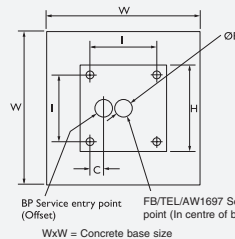


# → Modular Towers & Columns Foundations & Installation Methods

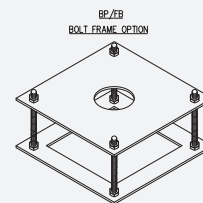
MODEL NO.	HEIGHT MTRS	BOLT CENTRES I	BASE PLATE SIZE H	SERVICE ENTRY SIZE
<b>AW1697</b>				
AW1697/4.5 - 6HD	4.5 – 6m	450	510	430 x 280
AW1697/7.5 - /9	7.5 – 9m	550	630	430 x 280
AW1697/9HD - /15	9 – 15m	700	800	430 x 280

## ACC/ACT

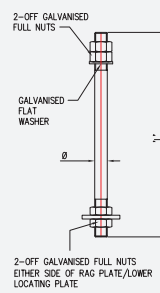
MODEL NO.	HEIGHT MTRS	BOLT CENTRES I	BASE PLATE SIZE H	SERVICE ENTRY SIZE
ACC1/FB/TEL	4.5m	350	405	90x90
ACC1/BP	4.5m	450	510	110x110
ACT1/BP	4.5m	450	510	110x110
ACC2/FB/TEL	6m	450	510	110x110
ACC2/FB/HD	6m	450	510	140x140
ACC2/BP	6m	450	510	110x110
ACC2/BP/HD	6m	450	510	110x110
ACT2/BP	6m	450	510	110x110
ACT3BP	7.5m	450	510	110x110
ACC3/FB/TEL	7.5m	450	510	140x140
ACC3/FB/HD	7.5m	550	630	180x180
ACC3BP	7.5m	550	630	140x140
ACC3BP/HD	7.5m	550	630	140x140
ACT3BP/HD	7.5m	550	630	140x140
ACC4/FB	9m	550	630	140x140
ACC4/FB/HD	9m	550	630	180x180
ACC4/BP	9m	550	630	140x140
ACT4/BP/HD	9m	550	630	140x140
ACC4/BP/HD	10-15m	700	800	180x180
ACC15BP				



BOLT SIZE	P in mm
M16	50
M20	60
M24	80
M27	100

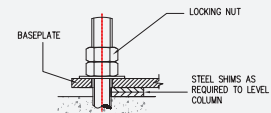


FOR HOLDING DOWN BOLT SIZE REFER TO PRODUCT TECHNICAL SPECIFICATION PAGE

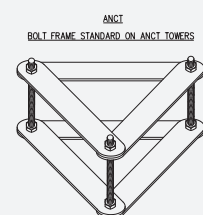
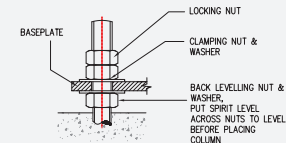


SOCKET METHOD FOR PM AND FB COLUMNS

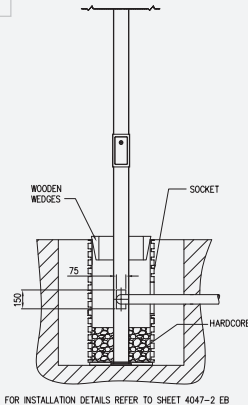
COLUMN ANCHORAGE USING TEMPLATE SETTING METHOD



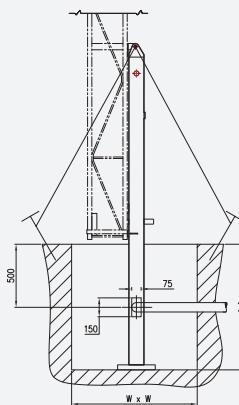
COLUMN ANCHORAGE USING BOLT FRAME SETTING METHOD



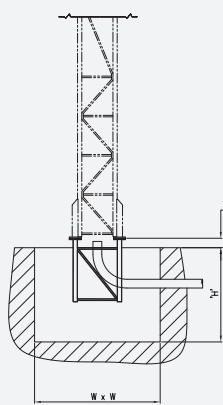
FOR ANCT INSTALLATION DETAILS REFER TO SHEET 4302-21



FOR INSTALLATION DETAILS REFER TO SHEET 4047-2 FB 4047-3 PM



FOR INSTALLATION DETAILS REFER TO SHEET 1715



FOR INSTALLATION DETAILS REFER TO SHEET 4425-4

## Installation method for FB & BP - Base plate models

- Excavate as per recommended area and depth.
  - Shutter off top edge level and place ducting - ensure that all shuttering is supported.
  - Assemble bolts through template and screw nuts on so that recommended thread is protruding through template (see table for measurement).
  - If using bolt frame, ensure that 30mm of thread is showing above top nut
  - Pour concrete level with top of shuttering, tamp down and level surface.
  - Push bolts/bolt frame down into concrete so that template is flat on concrete and nuts are against template with bolts vertical (template method), or that template is level and nuts below template are just clear of concrete (bolt frame method).
  - Ensure that cable duct end is through entry point in template by 50mm min.
  - Allow 72 hours for concrete to cure before placing pole/column
  - Remove template before placing pole.
- Note: Where back nuts are used to level pole/column it is essential that a load bearing grout is used to fill the void between base plate and concrete. Failure to do this may cause excessive deflection in pole.

## FOUNDATION SIZES FOR THE UK

COLUMN/TOWER HEIGHT M	COUNTRY LOCATION			TOWN LOCATION		
	AREA A	AREA B	AREA C	AREA A	AREA B	AREA C
4	0.9x0.9x0.45	0.9x0.9x0.5	1x1x0.5	0.8x0.8x0.4	0.9x0.9x0.45	0.9x0.9x0.5
5	1x1x0.5	1x1x0.5	1x1x0.75	0.9x0.9x0.5	1x1x0.5	1x1x0.5
6	1x1x0.75	1x1x0.75	1.1x1.1x0.75	1x1x0.5	1x1x0.75	1.1x1.1x0.75
8	1.1x1.1x0.75	1.25x1.25x0.75	1.4x1.4x0.75	1.1x1.1x0.75	1.25x1.25x0.75	1.4x1.4x0.75
9	1.25x1.25x0.75	1.4x1.4x0.75	1.5x1.5x0.75	1.1x1.1x0.75	1.25x1.25x0.75	1.4x1.4x0.75
10	1.4x1.4x0.75	1.5x1.5x0.75	1.6x1.6x0.8	1.25x1.25x0.75	1.4x1.4x0.75	1.5x1.5x0.75
11	1.4x1.4x0.75	1.5x1.5x0.75	1.6x1.6x0.8	1.25x1.25x0.75	1.4x1.4x0.75	1.5x1.5x0.75
12	1.5x1.5x0.75	1.6x1.6x0.8	1.7x1.7x0.9	1.4x1.4x0.75	1.5x1.5x0.75	1.6x1.6x0.8
13	1.6x1.6x0.8	1.7x1.7x0.9	1.8x1.8x1	1.5x1.5x0.75	1.6x1.6x0.8	1.8x1.8x0.9
14	1.7x1.7x0.9	1.8x1.8x1	2x2x1	1.6x1.6x0.8	1.7x1.7x0.9	1.8x1.8x1
15	1.8x1.8x0.9	2x2x1	2.1x2.1x1.1	1.7x1.7x0.9	1.8x1.8x0.9	2x2x1

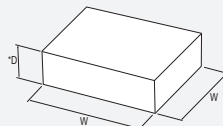
Foundations sizes are W x W x D

NOTE FOR INTERMEDIATE POLE/TOWER HEIGHTS, ROUND-UP TO THE NEXT HEIGHT - I.E. FOR 4.5M USE 5M.  
FOR PM MODELS - MINIMUM FOUNDATION DEPTH 1.0M, USE THE SAME WIDTH DETAILS SHOWN

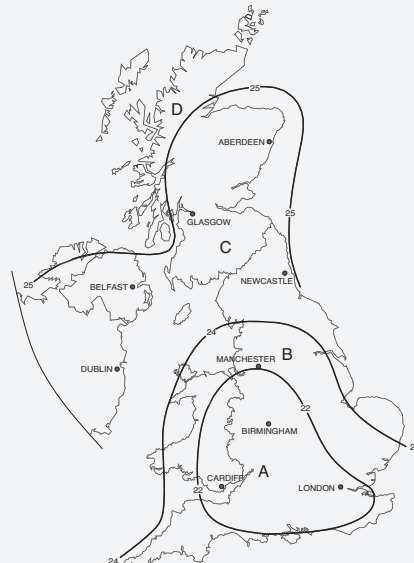
FOR FOUNDATION SIZES:- A MINIMUM SOIL BEARING PRESSURE OF 75kN/m<sup>2</sup> IS ASSUMED

Minimum concrete Grade C35  
Allow 72 hours after pouring concrete before installing pole or tower

Please note that foundation sizes shown in the table above are in accordance with recommended headload and windload capacities shown in technical specification tables. For increased headloads - foundations may need to increase in size - please contact us for revised foundation sizes for specific installations.



\*D= 1000 on PM and buried flange/embedded base models



- WIND SPEED AREAS 22m/s, 24m/s, 25m/s  
TAKEN FROM FIG 6 BS6399 - BASIC WINDSPEEDS Vb.
- SITE MEAN WINDSPEEDS (Vs) FOR AREAS A, B & C ARE:-  
A= 24.2m/s(100m ASL) B=26.4m/s(100m ASL) C=28.8m/s(150m ASL)
- ACTUAL WIND VELOCITY FOR THESE WINDSPEEDS (Vd) ARE:-  
A=41.8m/s(93mph) B=45.6m/s(102mph) C=50m/s(111mph)
- FOR AREA 'D' - PLEASE CONTACT ALTRON FOR FOUNDATION SPECIFICATION

For ANCT towers bolt centres and sizes are shown in ANCT technical specification on page 15