

# FOREST CITY

Park Road,  
Timperley,  
Altrincham,  
Cheshire,  
WA14 5QX  
Sales Tel: 0161 972 0245  
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Web: [www.forestcitysigns.com](http://www.forestcitysigns.com)  
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BS EN ISO9001 – Certificate No. 1376

**INNOVATION AND PERFORMANCE SINCE 1902**

**THE FOREST CITY SIGNS LTD. THE FOREST CITY ELECTRIC CO. LTD. FOREST CITY PLANT HIRE LTD.**

# PART 2

# Internally Illuminated Signs

A FULL RANGE UP TO 800mm(72") IN SIZE RECTANGULAR, CIRCULAR, TRIANGULAR AND DOUBLE SIDED

- **WEATHERPROOFING**

Although design is inherently weatherproof, gasket is provided between face and rim.

- **RUSTPROOFING**

Main construction is rust proof fibreglass. Rim screws stainless steel. Other exposed small metal parts rustproofed by plating.

- **ENERGY SAVING**

Energy saving versions are now available using 8 watt or 13 watt tubes. The new Forest City GRP process gives greater light transmission through the face and allows a reduction in wattage whilst still providing the required illumination level.

- **LIGHTING**

FLUORESCENT ILLUMINATION by tubes in PARALLEL so sign remains lit if one tube or gear set fails. Lighting mounted on tray(s) with PLUG AND SOCKET connection with FUSE, POWER FACTOR CORRECTION capacitor fitted.

- **PHOTO-CELL SWITCHING**

All signs may be fitted with PHOTO-CELL for AUTOMATIC night switch-on.

- **WINDOW FOR PLATE ILLUMINATION**

A window may be fitted in sign base for illumination of a plate below.

- **FACE**

Vandal Resistant Fibreglass (Polycarbonate also available).

- **MOUNTING**

SINGLE-SIDED fitted with uniclips for back post mounting as standard. Top of post Socket Mounting if specified on order. DOUBLE-SIDED fitted with socket for top of post mounting.

- **OFFSET MOUNTING**

STANDARD ARRANGEMENT is with square section tubular offset arms. For HEAVIER DUTY, an offset STUB POST is used. On RECTANGULAR OR CIRCULAR Signs, unclip may be fastened to edge of body to bring sign edge level with post.



**FORESTCITY**  
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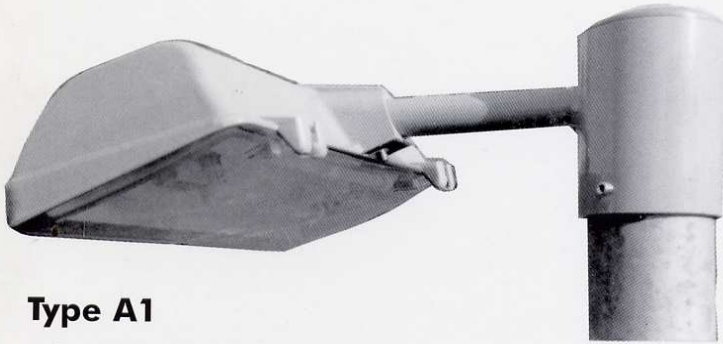
The Forest City Sign Ltd  
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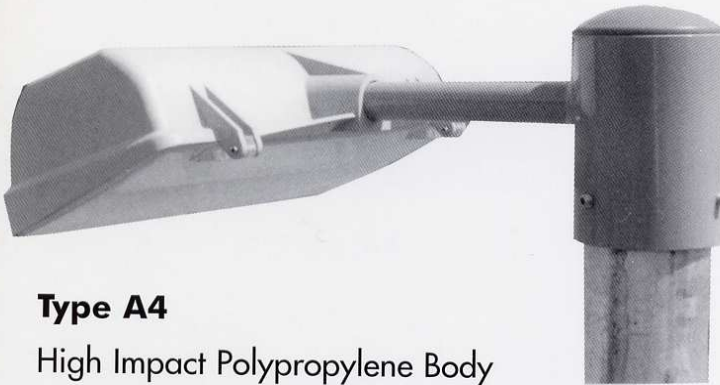
# ROAD SIGN LIGHTING

## Type A

twin 8 watt fluorescent  
or twin 11 watt P11 fluorescent



**Type A1**  
Aluminium Body



**Type A4**  
High Impact Polypropylene Body

### Type A1 – Ref LA128 - Aluminium Body

- To illuminate 900mm x 900mm wide (36 x 36in).
- Die cast aluminium body, polyester coated.
- Key fastening.
- Hinged window in vandal resistant material.
- Twin lighting circuit with double fusing.
- Integral power factor correction.
- Anti-rotation device on outreach arm.
- Post top socket or clip mounting.
- Overall length 360mm (14in).

### Type A3 – Ref LA328 - Aluminium Body and bezel!

- Specification and design as type A1 but with aluminium bezel and flat window.

### Type A4 – Ref LA428 - Polypropylene Body

- Specification and design as type A1 but with body manufactured from high impact talc filled polypropylene

## “LONG LIFE” OPTION

### UP TO 4 YEARS WITHOUT A LAMP CHANGE? YES IT'S TRUE

The Latest FOREST CITY Sign Light Option (Patent applied for ) uses 2-P11 Compact Fluorescents. One P11 is normally illuminated and when this fails the second one is automatically switched into operation. One P11 Gives more light output than 2 - 8 watt tubes and is comparable in power consumption to 1 - 8 watt tube because of lower gear losses.

With PHOTOCCELL CONTROL this system will give up to 4 years operation without a lamp change. The use of 2 - P11 lamps also satisfies the requirement that a sign light should have dual lamp circuits.

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## Type B Twin 8 watt fluorescent – with Specular Reflector

To illuminate 1300mm x 1500mm wide (54in x 60in). Press moulded high impact styrene body  
Hinged lower frame. Vandal resistant window.

### Key Fastening

Overall length 750mm (30in). Removable Tray with plug/socket. Twin lighting circuit with double fusing. Hinged specular reflector. Integral power factor correction. Post top socket or bracket mounting.

### Type C – Single 30 watt Ref LC1230

Illuminates 1500mm high x 1800mm wide (60in x 72in). Overall length 1270mm (50in).

### Type D – Twin 20 watt Ref LD1220

Illuminates 1500mm high x 1500mm wide (60in x 60in). Overall length 760mm (30in).

### Type E – Single 40 watt Ref LE1140

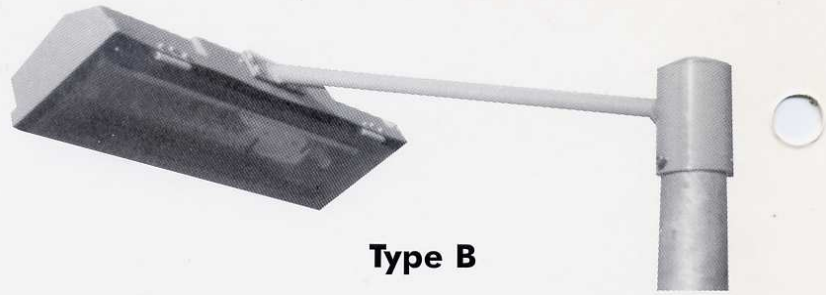
Illuminates 2400mm high x 2400mm wide (84in x 84in). Overall length 1270mm (50in).

### Type E1 – Twin 40 watt Ref LE11240

Illuminates 2400mm high x 2400mm wide (84in x 84in). Overall length 760mm (30in).

### Energy Saving

Photo cell switching – all units may be automatically switched by integral photo cell.



Type B

## Type B2 – twin 8 watt Ref LB228

- To illuminate 1300mm high x 1500mm wide (54in x 60in).
- Pressed aluminium body, polyester coated.
- Access through removable end plate.
- Specular Reflector/Gear tray slides out.
- Integral power factor correction.
- Twin lighting circuit with double fusing.
- Post top socket or clip mounting.
- Vandal resistant window.
- Overall length 660mm (26in).



Type B2

## Type D2 – twin 20 watt Ref LB2220

- To illuminate 1500mm high x 1500mm wide (60in x 60in).
- Length 660mm (26in).

## Type E12 – twin 40 watt Ref LB12240

- To illuminate 2400mm high x 2400mm wide (84in x 84in).
- Length 660mm (26in).

**Type B3** – As type B2 but with hinged window for interior access

Ref LB328

**Type D3** – As type D2 but with hinged window for interior access

Ref LB3218

**Type E13** – As type E12 but with hinged window for interior access

Ref LB13240

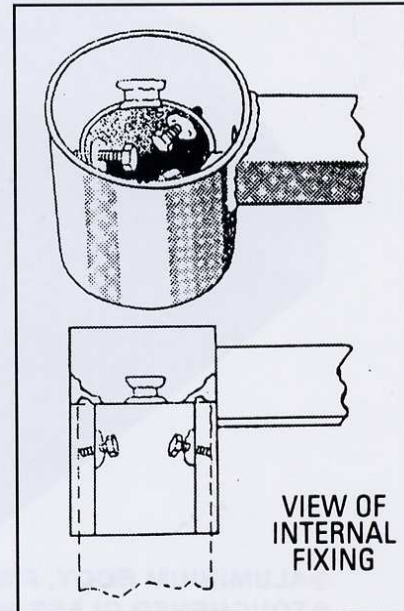
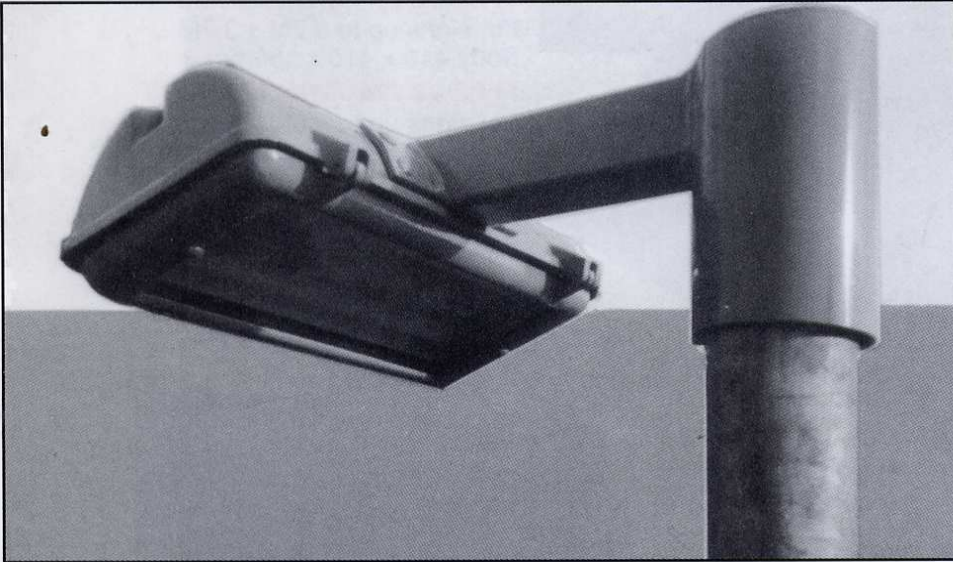
### FULL PHOTOMETRIC DATA SHEETS ARE AVAILABLE

TYPE	NOMINAL WIDTH OF SIGN									NOMINAL HEIGHT OF SIGN	
	METRES	1.0	2.0	3.0	4.0	5.0	6.0			FEET	METRES
	FEET	2'6"	5'0"	7'6"	10'0"	12'6"	15'0"	17'6"	20'0"		
A1, A3 or A4	1	2	3	4	5	6	7			2'6"	0.76
B or B2	1		2		3		4			4'6"	1.37
D or D2	1		2		3		4			5'0"	1.52
E, E1 or E1/2	1			2			3			7'0"	2.13
J2.50	1				2					10'0"	3.05
K2.80	1					2				12'0"	3.66
K2.125	1									15'0"	4.57
K2.250	1									20'0"	6.10
K2.400	1									23'0"	7.01

# The 'VANDALGUARD'

## Super Vandal Resistant 2x8 watt

# TYPE 'A' LIGHT UNIT



- HEAVY DIE CAST ALUMINIUM BODY & BEZEL
- 5mm THICK VANDAL RESISTANT WINDOW
- HEAVY DUTY 'ANTI-WINDMILLING' OUTREACH ARM WITH 2 INTERNAL FIXING
- 'ANTI-ROTATION' POST TOP SOCKET WITH EXTRA INTERNAL FIXINGS
- POLYESTER COATED
- KEY OPERATED CLOSURE
- PHOTO-CELL SWITCHING OPTION
- 2 X 8 Watt (PRODUCT No LA528) OR 2 X P11 (PRODUCT No LA5211) TUBES
- 'LONG LIFE' OPTION (NOMINAL 4 YEARS BETWEEN LAMP CHANGES. SEE SEPARATE LEAFLET)

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# TWIN MERCURY LIGHT UNITS

Type J2.50



## OVERHEAD ILLUMINATION

### TYPE J2.50 TWIN 50 WATT

For signs up to 3.1M x 3.1M  
Body 410 x 410 x 150mm

### TYPE J2.80 TWIN 80 WATT

For signs up to 3.7M x 3.7M  
Body 410 x 410 x 150mm

### TYPE J2.125 TWIN 125 WATT

For signs up to 4.6M x 4.6M  
Body 410 x 410 x 150mm

### TYPE J2.250 TWIN 250 WATT

For signs up to 6.1M x 6.1M  
Body 760 x 530 x 350mm

### TYPE J2.400 TWIN 400 WATT

For signs up to 7.0M x 7.0M  
Body 760 x 530 x 250mm

- ALUMINIUM BODY, FINISHED POLYESTER GREY
- TOUGHENED GLASS WINDOW
- HINGED COVER
- HINGED HIGH EFFICIENCY ANODISED ALUMINIUM REFLECTOR
- INDEPENDENT LAMP CIRCUITS
- ALL GEAR MOUNTED IN THE LAMP BODY
- OUTREACH ARM WITH CLIPS OR POLE TOP SOCKET
- ADJUSTABLE SIDE ARM FIXING AS ALTERNATIVE



## TWIN MERCURY LIGHT UNITS

### GROUND MOUNTED UPWARD ILLUMINATION

#### TYPE K2.80 TWIN 80 WATT

For signs up to 3.7M x 3.7M  
Body 480 x 355 x 180mm

#### TYPE K2.125 TWIN 125 WATT

For signs up to 4.6M x 4.6M  
Body 480 x 355 x 180mm

#### TYPE K2.250 TWIN 250 WATT

For signs up to 6.1M x 6.1M  
Body 760 x 530 x 250mm

#### TYPE K2.400 TWIN 400 WATT

For signs up to 7.0M x 7.0M  
Body 760 x 530 x 250mm

- ANTI-VANDAL MESH OPTION
- DUAL POWER SUPPLY OPTION



Type K2,  
fitted with  
Anti-Vandal  
Mesh

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# Reflective and Non-Reflective Road Signs

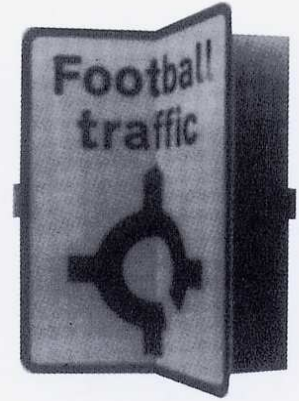
- Manufactured to Department of Transport, Welsh Office and Scottish Office requirements.
- High quality reflective material of all grades on aluminium panel with reinforcing frame if required.
- Full range of lighting units, fastenings and posts (see separate leaflets).
- "Bolhoff" Rivetting System for fixing panels, provides that the reflective face is not pierced.
- Arwyddion dwy ieithol. Bi-lingual signs.



Individually designed  
Direction Signs



Standard Signs  
Reflective or illuminated



Typical alternative Route  
Sign with hinged panel

## Boundary Signs



- Multicoloured customer crest
- Reflective or non-reflective



## Crests and Badges



- Self adhesive or heat applied
- Multicolour to customer's artwork
- Reflective or non-reflective
- Any quantity or size

## Arwyddion Traffig yn Gymraeg



- Pob math o arwyddion. Cymraeg a dwym ieithol

# Sign Mounting Posts

## Straight Posts

- Standard diameters 60mm (2<sup>3</sup>/<sub>8</sub>" ), 76mm (3"), 90mm (3<sup>1</sup>/<sub>2</sub>" ), 115mm (4<sup>1</sup>/<sub>2</sub>" ), 140mm (5<sup>1</sup>/<sub>2</sub>" ), 168mm (6<sup>5</sup>/<sub>8</sub>" ).
- Other diameters and rectangular section available.
- Plastic coated or galvanised and painted.
- "Clip-on" baseplate

## Large Base Posts

- Large Base Post with base compartment for electrical gear. Base diameter 140mm (5<sup>1</sup>/<sub>2</sub>" ) or 168mm (6<sup>5</sup>/<sub>8</sub>" ).
- Extension post diameter 60mm (2<sup>3</sup>/<sub>8</sub>" ), 76mm (3"), 115mm (4<sup>1</sup>/<sub>2</sub>" ), 140mm (5<sup>1</sup>/<sub>2</sub>" ).
- Standard overall length of base 1370mm (54"), planting depth 600mm (24"). Other base length as required.
- Standard door aperture 395mm x 110mm (15<sup>1</sup>/<sub>2</sub>" x 4<sup>1</sup>/<sub>4</sub>" ).
- Fitted with locking door, earth stud, wooden panel.

## Adaptapost

Base unit for customer to cut and fit own upper extension post in yard or on site.

- Positive weatherproof joint without use of adhesive or gaskets.
- Upper extension tube secured by internal screw fixing inside door. No drilling or other work required on base or extension tube.
- Base section and upper extension tube supplied separately.
- 168mm (6<sup>5</sup>/<sub>8</sub>" ) o.d. base, 1370mm (54") overall, to accept 76mm (3") o.d. extension tube. Complete with wooden panel. Triangular head brass/nylon lock.

## Finish

- To all specifications available, but standard stock is hot dip galvanised.



Adaptapost

Straight Post  
with Base Plate

Root Box

Large Base  
Post

**N.B. Dimensions may change from time to time. Check with sales office for current information**

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We are pleased to offer what we believe to be the first NO-COST sign design service.

Discretion and a speedy efficient service is guaranteed.

No premium to the standard manufacturing cost will be added.

FOREST CITY will design any sign in accordance with the current requirements of B.S.873 and the latest sign information available.

The signs will be designed using Autosign 14 and the designs can be supplied in Hard copy or IBM Disk format.

We will utilise your standard letter heads to enable the scheme to go out for competitive tendering and to all intents and purposes any third party would recognise the designs as your own.

To enable us to design the signs effectively we require the following information:

Basic sign face layouts.

Road classification and speeds to calculate suitable Xht of legends and stroke widths of symbols.

Initially we will make a nominal charge for the designs which will be credited in FULL if we receive the order to manufacture the signs.

The charge for designs will be on a hourly basis of £30.00 per hour, or alternatively if you forward a specific scheme we will provide you with a fixed price quotation.

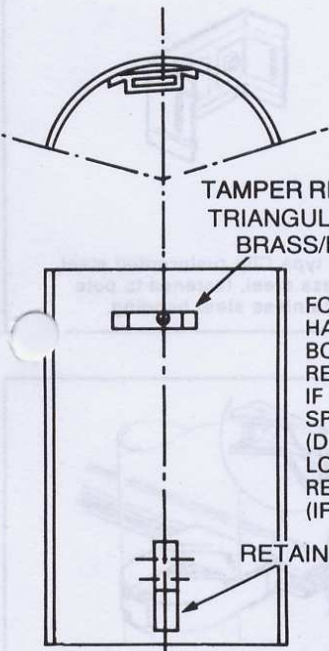
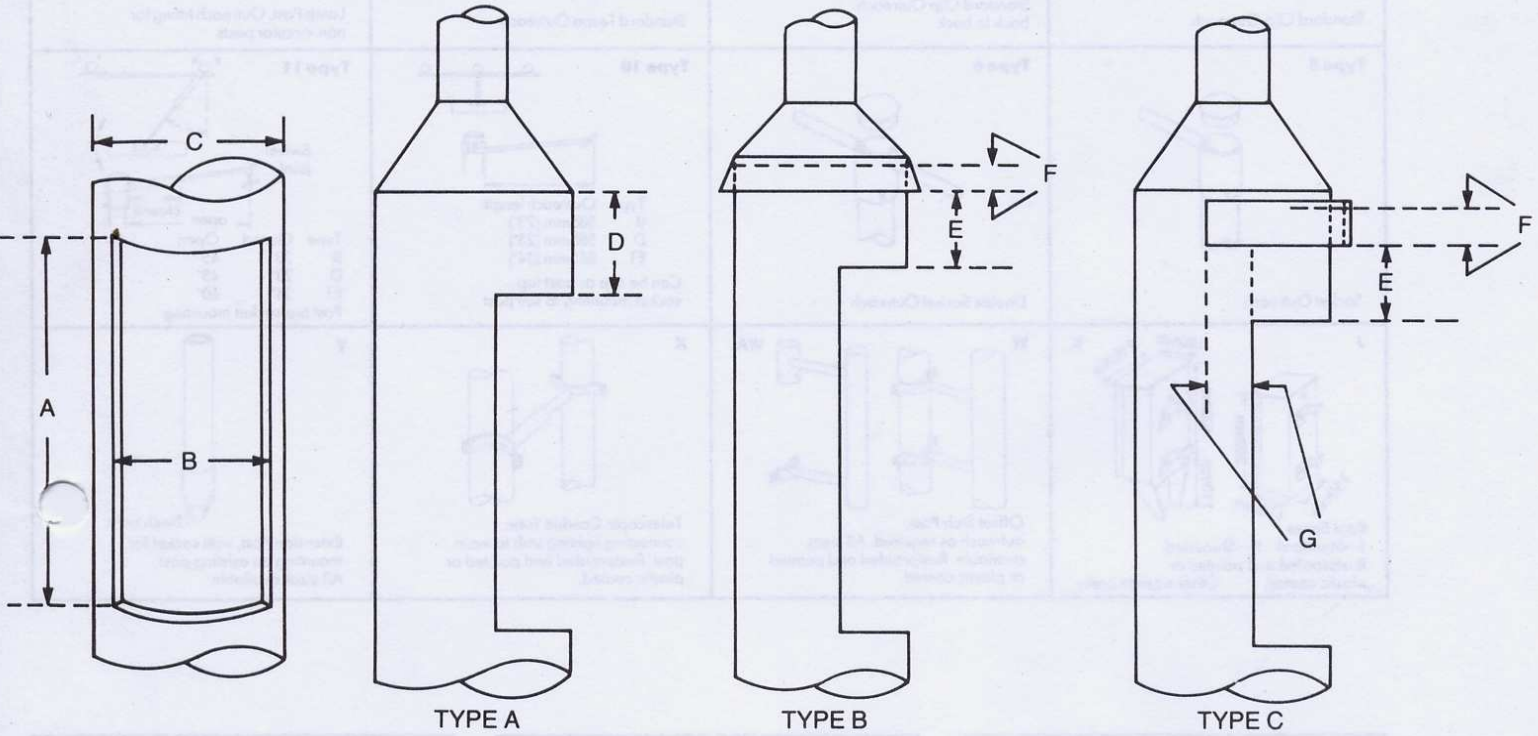
When the enquiry to manufacture the signs is received we will forward our most competitive rates and the original sign design charge as a discount.

For further details contact our sales team on 0161 973 7089.

# REPLACEMENT POLE DOORS

FOR ALMOST ANY TYPE OF LARGE BASE POLE

PHOTOCOPY THIS LEAFLET, FILL IN DIMENSIONS AND RETURN IT TO FOREST CITY



FOREST CITY DOORS HAVE LOCK AT BOTTOM AND NO RETAINING STRAP. IF NOT FOREST CITY SPECIFY POSITION (DIMENSIONS) OF LOCK AND RETAINING STRAP(S) (IF FITTED).

FINISH – ZINC PLATE, PASSIVATE AND POLYESTER COAT GREY

DIMENSIONS REQUIRED		ORDER ITEM No. 1	ORDER ITEM No. 2	ORDER ITEM No. 3	ORDER ITEM No. 4
A	LENGTH OF APERTURE				
B	WIDTH OF APERTURE (STRAIGHT ACROSS)				
C	OUTSIDE DIAMETER OF BASE SECTION				
D	DISTANCE FROM TOP OF APERTURE TO BASE OF CONE (WHERE NO WEATHER STRIP IS FITTED)				
E	DISTANCE FROM TOP OF APERTURE TO BASE OF CONE (WHEN CONE – OVERHANGS BASE SECTION, TO ALLOW TOP OF DOOR TO FIT UNDERNEATH)				
F	DISTANCE THE TOP OF DOOR FITS UNDER CONE OR WEATHER STRIP				
G	DISTANCE THE WEATHER STRIP (WHERE FITTED) EXTENDS BEYOND SIDE OF APERTURE				
H	TYPE A, B OR C				

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# POST FITTINGS

<p><b>Type 1</b></p> <p>Cable Entry Hole Tube 26mm dia. 175mm 50mm</p> <p>Standard Clip Outreach</p>	<p><b>Type 2</b></p> <p>Standard Clip Outreach back to back</p>	<p><b>Type 3A</b></p> <p>Standard Tespa Outreach</p>	<p><b>Type 4</b></p> <p>Pinch bolts</p> <p>Lamp Post, Outreach fitting for non-circular posts</p>												
<p><b>Type 5</b></p> <p>Socket Outreach</p>	<p><b>Type 6</b></p> <p>Double Socket Outreach</p>	<p><b>Type 10</b></p> <p>Outreach length Type B 585mm (23") D 585mm (23") E1 865mm (34")</p> <p>Can be clip or post top socket mounting to suit post</p>	<p><b>Type 11</b></p> <p>Swivel joint</p> <table border="1"> <tr> <td>Type</td> <td>Closed</td> <td>Open</td> </tr> <tr> <td>B</td> <td>23"</td> <td>45"</td> </tr> <tr> <td>D</td> <td>23"</td> <td>45"</td> </tr> <tr> <td>E1</td> <td>34"</td> <td>60"</td> </tr> </table> <p>Post top socket mounting</p>	Type	Closed	Open	B	23"	45"	D	23"	45"	E1	34"	60"
Type	Closed	Open													
B	23"	45"													
D	23"	45"													
E1	34"	60"													
<p><b>J</b></p> <p>160mm 210mm 400mm 390mm 150mm 110mm 110mm</p> <p>Root Boxes J—Standard K—Shrouded Rustproofed and painted or plastic coated. Other sizes to order.</p>	<p><b>W</b></p> <p>Offset Stub Post, outreach as required. All sizes available. Rustproofed and painted or plastic coated.</p>	<p><b>X</b></p> <p>Telescopic Conduit Tube, connecting lighting stub to main post. Rustproofed and painted or plastic coated.</p>	<p><b>Y</b></p> <p>Pinch bolts</p> <p>Extension Post, with socket for mounting on existing post. All sizes available.</p>												

# UNICLIPS

Ledge Clip, rustproofed steel, plastic coated steel or stainless steel. All sizes.

Uniclip, rustproofed steel, plastic coated steel or stainless steel. All sizes.

Tespa type Clip, rustproofed steel, stainless steel, fastened to pole with stainless steel banding.

# SIGNFIX TYPE CLIPS Stainless Steel

1 Channel clips for round posts—All sizes.

2 Back-to-back channel clips—All sizes.

4 Universal channel clamp for posts of any size or shape. Up to 19mm (3/4") stainless steel band.

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# SAFER PEDESTRIAN CROSSING THE 'ZEBRASAFE'

PATENT  
APPLIED  
FOR

## INTERNALLY ILLUMINATED POST NEW VANDAL RESISTANT DESIGN

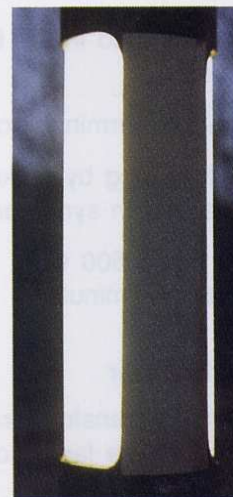
- Full length steel post with illumination apertures for white bands with vandal resistant polythene windows.
- Vandal Resistant translucent polythene inner tube 100mm o.d.
- Illumination by fluorescent tubes (1200mm 40w or 1800mm 75w) giving 12,000hrs nominal life (compared with 5,000hrs for miniature fluorescent tube).
- Fluorescent gear, P.F. correction, fuse and flasher fitted in base of pole and 'Zebra-flash' flasher fitted in globe.
- Fitted with standard yellow globe, gallery and B.C. lampholder or 50w tungsten halogen lamp. Option of 9 watt compact fluorescent tube for white centre island globe.



THE ZEBRASAFE IN ACTION

### CONVERSION UNITS

- Illuminated section constructed from vandal resistant polythene tube on metal framework 100mm (4") O.D.
- Fluorescent tubes as above.
- Fitted with globe etc. as above.



VIEW OF ILLUMINATED  
BAND ON POLE



COMBINED INTERNALLY  
ILLUMINATED CENTRE  
ISLAND AND ZEBRASAFE

#### Two main Safety Features:

- Crossing more easily identified by drivers.
- The waiting pedestrian is illuminated by the emitted light.

COMPLETE POLES 600mm (24") PLANTING DEPTH		
TYPE	No. OF ILLUMINATED BANDS	OVERALL LENGTH
ZEBRA	2	2.8M
ZEBRA	3	3.2M
ZEBRA	4	3.8M
CENTRE ISLAND (GREY WHITE)	2	as specified by customer
Typically 4.71M overall minimum to meet regulations 3.81M above ground		

CONVERSION UNITS OR SPARES FOR EXISTING POLES		
TYPE	No. OF ILLUMINATED BANDS	OVERALL LENGTH
ZEBRA - C	2	1.2M (4' 0")
ZEBRA - B	3	1.52M (5' 0")
ZEBRA - A	4	2.13M (7' 0")
CENTRE ISLAND	2	1.2M (4' 0")

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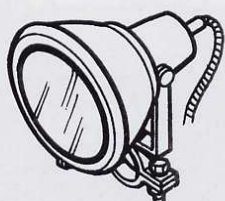
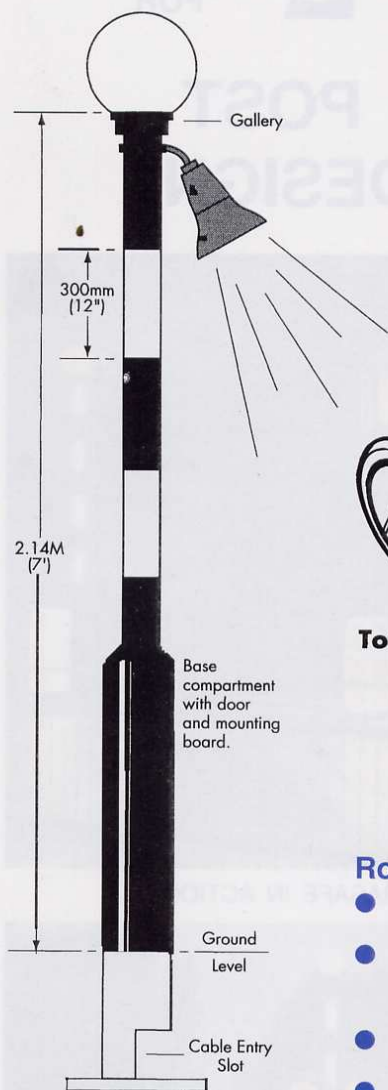
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# Pedestrian Crossing Equipment & Centre Island Columns



**Totally enclosed floodlight**

- **POST**

Large base steel post, rustproofed and painted black/white (grey/white for centre island).

**Zebra Post** – 2.6M (8' 6") overall, 450mm (18") planting.

**Centre Island Column** – usually 4.7M (15' 5") overall.

Minimum height above ground to meet regulations 3.8M (12' 5").

- **GLOBE**

300mm (12") dia One piece polythene moulding. Yellow (Zebra Crossing) or white (Centre Island).

- **GLOBE ILLUMINATION**

**Zebra Crossing** – B.C. Fitting for 60w Bulb or 50w

Tungsten Halogen Zebra-Flash (see below). **Centre Island**

**Column** – B.C. Bulb or Compact Fluorescent

(P11, Dulux 'S' etc.).

- **GALLERY**

Aluminium with drain holes and fixing screws.

B.C. Lampholder on anti-vibration mounting.

- **FLOODLIGHT**

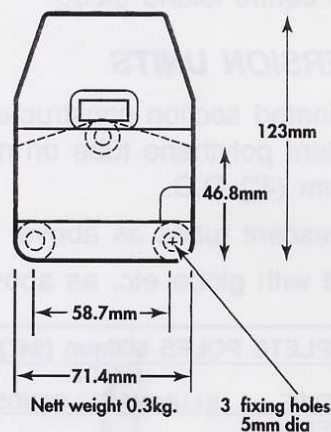
Totally enclosed type. Removable bezel and glass. B.C.

Lamp fitting for up to 150watt. Adjustable body. ALSO

SUITABLE FOR M.B.F.U. LAMP.

### Rotaflash Timer

- Complies with current D.o.T. requirements.
- Normally fitted in the base compartment of the pole.
- Plugs into terminal block.
- Synchronising by rocker switch, once set, will remain in synchronism.
- Max. rating 500 watt. 240 volt 50Hz. 48 flashes per minute.



### Zebra-Flash Tungsten Halogen Flasher

- Self-contained Flasher Unit/Electronic Transformer/Tungsten Halogen Lampholder with B.C. plug, plugs into the lamp socket in the globe/gallery.
- 50w Tungsten Halogen Lamp provides long life, particularly as the electronic circuit is provided with a "soft" start.
- Up to one year working life between lamp changes.
- Can be synchronised with other beacons which are using both the Rotaflash and the Zebra-Flash.

### Zebra-Flash Tungsten Halogen Converter

- To convert existing GLS Lighting to Tungsten Halogen where the flasher is already fitted in the base of the pole.
- Simply plugs into the existing BC lamp holder.
- "Soft Start" for maximum lamp life.



**ZEBRA-FLASH**



**Hinged "Centre Island Safe"  
IN ACTION**

The column retains all of the technical advantages of the 'Centre Island Safe' with the added flexibility of a hinged base section where required.



**Maintenance from ground level to help reduce maintenance costs.**

**Hinged Centre Island Safe/ Zebra crossing column also available.**

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# ELIMINATE LAMP CHANGES

## LED ILLUMINATED

## TWIN AMBER FLASHER

### RECHARGEABLE BATTERY OPTION

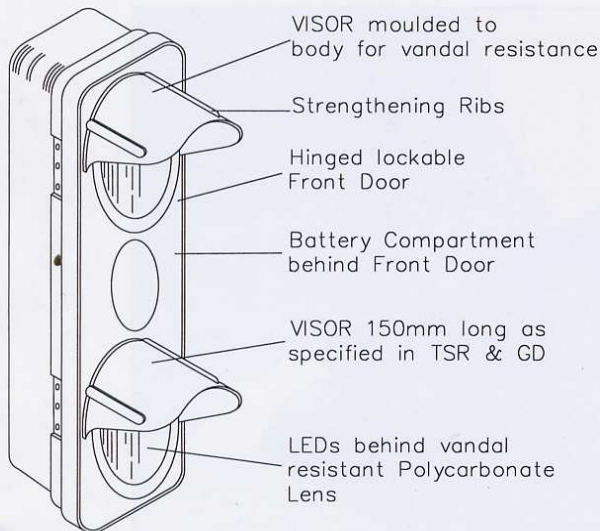
- **LED ILLUMINATION** - Provides a full term of typical use on one full charge of internal battery. Charger can also be supplied.
- **LED ASPECTS** - Give indefinite life in this application - No lamp changing required.
- **BODY** - Self coloured high impact styrene. Visor is part of the body moulding for Vandal Resistance and is the full 150mm length required in the TSR & GD.
- **ACCESS** - Hinged front, key closure.
- **FLASHER** - Reliable solid state.
- **LENS** - 150mm dia. vandal resistant.

### MAINS 230 VOLT LED OPTION

- **LED ILLUMINATION** - Powered by internal transformer from mains power supply.
- **"SWITCH-ON"** - options:-
  - Key switch on body or remote
  - Hand held radio control
  - Variable timer to operate at preset times
  - Magnetic actuator pen.

### MAINS 230 VOLT 60 WATT LAMP OPTION

- **ILLUMINATION** - 60 watt filament lamps (will also accept 100 watt).
- **REFLECTORS AND LENSES** - To maximise light output



## School crossing patrol sign

- Double sided fluorescent/reflective sign face as D.Tp. circular "Roads 41/75".
- Rigid wooden pole with painted black/yellow bands.

# FORESTCITY

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BS EN ISO9001 - Certificate No. 1376

Details are correct at the time of printing and are for guidance only. For current information, particularly dimensions, check with sales office.