



GT50/48/0005

**ROAD TRAFFIC REGULATION ACT 1984 – SECTIONS 64 AND 65
AUTHORISATION OF TRAFFIC SIGNS AND SPECIAL DIRECTIONS**

The Secretary of State for Transport, in exercise of his powers under Sections 64 and 65 of the Road Traffic Regulation Act 1984, and of all other powers enabling him in that behalf, on roads for which Gloucestershire County Council is the traffic authority, hereby:-

1. authorises the erection, at appropriate sites on the said roads, of a traffic sign (hereinafter referred to as “the authorised sign”) conforming as to size, colour and character with the sign shown in the attached set of drawings numbered GT50/48/0005-1 save that the element incorporating the sign to diagram 610, as shown in the said set of drawings, may be varied to incorporate a sign to diagram 606, 611 or 616 in Schedule 2 or diagram 951, 955, 956 or 957 in Schedule 5 to the Traffic Signs Regulations 2002 (Part I of SI 2002/3113, “the 2002 Regulations”); and
2. directs, without prejudice to any statutory provision to the like effect, that it is a condition of this authorisation that the erection of the authorised sign at or near the said sites shall continue to have effect only until such day as may be appointed by one month's notice given by the Secretary of State in writing to the traffic authority for the removal or alteration of the authorised sign and on that day the said authorisation shall, without prejudice to the giving of any further authorisation or direction, cease to have effect.



GT50/48/0005

The provisions of Regulations 12, 18 and 19 of the 2002 Regulations shall apply to the roundel incorporated in the authorised sign in the same manner as they apply to the same sign shown in diagrams 606, 611 or 616 in Schedule 2 or diagrams 951, 955, 956 or 957 in Schedule 5 to those Regulations.

Dated 31 May 2011

Signed by authority of the Secretary of State



A Delegated Official of the Department for Transport

CERTIFIED TRUE COPY
8/6/11



DEPARTMENT FOR TRANSPORT

SIGNATURE Ltd

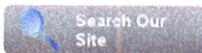
Signature House, Hainge Rd, Tivdale, Oldbury, B69 2NY

Email: sales@signatureltd.com[Home](#)[Product Portfolio](#)[Categories](#)[Services](#)**Contact Us:****Head Office:**

+44 (0) 121 557 0234

Scottish Sales Office:

+44 (0) 141 812 5121

**Signature Group:**

Trading as Signature



Part of the Signature Group



Distribution Agreements with:



LED SOLAR TRUEFLEX Bollard



Signature is pleased to present its new passively safe system of Retro-reflective Self-Righting Internally Illuminated Bollard; the LED SOLAR TRUEFLEX. The Trueflex is designed and manufactured to meet the requirements of the latest standard.

Thanks to its unique patent pending cam mechanism, the TRUEFLEX technology ensures the return to its TRUE position (original stance) after FLEXING through impact. Incorporating anti-over tensioning features enabling the Trueflex mechanism to provide constant performance even when wound through numerous rotations.

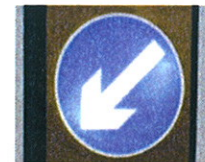
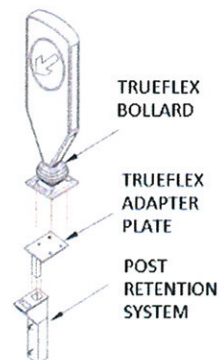
Installation Methods

Designed for multi types of installations:

- NEW installations via foundation base plate
- Redundant BASELIGHT installations, conversion plate required
- RETROFIT installations utilising existing fittings
- Retention Sockets which eliminate the need for costly and disruptive excavations after knockdowns, allowing the bollard to be removed and replaced in minutes

Features

- An LED illuminated solar powered aspect Solar panels act as a photocell
- Features an in-built regulator, which controls the solar charge to the batteries
- Automatic dusk to dawn operation via a regulator

**Green Solutions**

In line with Signature's ISO 14001 environmental accreditation, we have developed the TRUEFLEX technology using recycled materials. At the end of their life span, Signature will be able to reprocess the plastic and turn them into new products, such as duct boxes.

Download the Documentation

The Department of Transport has approved the Solar Trueflex for use in any location currently occupied by an internally illuminated bollard.

Please find below a draft letter which is required to be sent via email to Mr Hugh Arnold at the Traffic Division of



Home ► Catalogue ► PRODUCTS ► BOLLARDS ► Solaboll
Date: 7/03/11

Product Catalogue

PRODUCTS

BOLLARDS

Solaboll

Visaboll

Paraboll

Pliaboll

Stacaboll

Bigaboll

Rhombase Frame

Bases

PROJECTS

Product Search

Search

Home

Company Profile

News

Web Links

Site Index

Terms of Sale

Contact Us

Newsflash

NEW Solar Powered Illuminated Self-Righting Bollard launched

[Read more...](#)

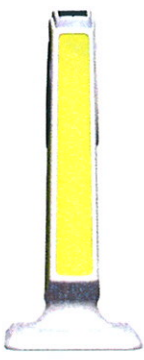
Pudsey Diamond Engineering Ltd. have been named as Runner's Up in the British Business Boost Competition in association with Siemens Enterprise Communications

[Read more...](#)

Solaboll TM

Solar Powered Illuminated Self-Righting Bollard

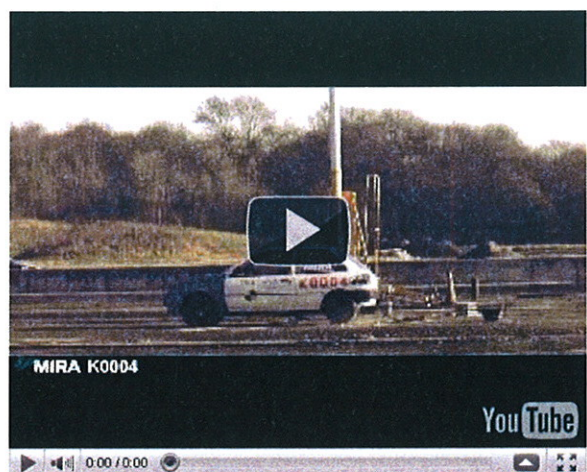





The truly versatile illuminated bollard for all locations

Key Features:

- Solar Powered to provide a green energy solution
- Conforms to BS 8442:2006 section 14 (Retroreflective self-righting bollards)
- Passed BS EN 12767-2:2007 to 70/NE3 Passive safety performance standard
- Signage luminance as specified in BS EN 12899-1:2007 (Table 19) Class L2
- Batteries housed below ground for additional safety
- Expected Battery Life of 6 to 10 years
- Serviceable and repairable on site
- Remains Fully operational after most impacts
- Available in a choice of colours and signage
- Easy to fit, clean and replace
- Retro fitting available to most existing bases



Order by: Product Name

Solaboll - Keep Left



8500 - White Moulding without Battery Box

8508 - White Moulding with Battery Box

8504 - Black Moulding without Battery Box

8512 - Black Moulding with Battery Box

[Product Details...](#)

Solaboll - Keep Right



8501 - White Moulding without Battery Box

8509 - White Moulding with Battery Box

8505 - Black Moulding without Battery Box

8513 - Black Moulding with Battery Box

[Product Details...](#)

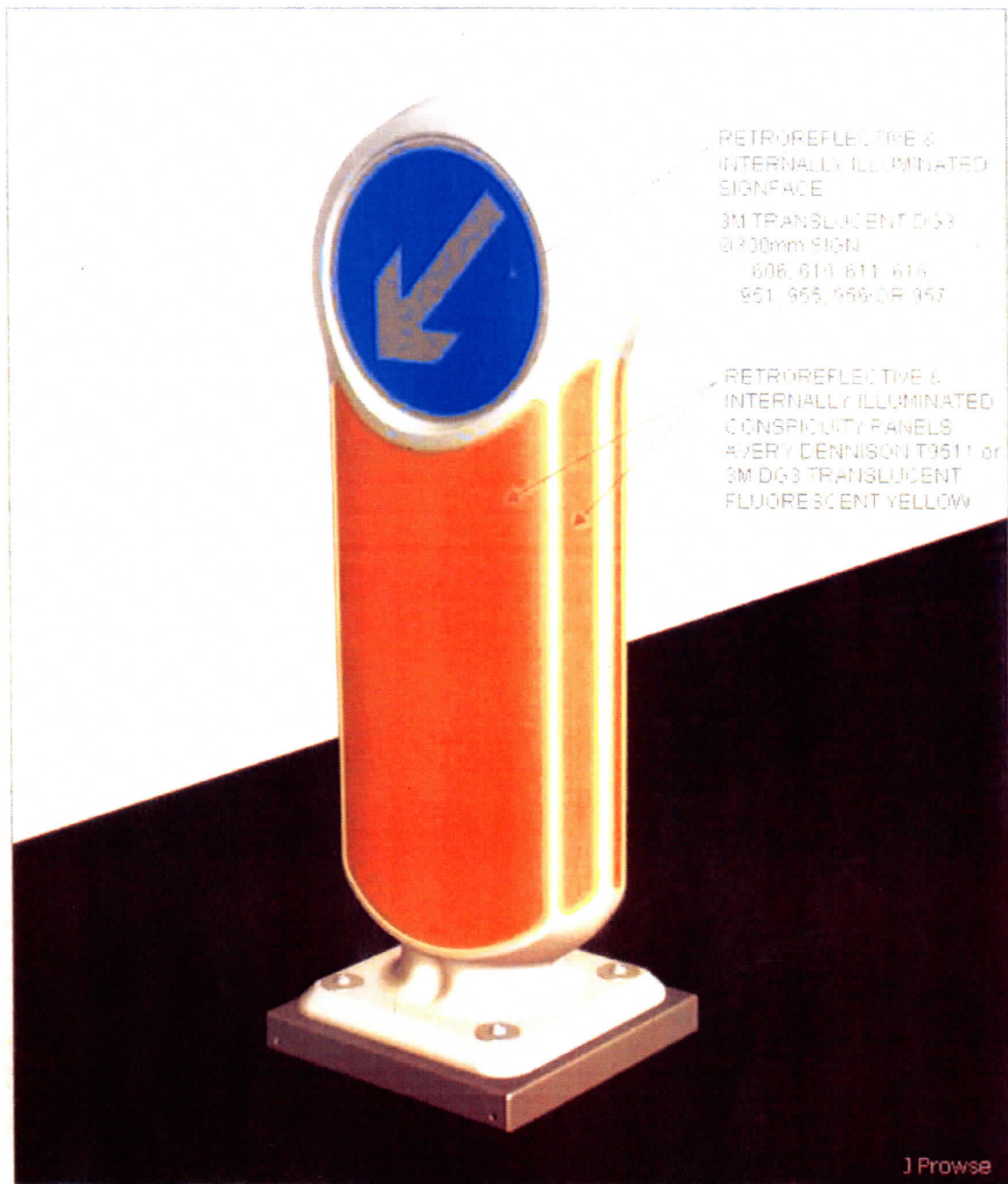
Solaboll - Turn Left



Solaboll - Turn Right

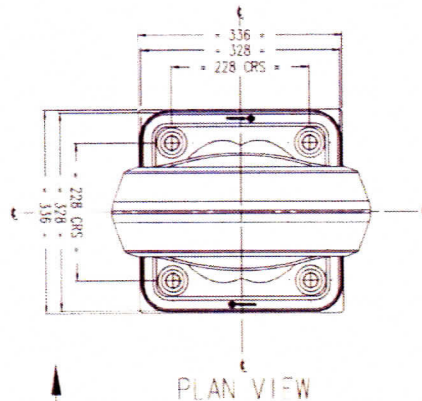


Retroreflective Bollard with Internal illumination from a Baselight

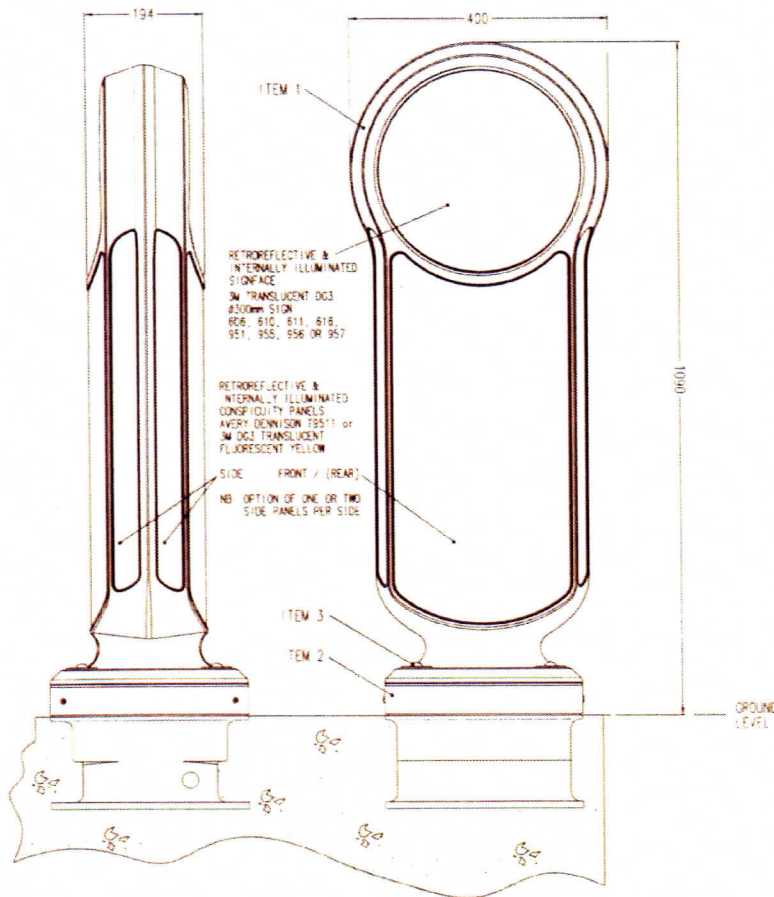


31/5/11
GT50/48/0005-1

MODEL SPECIFICATION REBOUND SIGNMASTER™ BOLLARD (RETROREFLECTIVE BOLLARD WITH INTERNAL ILLUMINATION FROM A BASELIGHT)



PLAN VIEW



SIDE VIEW

FRONT VIEW

(SHOWING PRE-INSTALLED TYPICAL LIGHTBOX (INSTALLED ONTO OPTIONAL LIGHTBOX ADAPTER PLATE))

PRODUCT INFORMATION:

- **WEIGHT**
 - BOLLARD - 6.0 Kg
 - FIXINGS - 1.0 Kg
 - ADAPTOR PLATE - 3.1 Kg
 - TOTAL - 10.1 Kg
- **MATERIAL**
 - BOLLARD - IMPACTAPOL®
 - ADAPTOR - MS GALVANISED
 - FIXINGS - SCREWS - STAINLESS STEEL
 - WASHERS - STAINLESS STEEL
 - SPACERS - RIGID PVC
- **BODY COLOUR** - WHITE
- **DIMENSIONS** - ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED.

INSTALLATION GUIDE:

- **ITEM 1 - REMOVABLE BOLLARD**
- **ITEM 2 - ADAPTOR PLATE**
(VARIOUS TYPES DEPENDANT ON LIGHTBOX FITTING)
- **ITEM 3 - FIXINGS (4 OFF):**
 - M10 x 50mm SOCKET HEAD SCREW - S/S
 - M10 x 950 x 3mm WASHER - POWDER COATED S/S
 - M10 x 919 x 25mm SPACER - RIGID PVC

- ENSURE THAT ANY SIGNFACE FACES TOWARDS ONCOMING TRAFFIC

- **FIXING TO EXISTING BASELIGHTS**

USE THE APPROPRIATE ADAPTER PLATE RELATIVE TO THE TYPE OF BASELIGHT. FOLLOW THE SEPARATE FIXING INSTRUCTIONS SUPPLIED.

- **USE OF LED BASELIGHT**

FOLLOW THE SEPARATE FIXING INSTRUCTIONS SUPPLIED.

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 - 70,656mm²**

ORD. TITLE		 Preston New Road, Blackpool Lancashire, FY4 4JL Telephone: 01253 600400 Facsimile: 01253 782558 E-mail: sales@glasdon-uk.co.uk Web Site: www.glasdon.com
PROJECT		
ORD. No.	PROJECT No.	
SCALE	DATE	
DRAWN BY	CHECKED	

Glasdon®
Glasdon UK Limited

Preston New Road, Blackpool
Lancashire, FY4 4JL
Telephone: 01253 600400
Facsimile: 01253 782558
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Web Site: www.glasdon.com

SPECIFICATION NUMBER - 025066-905 ISSUE 2
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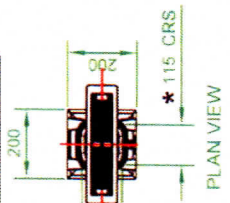
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THIRD ANGLE PROJECTION

IF IN DOUBT ASK

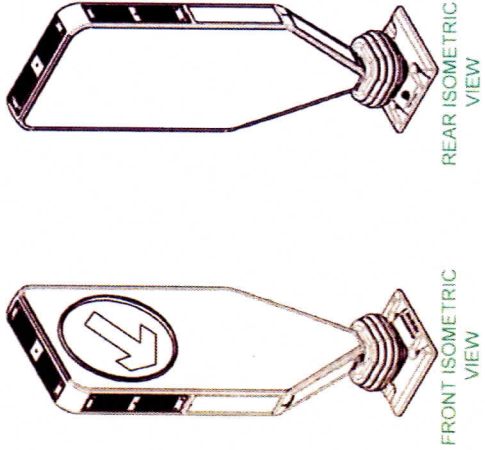
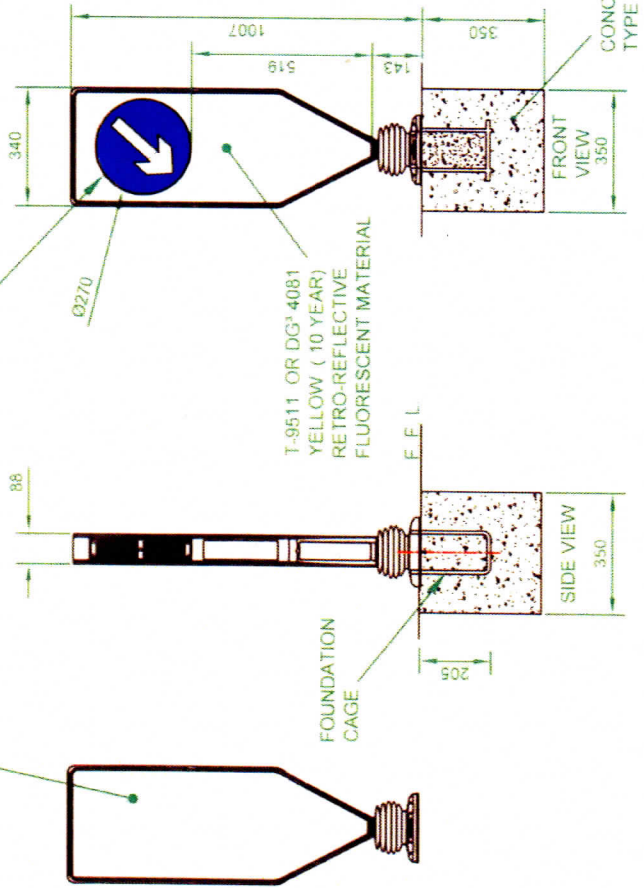
REVISION
/A FIRST ISSUE: DOR 441: KR 12-01-11
/B OPTIONAL RETRO-REFLECTIVE DISCS DEL: DOR 441: KR 14-01-11

TECHNICAL
PROJECTED AREA OF FRONT = 230.362mm^2
PROJECTED AREA OF EACH SIDE = 23.250mm^2
LEDs = 2 off Cree High Power LED's Guarantee of 50,000 hours burn time.
Batteries = Cyclon Non-spillable Lead-Acid Batteries Guaranteed for 5 Years with a Design Life of 7 to 10 Years
Solar Panels = 3 Panels of Monocrystalline technology Guaranteed for 5 Years
Bollard Body = Rotationally moulded made out of recyclable material



* FIXING CENTRES
TRANSLUCENT WHITE PANEL WITH BLUE BACKGROUND DG* (10 YEAR) MATERIAL

YELLOW REVERSE PANEL - T-9511 OR DG* 4081 YELLOW (10 YEAR) RETRO-REFLECTIVE FLUORESCENT MATERIAL

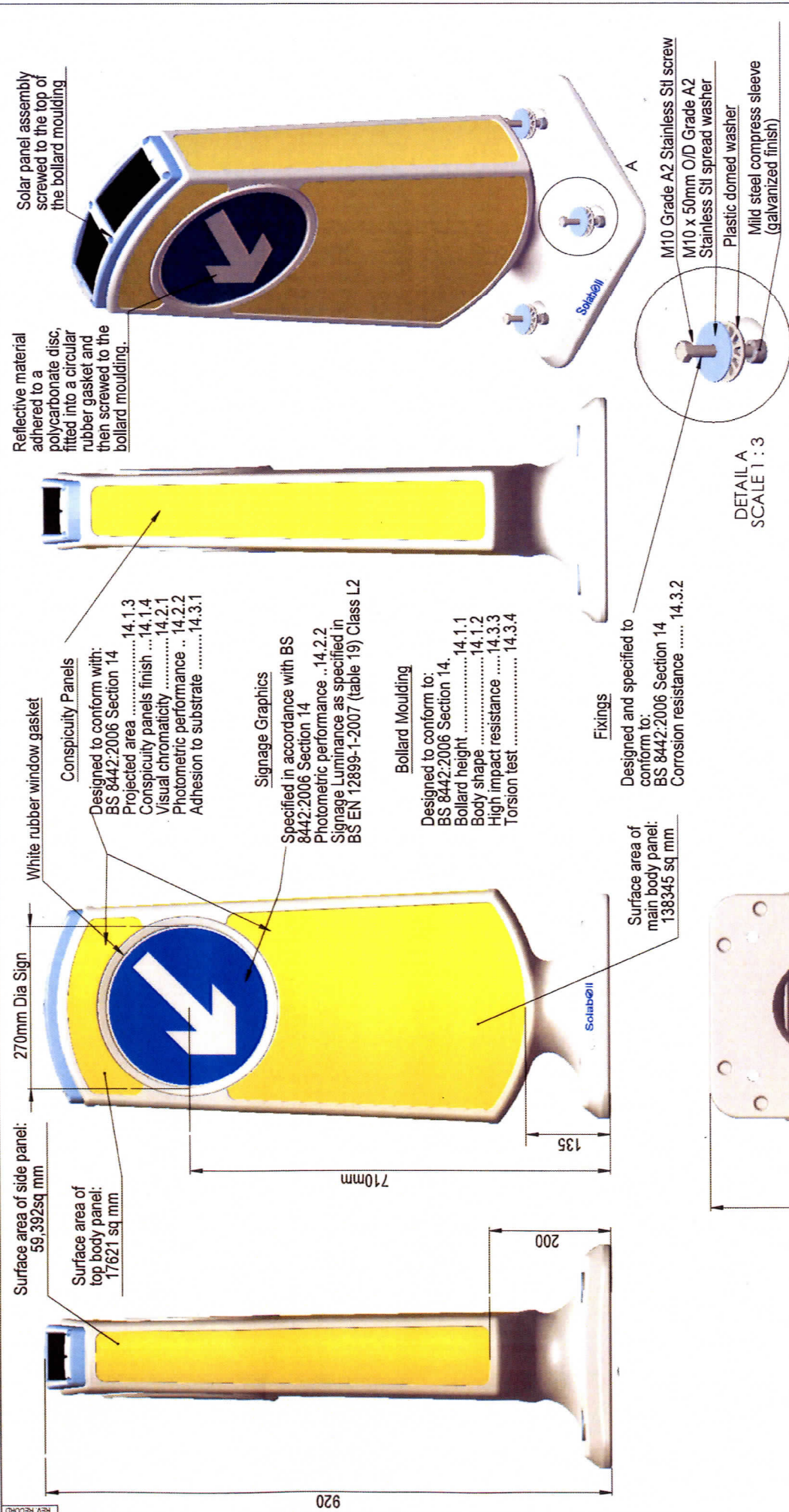


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NOTE: UNDERSIDE OF PLATE IS GROUND LEVEL

QA FORM No. PG20c Iss 2	STOCK No.	ANGULAR TOLERANCE $\pm 1^\circ$	TOLERANCE $\pm 0.5\text{mm}$	MATERIAL	DRN BY K. RAM	CHKD BY N/A	APPROVED BY & DATE L6132B 12-01-11	FILENAME L6132B	DATE 12-01-11	SCALE N.T.S.
SPECIFICATION					OWNER SIGNATURE HOUSE HARCHE ROAD TIVDALE, OLD BURRY R60 2NF 0121 557 0234					
FINISH					TITLE LAYOUT - LED SOLAR ILLUMINATED TRUEFLEX BOLLARD WITH FOUNDATION CAGE SPECIFICATION					
UNLESS OTHERWISE STATED					DWG. No. L6132					
					REVISION B					
					SHEET 1 OF 1					

1 2 3 4 5 6 7 8



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NOTES:	TOLERANCES UNLESS OTHERWISE STATED	Pudsey Diamond Engineering Ltd	
All dimensions in mm	0.00 ± 0.15	Tel :- 01264 336677 Fax:- 01264 336688 E-mail :- sales@pudseydiamond.com	
Remove all burrs and sharp edges	0.00 ± 0.30		
FINISH:	Whole No's ±0.50		
	MATERIAL:	THIRD ANGLE PROJECTION	
	SPEC:		
Drawn By	Checked By	Date Drawn	Scale
BD	BD	25/11/10	

Title

Solaboll Traffic Bollard Assembly Specification

Drawing Number
920008500-21

Part No.

Drg Issue
BSurface area of side panel:
59,392sq mm

270mm Dia Sign

Surface area of
top body panel:
17621 sq mm

Black rubber window gasket

Conspicuity Panels

Designed to conform with:
BS 8442:2006 Section 14

Projected area 14.1.3

Conspicuity panels finish 14.1.4

Visual chromaticity 14.2.1

Photometric performance .. 14.2.2

Adhesion to substrate 14.3.1

Signage GraphicsSpecified in accordance with BS
8442:2006 Section 14

Photometric performance .. 14.2.2

Signage Luminance as specified in
BS EN 12899-1-2007 (table 19) Class L2Bollard MouldingDesigned to conform to:
BS 8442:2006 Section 14.

Bollard height 14.1.1

Body shape 14.1.2

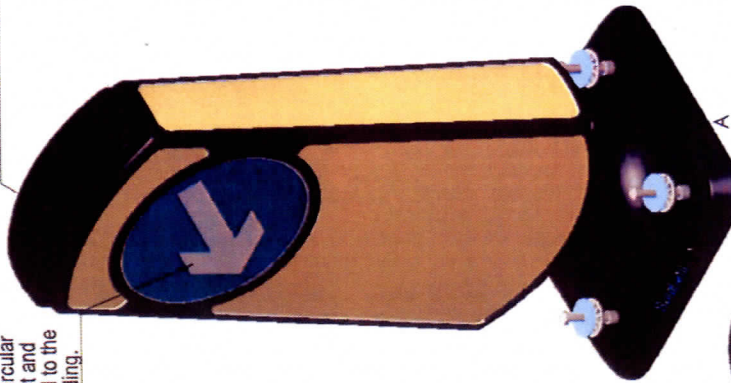
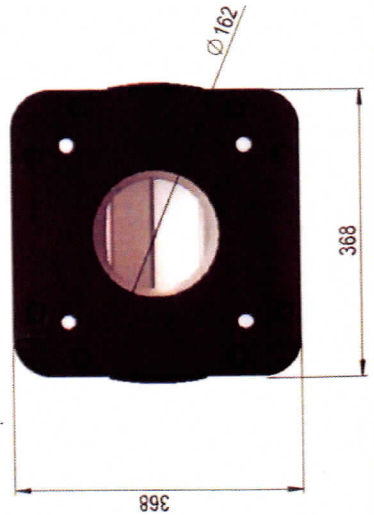
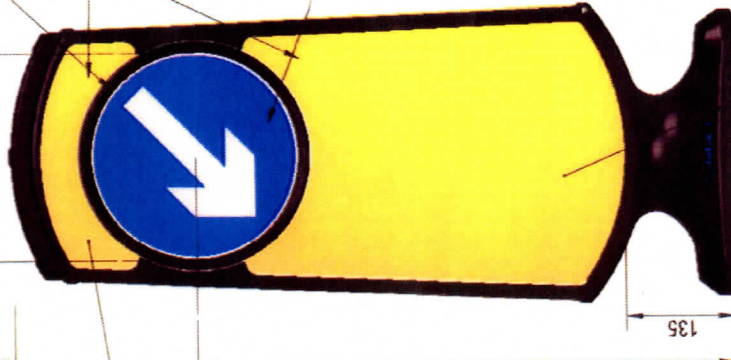
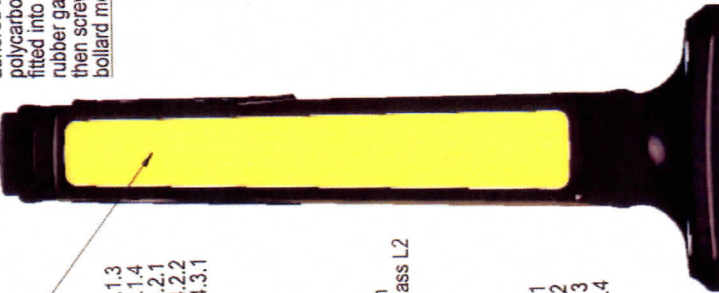
High impact resistance 14.3.3

Torsion test 14.3.4

FixingsDesigned and specified to
conform to:

BS 8442:2006 Section 14

Corrosion resistance 14.3.2

Surface area of
main body panel:
138345 sq mmSolar panel assembly
screwed to the top of
the bollard mouldingReflective material
adhered to a
polycarbonate disc,
fitted into a circular
rubber gasket and
then screwed to the
bollard moulding.M10 Grade A2 Stainless Stl screw
M10 x 50mm O/D Grade A2
Stainless Stl spread washer
Plastic domed washer
Mild steel compress sleeve
(galvanized finish)DETAIL A
SCALE 1 : 3

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TOLERANCES UNLESS OTHERWISE STATED

0.00 = +0.15
0.0 = +0.30
Whole NBS +0.30

NOTES
All dimensions in mm
Remove all burrs and sharp edges

MATERIAL

SPEC

Pudsey

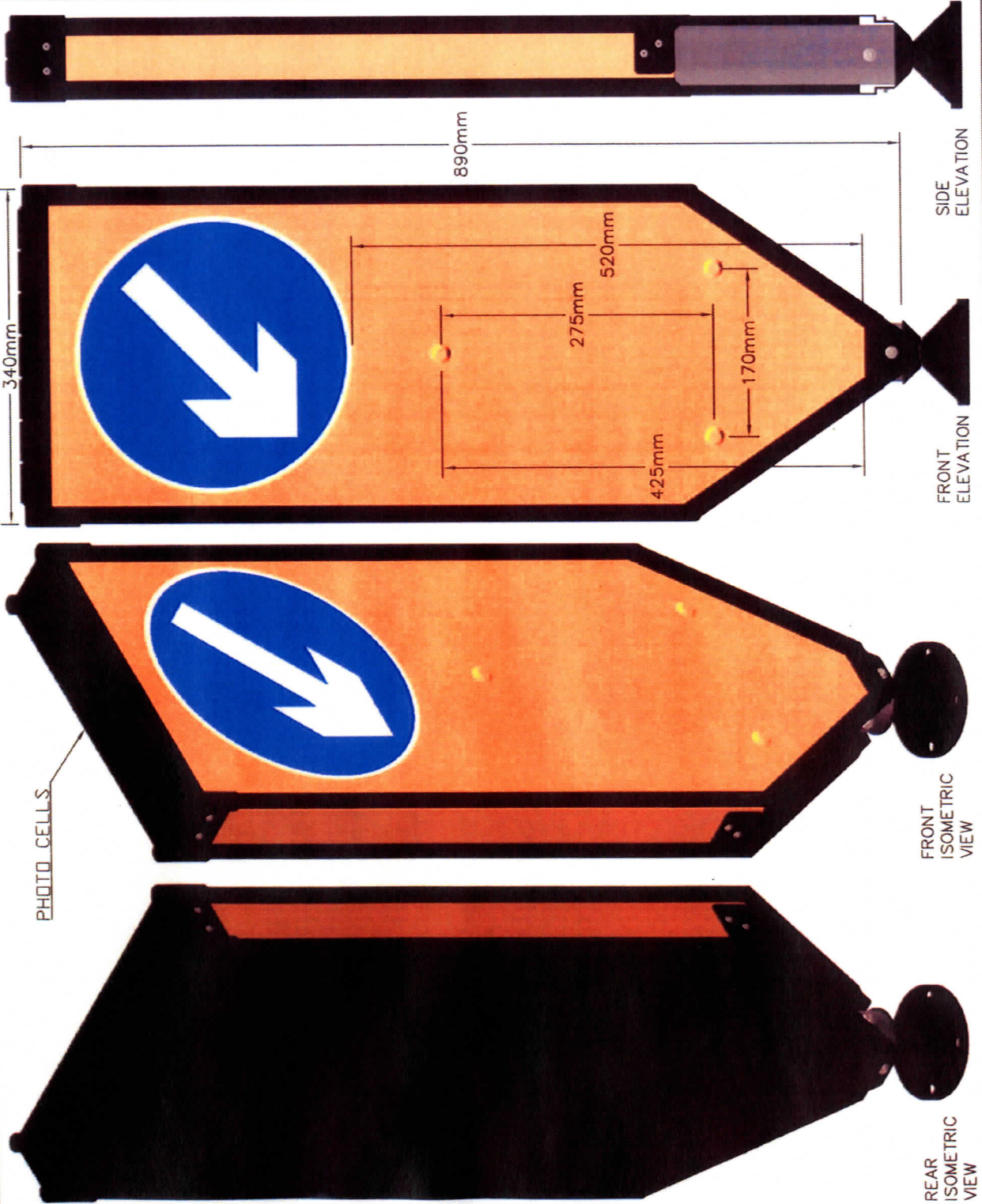
Diamond
Engineering Ltd

Tel :- 01264 336677 Fax:- 01264 336688
E-mail :- sales@pudseydiamond.com



Scale

Date Drawn
25/11/10Checked By
BDDrawn By
BDTHIRD ANGLE
PROJECTION



SIGN FACE P610:
BORDER WHITE 4090T
BACKGROUND
BLUE TRANSLUCENT
ARROW WHITE 4090T
DIAMETER 280mm
DG3(DIAMOND GRADE CUBED)
BS8408: 2005

CLEAR ILLUMINATED BACK
PLATE TO ROUNDEL AT
280mm DIAMETER

DRILL HOLES
11MM-5MM DIAMETER
470MM-13MM DIAMETER
840MM-13MM DIAMETER

FACING DIMENSIONS:
WIDTH: 300mm
HEIGHT: 809.5mm
AREA: 0.243sq.m
FLUORESCENT YELLOW 4051
DG3(DIAMOND GRADE CUBED)
BS8408: 2005

SIDE STRIPS:
WIDTH: 40mm
HEIGHT: 645mm
FLUORESCENT YELLOW 4051
DG3(DIAMOND GRADE CUBED)
BS8408: 2005

MATERIAL:
VACUUM FORMED
POLYPROPYLENE
BLACK

Approved by:

Date:

Design by DJN

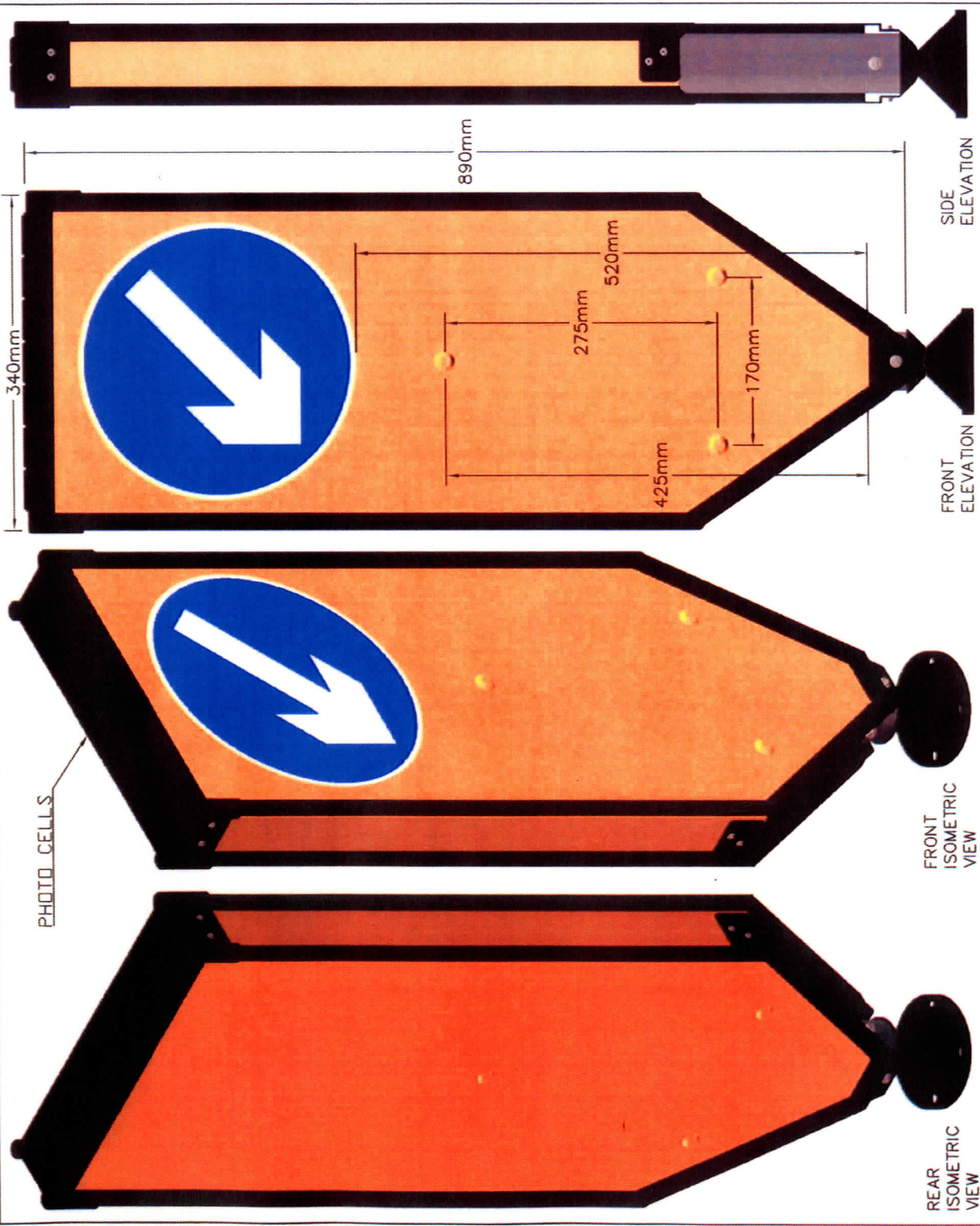
Drawn by AC

Tolerance $\pm 1.0\text{mm}$

Revision # 3

Date 9/11/2007

Reference



SIGN FACE P610:	
BORDER WHITE 4090T	
BACKGROUND	
BLUE TRANSLUCENT	
ARROW WHITE 4090T	
DIAMETER 280mm	
DG3(DIAMOND GRADE CUBED)	
BS8408: 2005	
CLEAR ILLUMINATED BACK	
PLATE TO ROUNDEL AT	
280mm DIAMETER	
DRILL HOLES	
11MM-5MM DIAMETER	
470MM-13MM DIAMETER	
840MM-13MM DIAMETER	
FACING DIMENSIONS:	
WIDTH: 300mm	
HEIGHT: 809.5mm	
AREA: 0.243sq.m	
APPLIED TO FRONT AND	
REAR	
FLUORESCENT YELLOW 4051	
DG3(DIAMOND GRADE CUBED)	
BS8408: 2005	
SIDE STRIPS:	
WIDTH: 40mm	
HEIGHT: 645mm	
FLUORESCENT YELLOW 4051	
DG3(DIAMOND GRADE CUBED)	
BS8408: 2005	
MATERIAL:	
VACUUM FORMED	
POLYPROPYLENE	
BLACK	
Approved by:	
Date:	
Design by	DJN
Drawn by	AC
Tolerance	± 1.0mm
Revision #	2
Date	9/11/2007
Reference	