

Tubular Poles Static & Tilt Down ←



Tubular Poles Static
& Tilt Down



Tubular Camera Poles

3-16 metres

A complete range of tubular poles to cover all requirements for any CCTV system. These tubular poles, unlike those used for lighting, will provide stable mounting platforms to ensure a good quality stable picture.

features

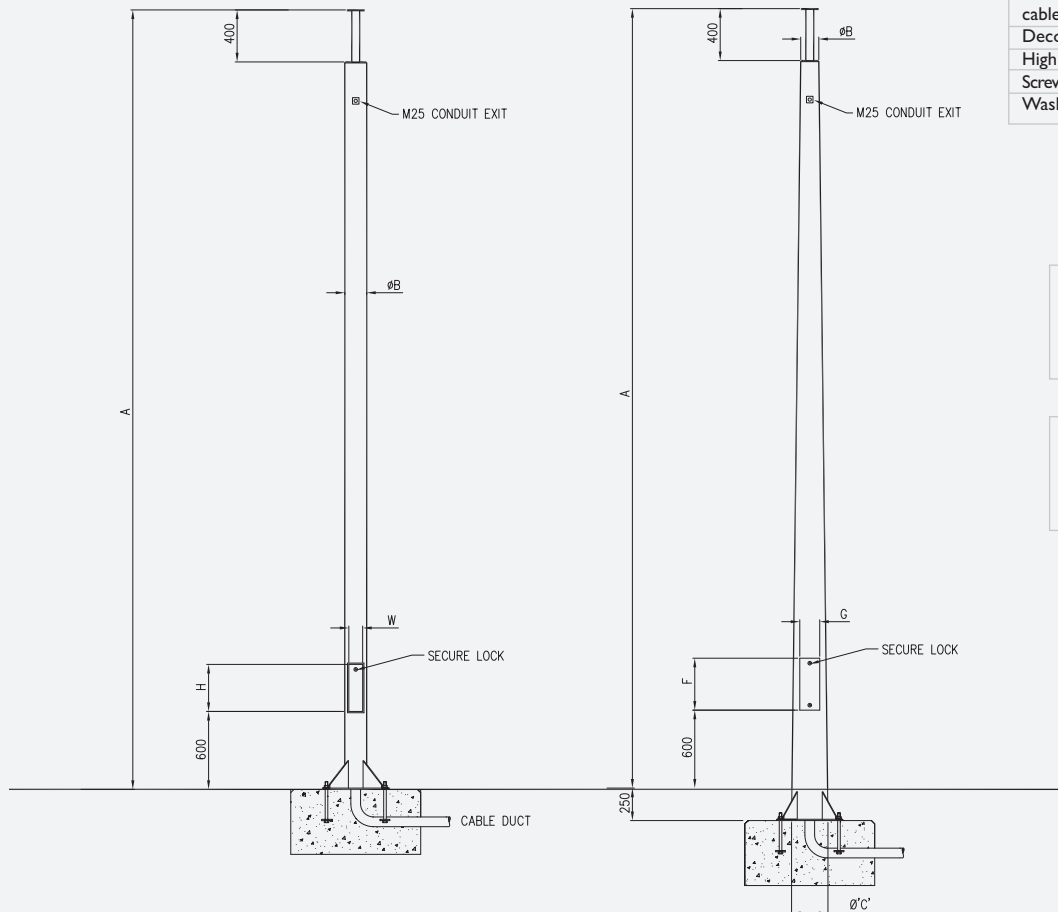
- Stable structures for all camera types
- Available in 3 duties; light, medium and heavy duty to accommodate all types of camera installations
- Secure lockable access complete with treated backboard
- This range accepts all appropriate Altron accessories and bracketry
- Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- Available in bolt down and embedded direct burial versions
- Also available in stainless steel
- Tapered versions also available for architectural aesthetics which will often complement existing structures such as lighting poles



Tubular Poles Static Technical Specification ←

Tubular Poles

AW2207 Tapered Poles



Options

PT No.

| | |
|----------------------------------------------|-----|
| Access cover plate and cable restraining bar | /AC |
| Decorative banding | /B |
| High security locks | /HS |
| Screw in swan neck adaptor | /SN |
| Washer bottle conduit | /W |

All camera mounting plates are DIA 127 with 8 No Ø 8.5 equi-spaced on 101.6 PCD. Ø 40 thro' column spacer

Poles complete with treated equipment mounting board inside compartment. Earthing lugs within pole and on door

FOR BASE DETAILS REFER TO PAGE 26

Tubular Poles Static & Tilt Down

| Model No. | Height in metres A | Payload eqpt capacity kg | Max eqpt windload m ² | Duty Rating | Tube Ø B | Door aperture Size L x W | Base plate Size H | Holding down centres I | Holding down bolt size |
|-----------|--------------------|--------------------------|----------------------------------|--------------------|-------------------|--------------------------|-------------------|------------------------------|------------------------|
| AW1755/3 | 3 | 25kgs | 0.25 | Light duty | 114 | 312 x 76 | 405 ² | 350 ² | M16 x 200 |
| AW1592/3 | | 35kgs | 0.4 | Heavy duty | 139 | 312 x 76 | 405 ² | 350 ² | M16 x 200 |
| AW1755/4 | | 25kgs | 0.25 | Light duty | 114 | 312 x 76 | 405 ² | 350 ² | M16 x 200 |
| AW1592/4 | 4 | 35kgs | 0.4 | Medium duty | 139 | 312 x 76 | 405 ² | 350 ² | M16 x 200 |
| AW1507/4 | | 50kgs | 0.5 | Heavy duty | 168 | 362 x 106 | 405 ² | 350 ² | M16 x 200 |
| AW1592/5 | | 25kgs | 0.25 | Light duty | 139 | 312 x 76 | 405 ² | 350 ² | M16 x 200 |
| AW1507/5 | 5 | 35kgs | 0.4 | Medium duty | 168 | 362 x 106 | 510 ² | 450 ² | M20 x 300 |
| AW1581/5 | | 50kgs | 0.5 | Heavy duty | 193 | 362 x 126 | 510 ² | 450 ² | M20 x 300 |
| AW1592/6 | | 25kgs | 0.25 | Light duty | 139 | 312 x 76 | 405 ² | 350 ² | M16 x 200 |
| AW1507/6 | 6 | 35kgs | 0.4 | Medium duty | 168 | 362 x 106 | 510 ² | 450 ² | M20 x 300 |
| AW1581/6 | | 50kgs | 0.5 | Heavy duty | 193 | 362 x 126 | 510 ² | 450 ² | M20 x 300 |
| AW1507/7 | | 25kgs | 0.25 | Light duty | 168 | 362 x 106 | 510 ² | 450 ² | M20 x 300 |
| AW1581/7 | 7 | 35kgs | 0.4 | Medium duty | 193 | 362 x 126 | 510 ² | 450 ² | M20 x 300 |
| AW1576/7 | | 50kgs | 0.5 | Heavy duty | 219 | 362 x 126 | 510 ² | 450 ² | M20 x 300 |
| AW1507/8 | | 25kgs | 0.25 | Light duty | 168 | 362 x 106 | 510 ² | 450 ² | M20 x 300 |
| AW1581/8 | 8 | 35kgs | 0.4 | Medium duty | 193 | 362 x 126 | 630 ² | 550 ² | M24 x 400 |
| AW1576/8 | | 50kgs | 0.5 | Heavy duty | 219 | 362 x 126 | 630 ² | 550 ² | M24 x 400 |
| AW1581/9 | | 25kgs | 0.25 | Light duty | 193 | 362 x 126 | 630 ² | 550 ² | M24 x 400 |
| AW1576/9 | 9 | 35kgs | 0.4 | Medium duty | 219 | 362 x 126 | 630 ² | 550 ² | M24 x 400 |
| AW1631/9 | | 50kgs | 0.5 | Heavy duty | 273 | 462 x 126 | 630 ² | 550 ² | M24 x 400 |
| AW1581/10 | | 25kgs | 0.25 | Light duty | 193 | 362 x 126 | 630 ² | 550 ² | M24 x 400 |
| AW1576/10 | 10 | 35kgs | 0.4 | Medium duty | 219 | 362 x 126 | 630 ² | 550 ² | M24 x 400 |
| AW1631/10 | | 50kgs | 0.5 | Heavy duty | 273 | 462 x 126 | 630 ² | 550 ² | M24 x 400 |
| Model No. | Height In metres A | Payload eqpt capacity | Max eqpt windload m ² | Tube Ø at base Ø C | Tube Ø at top Ø B | Door aperture size L x W | Base plate size H | Holding down bolts centres I | Holding down bolt size |
| AW2207/4 | 4 | 35kgs | 0.4 | 187 | 114 | 360 x 132 | 405 ² | 350 ² | M16 x 200 |
| AW2207/5 | 5 | 35kgs | 0.4 | 198 | 140 | 360 x 142 | 405 ² | 350 ² | M16 x 200 |
| AW2207/6 | 6 | 35kgs | 0.4 | 249 | 140 | 360 x 150 | 510 ² | 450 ² | M20 x 300 |
| AW2207/7 | 7 | 35kgs | 0.4 | 267 | 140 | 360 x 150 | 510 ² | 450 ² | M20 x 300 |
| AW2207/8 | 8 | 35kgs | 0.4 | 285 | 140 | 360 x 150 | 510 ² | 450 ² | M20 x 300 |

* Where payloads are greater than those stated above, please contact Altron



1502 Lamp Standard Pole

3-20 metres

Lamp standard poles are designed to mimic standard lighting poles and to blend with existing street furniture but are designed to cope with the additional weight and size of CCTV cameras providing stable pictures.

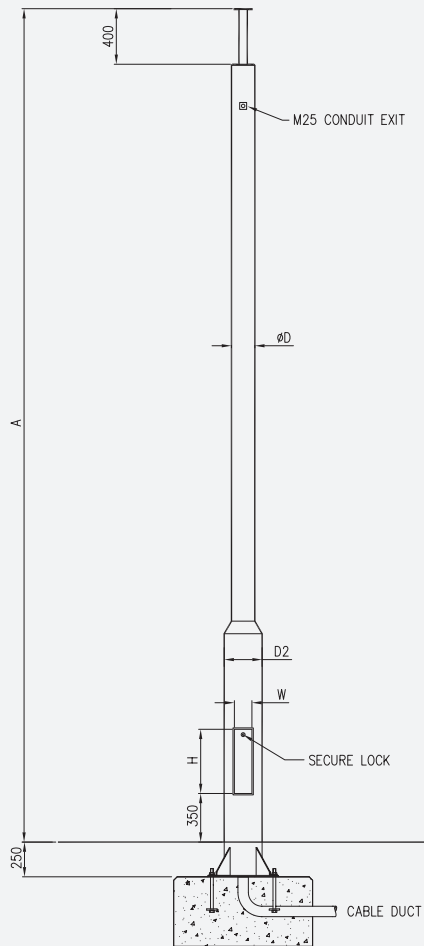
Features

- Stable structures for all camera types
- Secure lockable access complete with treated back board
- This range accepts all appropriate Altron accessories and bracketry
- Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- Stainless steel option available
- Optional enlarged aperture available if required



AW1502 Lamp Standard Pole Technical Specification ←

AW1502



| Options | PT No. |
|----------------------------------------------|--------|
| Access cover plate and cable restraining bar | /AC |
| Decorative banding | /B |
| High security locks | /HS |
| Screw in swan neck adaptor | /SN |
| Washer bottle conduit | /W |
| Double door | /DD |
| Enlarged door aperture | /ENAP |

All camera mounting plates are DIA 127 with 8 No Ø 8.5 equi-spaced on 101.6 PCD. Ø 40 thro' column spacer

Poles complete with treated equipment mounting board inside compartment. Earthing lugs within pole and on door

FOR BASE DETAILS
REFER TO PAGE 26

Tubular Poles Static
& Tilt Down

| Model No. | Height in metres A | Shaft Ø D | Base Ø D2 | Payload equip capacity * | Recom max equip windload m ² | Base height C | Door aperture Size L x W | Base plate size H | Holding down bolt centres I | Holding down bolt size |
|-------------|-----------------------|--------------|--------------|-----------------------------|--------------------------------------------|------------------|-----------------------------|----------------------|--------------------------------|------------------------|
| AW1502/3 | 3 | 139 | 219 | 35 | 0.4m ² | 1100 | 362x126 | 405 ² | 350 ² | M16x200 |
| AW1502/4 | 4 | 139 | 219 | 35 | 0.4m ² | 1100 | 362x126 | 405 ² | 350 ² | M16x200 |
| AW1502/5 | 5 | 168 | 273 | 35 | 0.4m ² | 1500 | 462x126 | 510 ² | 450 ² | M20x300 |
| AW1502/5LD | 5 | 139 | 219 | 25 | 0.25m ² | 1500 | 362x126 | 405 ² | 350 ² | M16x200 |
| AW1502/6 | 6 | 168 | 273 | 35 | 0.4m ² | 1500 | 462x126 | 510 ² | 450 ² | M20x300 |
| AW1502/6LD | 6 | 139 | 219 | 25 | 0.25m ² | 1500 | 362x126 | 405 ² | 350 ² | M16x200 |
| AW1502/7 | 7 | 168 | 273 | 35 | 0.4m ² | 1500 | 462x126 | 510 ² | 450 ² | M20x300 |
| AW1502/7LD | 7 | 139 | 219 | 25 | 0.25m ² | 1500 | 362x126 | 510 ² | 450 ² | M20x 300 |
| AW1502/8LD | 8 | 168 | 273 | 25 | 0.25m ² | 1500 | 462x126 | 510 ² | 450 ² | M20x300 |
| AW1502/8 | 8 | 219 | 323 | 35 | 0.4m ² | 1900 | 425x177 | 630 ² | 550 ² | M24x300 |
| AW1502/9 | 9 | 219 | 323 | 25 | 0.4m ² | 1900 | 425x177 | 630 ² | 550 ² | M24x300 |
| AW1502/10 | 10 | 219 | 323 | 35 | 0.4m ² | 1900 | 425x177 | 630 ² | 550 ² | M24x400 |
| AW1502/10HD | 10 | 273 | 355 | 50 | 0.5m ² | 1900 | 425x177 | 800 ² | 700 ² | M27x 600 |
| AW1502/11 | 11 | 273 | 355 | 35 | 0.4m ² | 1900 | 425x177 | 800 ² | 700 ² | M27x600 |
| AW1502/12 | 12 | 273 | 355 | 35 | 0.4m ² | 1900 | 425x177 | 800 ² | 700 ² | M27x600 |
| AW1502/13 | 13 | 273 | 355 | 35 | 0.4m ² | 1900 | 425x177 | 800 ² | 700 ² | M27x600 |
| AW1502/14 | 14 | 273 | 355 | 35 | 0.4m ² | 1900 | 425x177 | 800 ² | 700 ² | M27x600 |
| AW1502/15 | 15 | 273 | 355 | 35 | 0.4m ² | 1900 | 425x177 | 800 ² | 700 ² | M27x600 |

* Where payloads are greater than those stated above, please contact Altron



AW 1859/AW 4460

4-12 metres

The ever popular AW1859 is a tubular tilt-down pole providing a rigid, secure camera mount at cost effective price while also providing safe servicing conditions at ground level. The slenderness of this product combined with its versatility makes it ideal for exporting. Now also available as a lighter duty version - AW4460

Features

- Suitable for public access areas
- Tilting of pole can usually be carried out by single operator
- Stable structure for all camera types
- Demountable winches allow for a secure installation whilst also reducing costs on multiple installations
- Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- Secure lockable access complete with treated backboard
- This range accepts all appropriate Altron accessories and bracketry
- Internal padlocking for additional security
- Available as bolt down standard with embedded / direct burial as option
- Lighting versions also available
- Now with flush door and Altron lock giving greater security



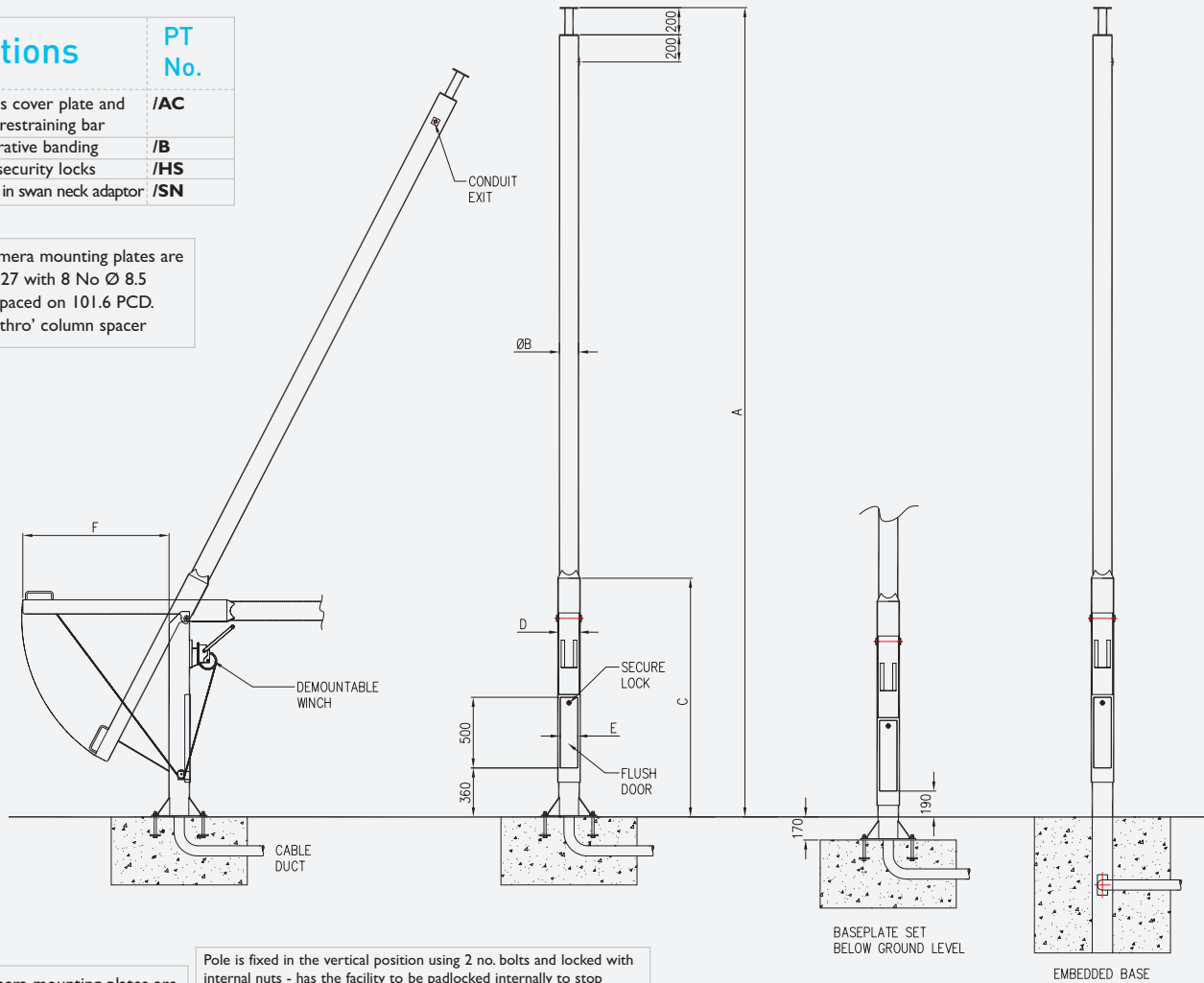
AW1859/4460 Tubular Tilt Down Pole Technical Specification ←

Tilt Down Tubular Poles

Options

| Options | PT No. |
|----------------------------------------------|--------|
| Access cover plate and cable restraining bar | /AC |
| Decorative banding | /B |
| High security locks | /HS |
| Screw in swan neck adaptor | /SN |

All camera mounting plates are DIA 127 with 8 No Ø 8.5 equi-spaced on 101.6 PCD. Ø 40 thro' column spacer



All camera mounting plates are DIA 127 with 8 No Ø 8.5 equi-spaced on 101.6 PCD. Ø 40 thro' column spacer

Pole is fixed in the vertical position using 2 no. bolts and locked with internal nuts - has the facility to be padlocked internally to stop unauthorised tilting.

Poles complete with treated equipment mounting board inside compartments. Earthing lugs within pole & on door

FOR BASE DETAILS REFER TO PAGE 26

| Model No. | Height in metres A | Payload eqpt capacity * | Max eqpt windload m ² | Pole Ø B | Post size D | Post height C | Pole rear clearance when tilting F | Door width E | Base plate size H | Holding down bolt centres I | Holding down bolt size | Winch |
|-----------|--------------------|-------------------------|----------------------------------|----------|------------------|---------------|------------------------------------|--------------|-------------------|-----------------------------|------------------------|-----------|
| AW1859/4 | 4 | 40kgs | 0.4m ² | 139 | 150 ² | 1700 | 1800 | 140 | 405 ² | 350 ² | M16x200 | DW1000/59 |
| AW4460/4 | 4 | 20kgs | 0.25m ² | 114 | 150 ² | 1700 | 1800 | 110 | 405 ² | 350 ² | M16x200 | DW1000/59 |
| AW1859/5 | 5 | 40kgs | 0.40m ² | 139 | 150 ² | 1700 | 1800 | 140 | 405 ² | 350 ² | M16x200 | DW1000/59 |
| AW1859/6 | 6 | 30kgs | 0.40m ² | 139 | 150 ² | 1700 | 1800 | 140 | 405 ² | 350 ² | M16x200 | DW1000/59 |
| AW4460/6 | 6 | 20kgs | 0.25m ² | 114 | 150 ² | 1700 | 1800 | 110 | 405 ² | 350 ² | M16x200 | DW1000/59 |
| AW1859/7 | 7 | 30kgs | 0.30m ² | 168 | 180 ² | 2000 | 2200 | 170 | 510 ² | 450 ² | M20x300 | DW1000/59 |
| AW1859/8 | 8 | 30kgs | 0.40m ² | 168 | 180 ² | 2000 | 2200 | 170 | 510 ² | 450 ² | M20x300 | DW1500/59 |
| AW4460/8 | 8 | 20kgs | 0.25m ² | 139 | 150 ² | 2000 | 2200 | 110 | 510 ² | 450 ² | M20x300 | DW1500/59 |
| AW1859/9 | 9 | 30kgs | 0.40m ² | 193 | 200 ² | 2700 | 2900 | 190 | 630 ² | 550 ² | M24x400 | DW2500/59 |
| AW1859/10 | 10 | 30kgs | 0.40m ² | 193 | 200 ² | 2700 | 2900 | 190 | 630 ² | 550 ² | M24x400 | DW2500/59 |
| AW1859/11 | 11 | 25kgs | 0.30m ² | 193 | 200 ² | 2700 | 2900 | 190 | 630 ² | 550 ² | M24x400 | DW2500/59 |
| AW1859/12 | 12 | 25kgs | 0.25m ² | 193 | 200 ² | 2700 | 2900 | 190 | 630 ² | 550 ² | M24x400 | DW2500/59 |

*Where payloads are greater than those stated above, please contact Altron

→ Tubular Poles Foundations & Installation Methods

| MODEL NO. | HEIGHT MTRS | BOLT CENTRES I | BASE PLATE SIZE H | SERVICE ENTRY ØE |
|---------------------|-------------|----------------|-------------------|------------------|
| AW1502 | | | | |
| AW1502/3 & /4 | 3-4m | 350 | 405 | 200 |
| AW1502/5/LD & /6/LD | 5-6m | 350 | 405 | 200 |
| AW1502/5 - /7 | 5-7m | 450 | 510 | 250 |
| AW1502/7/LD & /8/LD | 7-8m | 450 | 510 | 250 |
| AW1502/8 - /10 | 8-10m | 550 | 630 | 250 |
| AW1502/10/HD - /15 | 10-15m | 700 | 800 | 300 |

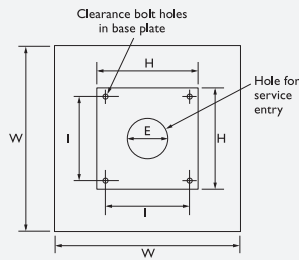
| MODEL NO. | HEIGHT MTRS | BOLT CENTRES I | BASE PLATE SIZE H | SERVICE ENTRY ØE |
|-----------------------|-------------|----------------|-------------------|------------------|
| AW1859/AW4460 | | | | |
| AW1859/4 - AW1859/6 | 4m - 6m | 350 | 405 | 120 |
| AW1859/7 - AW1859/9LD | 7m - 9m | 450 | 510 | 150 |
| AW1859/9 - AW4460 | 9m - 12m | 550 | 630 | 180 |
| AW4460/4 - AW4460/6 | 4m - 6m | 350 | 405 | 120 |
| AW4460/8 | 8m | 450 | 510 | 150 |

Tubular Poles

| | | | | |
|--------|-------|-----|-----|-----|
| AW1755 | 3-4m | 350 | 405 | 110 |
| AW1592 | 3-6m | 350 | 405 | 110 |
| AW1507 | 4m | 350 | 405 | 150 |
| AW1507 | 5-8m | 450 | 510 | 150 |
| AW1581 | 5-7m | 450 | 510 | 180 |
| AW1581 | 8-10m | 550 | 630 | 180 |
| AW1576 | 7m | 450 | 510 | 200 |
| AW1576 | 8-10m | 550 | 650 | 200 |
| AW1631 | 9-10m | 550 | 630 | 250 |
| AW2207 | 4-5m | 350 | 405 | 150 |
| AW2207 | 6-8m | 450 | 510 | 200 |

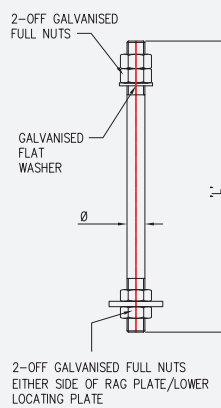
Installation method for base plate mounted poles

- 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.



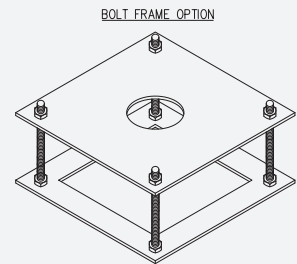
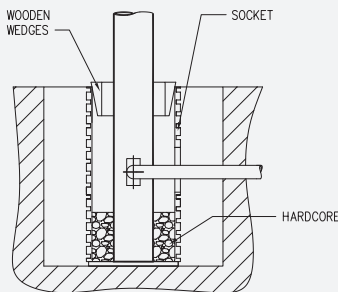
W x W = Concrete base size

FOR HOLDING DOWN BOLT SIZE REFER TO PRODUCT TECHNICAL SPECIFICATION PAGE

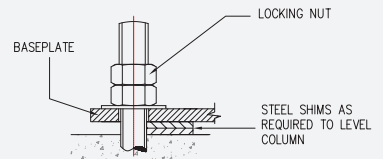


INSTALLATION METHOD FOR EMBEDDED POLES

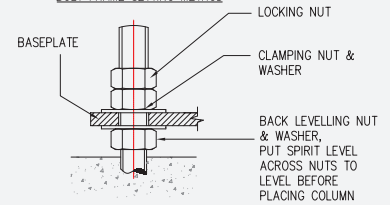
FOR FURTHER DETAILS REFER TO SHEET 4047-1



COLUMN ANCHORAGE USING TEMPLATE SETTING METHOD



COLUMN ANCHORAGE USING BOLT FRAME SETTING METHOD



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

FOUNDATION SIZES FOR THE UK

| POLE 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 |
| 7 | 1x1x0.75 | 1.1x1.1x0.75 | 1.25x1.25x0.75 | 1x1x0.75 | 1.1x1.1x0.75 | 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

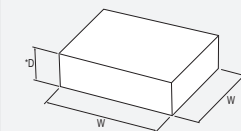
NOTE FOR INTERMEDIATE POLE/TOWER HEIGHTS, ROUND-UP TO THE NEXT HEIGHT - I.E. FOR 4.5M USE 5M.
FOR EB MODELS - MINIMUM FOUNDATION DEPTH 1.0M, USE THE SAME WIDTH DETAILS SHOWN

FOR FOUNDATION SIZES:- A MINIMUM SOIL BEARING PRESSURE OF 75kN/m² IS ASSUMED

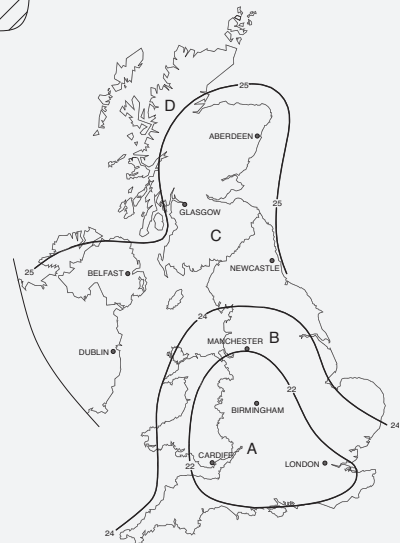
Minimum concrete Grade C35

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 B56399 - 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 (Vt) ARE:- A=41.8m/s(93mph) B=45.6m/s(102mph) C=50m/s(111mph)

• FOR AREA 'D' - PLEASE CONTACT ALTRON FOR FOUNDATION SPECIFICATION