

TC & CB Range



The TC and CB range of CCTV columns remain the specifiers number one choice for cabinet based columns, for use within city centre and urban schemes. The 400 square cabinet remains the mainstay of this range of columns, with cabinet options of 325 and 500 square readily available for terminating all communication and electrical needs. The proven design, along with many versatile features, keep it at the forefront of CCTV street furniture and it is still the industry standard.

TCTO & CBTO Range



The TC and CB range naturally evolved into the TCTO and CBTO range of tilt-over columns, for use within city centre and urban schemes. The added bonus of maintenance at ground level make this a popular and safe first choice where access for maintenance is of concern. The 400 square cabinet remains the mainstay of this range, with the 325 cabinet option readily available. The sturdy, proven design, along with many versatile features, keep it at the forefront of CCTV urban furniture with the added bonus of tiltability.

TC & CB Range

Design Features

- The ideal column for urban CCTV schemes.
- Proven design accepted by the Highways Agency.
- Integral lockable cabinet base for housing telemetry, fibre optics, spurs etc.
- Excellent stability characteristics ensures minimal camera movement.
- Recommended for installation in high profile places.
- Suitable for all public access areas.
- Desirable columns where aesthetics are of importance.
- Totally concealed cable management facility.
- High security and 'vault' door options for high risk areas.
- Decorative and ornamental versions available.
- Options include double doors and split cabinets.
- Telecom cell scheme versions available.
- Hot dipped galvanised finish for maximum weather protection and low maintenance requirements.
- Custom and bespoke versions tailored to the customer's requirements.

General Specifications

- Standard pan and tilt fixing of 101.6 PCD.
- Built in cable entry and exit points.
- Compatible with WEC adaptors, accessories and anti-climbs.
- Flange-mounted 'TC' type root.
- 'Pocket' type roots available for restricted foundation locations.
- Equipment loading up to 25kg.
- Variety of standard heights from 3 to 15 metres.

Product Codes

400/500 TC Range:

- TC3
- TC4
- TC5
- TC6
- TC7
- TC8
- TC10
- TC12
- TC15

325 CB Range:

- CB4
- CB5
- CB6
- CB8



TCTO & CBTO Range

Design Features

- The versatile column for urban CCTV schemes.
- Proven design accepted by the Highways Agency.
- The tilt-over column enables safe camera maintenance at ground level.
- Integral lockable cabinet base for housing telemetry, fibre optics, spurs etc.
- Excellent stability characteristics ensures minimal camera movement.
- Recommended for installation in high profile places.
- Suitable for all public access areas.
- Desirable columns where aesthetics are of importance.
- Totally concealed cable management facility.
- High security and 'vault' door options for high risk areas.
- A transferable winch which allows multi-site servicing and leaves installation tamper proof.
- Hot dipped galvanised finish for maximum weather protection and low maintenance requirements.
- Custom and bespoke versions tailored to the customer's requirements.

General Specifications

- Standard pan and tilt fixing of 101.6 PCD.
- Built in cable entry and exit points.
- Compatible with WEC adaptors, accessories and anti-climbs.
- Flange-mounted 'TC' type root.
- 'Pocket' type roots available for restricted foundation locations.
- Equipment loading up to 25kg.
- Variety of standard heights from 4 to 10 metres.

Product Codes

400 TCTO Range:

- TC4TO
- TC5TO
- TC6TO
- TC7TO
- TC8TO
- TC10TO

325 CBTO Range:

- CB4TO
- CB5TO
- CB6TO
- CB8TO



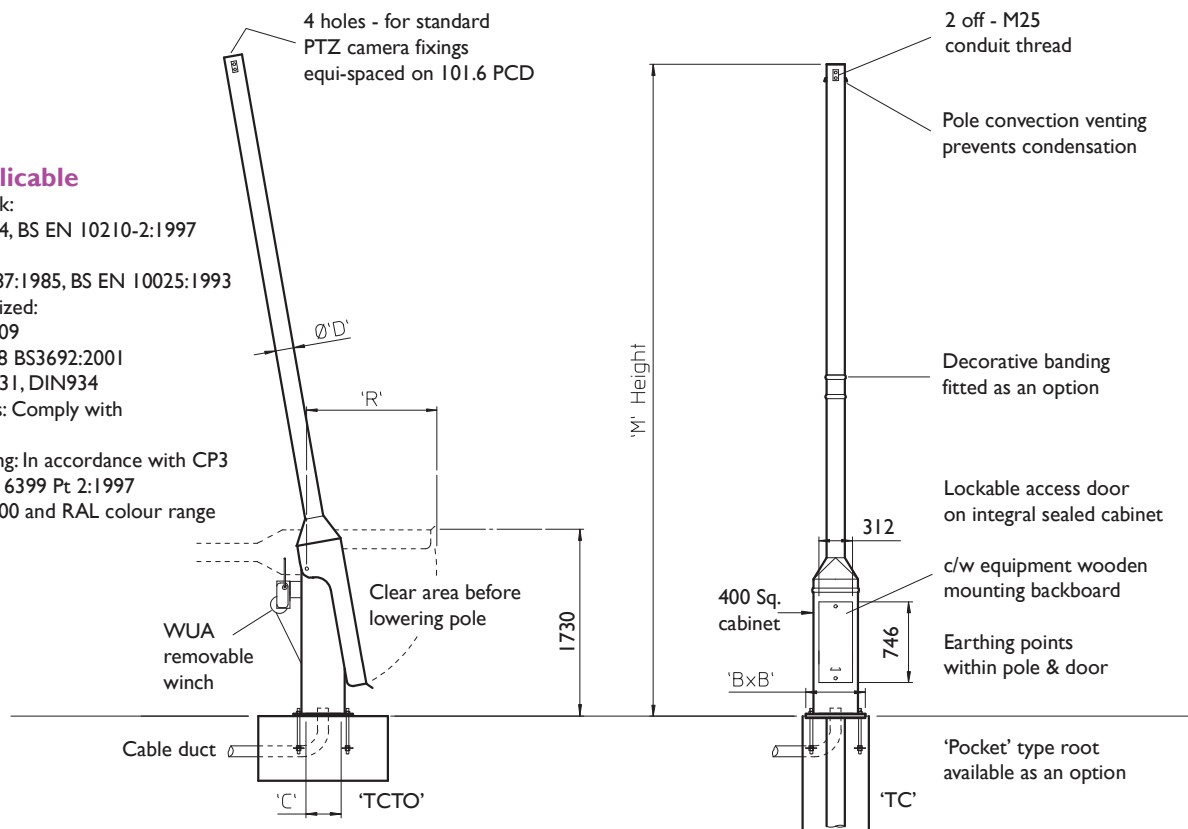
Technical Specification

Model Ref.	'M' Height	Tilting rear clearance 'R'	Baseplate size 'BxB'	Tube diam. 'D'	Cable access hole 'C'	Maximum equip cap'ty	Weight Kgs	Winch Selection
TC3	3 metres	n/a	550x550	Ø168	325x325	25Kg.	181.3 Kgs.	n/a
TC4	4 metres	n/a	550x550	Ø168	325x325	25Kg.	208.4 Kgs.	n/a
TCTO4		1220	550x550	Ø168	325x325	25Kg.	226.4 Kgs.	WUA
TC5	5 metres	n/a	550x550	Ø168	325x325	25Kg.	228.5 Kgs.	n/a
TCTO5		1220	550x550	Ø168	325x325	25Kg.	246.5 Kgs.	WUA
TC6	6 metres	n/a	550x550	Ø168	325x325	25Kg.	248.6 Kgs.	n/a
TCTO6		1220	550x550	Ø168	325x325	25Kg.	266.6 Kgs.	WUA
TC8	8 metres	n/a	550x550	Ø168	325x325	25Kg.	288.8 Kgs.	n/a
TC8HD		n/a	550x550	Ø219	325x325	25Kg.	331.8 Kgs.	n/a
TCTO8		1220	550x550	Ø168	325x325	25Kg.	349.8 Kgs.	WUA
TC10	10 metres	n/a	645x645	Ø219	325x325	25Kg.	384.6 Kgs.	n/a
TC10HD		n/a	645x645	Ø273	325x325	25Kg.	516.1 Kgs.	n/a
TC12	12 metres	n/a	645x645	Ø273	325x325	25Kg.	598.9 Kgs.	n/a

All dimensions in mm unless otherwise stated

Standards Applicable

- Structural Steelwork:
BS EN 10210-1:1994, BS EN 10210-2:1997
- General Steelwork:
BS1449:1991, BS1387:1985, BS EN 10025:1993
- Hot Dipped Galvanized:
BS EN ISO 1461:2009
- Fasteners: Grade 8.8 BS3692:2001
BS4190:2001, DIN931, DIN934
- Welding Procedures: Comply with
BS EN 1011-2:2001
- Design Wind Loading: In accordance with CP3
chapter V Pt 2 & BS 6399 Pt 2:1997
- Paint Finishes: BS4800 and RAL colour range



Options & Accessories

- Enlarged cabinet (500 Sq.)
- All pan/tilt, dome, fixed camera mount bracketry
- Transferable winch for tilt-over columns
- Double door access (partitioned cabinet)
- Camera wash equipment (static columns only)
- Ornate camera mounting brackets

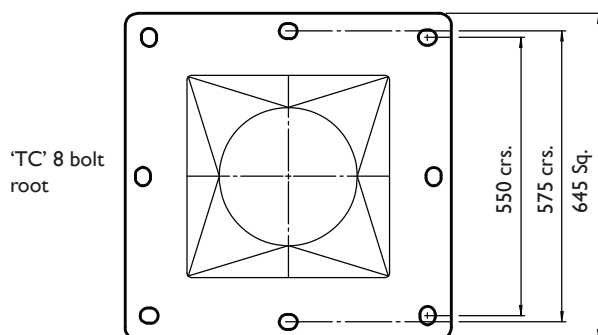
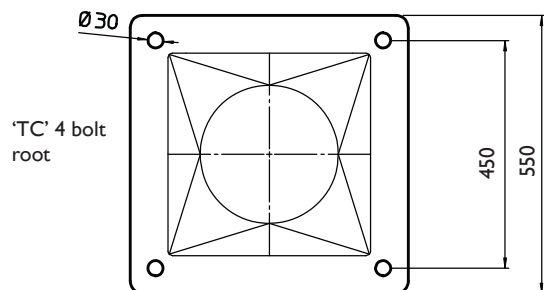
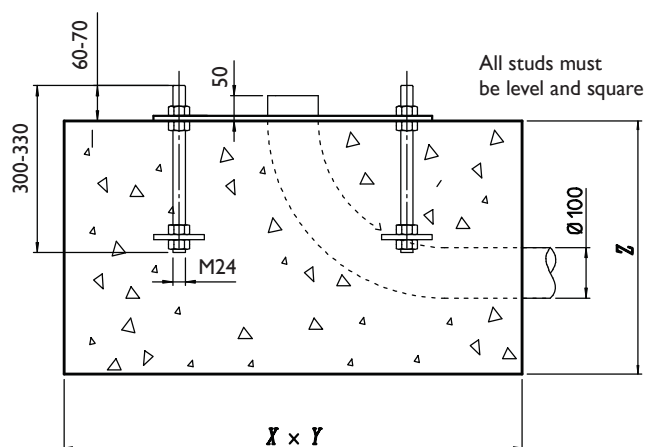
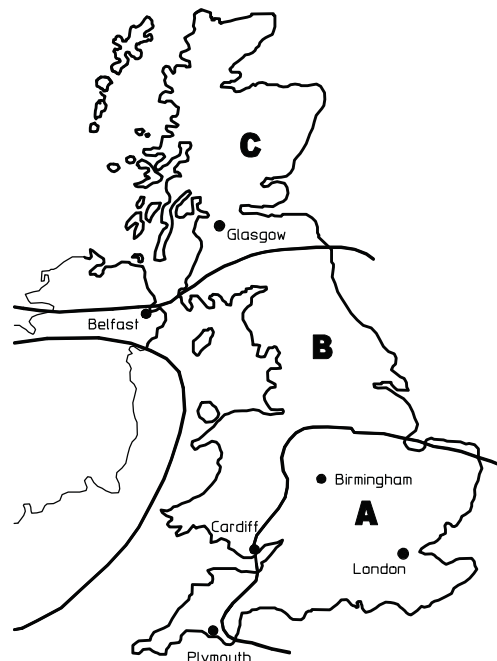
Product Ref & Ordering Information

	TC	TO	6	HD
Town Centre 400 Sq. Cabinet Based Column				
Tilt-Over Column				
Column Height in Metres				
Heavy Duty Column when minimum deflection is required i.e. high zoom lens camera				

Base and Windload Specification

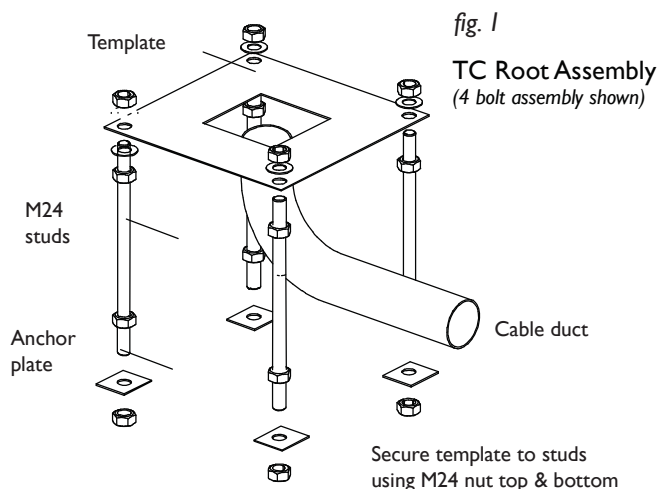
Concrete Foundation Table X x Y x Z							
Model Ref	Height	Area of Country			Area of Town		
		A	B	C	A	B	C
TC3	3m	0.8x0.8x 0.4m Dp.	0.8x0.8x 0.4m Dp.	0.9x0.9x 0.45m Dp.	0.8x0.8x 0.4m Dp.	0.8x0.8x 0.4m Dp.	0.8x0.8x 0.4m Dp.
TC4	4m	0.9x0.9x 0.45m Dp.	0.9x0.9x 0.45m Dp.	0.9x0.9x 0.45m Dp.	0.8x0.8x 0.4m Dp.	0.9x0.9x 0.45m Dp.	0.9x0.9x 0.45m Dp.
TC5	5m	1.0x1.0x 0.5m Dp.	1.0x1.0x 0.5m Dp.	1.0x1.0x 0.5m Dp.	0.9x0.9x 0.45m Dp.	1.0x1.0x 0.5m Dp.	1.0x1.0x 0.5m Dp.
TC6	6m	1.0x1.0x 0.5m Dp.	1.1x1.1x 0.55m Dp.	1.2x1.2x 0.6m Dp.	1.0x1.0x 0.5m Dp.	1.1x1.1x 0.55m Dp.	1.1x1.1x 0.55m Dp.
TC8	8m	1.2x1.2x 0.6m Dp.	1.3x1.3x 0.65m Dp.	1.3x1.3x 0.65m Dp.	1.1x1.1x 0.55m Dp.	1.2x1.2x 0.6m Dp.	1.3x1.3x 0.65m Dp.
TC10	10m	1.4x1.4x 0.7m Dp.	1.5x1.5x 0.75m Dp.	1.6x1.6x 0.8m Dp.	1.3x1.3x 0.65m Dp.	1.4x1.4x 0.7m Dp.	1.5x1.5x 0.75m Dp.
TC12	12m	1.7x1.7x 0.85m Dp.	1.8x1.8x 0.9m Dp.	1.9x1.9x 0.85m Dp.	1.6x1.6x 0.8m Dp.	1.7x1.7x 0.85m Dp.	1.8x1.8x 0.9m Dp.

A minimum soil bearing pressure of 75 KN/m² is assumed



Installation Method

1. From the map, select location of installation
2. Excavate as per recommended area and depth
3. Assemble root base as shown in fig. 1
4. Insert root base into the hole ensuring that it is level and that the four studs protrude 60-70mm above the concrete foundation
5. Fit the cable duct if routing via the interior of the column. A plastic pipe of approximately 100mm outside diameter is recommended for this. Ensure this protrudes through the template by 50mm minimum.
6. Pour concrete ensuring that it is a mix of C35 to table 6 BS 8110 and then tamp down well
7. Fit the setting template over the four protruding studs, double-checking that they are level and that clear access can be gained to the cable duct if it is being used
8. Leave the concrete to cure for a minimum of 72 hours prior to attempting to erect the column
9. When fitting the column, ensure that the concrete base is in complete contact with the underside of the column and grout accordingly
10. When the column has been fitted, protect the studs with a suitable protective coating. Denzo tape or similar is recommended for this



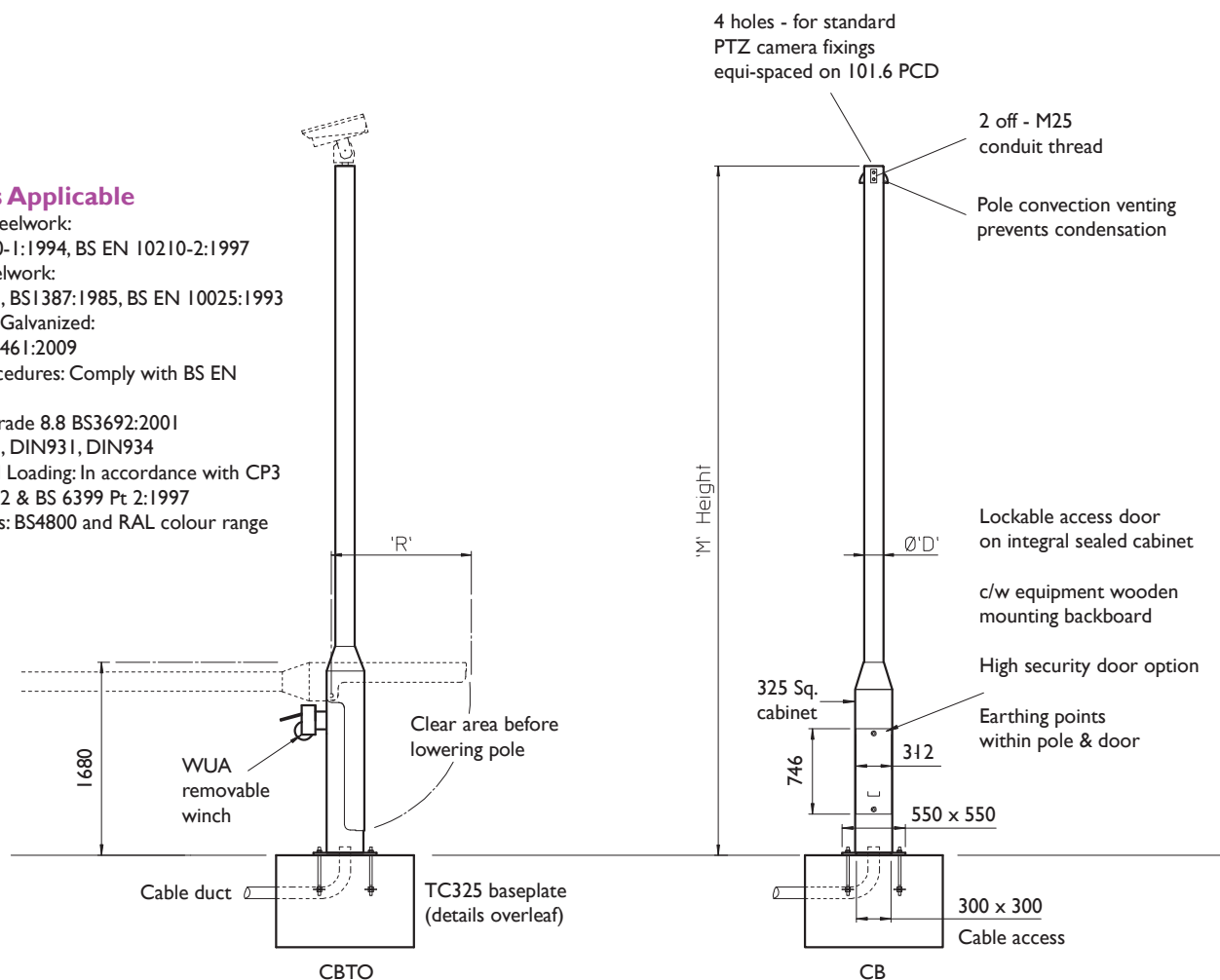
Technical Specification

Model Ref.	'M' Height	Tilting rear clearance 'R'	Maximum equipment capacity	Shaft diameter 'D'	Weight Kgs	Winch Selection
CB4	4 metres	n/a	25Kg.	Ø139	175Kgs.	n/a
CBT04		1220	25Kg.	Ø139	222Kgs.	WUA
CB5	5 metres	n/a	25Kg.	Ø139	195Kgs.	n/a
CBT05		1220	25Kg.	Ø139	242Kgs.	WUA
CB6	6 metres	n/a	25Kg.	Ø139	215Kgs.	n/a
CBT06		1220	25Kg.	Ø139	262Kgs.	WUA
CB8	8 metres	n/a	25Kg.	Ø139	255Kgs.	n/a
CBT08		1220	25Kg.	Ø139	302Kgs.	WUA

All dimensions in mm unless otherwise stated

Standards Applicable

- Structural Steelwork:
BS EN 10210-1:1994, BS EN 10210-2:1997
- General Steelwork:
BS1449:1991, BS1387:1985, BS EN 10025:1993
- Hot Dipped Galvanized:
BS EN ISO 1461:2009
- Welding Procedures: Comply with BS EN 1011-2:2001
- Fasteners: Grade 8.8 BS3692:2001
BS4190:2001, DIN931, DIN934
- Design Wind Loading: In accordance with CP3 chapter V Pt 2 & BS 6399 Pt 2:1997
- Paint Finishes: BS4800 and RAL colour range



Accessories & Adaptors

CB(TO)/ACB Anti-Climb Bracket
 CB(TO)/Paint Paint to BS4800 & RAL Colours
 CB(TO)/SDA Swept Dome Adaptor
 CB(TO)/SDA2 Swept Dome Adaptor Dual
 CB(TO)/PTI-S2 1 Pan & Tilt c/w 2 Static Adaptors
 CB(TO)/TPTA Twin Pan & Tilt Adaptors
 CB(TO)/2SA Twin Static Adaptor
 CB(TO)/ISA Pan & Tilt - Single Fixed

CB(TO)/CS150-300 Column Spacers 150mm-300mm
 CB(TO)/TBC Telemetry Clamp Bracket
 CB(TO)/HSD-F High Security Door Option
 CB(TO)/LS Ladder Support

Product Ref & Ordering Information

325 Sq. Cabinet Based Column CB
 Tilt-Over Column TO
 Column Height in Metres 6

Base and Windload Specification

Concrete Foundation Table X x Y x Z							
Model Ref	Height	Area of Country			Area of Town		
		A	B	C	A	B	C
CB3	3m	0.8x0.8x 0.4m Dp.	0.8x0.8x 0.4m Dp.	9x0.9x 0.45m Dp.	0.8x0.8x 0.4m Dp.	0.8x0.8x 0.4m Dp.	0.8x0.8x 0.4m Dp.
CB4 CBTO4	4m	0.9x0.9x 0.45m Dp.	0.9x0.9x 0.45m Dp.	0.9x0.9x 0.45m Dp.	0.8x0.8x 0.4m Dp.	0.8x0.8x 0.4m Dp.	0.9x0.9x 0.45m Dp.
CB5 CBTO5	5m	1.0x1.0x 0.5m Dp.	1.0x1.0x 0.5m Dp.	1.0x1.0x 0.5m Dp.	0.9x0.9x 0.45m Dp.	0.9x0.9x 0.45m Dp.	1.0x1.0x 0.5m Dp.
CB6 CBTO6	6m	1.1x1.1x 0.55m Dp.	1.1x1.1x 0.55m Dp.	1.2x1.2x 0.6m Dp.	1.0x1.0x 0.5m Dp.	1.0x1.0x 0.5m Dp.	1.1x1.1x 0.55m Dp.
CB8 CBTO8	8m	1.2x1.2x 0.6m Dp.	1.3x1.3x 0.65m Dp.	1.4x1.4x 0.7m Dp.	1.1x1.1x 0.55m Dp.	1.2x1.2x 0.6m Dp.	1.2x1.2x 0.6m Dp.

A minimum soil bearing pressure of 75 KN/m² is assumed

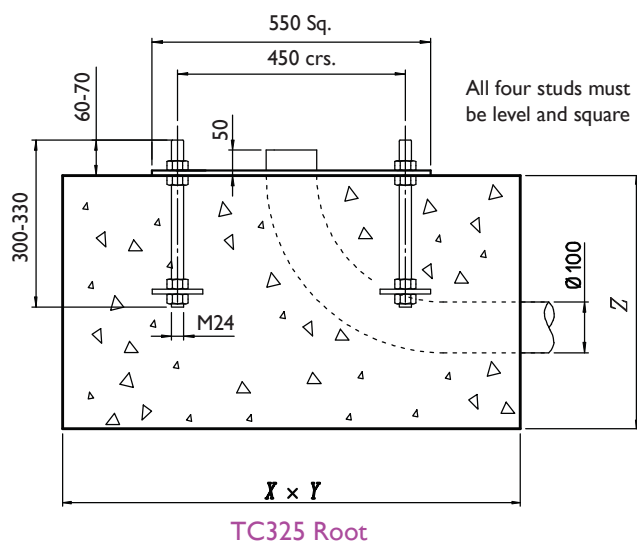
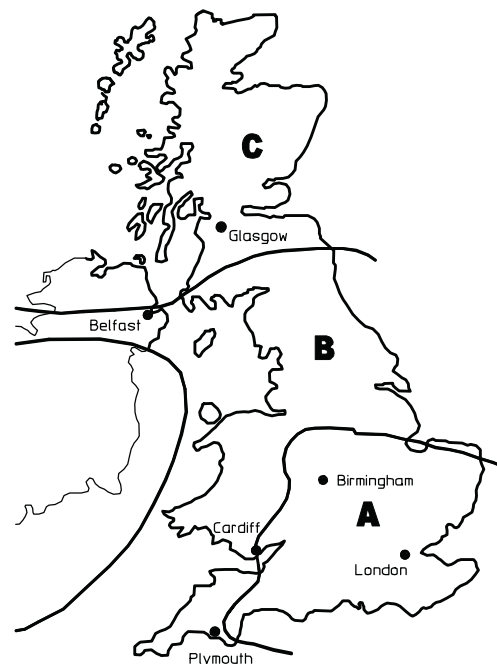
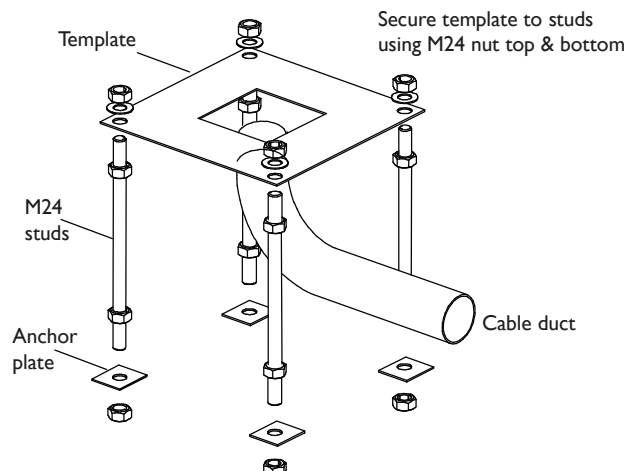


fig. 1

TC325 Root Assembly



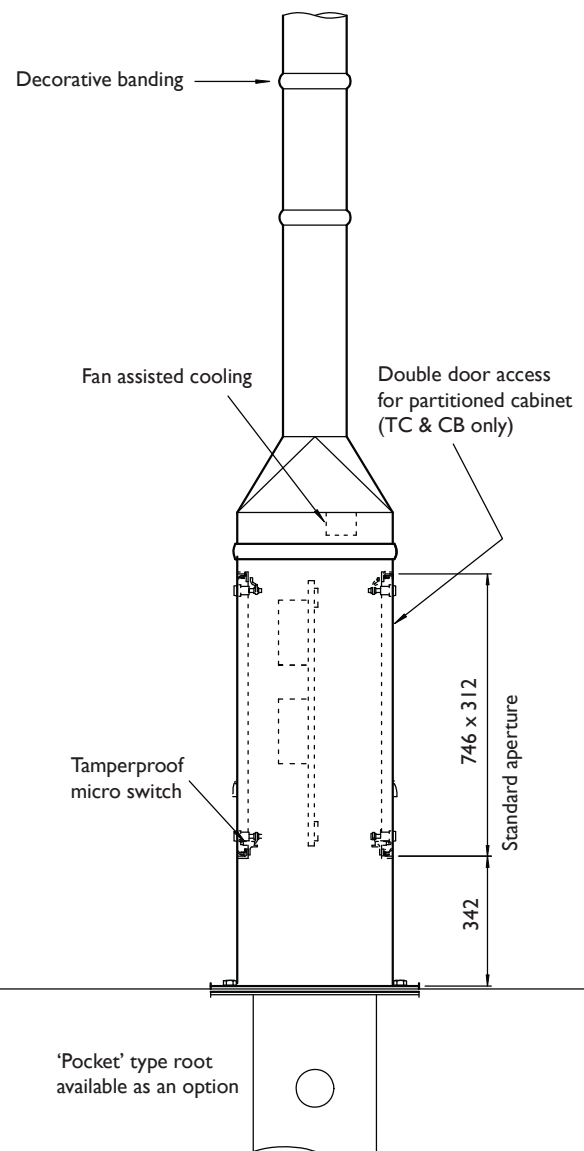
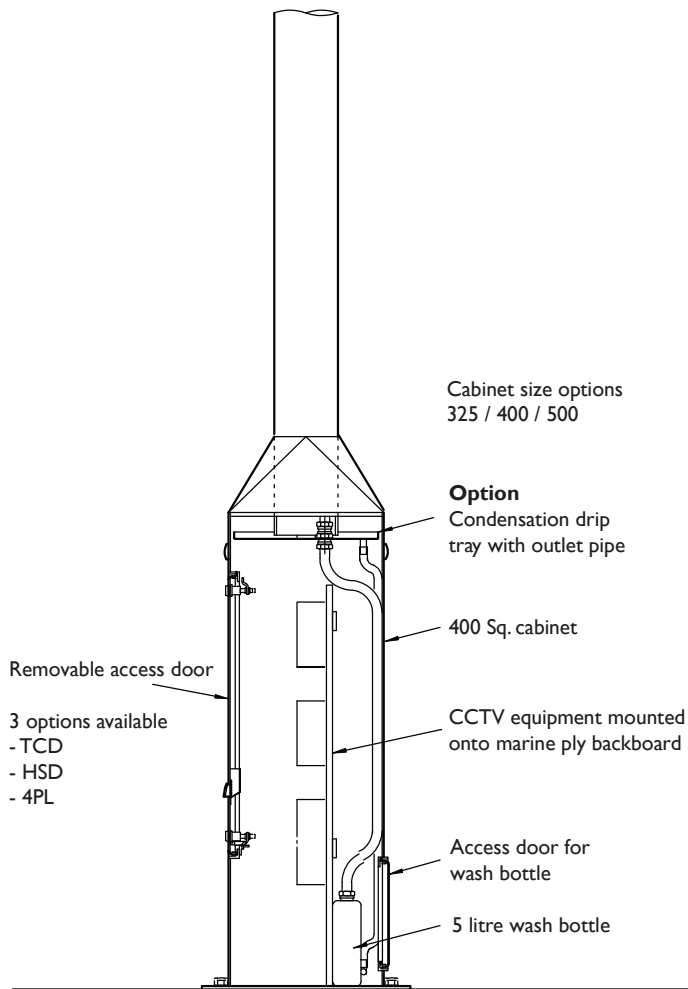
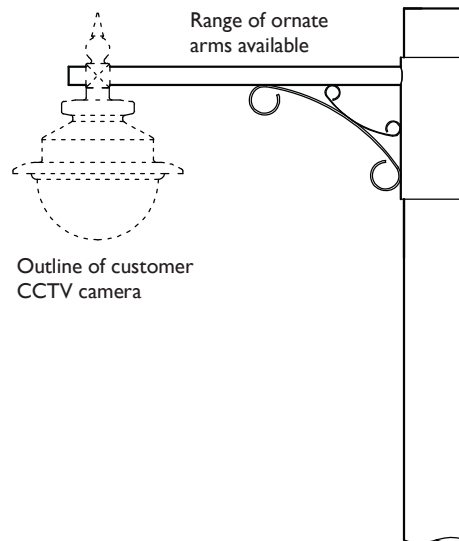
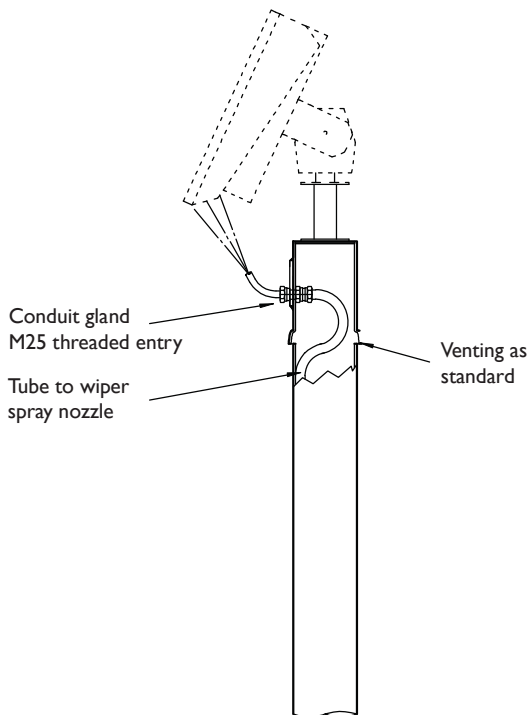
Installation Method

1. From the map, select location of installation
2. Excavate as per recommended area and depth
3. Assemble root base as shown in fig. 1
4. Insert root base into the hole ensuring that it is level and that the four studs protrude 60-70mm above the concrete foundation
5. Fit the cable duct if routing via the interior of the column. A plastic pipe of approximately 100mm outside diameter is recommended for this. Ensure this protrudes through the template by 50mm minimum.
6. Pour concrete ensuring that it is a mix of C35 to table 6 BS 8110 and then tamp down well
7. Fit the setting template over the four protruding studs, double-checking that they are level and that clear access can be gained to the cable duct if it is being used
8. Leave the concrete to cure for a minimum of 72 hours prior to attempting to erect the column
9. When fitting the column, ensure that the concrete base is in complete contact with the underside of the column and grout accordingly. Torque the nuts to 230-270 Nm (175-200 fl. lb.)
10. When the column has been fitted, protect the studs with a suitable protective coating. Denzo tape or similar is recommended for this

Foundation sizes are determined for three sets of wind speeds, which will cover most of the British Isles.

Area A = 44m/s (98mph)
Area B = 48m/s (107mph)
Area C = 52m/s (116mph)

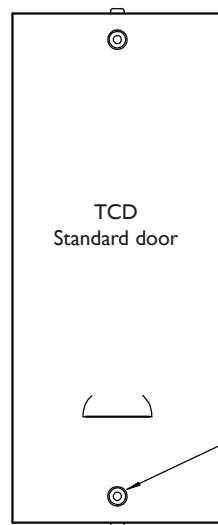
Maximum gust speed is likely to be exceeded on average once every 50 years at 10m above the ground in open level country.



Optional Extras

Door Options

Moderate risk area
2 point locking

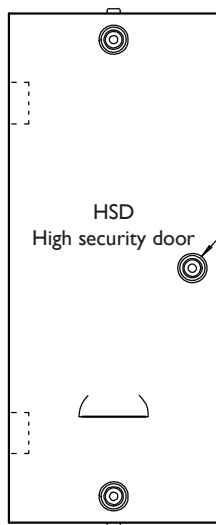


Compression latches,
locks door & pulls tight
with one half turn

One key required

- Louvered door
- Close fitting and flush door
- Self grip rubber door seal
- Secure compression locks
- Earthing lugs

High risk area
3 point locking

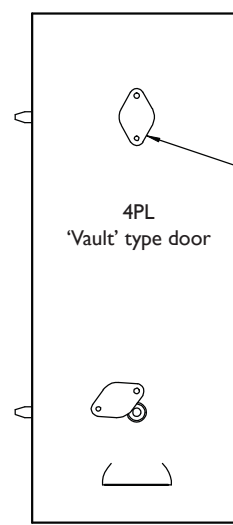


High security lock
c/w protection shroud

Two keys required

- Louvered door
- Close fitting and flush door
- Self grip rubber door seal
- 2 secure compression locks and 1 high security lock
- Earthing lugs
- Protection shrouds for each lock

Very high risk area
4 point locking



Tamperproof
escutcheon plate

4 off retractable
locking bolts

Three keys required

- Louvered door
- Close fitting and flush door
- 2 high security locks
- Earthing lugs
- Tamperproof escutcheons for each lock
- Stainless steel locking mechanism

