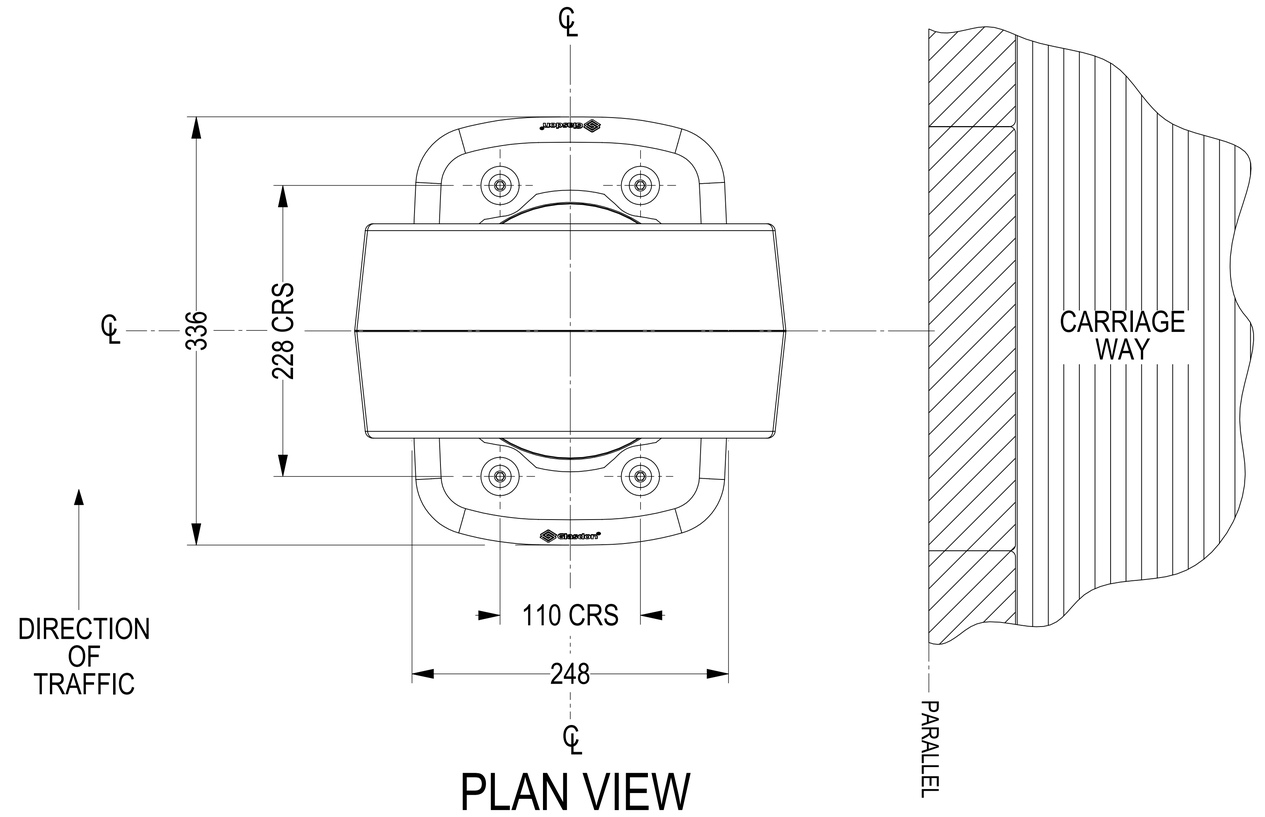
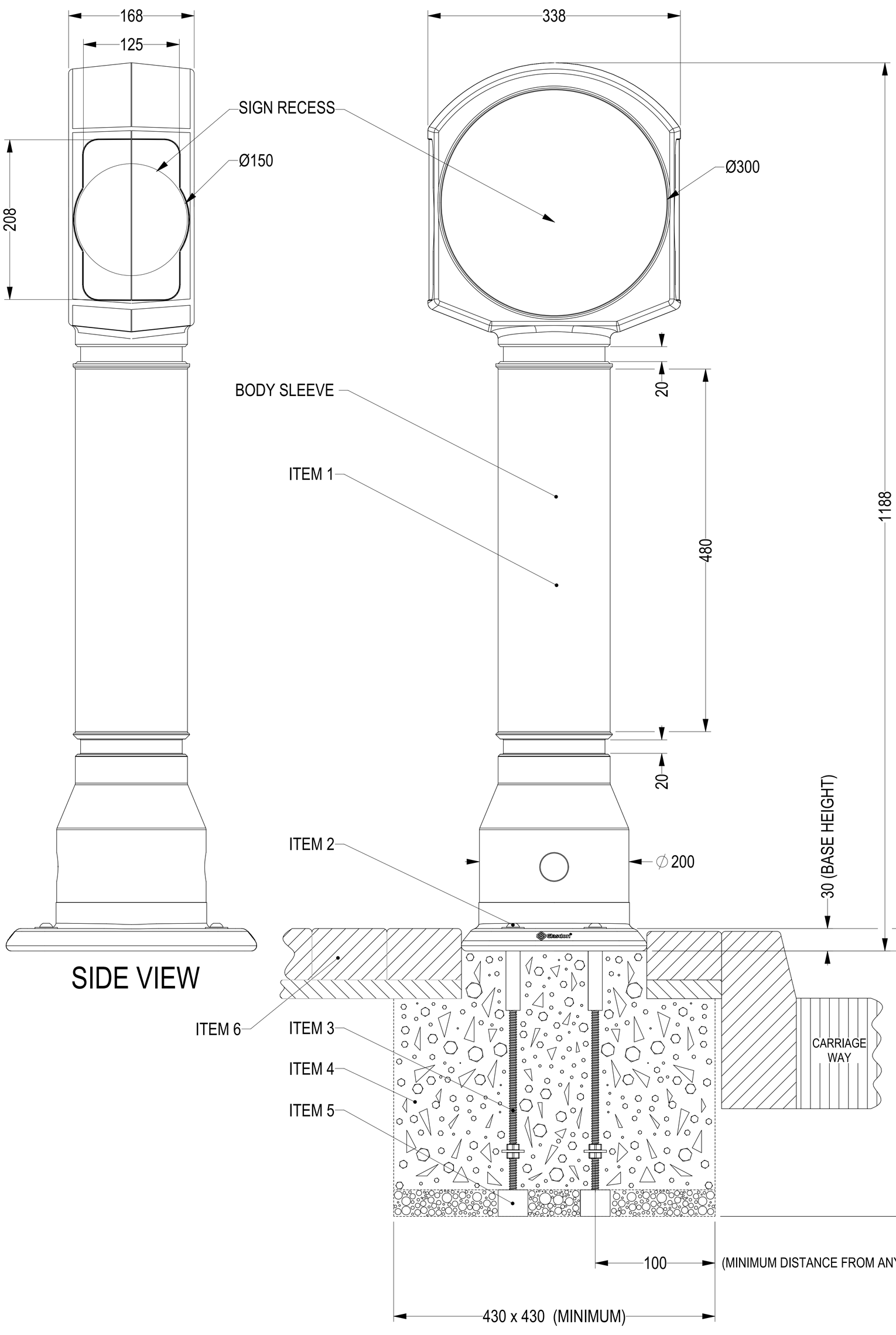
MODEL SPECIFICATION
ENSIGN™ BOLLARD - BOLT DOWN BELOW GROUND - DURAPOL®



PLAN VIEW



SIDE VIEW

FRONT VIEW

PRODUCT INFORMATION:

- WEIGHT - BOLLARD - 4.5 Kg
  - FIXINGS - 1.3 Kg
  - TOTAL - 5.8 Kg
- MATERIAL - BOLLARD: - DURAPOL®
  - FIXINGS: - SCREWS - STAINLESS STEEL
  - WASHERS - STAINLESS STEEL
  - SPACERS - RIGID PVC
  - CONCRETE-IN FIXING - MS BZP
- COLOUR - BLACK, WHITE, AIRCRAFT GREY, STONE, DARK BLUE, MILLSTONE OR SANDSTONE
- DIMENSIONS - ALL DIMENSIONS IN mm UNLESS OTHERWISE STATED

INSTALLATION GUIDE

- ITEM 1 - REMOVABLE BOLLARD
- ITEM 2 - GROUND FIXINGS (4 OFF):
  - M10 x 100mm SOCKET HEAD SCREW
  - M10 x Ø50 x 3mm WASHER
  - M10 x Ø19 x 28mm SPACER
- ITEM 3 - CONCRETE-IN FIXING (4 OFF):
- ITEM 4 - QUICK SETTING CONCRETE (e.g. GRADE QC10)
- ITEM 5 - SUPPORT BLOCK
  CAN BE ANYTHING SOLID TO ENSURE BOLLARD IS SUPPORTED AT THE CORRECT HEIGHT UNTIL THE CONCRETE HAS SET.
- ITEM 6 - BLOCK PAVING
- FIX THE FOUR 'CONCRETE-IN FIXINGS' TO THE BOLLARD BEFORE INSTALLATION, AS THIS WILL ENSURE FIXING CENTRES ARE CORRECT AND PREVENT THE NEED TO REVISIT THE SITE ONCE CONCRETE HAS SET.
- TO ENSURE CORRECT ORIENTATION OF RETROREFLECTIVE BAND(S) THE FOOT OF THE BOLLARD SHOULD BE SITED PARALLEL TO THE CARRIAGE WAY AS SHOWN (SEE PLAN VIEW)
- ENSURE THAT THE RED RETROREFLECTOR FACES TOWARDS ONCOMING TRAFFIC OR YELLOW IF ON A CENTRAL RESERVATION.
- RECOMMENDED MINIMUM HOLE SIZE: 430x430x385 DEEP.
- IF DEPTH IS RESTRICTED TO LESS THAN 400mm THEN THE 'CONCRETE-IN FIXINGS' CAN BE CUT DOWN IF REQUIRED. HOWEVER WE RECOMMEND USING THE SAME VOLUME OF CONCRETE BY INCREASING THE WIDTH OF THE HOLE TO COMPENSATE.
- AVOID CONTACT WITH HOT TARMACADAM AS THIS WILL SERIOUSLY IMPAIR THE PERFORMANCE OF THE BOLLARD.
- FOR SPEED WE RECOMMEND INSTALLING WITH QUICK SETTING CONCRETE (e.g. GRADE QC10) BUT EXACT INSTALLATION REQUIREMENTS SHOULD BE ASSESSED FROM A SITE SURVEY.

OPTIONAL PARTS:

- RETROREFLECTIVE AND NON-RETROREFLECTIVE SIGNFACES ARE AVAILABLE (SEE 11S022-S18 FOR STD SETS)
- ALUMINIUM BACKED RETROREFLECTIVE BANDING (TO BS EN 12899-1:2007, FIXED, VERTICAL ROAD TRAFFIC SIGNS) OR DECORATIVE BANDING MAY BE FITTED.
- STANDARD BANDING SETS:
  2 x 19mm BAND (WITHIN TWO BAND RECESSES)
  1 x 480mm BODY SLEEVE
- SPARES ARE AVAILABLE, WHICH INCLUDE:
  BOLLARD C/W FIXINGS & RETROREFLECTIVE BANDS
  BOLLARD ONLY
  RANGE OF BANDING
  FIXINGS
- ALL RETROREFLECTIVE MATERIALS SUPPLIED BY GLASDON ARE AS RECOMMENDED IN TABLE NA1 OF THE NATIONAL ANNEX OF BS EN 12899-1:2007 FIXED VERTICAL ROAD SIGNS.

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