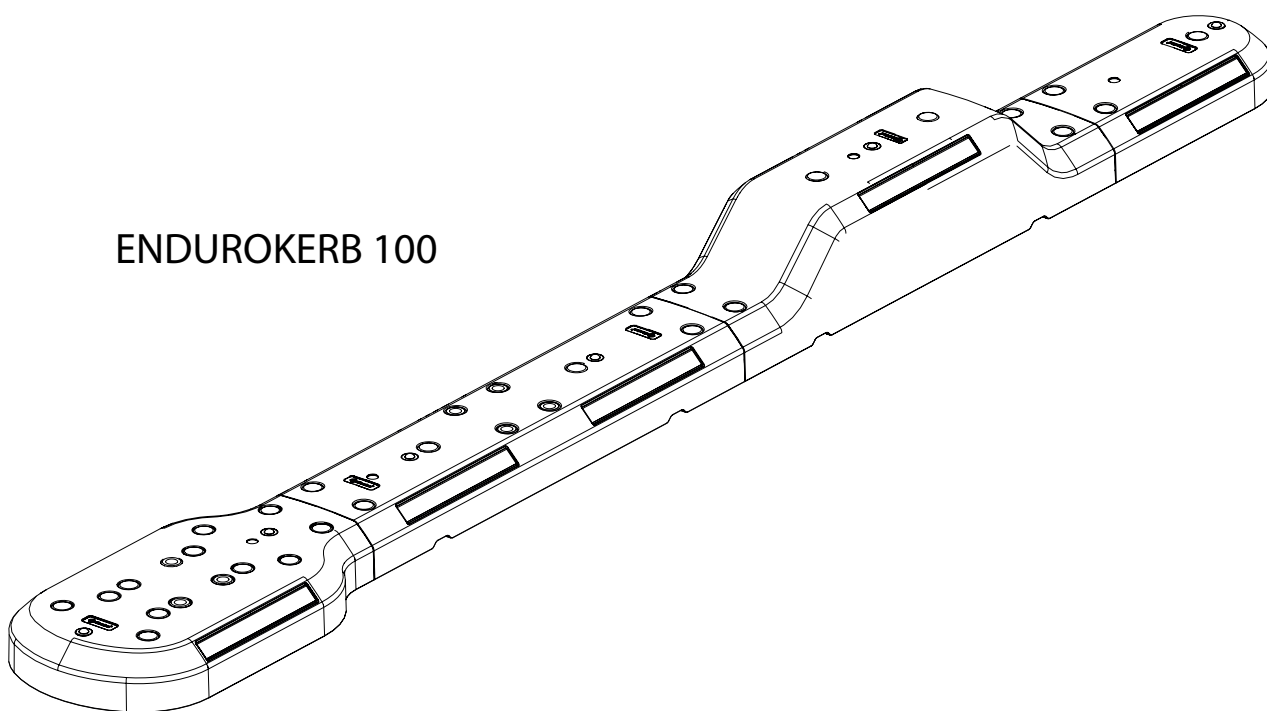


# ENDUROKERB™ 100/60

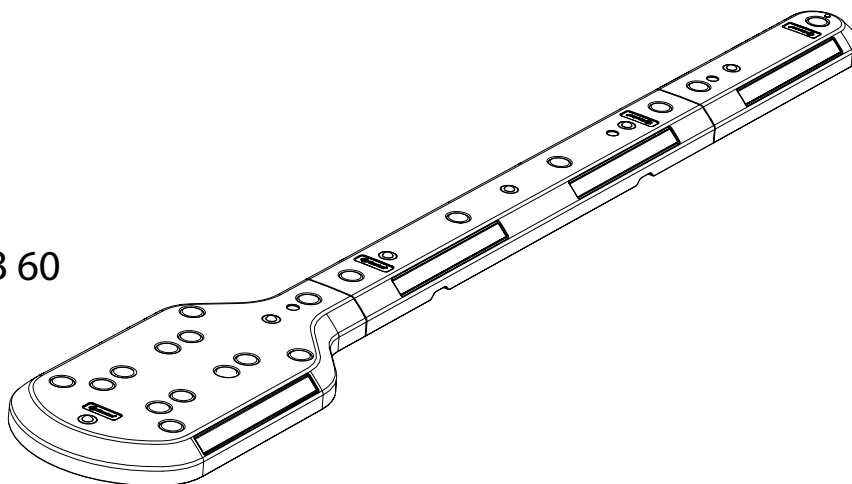
## INSTALLATION INSTRUCTIONS

Please refer to the 'Manual Handling Operations Regulations 1992' during the handling of the product and materials used for installation. Glasdon recommends that a full Health and Safety analysis and site survey is carried out prior to installation.

ENDUROKERB 100



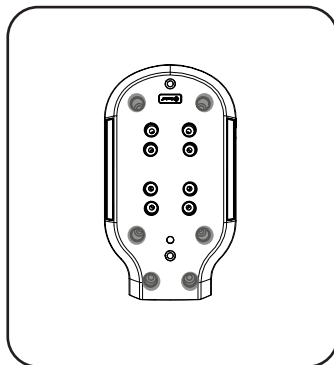
ENDUROKERB 60



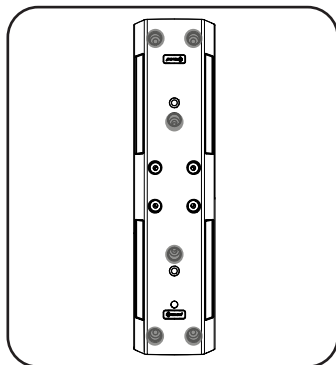
# INSTALLATION INSTRUCTIONS

Ground Fixing hole locations marked with: ●

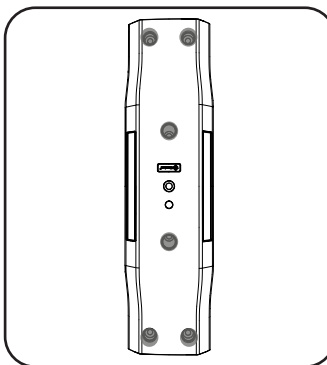
## ENDUROKERB 100



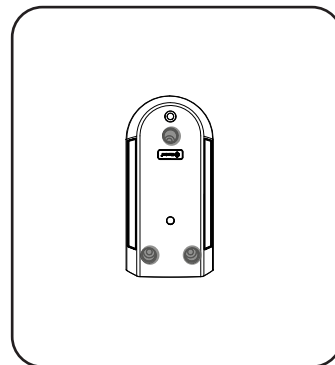
**Bollard End Kerb 100**  
6x Ground Fixing Points



**Intermediate Kerb 100**  
6x Ground Fixing Points

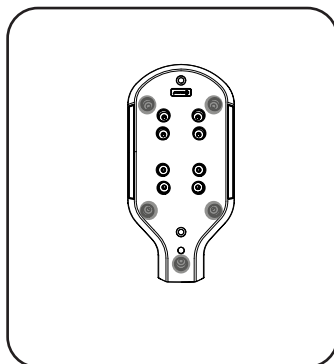


**Raised Intermediate Kerb 100**  
6x Ground Fixing Points

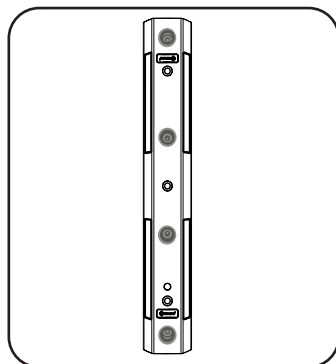


**Bullnose Kerb 100**  
3x Ground Fixing Points

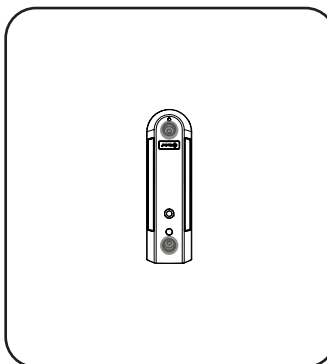
## ENDUROKERB 60



**Bollard End Kerb 60**  
5x Ground Fixing Points



**Intermediate Kerb 60**  
4x Ground Fixing Points



**Bullnose Kerb 60**  
2x Ground Fixing Points

### \*IMPORTANT NOTE:

Assess water drainage requirements prior to design and installation.

## TOOLS/EQUIPMENT REQUIRED:

FOR INSTALLATION INTO TARMAC:

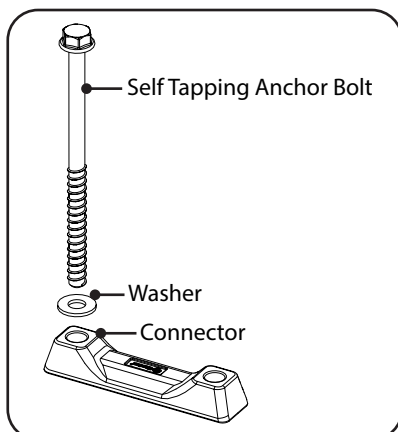
- Ø10mm x 460mm Long SDS Masonry Drill Bit (Endurokerb 100), Ø12mm x 460mm Long SDS Masonry Drill Bit (Endurokerb 60)

FOR INSTALLATION INTO CONCRETE:

- Ø11mm x 460mm Long SDS Masonry Drill Bit (Endurokerb 100), Ø13mm x 460mm Long SDS Masonry Drill Bit (Endurokerb 60)

- 19mm Torque Wrench or Impact Driver with Socket and Extension (Endurokerb 100), 17mm Torque Wrench or Impact Driver with Socket and Extension (Endurokerb 60)
- Power Drill
- Rubber Mallet
- Appropriate PPE

## KERB GROUND FIXING KITS:



Endurokerb 60

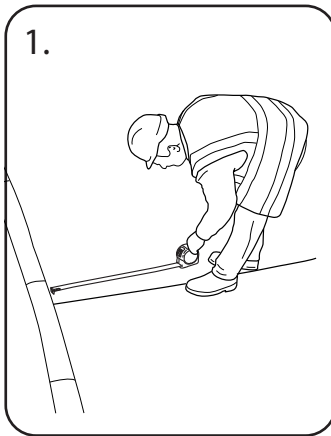
	No. of Ground Fixing Screws per Kit				
	Bollard End	Intermediate	Raised Intermediate	Bullnose	Kerb Connection Kit
Bolt M10x150mm	5	4	-	2	4
Washer M12	5	4	-	2	4
Connector	-	-	-	-	2

Endurokerb 100

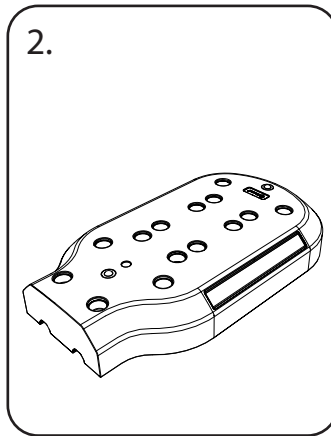
Bolt M12x200mm	6	6	6	3	4
Washer M14	6	6	6	3	4
Connector	-	-	-	-	2

# INSTALLATION INSTRUCTIONS

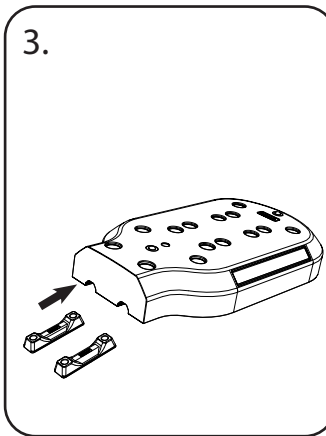
## INSTALLING KERB MODULES



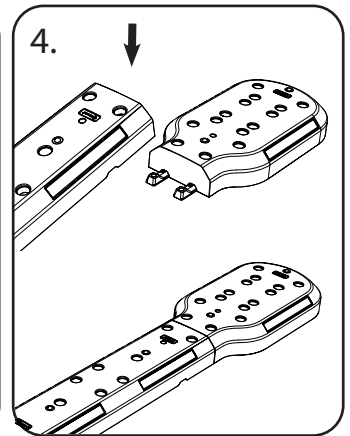
1. Measure and mark out the desired cycle lane width.



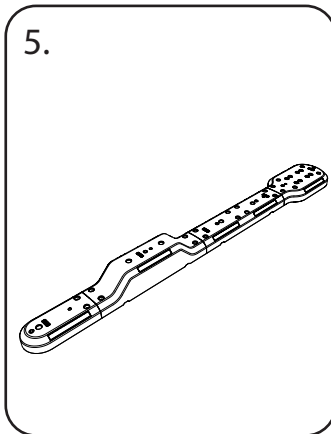
2. Lift each module into place to the correct positioning.



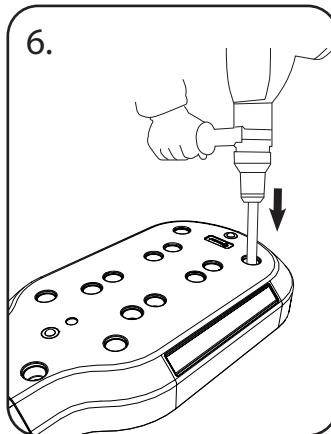
3. If joining to another module, slightly raise the module at one end and slide the kerb connectors under the module and lower back down.



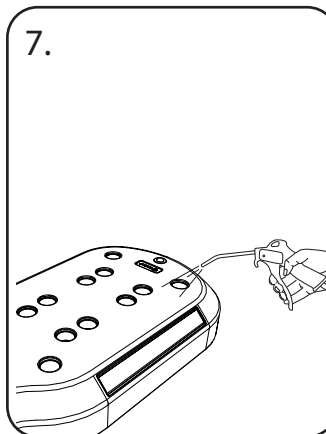
4. Place one end of the next joining module down on top of the connector pieces ensuring they locate into the recesses.



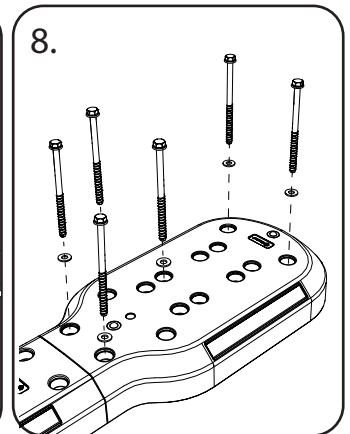
5. Repeat steps 2-4 until the desired arrangement has been laid out.



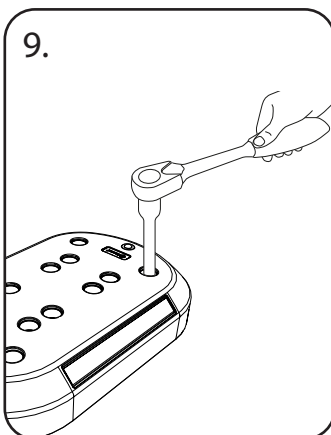
6. Using the correct drill bit size, drill each fixing point in the modules vertically down to a minimum depth of 100mm into the ground.



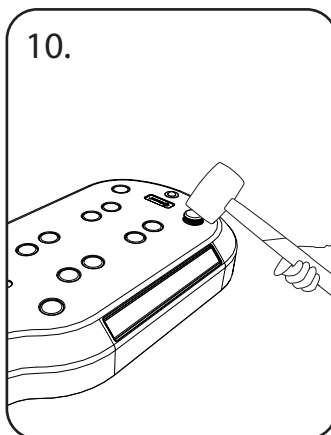
7. Blow out the holes using compressed air to remove any debris.



8. Insert bolt and washers into all the fixing holes in the modules. *If installing a delineator post across two modules refer to delineator post installation (Page 4 & 5).*



9. Tighten all fixings with an impact driver. Use an extended socket and torque wrench to tighten to a recommended setting of 60Nm.

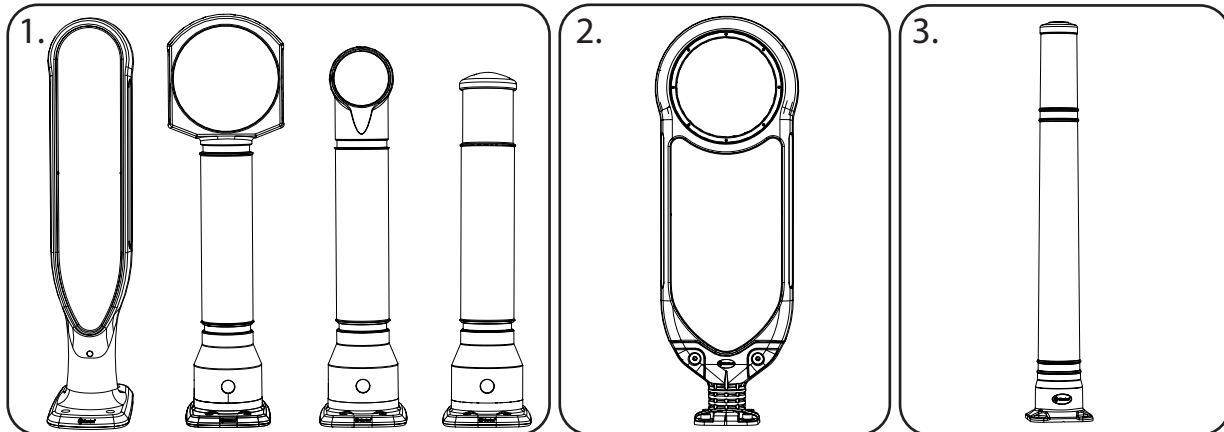


10. Tap the cover caps into all ground fixing holes using a mallet.

# INSTALLATION INSTRUCTIONS

## INSTALLATION OF BOLLARD ONTO KERB MODULE CENTRE

Please note: bollards can only be installed onto the centre of the Bollard End Kerb 60 & 100 and the Intermediate Kerb 100.

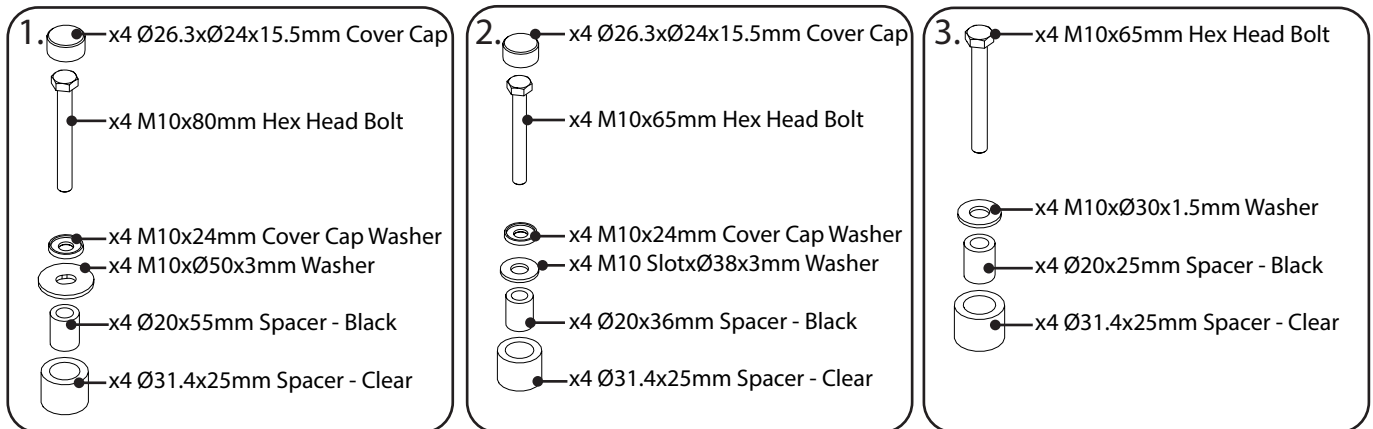


- Cyclemaster Bollard
  - Ensign Bollard
  - Mini Ensign Bollard
  - Neopolitan 150 Bollard
- Black & White Bollards available*

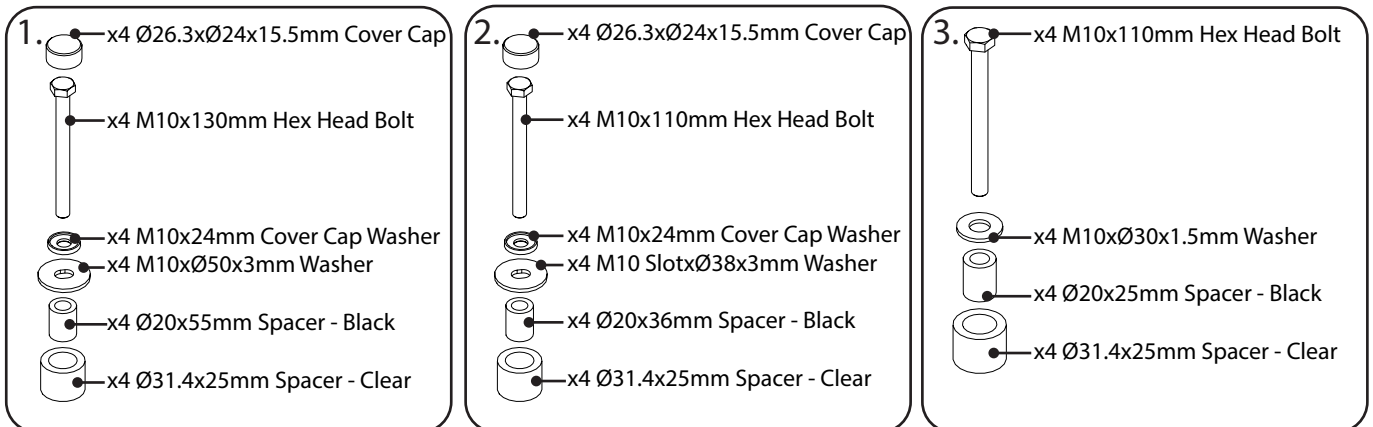
- Rebound Signmaster Ultra Compact Bollard
- Black & White Bollards available*

- Neopolitan Delineator Post
- Black & Red Posts available*

## ENDUROKERB 60 FIXING KITS INCLUDE:

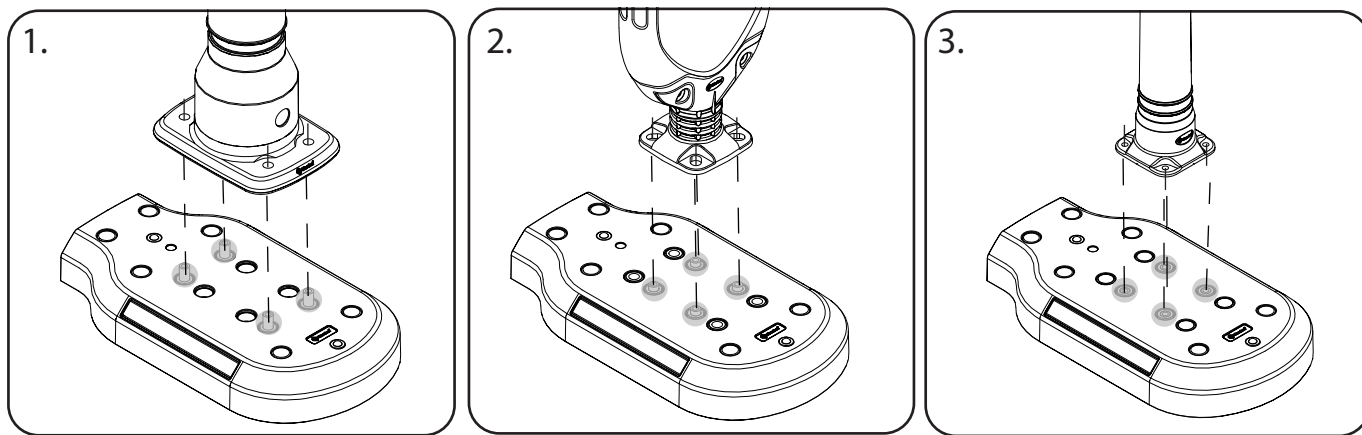


## ENDUROKERB 100 FIXING KITS INCLUDE:



# INSTALLATION INSTRUCTIONS

## BOLLARD FIXING LOCATIONS:

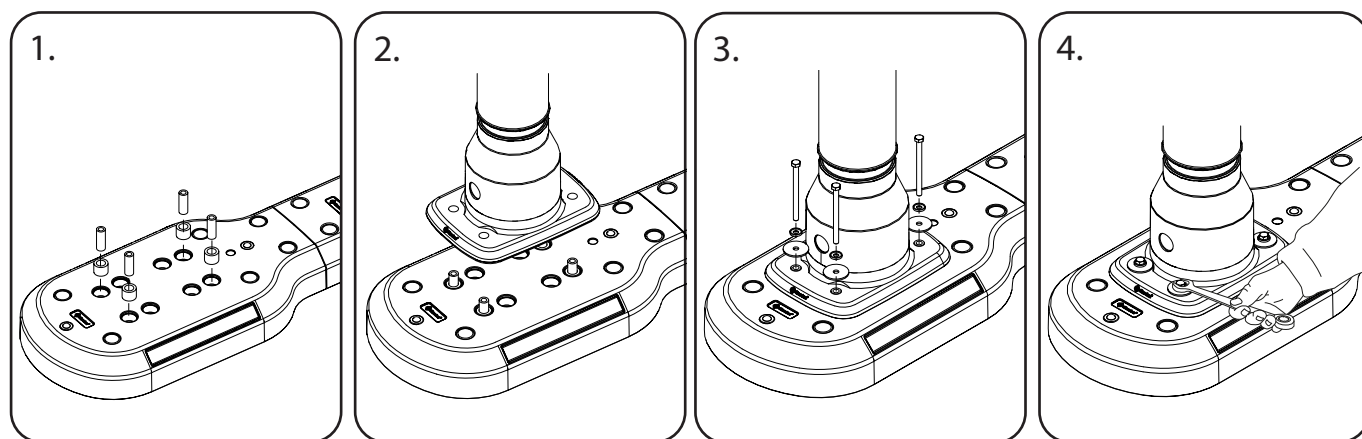


- Cyclmaster Bollard
- Ensign Bollard
- Mini Ensign Bollard
- Neopolitan 150 Bollard

- Rebound Signmaster Ultra Compact Bollard

- Neopolitan Delineator Post

## INSTALLATION OF BOLLARDS ONTO BOLLARD END KERB MODULE

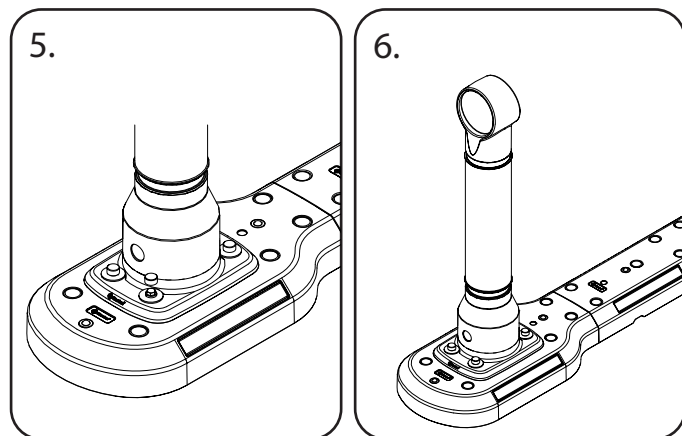


1. Fit the smaller clear spacer into the larger spacer. Insert all 8 spacers into the 4 fixing holes in the module. (See Page 4)

2. Place bollard in the centre of the module, ensure the holes line up with the holes on the module and that the bollard is in the correct orientation, facing oncoming traffic.

3. Thread the cover cap washer (*ensure washer is orientated correctly to allow snap fit to cap*) and the M10 washer onto the bolt. Insert the fixing into the holes in the module.

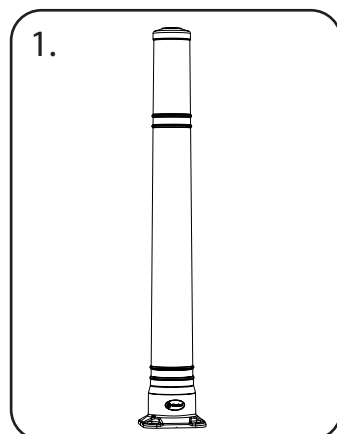
4. Tighten all fixings with an extended socket and torque wrench to a setting of 60Nm.



5. Use the cover caps to cover the fixing holes and tap on with a hammer.

# INSTALLATION INSTRUCTIONS

## INSTALLATION OF POST OVER TWO KERB MODULES

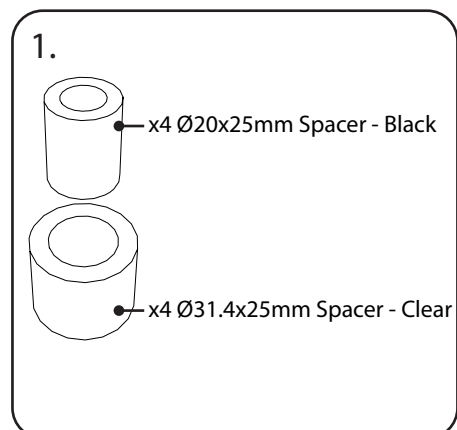


- Neopolitan Delineator Post  
*Black & Red Posts available*

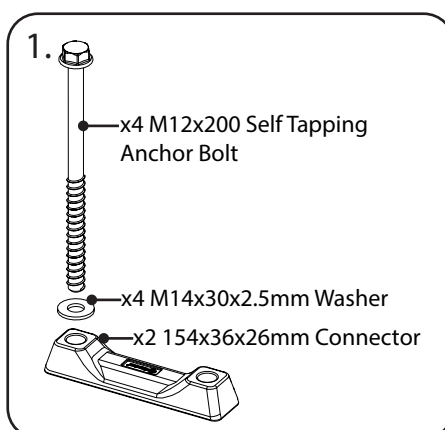
### \*NOTE:

Installation of Neopolitan Delineator Post is only compatible with Endurokerb 100

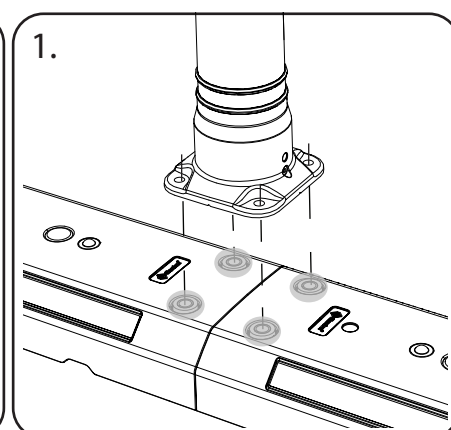
### POST FIXING KIT INCLUDES:



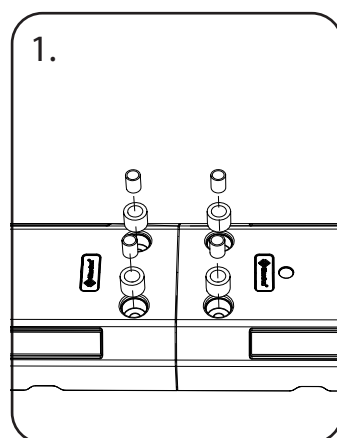
### GROUND FIXING KIT INCLUDES:



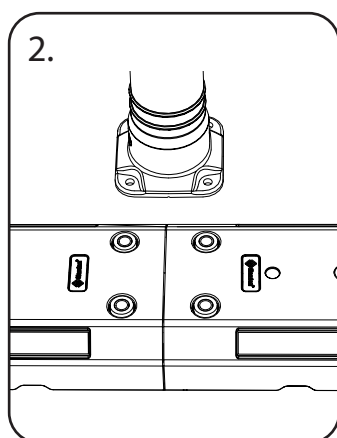
### BOLLARD FIXING LOCATIONS:



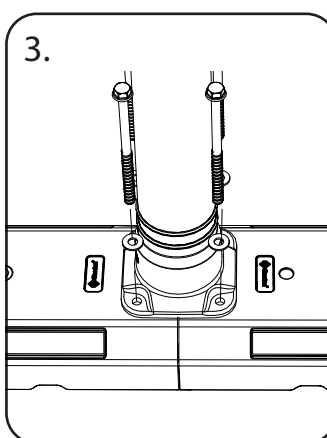
## INSTALLATION OF DELINEATOR POST OVER TWO KERB MODULES



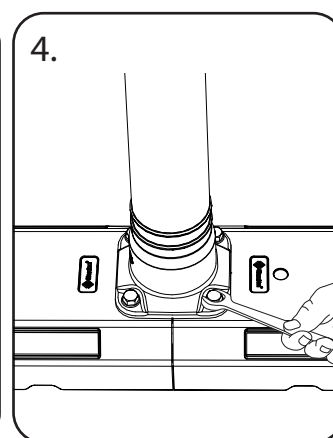
Fit the smaller clear spacer into the larger spacer. Insert all 8 spacers into the 4 fixing holes in the module. (See Page4)



Place post across the two kerb modules, ensure the holes on the post line up with the holes on the module and that the post is in the desired orientation.



Thread the M14 washer onto the M12 bolt. Insert the fixing into all 4 holes in the module.



Tighten all fixings with an extended socket and torque wrench to a setting of 60Nm.

## SECTION 5 - CLEANING

### CLEANING YOUR ENDUROKERB

We would recommend a warm pressure wash with soap or alternatively hand wash with 10% solution of mild detergent in warm water using a soft bristle brush followed by a rinse with clean water.

Felt tip marker pens or paint may be removed from the Enduropol using a proprietary graffiti remover. Carefully follow the instructions, particularly the guidelines covering safety. Ensure that all traces of chemicals are removed once the graffiti has been erased, then clean as detailed above.

#### **Caution**

Many graffiti removers can damage banding. Use only on the areas of the Endurapol affected and do not use on areas of banding or signage (optional extra).

### MAINTENANCE


A planned maintenance schedule of regular inspection is recommended and components replaced when necessary.

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 **Glasdon** , ENDUROKERB & ENDUROPOL ARE TRADEMARKS OR REGISTERED TRADEMARKS OF GLASDON GROUP OR ITS SUBSIDIARIES IN THE U.K. AND OTHER COUNTRIES.

- A planned maintenance schedule or regular inspection is recommended, replacing components as necessary.
- Replacement components are available direct from GLASDON.
- GLASDON cannot be held responsible for claims arising from incorrect installation, unauthorised modifications or misuse of the product.

Stock No. C000/1047 - DWG No. 02B094-15 Issue 1 - September 2024

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 **Glasdon®**  
**Glasdon U.K. Limited**  
Preston New Road  
BLACKPOOL  
Lancashire  
FY4 4UL  
Tel: (01253) 600410  
Fax: (01253) 792558  
e-mail: [sales@glasdon-uk.co.uk](mailto:sales@glasdon-uk.co.uk)  
web: [www.glasdon.com](http://www.glasdon.com)