



GT50/18/0002

**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, for the purpose of indicating the side or sides on which vehicles should or may pass refuges on roads for which Bury 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 GT50/18/0002-1 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.



GT50/18/0002

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.

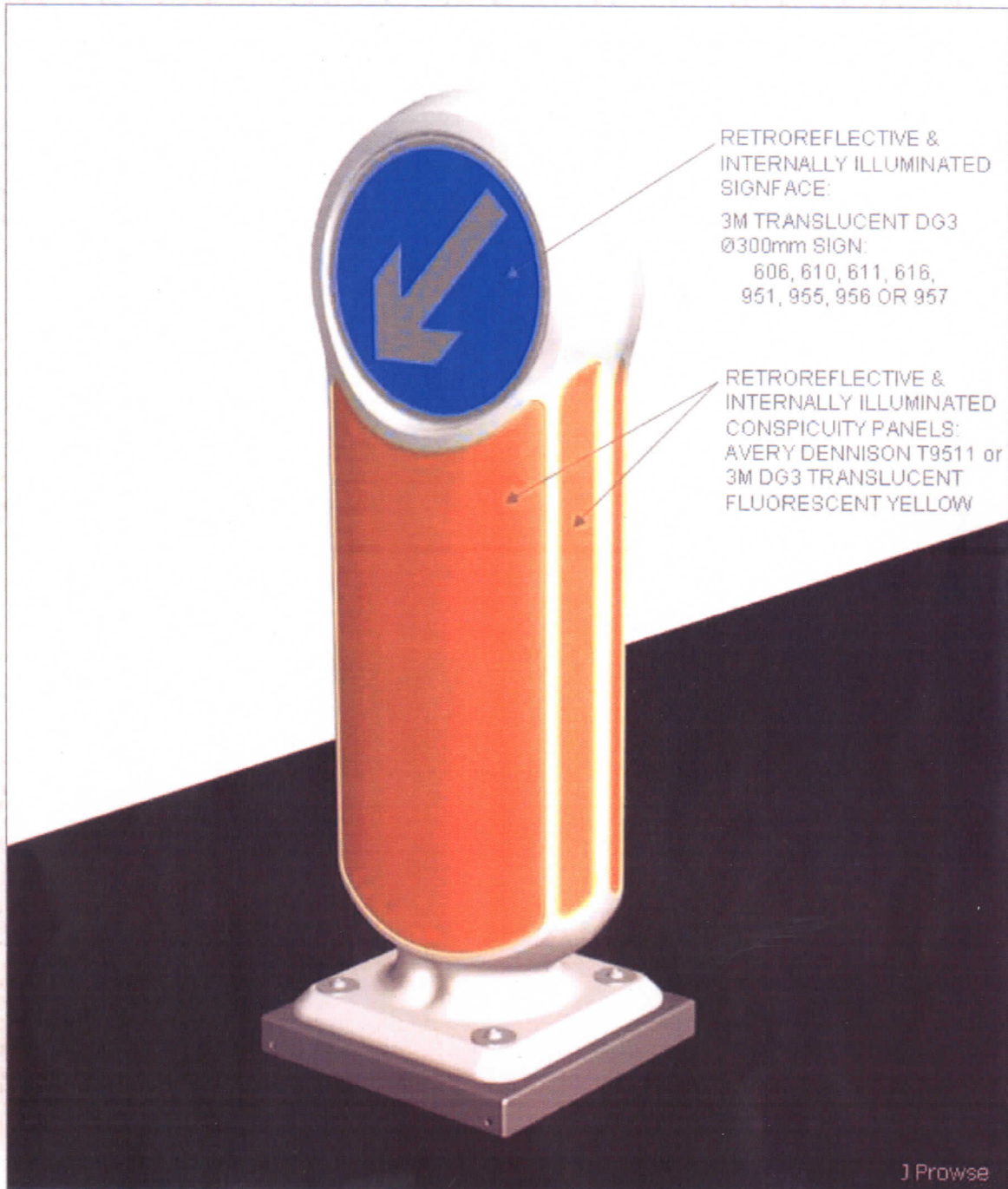
Dated 25 February 2011

Signed by authority of the Secretary of State

.....
[Redacted Signature]
A Grade 7 Official of the Department for Transport

CERTIFIED TRUE COPY
14/4/11
[Redacted]
DEPARTMENT FOR TRANSPORT

Retroreflective Bollard with Internal illumination
from a Baselight



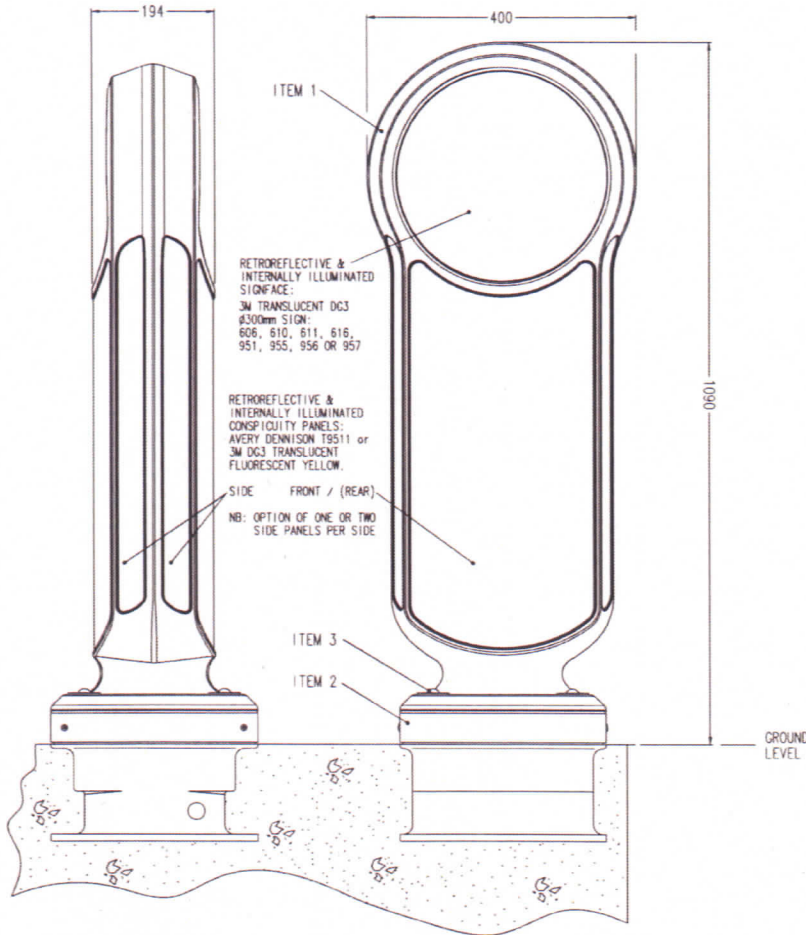
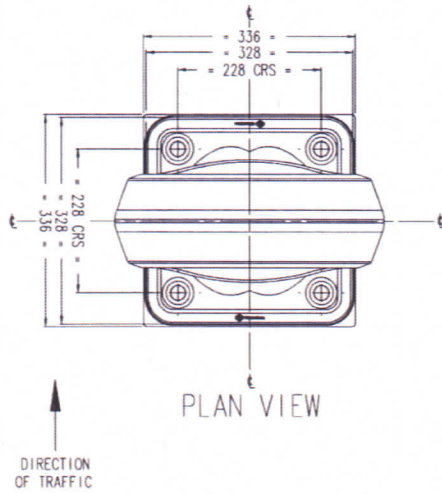
Department for Transport
Date 18/2/11
No 9750/18/0002-1

Page 1 of 7

MODEL SPECIFICATION

REBOUND SIGNMASTER™ BOLLARD

(RETROREFLECTIVE BOLLARD WITH INTERNAL ILLUMINATION FROM A BASELIGHT)



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 - IMPACTAPO®
- 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 = 24,259mm²
 - OPTIONAL DOUBLE SIDE = 48,510mm²
- SURFACE AREA OF SIGNFACE = 70,686mm²

DRG. TITLE		<p>Glasdon UK Limited</p> <p style="font-size: 8px;">Preston New Road, Blackpool Lancashire, FY4 4JL Telephone: 01253 600400 Facsimile: 01253 792558 E-mail: sales@glasdon-uk.co.uk Web Site: www.glasdon.com</p>
PROJECT		
DRG. No.	PROJECT No.	
SCALE	DATE	
DRAWN BY	CHECKED	SPECIFICATION NUMBER - 025066-505 ISSUE 2 ©GLASDON UK LTD 02/07/07 SHEET SIZE: A2

IF IN DOUBT ASK

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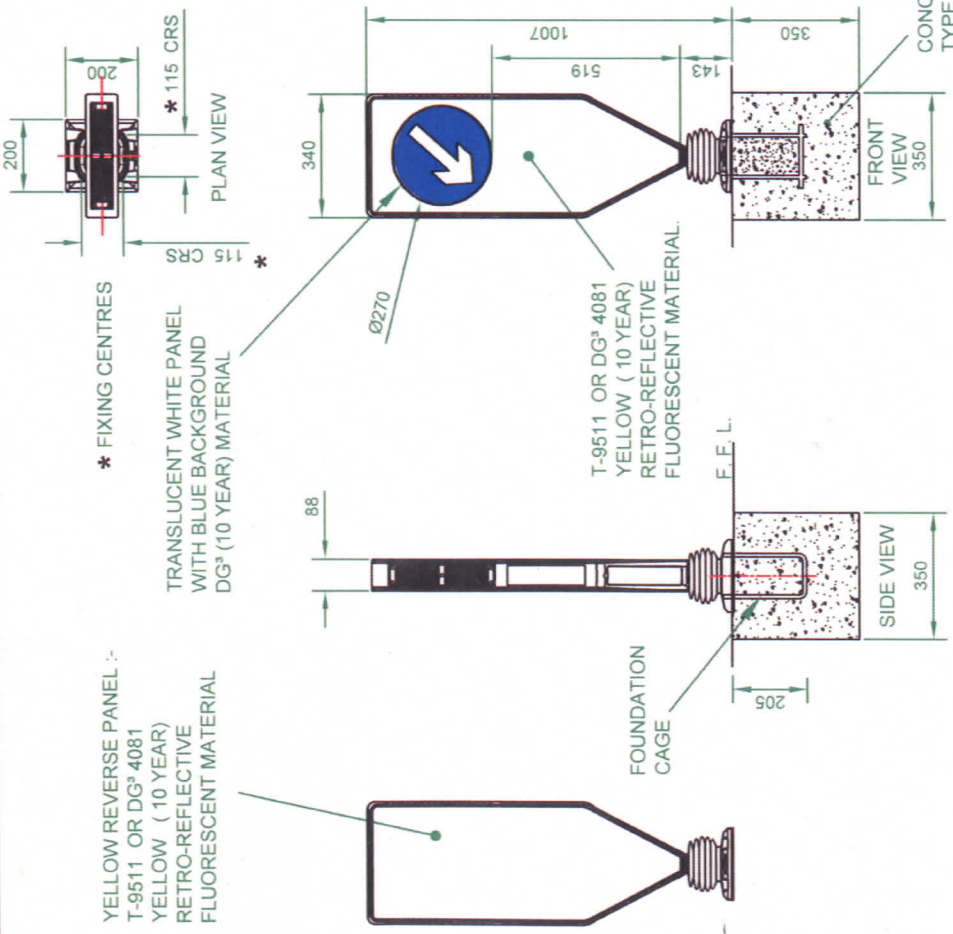


REVISION
/A FIRST ISSUE:
DDR 4.4: KR
12-01-11

/B OPTIONAL
RETRO-REFLECTIVE
DISCS DEL: DDR
4.4: 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.



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

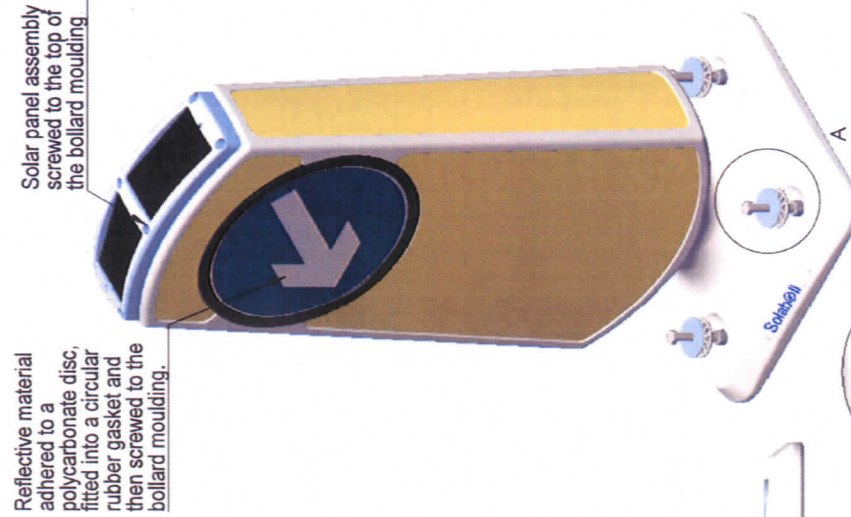
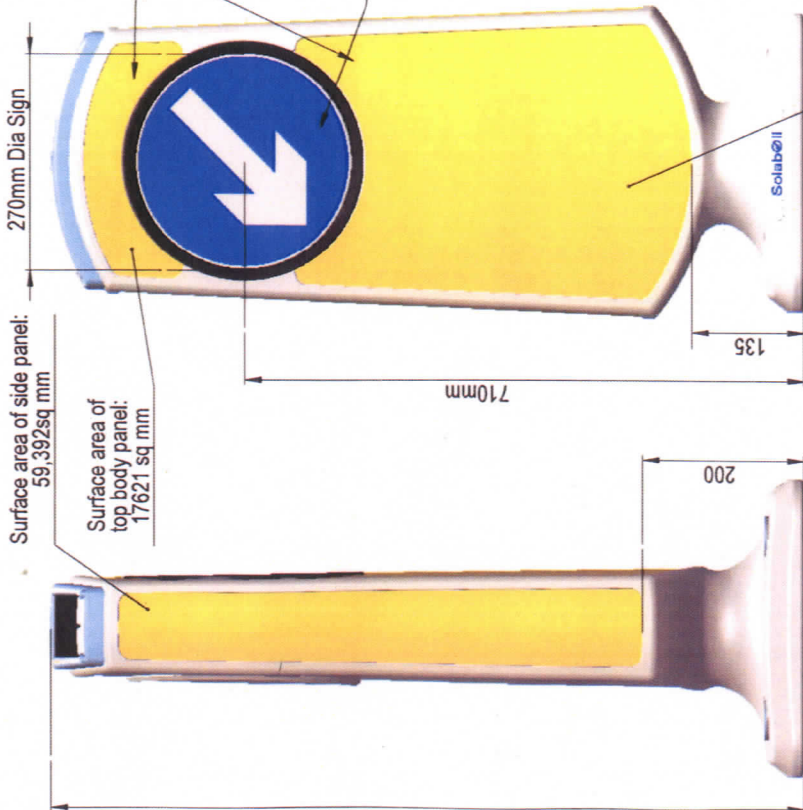
QA FORM No. PG20c Iss 2	TOLERANCE +/- 0.5mm	MATERIAL -	DRN BY K. RAM	CHKD BY N/A	APPROVED BY & DATE L6132B 12-01-11	FILENAME L6132B	DATE 12-01-11	SCALE N.T.S.
STOCK No.	ANGULAR TOLERANCE ± 1°	SPECIFICATION -	OWNER Signature Ltd SIGNATURE HOUSE THORNTON ROAD BROOKFIELD OLD BURRY 0121 557 0234	TITLE LAYOUT - LED SOLAR ILLUMINATED TRUEFLEX BOLLARD WITH FOUNDATION CAGE SPECIFICATION	DWG. No. L6132	REVISION B	SHEET 1 OF 1	
	ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.	FINISH -						

Title

Solaboll Traffic Bollard Assembly Specification

Part No. 920008500-21

Drig Issue A



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

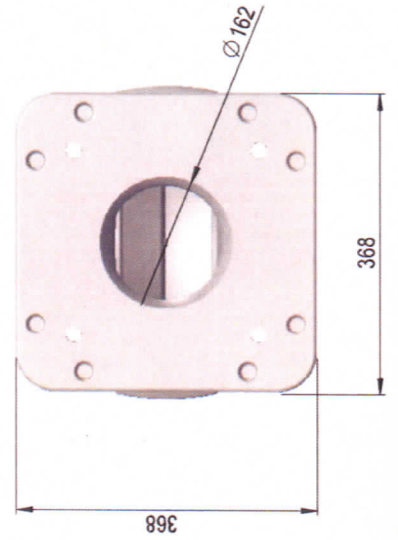
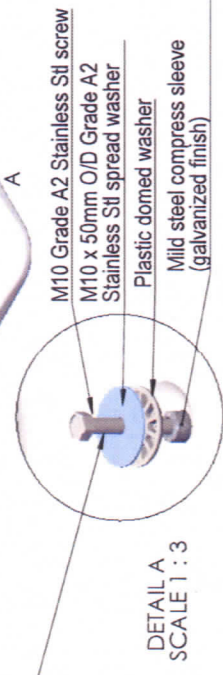
Designed to conform to:
BS 8442:2006 Section 14.

- 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



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NOTES:
All dimensions in mm
Remove all burrs and sharp edges

FINISH:

TOLERANCES UNLESS OTHERWISE STATED
0.00 = +0.15
0.0 = +0.30
Whole No's +0.50

MATERIAL:

SPEC:

Scale

Date Drawn 25/11/10

Checked By BD

Drawn By BD

THIRD ANGLE PROJECTION

Pudsey Diamond Engineering Ltd

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

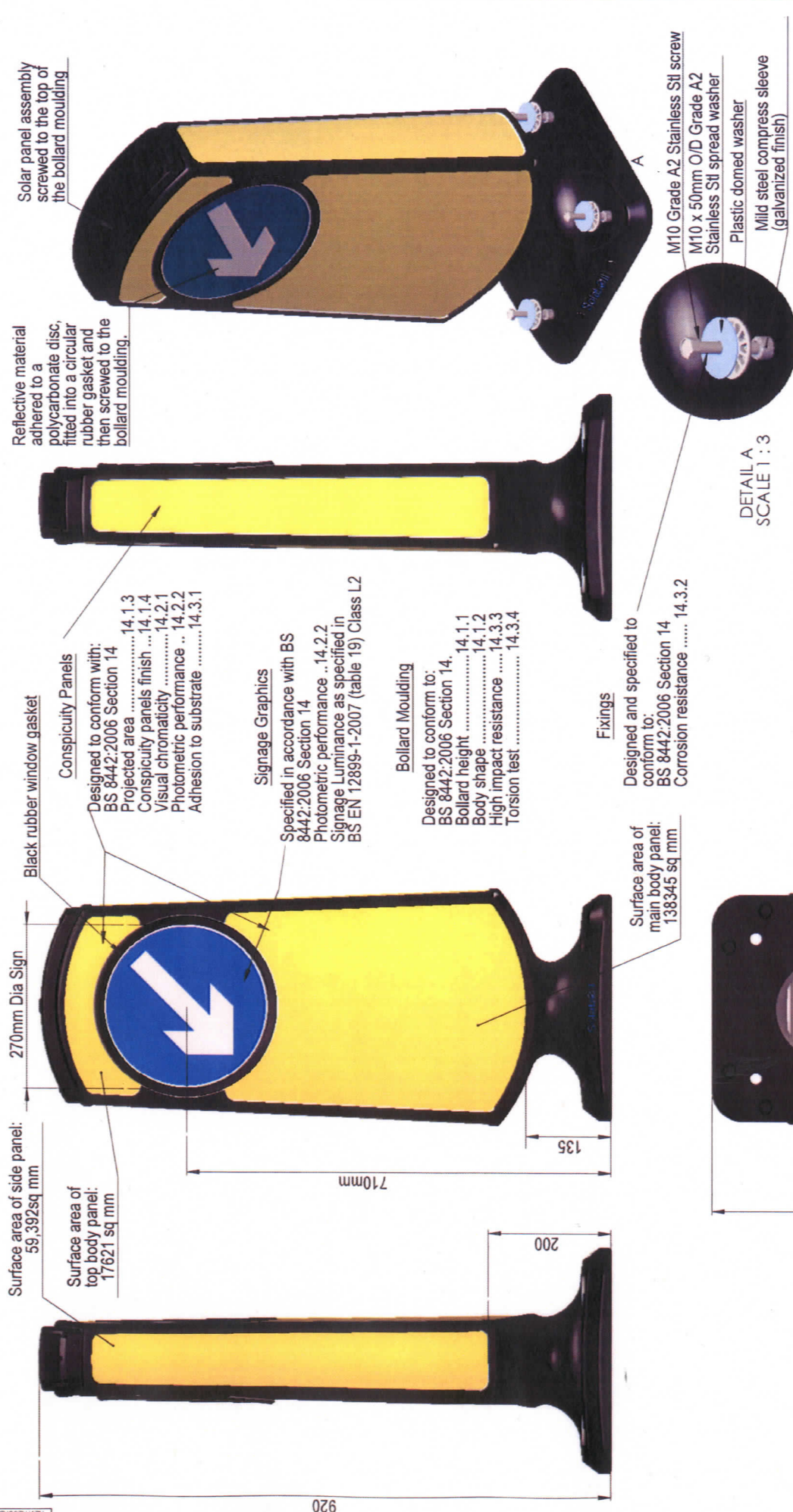
Solaboll Traffic Bollard Assembly Specification

Drawing Number 92008500-21

Part No.

Drq Issue B

Title



Surface area of side panel: 59,392sq mm
 Surface area of top body panel: 17621 sq mm

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

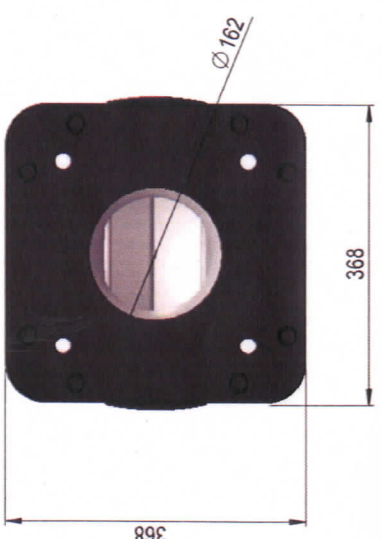
Signage Graphics
 Specified in accordance with BS 8442:2006 Section 14
 Photometric performance .. 14.2.2
 Signage Luminance as specified in BS EN 12899-1:2007 (table 19) Class L2

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

Surface area of main body panel: 138345 sq mm

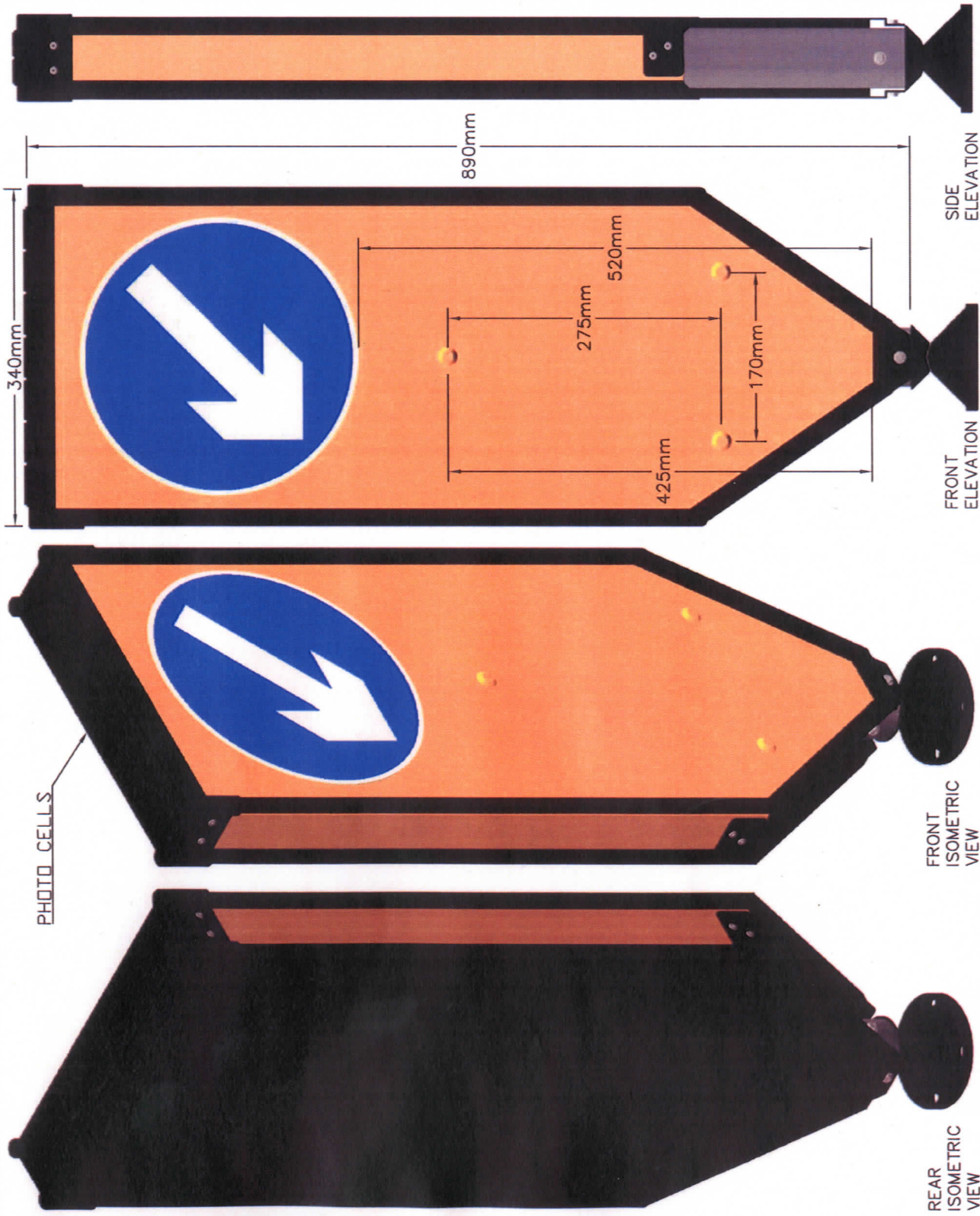
DETAIL A
 SCALE 1 : 3



NOTES: All dimensions in mm Remove all burrs and sharp edges FINISH:		TOLERANCES UNLESS OTHERWISE STATED 0.00 = +0.15 0.0 = +0.30 Whole No's +0.50
MATERIAL:		SPEC:
Drawn By BD	Checked By BD	Date Drawn 25/11/10
Scale		THIRD ANGLE PROJECTION

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Pudsey Diamond Engineering Ltd
 Tel :- 01264 336677 Fax:- 01264 336688
 E-mail :- sales@pudseydiamond.com



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 ROUND EL AT
 280mm DIAMETER

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

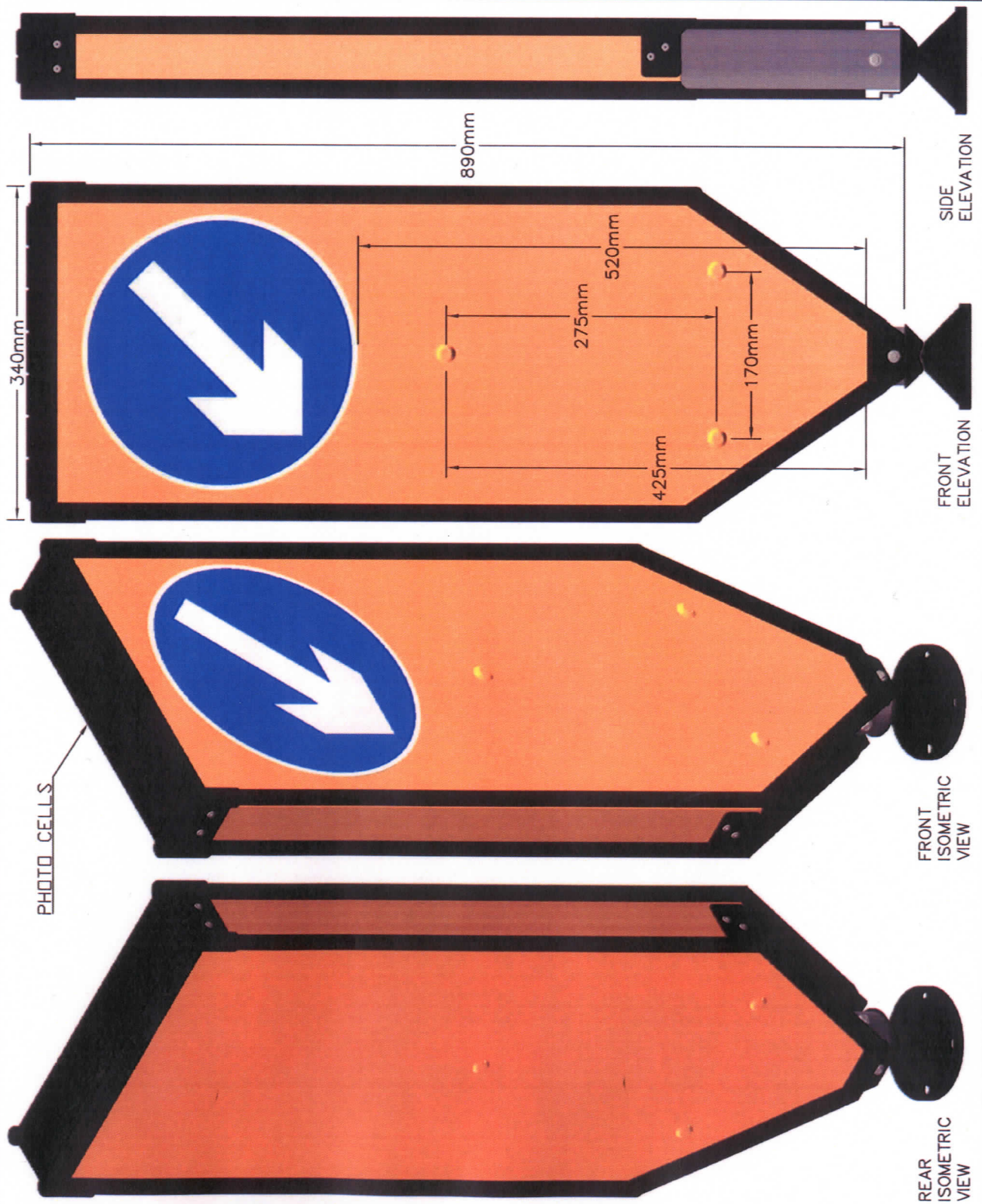
FACING DIMENSIONS:
 WIDTH: 300mm
 HEIGHT: 809.5mm
 AREA: 0.243sq.m

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	± 1.0mm
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	