

Ornate Poles Foundations & Installation Methods ←

AW1545/ENEK-HNEK MODEL NO.

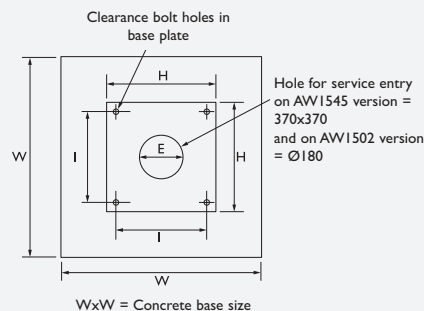
	HEIGHT MTRS	BOLT CENTRES I	BASE PLATE H	BURIED DEPTH D
AW1545/4/ENEK-HNEK - AW1545/10/ENEK-HNEK	4 – 10	550	-	630
AW1545/10/HD/ENEK-HNEK - AW1545/15/ENEK-HNEK	10 – 15	700	-	800

AW1545/TNEK

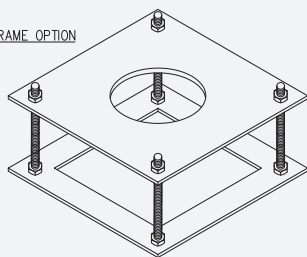
AW1545/TNEK	4 – 10	550	-	630
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AW1502/ENEK

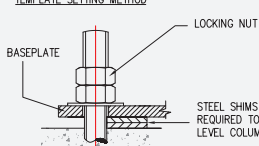
AW1502/3/ENEK - AW1502/6/ENEK	3-6m	350	405	250
AW1502/7/ENEK & AWE1502/8/ENEK	7-8m	450	510	250



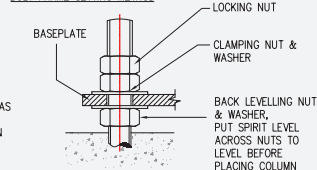
BOLT FRAME OPTION



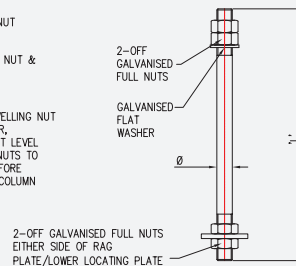
COLUMN ANCHORAGE USING TEMPLATE SETTING METHOD



COLUMN ANCHORAGE USING BOLT FRAME SETTING METHOD



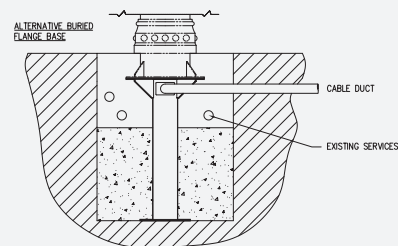
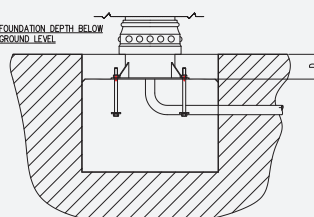
FOR HOLDING DOWN BOLT SIZE REFER TO PRODUCT TECHNICAL SPECIFICATION PAGE



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

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.



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

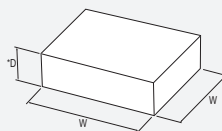
NOTE FOR INTERMEDIATE POLE HEIGHTS, ROUND-UP TO THE NEXT HEIGHT - I.E. FOR 4.5M USE 5M.
FOR EB MODELS - MINIMUM FOUNDATION DEPTH 1.0M, USE THE SAME WIDTH DETAILS SHOWN

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

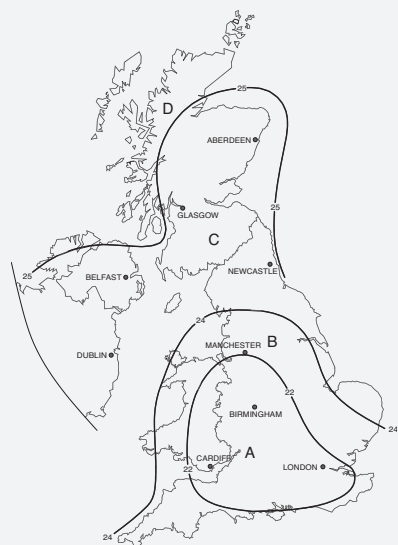
Minimum concrete Grade C35

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 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 (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