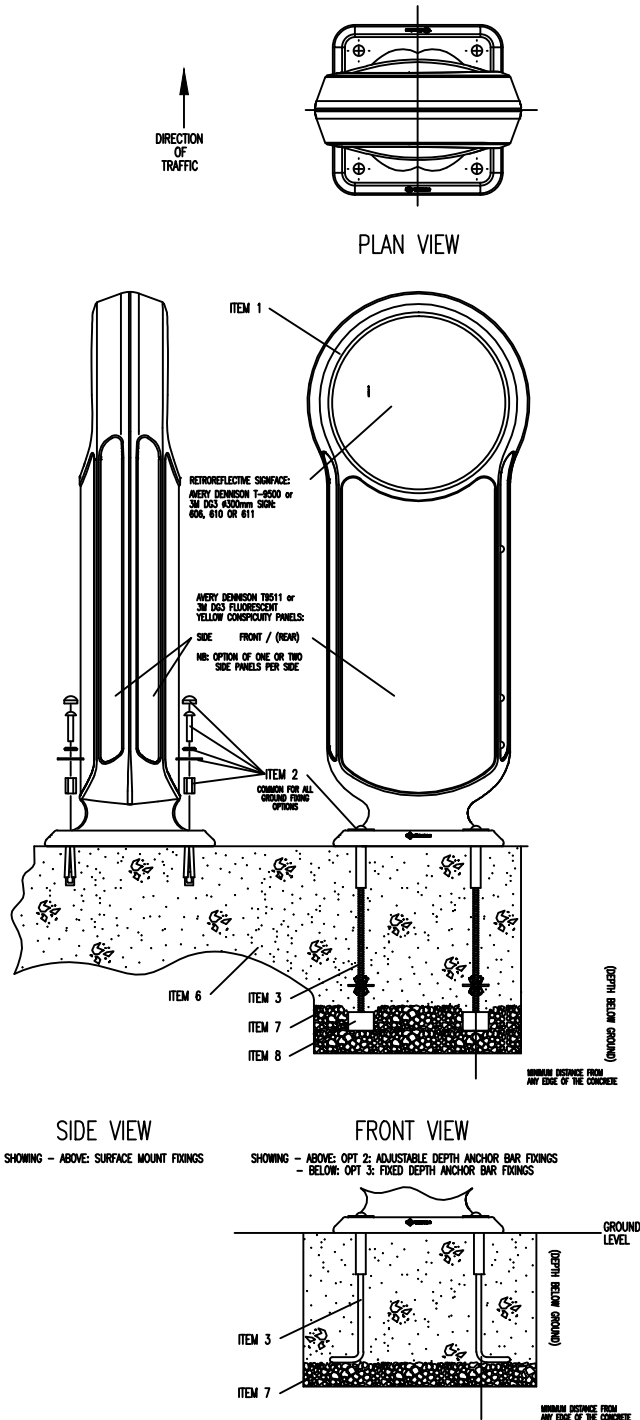


Rev.	Amendments	Date	Made By	Chk'd By

REFER TO MANUFACTURER FOR INSTALLATION DETAILS



PRODUCT INFORMATION:

- **WEIGHT** - BOLLARD - 6.0 Kg
 FIXINGS - 0.6 Kg (OPT 1: SURFACE MOUNT FIXINGS) OR 1.3 Kg (OPT 2: ADJ DEPTH ANCHOR BAR) OR 1.1 Kg (OPT 3: FIXED DEPTH ANCHOR BAR)
TOTAL - 6.6 Kg / 7.3 Kg / 7.1 Kg
- **MATERIAL** - BOLLARD - IMPACTAPOOL
 FIXINGS - SCREWS & WASHERS - STAINLESS STEEL
 SPACERS - RIGID PVC
 OPT 1: SURFACE MOUNT FIXINGS - MS B2P
 OPT 2: ADJ DEPTH ANCHOR BAR - MS B2P
 OPT 3: FIXED DEPTH ANCHOR BAR - MS B2P
- **BODY COLOURS** - BLACK / WHITE / AIRCRAFT GREY
- **DIMENSIONS** - ALL DIMENSIONS IN mm UNLESS OTHERWISE STATED.

INSTALLATION GUIDE:

- **ITEM 1** - REMOVABLE BOLLARD
- **ITEM 2** - FIXINGS FOR BOLLARD:
 - M10 SCREW COVER CAP & RETAINER WASHER - WHITE NY66 - x4
 - M10 x 100mm SOCKET HEAD SCREW - S/S - x4
 - M10 x 450 x 3mm WASHER - POWDER COATED S/S - x4
 - M10 x #19 x 28mm SPACER - RIGID PVC - x4
- **ITEM 3** - GROUND FIXING OPTION 1: SURFACE MOUNT FIXINGS - x4;
- **ITEM 4** - GROUND FIXING OPTION 2: ADJ DEPTH ANCHOR BAR - x4
- **ITEM 5** - GROUND FIXING OPTION 3: FIXED DEPTH ANCHOR BAR - x2
- **ITEM 6** - SOLID CONCRETE FOUNDATION OR QUICK SETTING CONCRETE (eg. GRADE QC10)
- **ITEM 7** - GRAVEL
- **ITEM 8** - SUPPORT BLOCK: CAN BE ANYTHING SOLID TO ENSURE BOLLARD IS SUPPORTED AT THE CORRECT HEIGHT UNTIL THE CONCRETE HAS SET.

● ENSURE THAT ANY SIGNFACE FACES TOWARDS ONCOMING TRAFFIC.

● **FOR OPTION 1: SURFACE MOUNT FIXING:**

4 HOLES TO BE DRILLED FOR SURFACE MOUNT FIXINGS AND SCREWS #16mm x 75mm (MIN DEPTH). ENSURE THE HOLES ARE LOCATED AT LEAST 100mm FROM ANY EDGE OF THE CONCRETE FOUNDATION.

WE RECOMMEND INSTALLING THE BOLLARD ON AN EXISTING SOUND CONCRETE FOUNDATION OR FOR SPEED, PREPARING THE SITE WITH QUICK SETTING CONCRETE (eg. GRADE QC10), BUT EXACT INSTALLATION REQUIREMENTS SHOULD BE ASSESSED FROM A SITE SURVEY.

AVOID CONTACT WITH HOT TAR/MACADAM AS THIS WILL SERIOUSLY IMPAIR THE PERFORMANCE OF THE BOLLARD.

● **FOR OPTION 2 & 3: ADJ & FIXED DEPTH ANCHOR BARS (CONCRETE-IN):**

FIX THE BARS 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.

RECOMMENDED MINIMUM HOLE SIZE: 430x430x400mm DEEP (FOR ADJ DEPTH) 500x500x300mm DEEP (FOR FIXED DEPTH)

IF DEPTH IS RESTRICTED TO LESS THAN 400mm WHEN USING OPTION 2, THEN THE 'ADJ DEPTH ANCHOR FIXING BARS' CAN BE CUT DOWN IF REQUIRED. HOWEVER WE RECOMMEND USING THE SAME VOLUME OF CONCRETE BY INCREASING THE WIDTH OF THE HOLE TO COMPENSATE.

● **FOR SPEED WE RECOMMEND INSTALLING WITH QUICK SETTING CONCRETE (eg. GRADE QC10) BUT EXACT INSTALLATION REQUIREMENTS SHOULD BE ASSESSED FROM A SITE SURVEY.**

OPTIONAL PARTS:

● **OPTIONS AVAILABLE FOR THE PRODUCT:**

- BODY C/W FRONT, 1xLH & 1xRH CONSPICUITY PANELS
- BODY C/W FRONT, 2xLH & 2xRH CONSPICUITY PANELS
- BODY C/W FRONT, REAR, 2xLH & 2xRH CONSPICUITY PANELS
- + A RANGE OF AUTHORISED SIGNFACES &/OR WHITE DISC

● **SPARES ARE AVAILABLE, WHICH INCLUDE:**

- BOLLARD C/W FIXINGS & RETROREFLECTIVE PATCHES
- BOLLARD ONLY
- RANGE OF SIGNFACES
- FIXINGS


TECHNICAL DATA:

● **SURFACE AREA OF CONSPICUITY PANELS:**

- FRONT = 161,701mm² (PROJECTED)
- SINGLE SIDE = 24,255mm²
- OPTIONAL DOUBLE SIDE = 48,510mm²

● **SURFACE AREA OF SIGNFACE = 70,888mm²**

● **ALL RETROREFLECTIVE MATERIALS SUPPLIED BY GLASDON UK ARE AS RECOMMENDED IN TABLE 11A OF THE NATIONAL ANNEX OF BS EN 12899-1 2007 FIXED VERTICAL ROAD SIGNS. MICROPRISMATIC RETROREFLECTIVE MATERIALS USED ON OUR PRODUCTS MEET THE REQUIREMENTS OF BS 8400 2005 ROAD TRAFFIC SIGNS. TESTING AND PERFORMANCE OF MICROPRISMATIC RETROREFLECTIVE SHEETING MATERIALS WHEN SITED NORMALLY AND USED IN THEIR NORMAL APPLICATION.**

RETROREFLECTIVE SELF RIGHTING BOLLARD			
DRG. TITLE		 <small>Glason Group Product Centre Glason Structures & Sign Centre New Road, Newport Gwent, NP23 5JG Telephone: 01493 533000 Fax: 01493 722200 E-mail: sales@glason-uk.co.uk Web Site: www.glason.com</small>	
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DRG. No.	PROJECT No.		
SCALE	DATE		
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REBOUND SIGNMASTER RETROREFLECTIVE BOLLARD

HIGHWAY DESIGN GUIDE STANDARD DETAILS

RHONDDA CYNON TAF
 COUNTY BOROUGH COUNCIL



Drawn	WDF
Checked	RMD
Date	Jan 14
Scale	NTS
Drg. No.	308
Rev.	