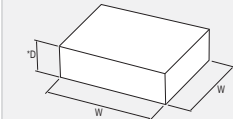


# → Modular Towers & Columns Foundation & Bolting Details

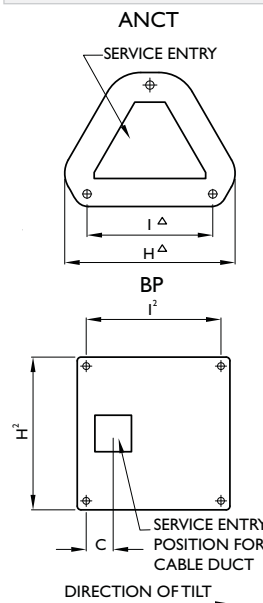
| MODEL NO.                                                             | HEIGHT<br>MTRS | BOLT<br>CENTRES I <sup>2</sup> | BASE<br>PLATE SIZE H <sup>2</sup> | SERVICE<br>ENTRY SIZE | SERVICE C<br>ENTRY OFFSET<br>(BP MODELS) | HOLDING<br>DOWN BOLT<br>SIZE D x L | FOUNDATION SIZES FOR THE UK |                  |                  |                  |                  |                  |
|-----------------------------------------------------------------------|----------------|--------------------------------|-----------------------------------|-----------------------|------------------------------------------|------------------------------------|-----------------------------|------------------|------------------|------------------|------------------|------------------|
|                                                                       |                |                                |                                   |                       |                                          |                                    | COUNTRY LOCATION            |                  |                  | TOWN LOCATION    |                  |                  |
|                                                                       |                |                                |                                   |                       |                                          |                                    | AREA A                      | AREA B           | AREA C           | AREA A           | AREA B           | AREA C           |
| <b>ACC-FB - Fixed Base columns</b>                                    |                |                                |                                   |                       |                                          |                                    |                             |                  |                  |                  |                  |                  |
| ACC1/FB                                                               | 4.5            | 350                            | 405                               | 90x90                 |                                          | M16x245                            | 1.0 x 1.0 x 0.5             | 1.1 x 1.1 x 0.55 | 1.1 x 1.1 x 0.55 | 0.9 x 0.9 x 0.5  | 1.0 x 1.0 x 0.5  | 1.0 x 1.0 x 0.5  |
| ACC2/FB                                                               | 6              | 450                            | 510                               | 110x110               |                                          | M20x325                            | 1.1 x 1.1 x 0.55            | 1.2 x 1.2 x 0.6  | 1.2 x 1.2 x 0.6  | 1.0 x 1.0 x 0.5  | 1.1 x 1.1 x 0.55 | 1.1 x 1.1 x 0.55 |
| ACC2/FB/HD                                                            | 6              | 450                            | 510                               | 140x140               |                                          | M20x325                            | 1.2 x 1.2 x 0.6             | 1.3 x 1.3 x 0.65 | 1.3 x 1.3 x 0.65 | 1.1 x 1.1 x 0.55 | 1.2 x 1.2 x 0.6  | 1.2 x 1.2 x 0.6  |
| ACC3/FB                                                               | 7.5            | 450                            | 510                               | 140x140               |                                          | M20x325                            | 1.3 x 1.3 x 0.65            | 1.4 x 1.4 x 0.7  | 1.4 x 1.4 x 0.7  | 1.2 x 1.2 x 0.6  | 1.3 x 1.3 x 0.65 | 1.3 x 1.3 x 0.65 |
| ACC3/FB/HD                                                            | 7.5            | 550                            | 630                               | 180x180               |                                          | M24x425                            | 1.4 x 1.4 x 0.7             | 1.5 x 1.5 x 0.75 | 1.5 x 1.5 x 0.75 | 1.3 x 1.3 x 0.65 | 1.4 x 1.4 x 0.7  | 1.4 x 1.4 x 0.7  |
| ACC4/FB                                                               | 9              | 550                            | 630                               | 140x140               |                                          | M24x425                            | 1.4 x 1.4 x 0.7             | 1.5 x 1.5 x 0.75 | 1.6 x 1.6 x 0.8  | 1.3 x 1.3 x 0.65 | 1.4 x 1.4 x 0.7  | 1.4 x 1.4 x 0.7  |
| ACC4/FB/HD                                                            | 10             | 550                            | 630                               | 180x180               |                                          | M24x425                            | 1.8 x 1.8 x 0.9             | 1.8 x 1.8 x 0.9  | 2.0 x 2.0 x 1.0  | 1.7 x 1.7 x 0.9  | 1.8 x 1.8 x 0.9  | 1.8 x 1.8 x 0.9  |
| <b>ACC-BP(PM) - Base Post (Post Mounted) columns</b>                  |                |                                |                                   |                       |                                          |                                    |                             |                  |                  |                  |                  |                  |
| ACC1/BP                                                               | 4.5            | 450                            | 510                               | 110x110               | 90                                       | M20x325                            | 1.0 x 1.0 x 0.5             | 1.1 x 1.1 x 0.55 | 1.1 x 1.1 x 0.55 | 0.9 x 0.9 x 0.5  | 1.0 x 1.0 x 0.5  | 1.0 x 1.0 x 0.5  |
| ACC2/BP                                                               | 6              | 450                            | 510                               | 110x110               | 90                                       | M20x325                            | 1.1 x 1.1 x 0.55            | 1.2 x 1.2 x 0.6  | 1.2 x 1.2 x 0.6  | 1.0 x 1.0 x 0.5  | 1.1 x 1.1 x 0.55 | 1.1 x 1.1 x 0.55 |
| ACC2/BP/HD                                                            | 6              | 450                            | 510                               | 110x110               | 90                                       | M20x325                            | 1.2 x 1.2 x 0.6             | 1.2 x 1.2 x 0.6  | 1.3 x 1.3 x 0.65 | 1.1 x 1.1 x 0.55 | 1.2 x 1.2 x 0.6  | 1.2 x 1.2 x 0.6  |
| ACC3BP                                                                | 7.5            | 550                            | 630                               | 140x140               | 105                                      | M24x425                            | 1.3 x 1.3 x 0.65            | 1.3 x 1.3 x 0.65 | 1.4 x 1.4 x 0.7  | 1.2 x 1.2 x 0.6  | 1.3 x 1.3 x 0.65 | 1.3 x 1.3 x 0.65 |
| ACC3BP/HD                                                             | 7.5            | 550                            | 630                               | 140x140               | 105                                      | M24x425                            | 1.3 x 1.3 x 0.65            | 1.4 x 1.4 x 0.7  | 1.5 x 1.5 x 0.75 | 1.3 x 1.3 x 0.65 | 1.3 x 1.3 x 0.65 | 1.4 x 1.4 x 0.7  |
| ACC4BP                                                                | 9              | 550                            | 630                               | 140x140               | 105                                      | M24x425                            | 1.4 x 1.4 x 0.7             | 1.5 x 1.5 x 0.75 | 1.6 x 1.6 x 0.8  | 1.3 x 1.3 x 0.65 | 1.4 x 1.4 x 0.7  | 1.4 x 1.4 x 0.7  |
| ACC4BP/HD                                                             | 10             | 700                            | 800                               | 180x180               | 150                                      | M27x600                            | 1.8 x 1.8 x 0.9             | 1.8 x 1.8 x 0.9  | 2.0 x 2.0 x 1.0  | 1.7 x 1.7 x 0.9  | 1.8 x 1.8 x 0.9  | 1.8 x 1.8 x 0.9  |
| ACC12/BP                                                              | 12             | 700                            | 800                               | 180x180               | 150                                      | M27x600                            | 1.8 x 1.8 x 0.9             | 1.9 x 1.9 x 1.0  | 2.0 x 2.0 x 1.0  | 1.7 x 1.7 x 0.9  | 1.8 x 1.8 x 0.9  | 1.9 x 1.9 x 0.9  |
| ACC15/BP                                                              | 15             | 700                            | 800                               | 180x180               | 150                                      | M27x600                            | 2.0 x 2.0 x 1.0             | 2.0 x 2.0 x 1.0  | 2.2 x 2.2 x 1.1  | 1.8 x 1.8 x 0.9  | 2.0 x 2.0 x 1.0  | 2.0 x 2.0 x 1.0  |
| <b>ACT-BP-PM-FB- standard towers (HD bolts not used on FB towers)</b> |                |                                |                                   |                       |                                          |                                    |                             |                  |                  |                  |                  |                  |
| ACT1                                                                  | 4.5            | 450                            | 510                               | 110x110               | 90                                       | M20x325                            | 1.1 x 1.1 x 0.55            | 1.1 x 1.1 x 0.55 | 1.2 x 1.2 x 0.6  | 1.0 x 1.0 x 0.5  | 1.0 x 1.0 x 0.5  | 1.1 x 1.1 x 0.55 |
| ACT2                                                                  | 6              | 450                            | 510                               | 110x110               | 90                                       | M20x325                            | 1.2 x 1.2 x 0.6             | 1.2 x 1.2 x 0.6  | 1.3 x 1.3 x 0.65 | 1.1 x 1.1 x 0.55 | 1.1 x 1.1 x 0.55 | 1.2 x 1.2 x 0.6  |
| ACT3                                                                  | 7.5            | 450                            | 510                               | 110x110               | 90                                       | M20x325                            | 1.2 x 1.2 x 0.6             | 1.2 x 1.2 x 0.6  | 1.3 x 1.3 x 0.65 | 1.1 x 1.1 x 0.55 | 1.1 x 1.1 x 0.55 | 1.2 x 1.2 x 0.6  |
| ACT3/HD                                                               | 7.5            | 550                            | 630                               | 140x140               | 105                                      | M24x425                            | 1.3 x 1.3 x 0.65            | 1.4 x 1.4 x 0.7  | 1.4 x 1.4 x 0.7  | 1.2 x 1.2 x 0.6  | 1.2 x 1.2 x 0.6  | 1.3 x 1.3 x 0.65 |
| ACT4/HD                                                               | 9              | 550                            | 630                               | 140x140               | 105                                      | M24x425                            | 1.3 x 1.3 x 0.65            | 1.4 x 1.4 x 0.7  | 1.4 x 1.4 x 0.7  | 1.2 x 1.2 x 0.6  | 1.3 x 1.3 x 0.65 | 1.3 x 1.3 x 0.65 |
| ACT12                                                                 | 12             | 550                            | 630                               | 160x160               | 105                                      | M24x425                            | 1.4 x 1.4 x 0.7             | 1.5 x 1.5 x 0.75 | 1.6 x 1.6 x 0.8  | 1.3 x 1.3 x 0.65 | 1.4 x 1.4 x 0.7  | 1.4 x 1.4 x 0.7  |
| ACT14/BP/PM                                                           | 14             | 700                            | 800                               | 230x230               | 150                                      | M27x600                            | 1.6 x 1.6 x 0.8             | 1.7 x 1.7 x 0.9  | 1.8 x 1.8 x 0.9  | 1.4 x 1.4 x 0.75 | 1.5 x 1.5 x 0.75 | 1.6 x 1.6 x 0.8  |
| <b>ANCT - Nested towers</b>                                           |                |                                |                                   |                       |                                          |                                    |                             |                  |                  |                  |                  |                  |
| ANCT/4                                                                | 4              | 420                            | 570                               | 370x250               |                                          | M24x425                            | 1.1 x 1.1 x 0.55            | 1.1 x 1.1 x 0.55 | 1.2 x 1.2 x 0.6  | 1.0 x 1.0 x 0.5  | 1.0 x 1.0 x 0.5  | 1.1 x 1.1 x 0.55 |
| ANCT/6                                                                | 6              | 420                            | 570                               | 370x250               |                                          | M24x425                            | 1.2 x 1.2 x 0.6             | 1.2 x 1.2 x 0.6  | 1.3 x 1.3 x 0.65 | 1.1 x 1.1 x 0.55 | 1.2 x 1.2 x 0.6  | 1.2 x 1.2 x 0.6  |
| ANCT/8                                                                | 8              | 420                            | 570                               | 370x250               |                                          | M24x425                            | 1.3 x 1.3 x 0.65            | 1.3 x 1.3 x 0.65 | 1.4 x 1.4 x 0.7  | 1.2 x 1.2 x 0.6  | 1.2 x 1.2 x 0.6  | 1.3 x 1.3 x 0.65 |
| ANCT/10                                                               | 10             | 420                            | 570                               | 370x250               |                                          | M24x425                            | 1.4 x 1.4 x 0.7             | 1.4 x 1.4 x 0.7  | 1.5 x 1.5 x 0.75 | 1.2 x 1.2 x 0.6  | 1.3 x 1.3 x 0.65 | 1.4 x 1.4 x 0.7  |
| <b>AW1697 - cabinet based tilt-down columns</b>                       |                |                                |                                   |                       |                                          |                                    |                             |                  |                  |                  |                  |                  |
| AW1697/4.5                                                            | 4.5m           | 450                            | 510                               | 430x280               |                                          | M20x325                            | 1.0 x 1.0 x 0.5             | 1.1 x 1.1 x 0.55 | 1.1 x 1.1 x 0.55 | 0.9 x 0.9 x 0.5  | 1.0 x 1.0 x 0.5  | 1.0 x 1.0 x 0.5  |
| AW1697/6                                                              | 6m             | 450                            | 510                               | 430x280               |                                          | M20x325                            | 1.1 x 1.1 x 0.55            | 1.2 x 1.2 x 0.6  | 1.2 x 1.2 x 0.6  | 1.0 x 1.0 x 0.5  | 1.1 x 1.1 x 0.55 | 1.1 x 1.1 x 0.55 |
| AW1697/6HD                                                            | 6m             | 450                            | 510                               | 430x280               |                                          | M20x325                            | 1.2 x 1.2 x 0.6             | 1.2 x 1.2 x 0.6  | 1.3 x 1.3 x 0.65 | 1.1 x 1.1 x 0.55 | 1.2 x 1.2 x 0.6  | 1.2 x 1.2 x 0.6  |
| AW1697/7.5                                                            | 7.5m           | 550                            | 630                               | 430x280               |                                          | M24x425                            | 1.3 x 1.3 x 0.65            | 1.3 x 1.3 x 0.65 | 1.4 x 1.4 x 0.7  | 1.2 x 1.2 x 0.6  | 1.3 x 1.3 x 0.65 | 1.3 x 1.3 x 0.65 |
| AW1697/7.5HD                                                          | 7.5m           | 550                            | 630                               | 430x280               |                                          | M24x425                            | 1.3 x 1.3 x 0.65            | 1.4 x 1.4 x 0.7  | 1.5 x 1.5 x 0.75 | 1.3 x 1.3 x 0.65 | 1.3 x 1.3 x 0.65 | 1.4 x 1.4 x 0.7  |
| AW1697/9                                                              | 9m             | 550                            | 630                               | 430x280               |                                          | M24x425                            | 1.4 x 1.4 x 0.7             | 1.5 x 1.5 x 0.75 | 1.6 x 1.6 x 0.8  | 1.3 x 1.3 x 0.65 | 1.4 x 1.4 x 0.7  | 1.4 x 1.4 x 0.7  |
| AW1697/9HD                                                            | 10m            | 700                            | 800                               | 430x280               |                                          | M27x600                            | 1.8 x 1.8 x 0.9             | 1.8 x 1.8 x 0.9  | 2.0 x 2.0 x 1.0  | 1.7 x 1.7 x 0.9  | 1.8 x 1.8 x 0.9  | 1.8 x 1.8 x 0.9  |
| AW1697/12                                                             | 12m            | 700                            | 800                               | 430x280               |                                          | M27x600                            | 1.8 x 1.8 x 0.9             | 1.9 x 1.9 x 1.0  | 2.0 x 2.0 x 1.0  | 1.7 x 1.7 x 0.9  | 1.8 x 1.8 x 0.9  | 1.9 x 1.9 x 0.9  |
| AW1697/15                                                             | 15m            | 700                            | 800                               | 430x280               |                                          | M27x600                            | 2.0 x 2.0 x 1.0             | 2.0 x 2.0 x 1.0  | 2.2 x 2.2 x 1.1  | 1.8 x 1.8 x 0.9  | 2.0 x 2.0 x 1.0  | 2.0 x 2.0 x 1.0  |
| <b>ACC - Telescopic columns</b>                                       |                |                                |                                   |                       |                                          |                                    |                             |                  |                  |                  |                  |                  |
| ACC/TEL/4                                                             | 4m             | 350                            | 405                               | 90x90                 |                                          | M16x245                            | 0.9 x 0.9 x 0.5             | 0.9 x 0.9 x 0.5  | 1.0 x 1.0 x 0.5  | 0.9 x 0.9 x 0.5  | 0.9 x 0.9 x 0.5  | 0.9 x 0.9 x 0.5  |
| ACC/TEL/6                                                             | 6m             | 450                            | 510                               | 110x110               |                                          | M20x325                            | 1.1 x 1.1 x 0.55            | 1.2 x 1.2 x 0.6  | 1.2 x 1.2 x 0.6  | 1.1 x 1.1 x 0.55 | 1.1 x 1.1 x 0.55 | 1.2 x 1.2 x 0.6  |
| ACC/TEL/8                                                             | 8m             | 450                            | 510                               | 110x110               |                                          | M20x325                            | 1.2 x 1.2 x 0.6             | 1.3 x 1.3 x 0.65 | 1.3 x 1.3 x 0.65 | 1.1 x 1.1 x 0.55 | 1.2 x 1.2 x 0.6  | 1.3 x 1.3 x 0.65 |

Table dimensions in mm

Foundation sizes in table are W x V x D  
Dimensions in metres



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



- For area D locations and exposed locations over 100m above sea level for areas A, B and 150m above sea level for area C, we recommend increased foundation sizes. Please refer to the table on page 101 for conformation of these.
- A minimum soil bearing capacity of 75 kN/m<sup>2</sup> is assumed.
- Foundation base dimensions are typical and may vary depending on site conditions.
- Please refer to the foundations & windloading section on pages 101-103 for further guidance.

**REFER TO  
INSTALLATION  
METHODS ON  
PAGES 104-106**

## GALVANISED HOLDING DOWN BOLTS

