



GT50/13/0009

**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 Bradford Metropolitan Borough 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 GT50/13/0009-1 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.



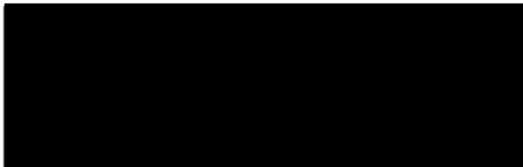
GT50/13/0009

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.

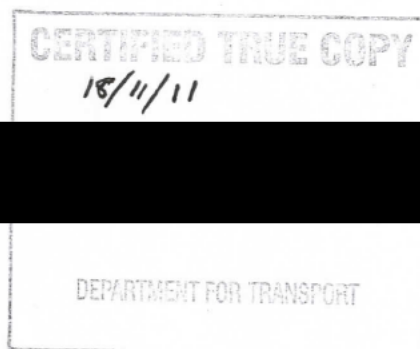
This authorisation replaces the earlier one dated 18th February 2010 under reference GT46/45/148 which is hereby revoked.

Dated.....17 May..... 2011

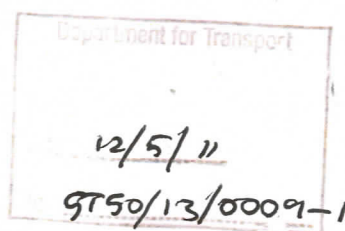
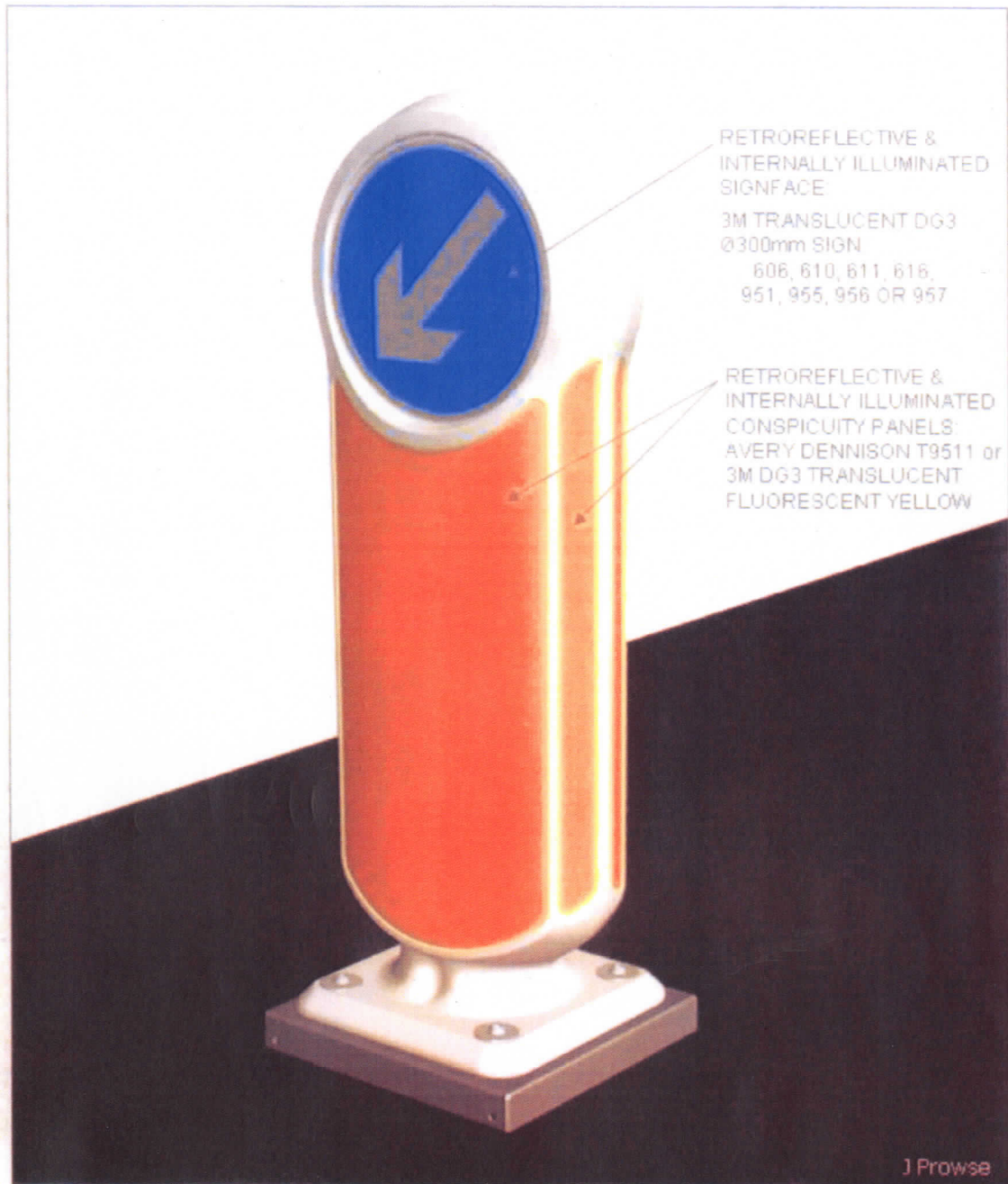
Signed by authority of the Secretary of State



A Grade 7 Official of the Department for Transport

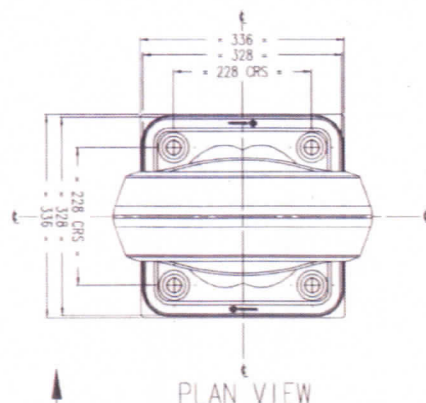


— Retroreflective Bollard with Internal illumination —
from a Baselight

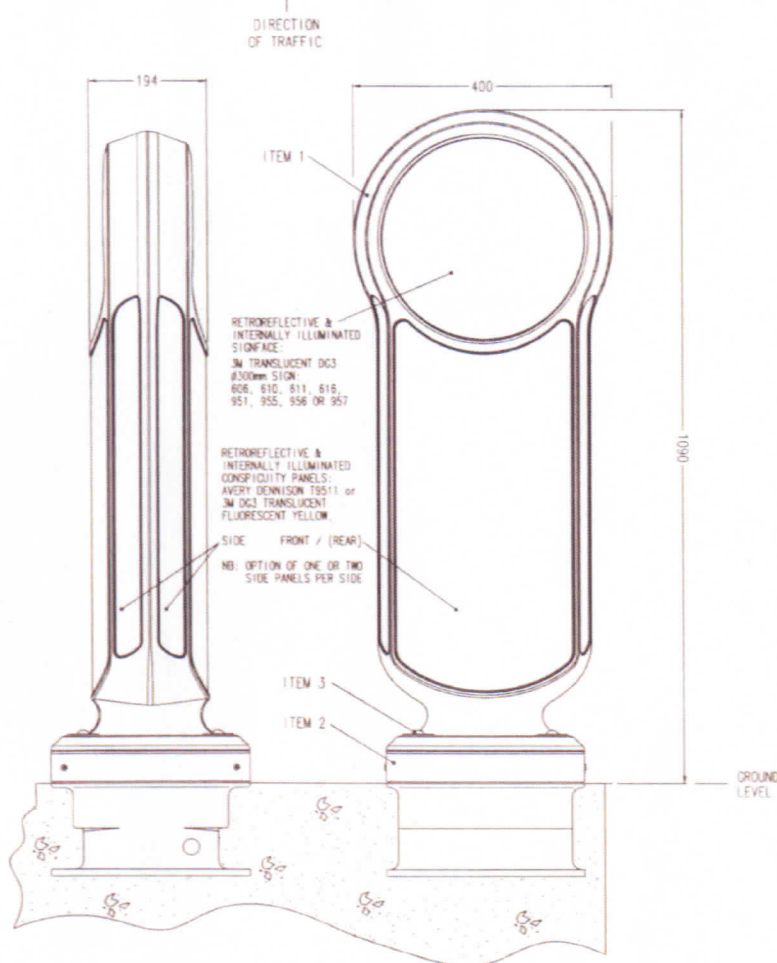


Page 1 of 7

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 - IMPACTPOL®
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 Ø50 x 3mm WASHER - POWDER COATED S/S
 - M10 x Ø19 x 28mm 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 CONSPIQUITY PANELS
 - BODY C/W FRONT, 2xLH & 2xRH CONSPIQUITY PANELS
 - BODY C/W FRONT, REAR, 2xLH & 2xRH CONSPIQUITY 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 CONSPIQUITY PANELS:**
 - FRONT = 161,701mm² (PROJECTED)
 - SINGLE SIDE = 24,255mm²
 - OPTIONAL DOUBLE SIDE = 48,510mm²
- **SURFACE AREA OF SIGNFACE = 70,686mm²**

ORG. TITLE				 Glasdon[®] Glasdon UK Limited Preston New Road, Blackpool Lancashire, FY4 4JZ Telephone: 01253 800400 Facsimile: 01253 792508 E-mail: sales@glasdon-uk.co.uk Web Site: www.glasdon.com
PROJECT				
ORG. No.	PROJECT No.			
SCALE	DATE			
DRAWN BY	CHECKED			
SPECIFICATION NUMBER - 025066-505 ISSUE 2				
GLASDON UK LTD 02/07/07 SHEET SIZE: A2				

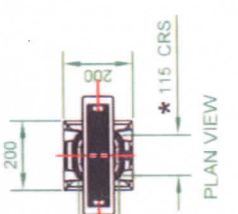
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IF IN DOUBT ASK

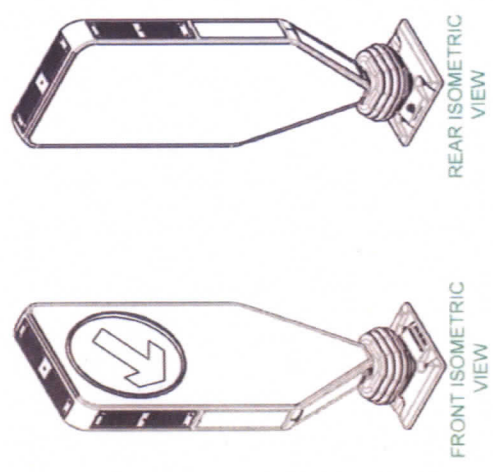
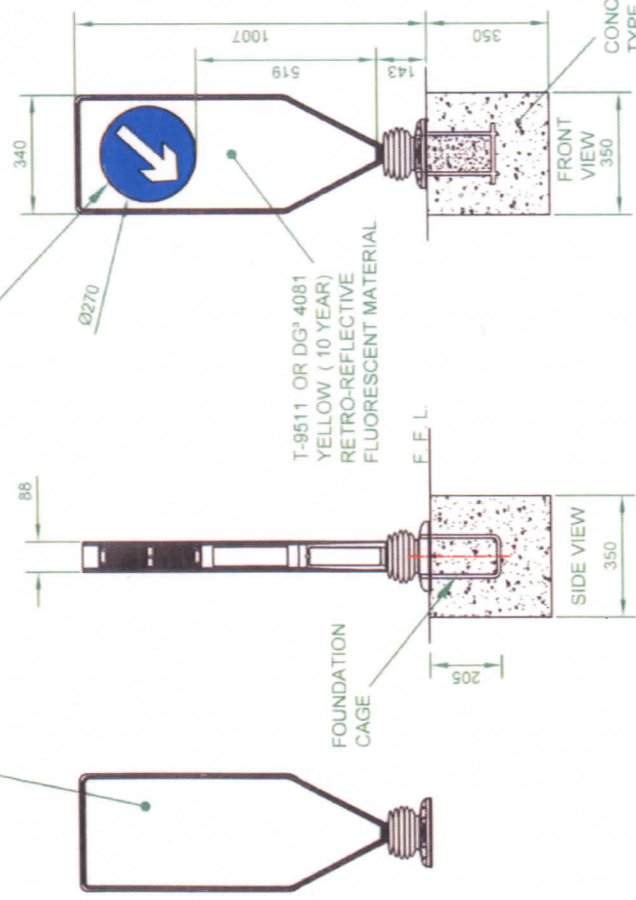
REVISION	
/A FIRST ISSUE: DDR 4.41: KR 12-01-11	8
/B OPTIONAL RETRO-REFLECTIVE DISCS DEL: DDR 4.41: KR 14-01-11	

TECHNICAL
 PROJECTED AREA OF FRONT = 230,362mm²
 PROJECTED AREA OF EACH SIDE = 23,250mm²
 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 DG3 (10 YEAR) MATERIAL

YELLOW REVERSE PANEL : T-9511 OR DG3 4081 YELLOW (10 YEAR) RETRO-REFLECTIVE FLUORESCENT MATERIAL



PLEASE NOTE
 SIGNATURE RESERVES THE RIGHT TO UPDATE THE ABOVE AS AND WHEN NECESSARY WITHOUT PRIOR NOTICE

NOTE UNDERSIDE OF PLATE IS GROUND LEVEL.

QA FORM No. PG20c Iss 2	TOLERANCE +/- 0.5mm	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.
STOCK No.	ANGULAR TOLERANCE ± 1°	SPECIFICATION	OWNER Signature Ltd SIGNATURE HOUSE HAINES ROAD TIVDALE, OLD BURY BB9 2NP 0121 357 0234		TITLE LAYOUT - LED SOLAR ILLUMINATED TRUEFLEX BOLLARD WITH FOUNDATION CAGE SPECIFICATION			
	ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.	FINISH			DWG. No. L6132		REVISION B	SHEET 1 OF 1

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 Graphics

Specified 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 L2

Bollard Moulding

Designed 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

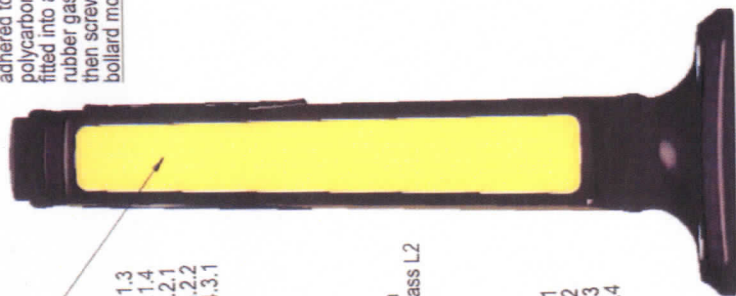
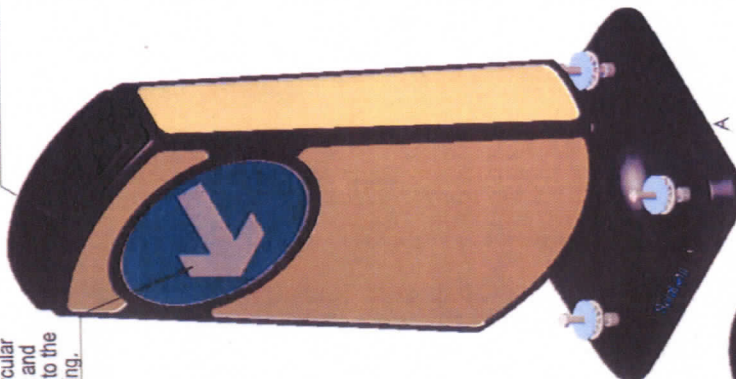
Fixings

Designed and specified to

conform to:

BS 8442:2006 Section 14

Corrosion resistance 14.3.2

Reflective material
adhered to a
polycarbonate disc,
fitted into a circular
rubber gasket and
then screwed to the
bollard moulding.Surface area of
main body panel:
138345 sq mm

200

710mm

135

A

M10 Grade A2 Stainless Stl screw

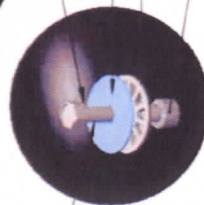
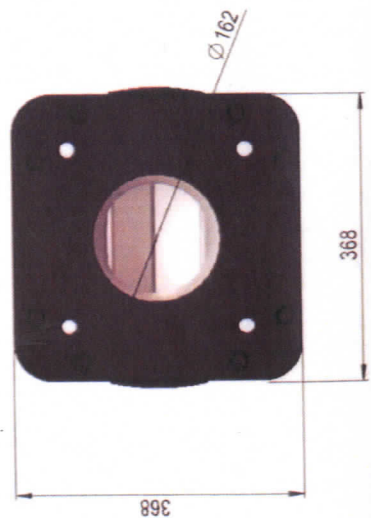
M10 x 50mm O/D Grade A2

Stainless Stl spread washer

Plastic domed washer

Mild steel compress sleeve

(galvanized finish)

DETAIL A
SCALE 1 : 3

368

368

TOLERANCES UNLESS OTHERWISE STATED

0.00 = +0.15

0.00 = +0.30

Whole No's = +0.50

All dimensions in mm

Remove all burrs and sharp edges

FINISH

MATERIAL

SPEC

Scale

Date Drawn

Checked By

BD

BD

25/11/10

THIRD ANGLE

PROJECTION

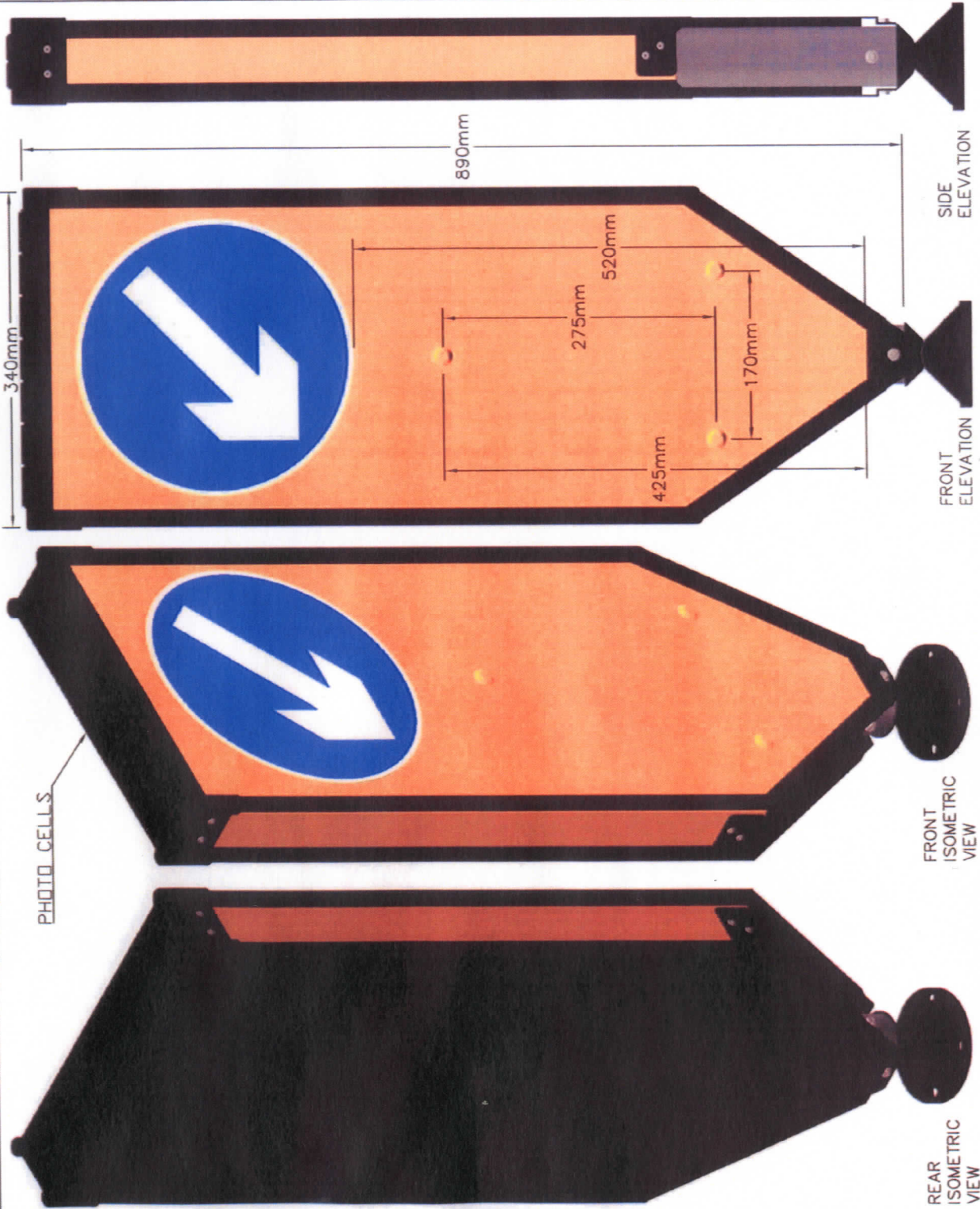
Pudsey

Diamond
Engineering Ltd

Tel :- 01264 336677 Fax:- 01264 336688

E-mail :- sales@pudseydiamond.com

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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

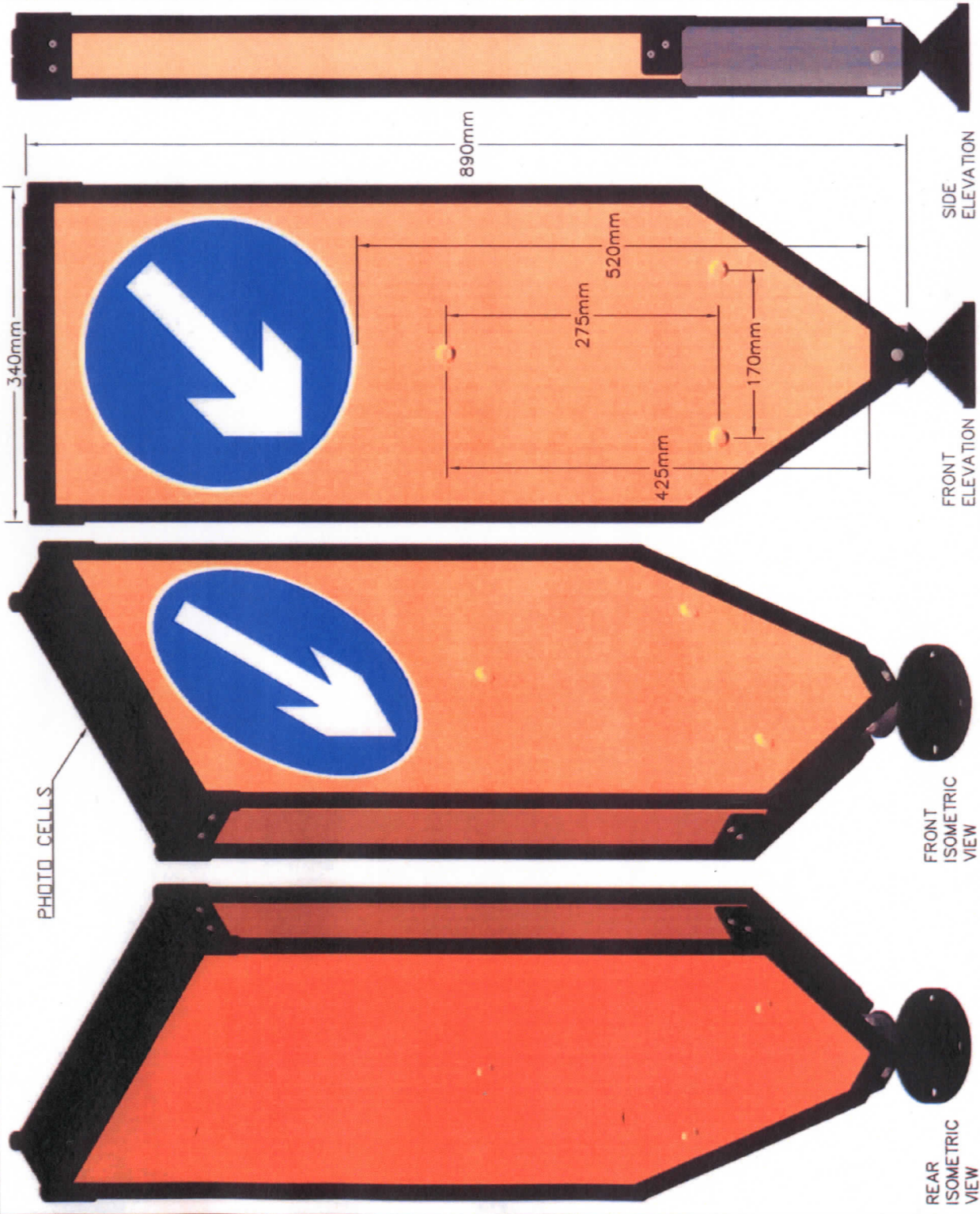
Drawn by AC

Tolerance $\pm 1.0\text{mm}$

Revision # 3

Date 9/11/2007

Reference



SIGN FACE P610:
 BORDER WHITE 4090T
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 ARROW WHITE 4090T
 DIAMETER 280mm
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 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 $\pm 1.0\text{mm}$

Revision # 2

Date 9/11/2007

Reference