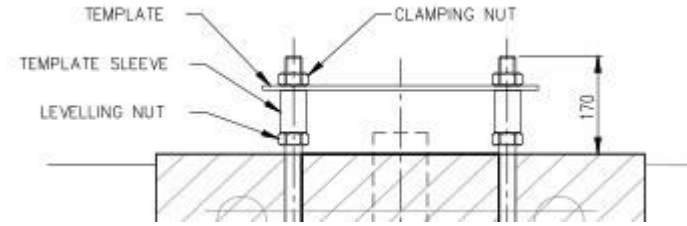
To ensure adequate drainage, do not use silicon sealant or similar

### CASTING THE FOUNDATIONS

It is important that the foundation bolts are cast into the foundations as shown with the thread projecting by the specified dimension. The template should be positioned on levelling nuts as indicated and clamped in place by the upper nuts. **REMEMBER THE CABLE DUCT!**



## M27 Foundation J-Bolts



For four hole square flangeplates dry packing is recommended to ensure a uniform bedding. Consideration should be given to the need to provide drainage & ventilation.

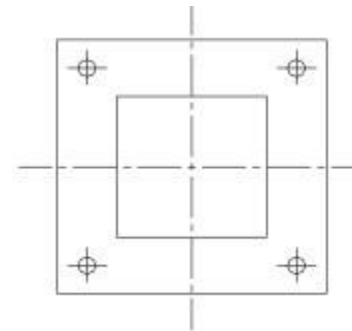
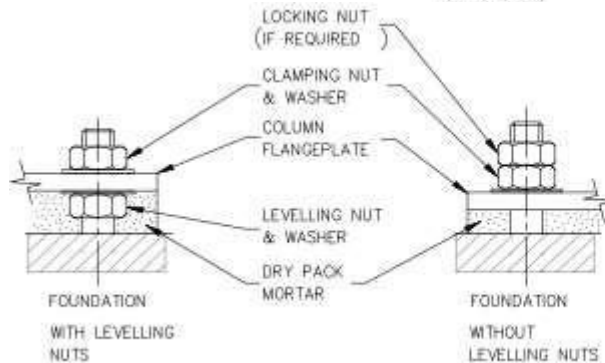
**Note:**

Where practical additional corrosion protection to the studs can be achieved by the use of "Denso" tape (or similar) above the flangeplate.

### COLUMN INSTALLATION

**THE TEMPLATE MUST BE REMOVED!**

It is important that all levelling nuts (where used) bear uniformly on the underside of the flangeplate and that all clamping nuts are tightened in accordance with the installation and erection instructions. Where levelling nuts are not used, dry packing should be well rammed around temporary shims, then shims removed and dry packing completed.



## Column Delivery Zones

Zone	Area	Carriage code
1	Northern Scotland	COLCAR1
2	Central Scotland	COLCAR2
3	Southern Scotland & Borders	COLCAR3
4	North East (Durham, Tyne and Wear)	COLCAR4
5	Lancashire, Cumbria	COLCAR5
6	Yorkshire (North, East & West)	COLCAR6
7	Lincolnshire (North and South), Nottinghamshire	COLCAR7
8	Merseyside, Cheshire, Greater Manchester, Derby, Staffordshire, Shropshire, South Yorkshire	COLCAR8
9	North Wales	COLCAR9
10	South Wales	COLCAR10
11	West Midlands, Worcestershire, Warwickshire, Leicestershire, Northamptonshire	COLCAR11
12	Cambridge, Norfolk, Suffolk	COLCAR12
13	Bedfordshire, Essex, Hertfordshire	COLCAR13
14	Kent, Surrey, Sussex	COLCAR14
15	Gloucestershire, Oxfordshire, Buckinghamshire	COLCAR15
16	Somerset, Dorset, Wiltshire, Hampshire, Berkshire	COLCAR16
17	Devon, Cornwall	COLCAR17
18	Inner London	COLCAR18
NI	Northern Ireland	COLCAR-NI

