

FOREST CITY

Park Road,
Timperley,
Altrincham,
Cheshire,
WA14 5QX

Sales Tel: 0161 972 0245

Sales Fax: 0161 972 0255

Switchboard: 0161 969 0441

Web: www.forestcitysigns.com

E-Mail: forestcitysigns@compuserve.com



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 1

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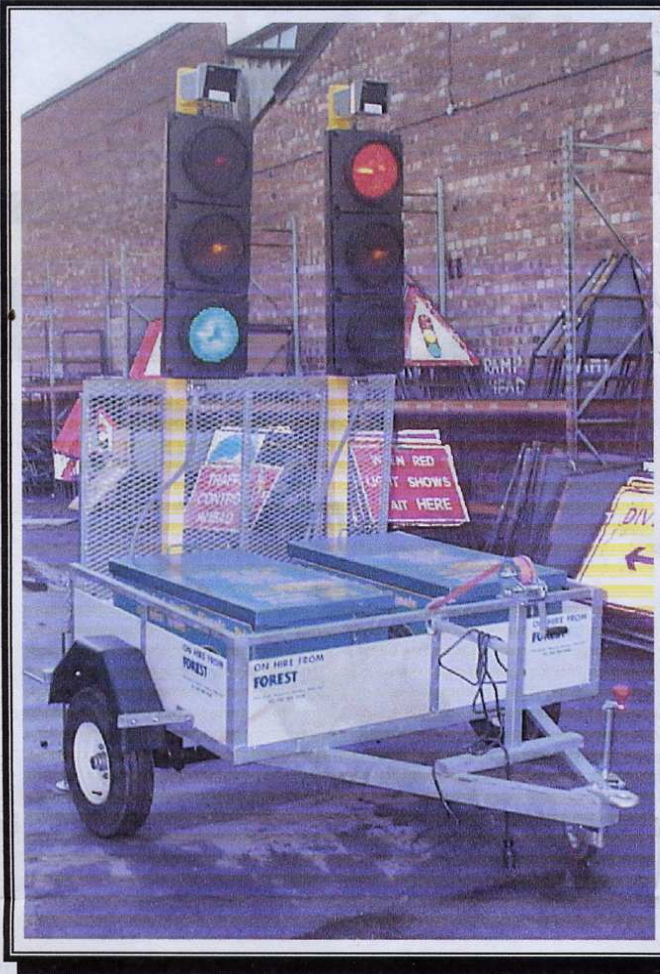


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Probably the most efficient Temporary Signal Installation System *EVER* !!!!!



Compact storage ready for transport

- Environmentally friendly - no noise - no pollution.
- Signal heads / controllers mounted on trolley for easy positioning on site by one man.
- Latest anti-phantom signal heads -No cowl required results in easier storage and less damage.
- A full 2 way set will fit in the rear of a transit van.
- Compact fast tow custom made trailer for easy transport to site.
- Trolley wheels easily removable for security.
- Easy to use channel selector on top of controller to allow quick and easy set up.
- Spare batteries and heavy duty charger available.



One man deployment of the Forest City Radio Link System

Deluxe Fast Tow Trailer

- 5' wide x 4' long.
- Galvanised Chassis.
- Full Road Lights.
- 40mm eye coupling.
- Winch & winch post.
- 43" High ramp tail gate.
- Jockey wheel.
- Plastic mudguards.
- Timber side panels.
- Payload 500kg.
- Gross weight 750kg unbraked.

FORESTCITY
INNOVATION AND PERFORMANCE SINCE 1902

Forest City Plant Hire Ltd,
Park Road, Timperley,
Altrincham, Cheshire WA14 5QX, England..
Tel: 0161 969 0448 Fax: 0161 976 4588

SAVE MONEY with new technology.

Battery Operated, Radio Linked Portable Traffic Signals.

- **No Cables**



Most chargeable call outs are caused by damaged cables at an average cost of £35.

- **No Generator**



The batteries last 5 days without re-charging.

Cost savings in fuel and cost savings in labour.

Most hires last 3 - 4 days, so no refuelling required.

- **Set up time reduced by an average of 80%**



Average set up time 10 minutes for these signals compared with 35 minutes for a generator powered cable linked set.

The signals can be repositioned within minutes.



- **Silent Running**



No annoying and time wasting complaints from the general public about noise.

Fully type approved to
Highways Agency
specification TR0111

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Combination Zebrasafe and Floodlight Column



Daylight view of Installation.



Night-time view showing the Zebrasafe Internally Illuminated Pole and the illumination of the crossing by overhead floodlight.

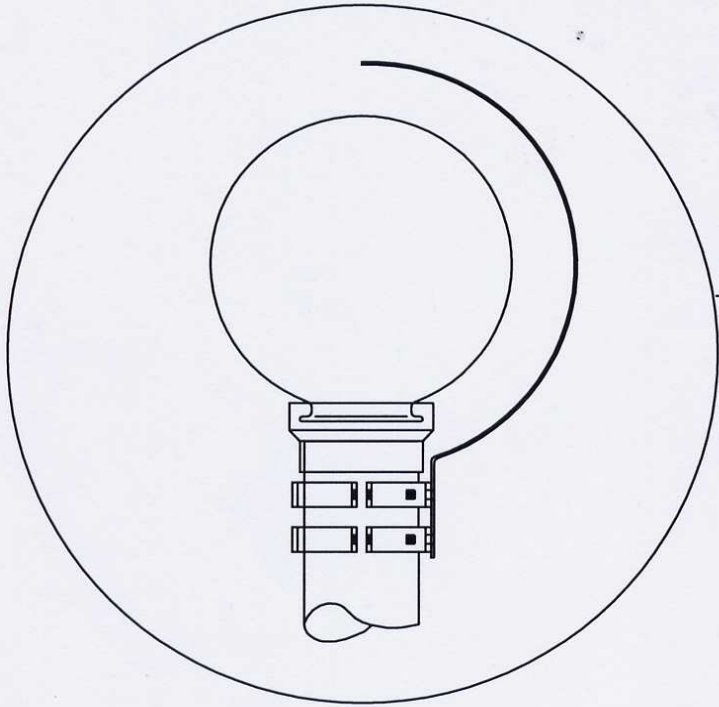
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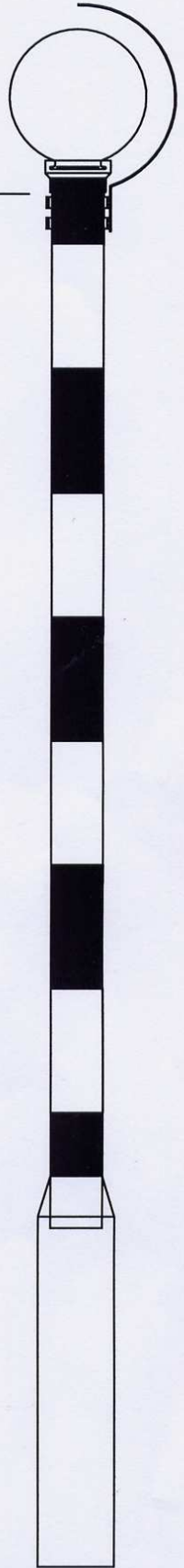


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HALF CIRCLE ANTIFLASH SHIELD



PREVENT INTRUSION BY FITTING THE FOREST CITY ANTIFLASH SHIELDS.



BLACK POLYESTER FINISH

400

410

SEPERATE FIXINGS FOR 76mm & 114mm POSTS
(SPECIFY AT ORDER POINT)

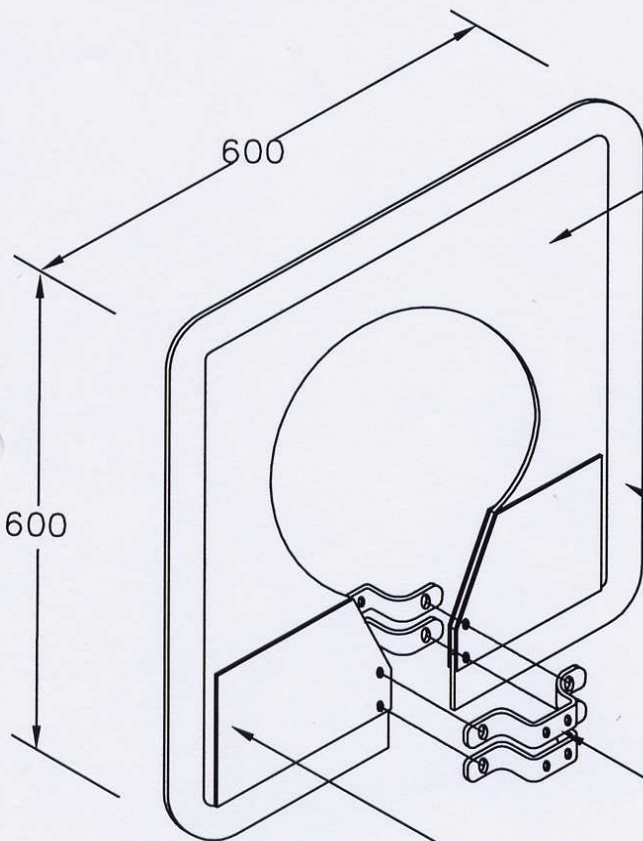
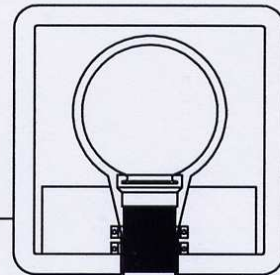
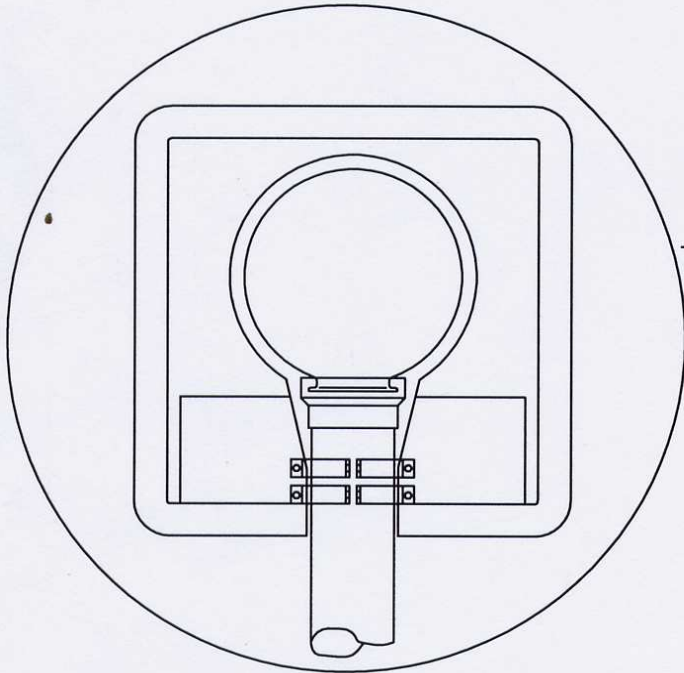
PRODUCT IN ACTION

FOREST CITY

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HALO BOARD

"HALO" BOARD
WILL ENHANCE THE
VISABILITY OF THE
YELLOW GLOBE



600

600

BLACK POLYESTER
FINISH

45mm WIDE WHITE
NON REFLECTIVE
BORDER

REINFORCING PLATES
(BOTH SIDES)

SEPERATE FIXINGS
FOR 76mm & 114mm
POSTS
(SPECIFY AT ORDER POINT)

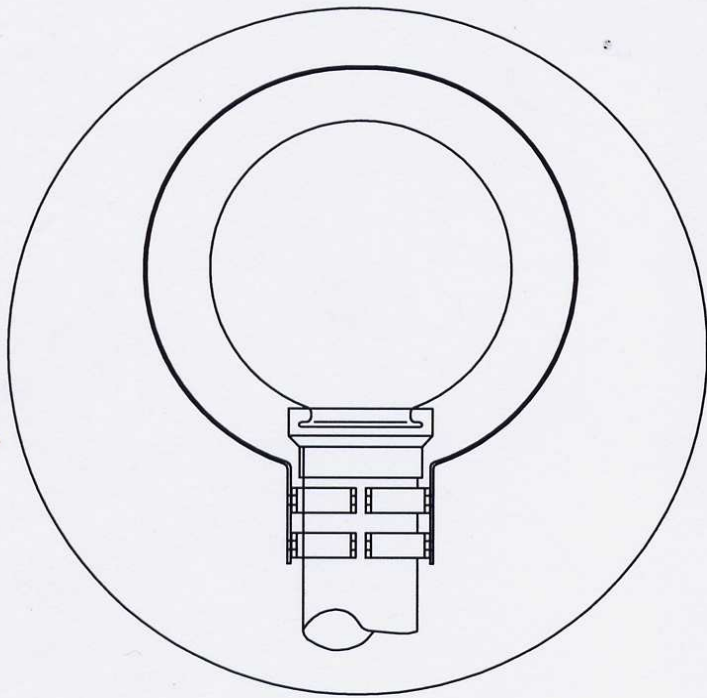


PRODUCT
IN ACTION

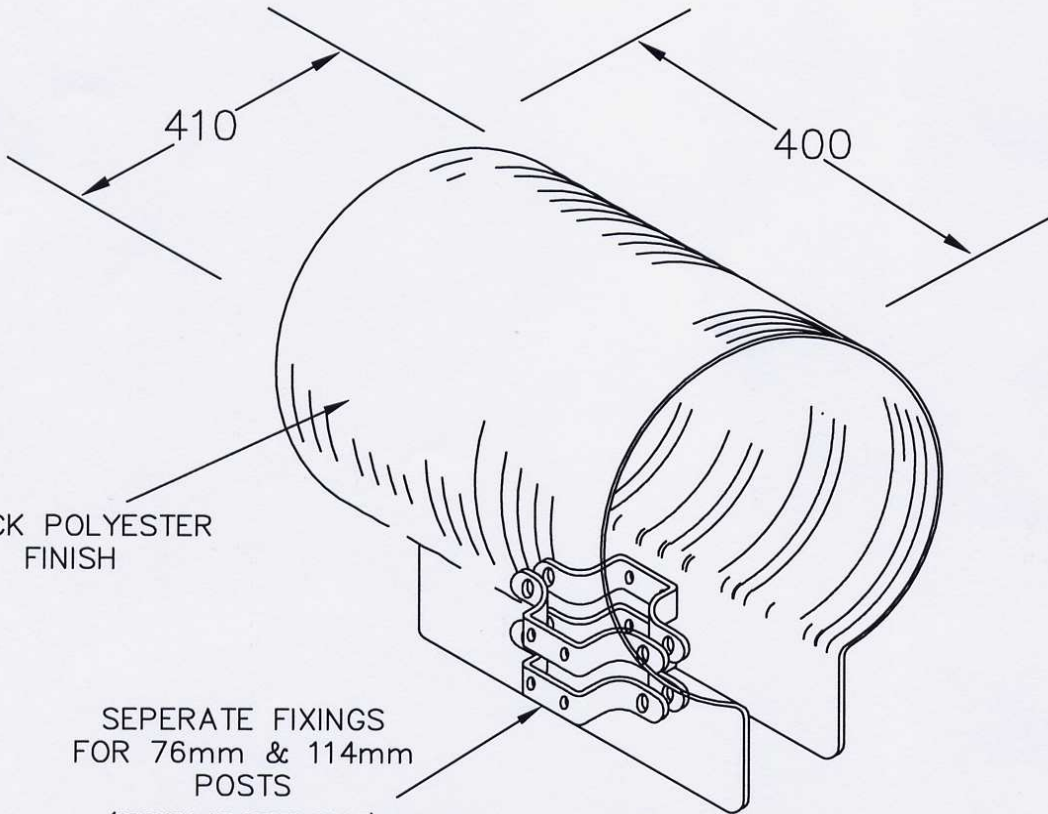
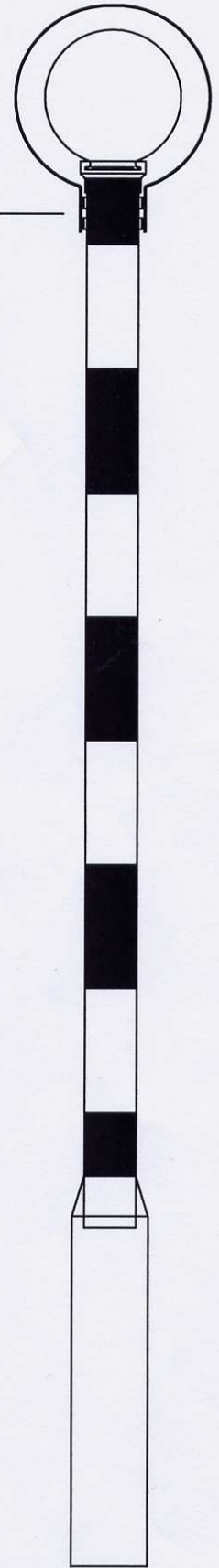
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FULL CIRCLE ANTIFLASH SHIELD



PREVENT INTRUSION BY FITTING THE FOREST CITY ANTIFLASH SHIELDS.



BLACK POLYESTER FINISH

SEPERATE FIXINGS FOR 76mm & 114mm POSTS
(SPECIFY AT ORDER POINT)

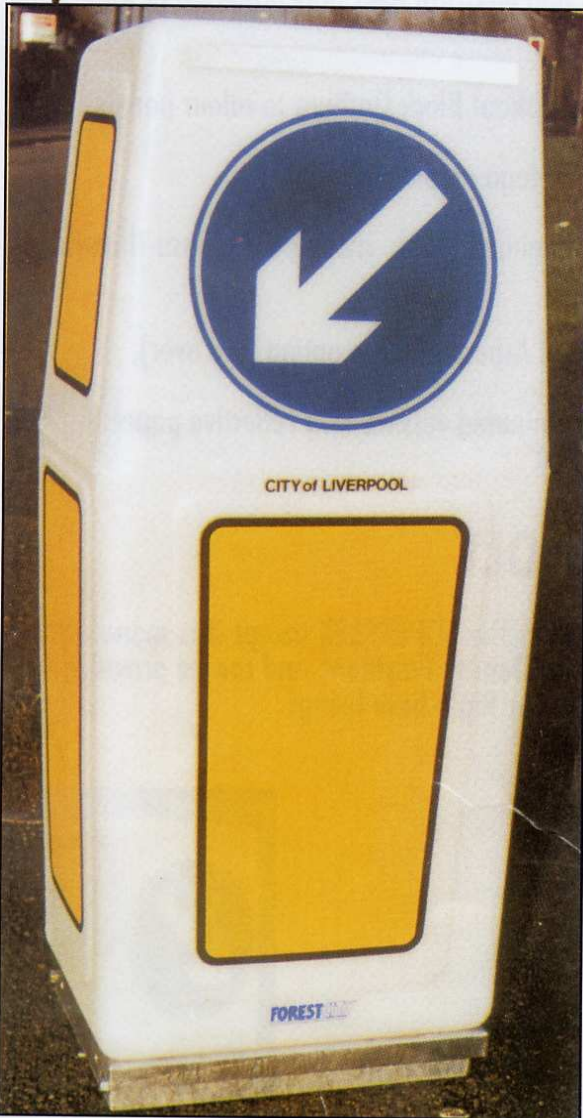
PRODUCT IN ACTION

FOREST CITY

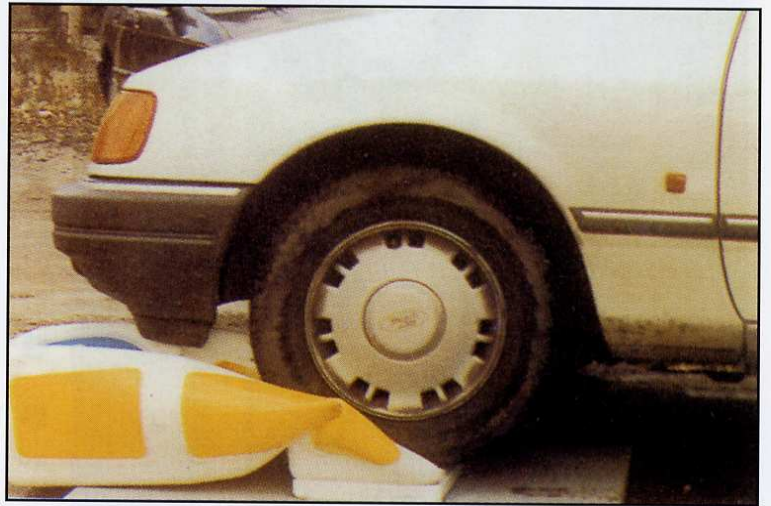
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THE 'CITYFLEX' AND 'POLYBOLLARD'

THE 'CITYFLEX', FULLY FLEXIBLE BOLLARD ABSORBS THE IMPACT OF TODAY'S TRAFFIC – AND COMES UP A WINNER!



'CITYFLEX' WITH CUSTOMER LOGO



THIS 'CITYFLEX' WILL BOUNCE BACK AFTER BEING CRUSHED OR VANDALISED

- The 'CITYFLEX' combines the features of the 'SUPERFLEX' with a technically advanced anti-tear fixing system.
- The 'POLYBOLLARD' is a rigid bollard made from low density polythene to the same design as the 'CITYFLEX'.

CONVERSIONS TOO!

Most makes of non-illuminated base units can be easily converted to base illumination ready to fit the Bollard Top. Here we show one of the many conversion kits available – one model even plugs into the existing socket on the base box. We would be pleased to examine your existing bollards and advise on conversion where required.



THE 'SUPERFLEX 600' AND 'SUPERPOLY 600' ARE THE 600mm VERSIONS OF THE 'SUPERFLEX' AND 'SUPERPOLY'

FLEXIBLE BOLLARDS

BASE ILLUMINATED



'SUPERFLEX' WITH CUSTOMER LOGO

SUPERFLEX

- Delivery from STOCK
- Fully Flexible with "MOULDED IN" graphics
- Lamps and electrical gear fully protected in waterproof base
- With or without Black Outlines to colour panels
- Customer logo option
- Interchangeable with most other Base-Illuminated bollards
- 1 or Multi Aspect. 600mm option (see over).
- Non-Illuminated version with reflective panels – "THE REFLECTA"

SUPERPOLY

- Identical to the SUPERFLEX except it is manufactured from Low Density Polythene and can be provided with Frangible or Rigid base fixings

SUREFLEX

- Interchangeable with FDI bollards
- Delivery from STOCK
- Has the same features as the SUPERFLEX, but has parallel sides and size to fit an FDI base

SUREPOLY

- Identical to the Sureflex except it is manufactured from low Density Polythene and can be provided with Frangible or Rigid base fixings.



'SUREFLEX'

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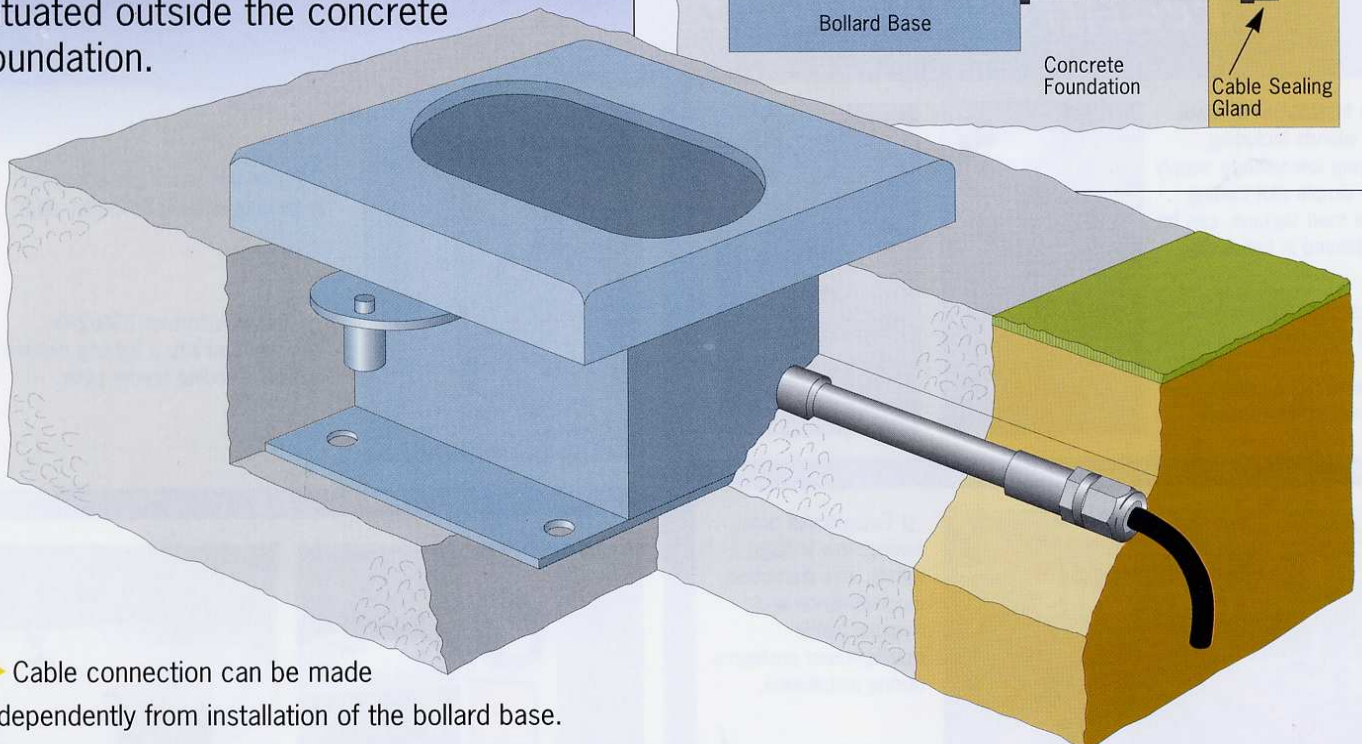
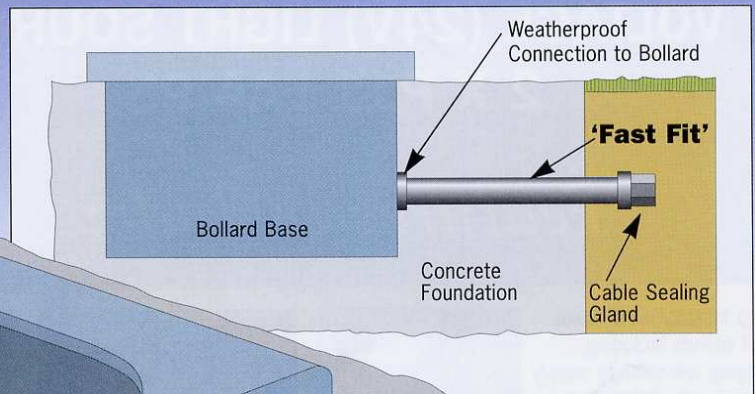
**MORE
INNOVATION
FROM
FORESTCITY**

BOLLARD BASE CABLE ACCESS KIT

**UK PATENT
APPLIED FOR**

'Fast Fit'

- ▶ Allows cable renewal to base with no disturbance to any structural foundations.
- ▶ The cable weatherproof gland is situated outside the concrete foundation.



- ▶ Cable connection can be made independently from installation of the bollard base.
- ▶ Allows cable renewal to base with no disturbance to any structural foundations
- ▶ The cable weatherproof gland is situated outside the concrete foundation
- ▶ Ensures double insulation protection to conductors within the bollard base
- ▶ Retains the ingress protection (I.P) rating of the Base Unit
- ▶ No need for specialist tools or equipment
- ▶ Standardised 25mm Ø fixing to suit all manufacturers base illuminated units, steel or aluminium. Other diameters available
- ▶ No maintenance, replacement parts or on-site assemblage required
- ▶ Impact resistant, colour coded and non-corrosive
- ▶ Complies with the 16th edition I.E.E wiring regulations and local authority codes of practice

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SAVE MONEY AND IMPROVE SAFETY

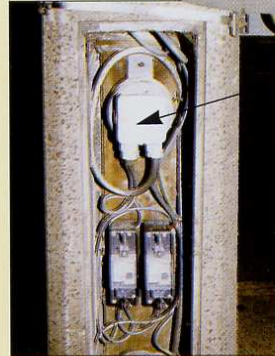
PRE-FORMED BOLLARD TRAFFIC ISLANDS WITH OPTIONAL LOW VOLTAGE (24V) LIGHT SOURCE 2 X P11 LAMPS

Features include:

● Installation of a set of islands including laying low voltage supply by simple slot cutting the road surface, can be achieved in half a day.

▶ LEFT: 24 volt cable being laid in pre-slotted road surface

▶ RIGHT: Hot bitumen is used to seal the road surface



230/24 volt transformer housed in lighting column or feeder pillar

● The transformer 230/24v can be fitted into a lighting column or free standing feeder pillar.



AVOID THIS

Avoid costly and disruptive excavation and construction

● Exceptional cost saving, low voltage safety, less disruption, inconvenience and minimal traffic management problems during installation.

● Islands available in various sizes and can be supplied with fitted 'adaptabase' to facilitate a centre island column with low voltage light source.

● The low voltage gear tray with independent invertors and 2 x P11 lamps can be supplied fitted into various types of bases including for example, other manufacturers already installed units where problems with mains supply exist.



▲ ABOVE: Island fixing bolts being inserted

◀ LEFT: After securing the island the bollard and light unit are fitted

● Manufactured from a special compound based on GRP. Simple to install. Permanent or temporary, ideal for traffic calming schemes/experiments and wide load routes.

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The Low Voltage Option

Another way to **SAVE MONEY** and improve **SAFETY**

Forest City offer all electrically illuminated signs and bollard products with a Low Voltage gear tray.



- 24 volt D.C. operation via powerpacks.
- Low cable installation costs
- Products physically identical to mains versions
- Safety for public and operatives
- Less traffic disruption during installation.
- Assembly group PEC control available.

Typical Products

<u>Product</u>	<u>Light Source</u>	<u>Contents</u>
City Base (Bollard Base Light)	2 * P11 lamps	Bollard fluorescent gear tray
Bollard Base Light Converter	2 * P11 lamps	Bollard fluorescent gear tray
Type A Luminaire (all body options)	1 * P11 or 2 * P11	Fluorescent gear tray
Centre Island Column	various	Steel column complete
Zebra Crossing/Centre Island Posts	various	Steel column complete
"Zebra Safe" Posts	various	Internally lit columns (fluorescent)
"Centre Island Safe" Column	various	Internally lit column (fluorescent)
Internally Illuminated Signs	various	Internal light units
Twin Amber Flasher	Filament Lamps or LED	

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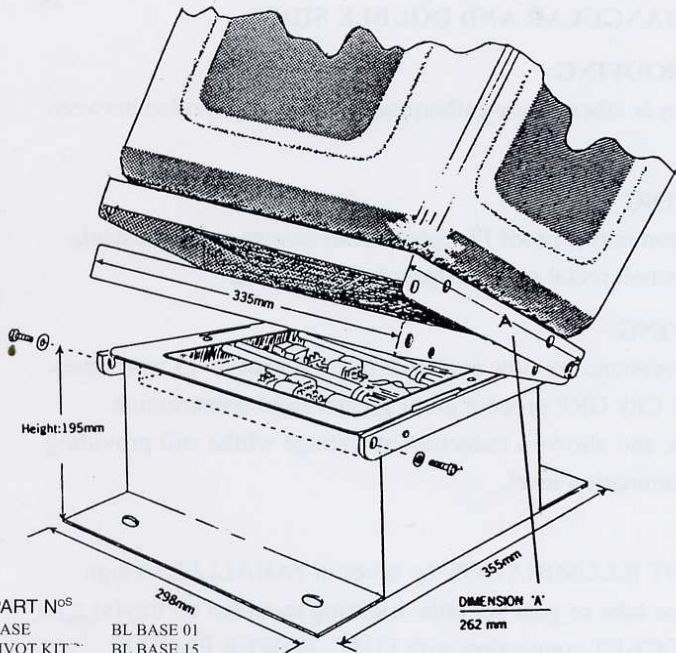
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UNIVERSAL BASE

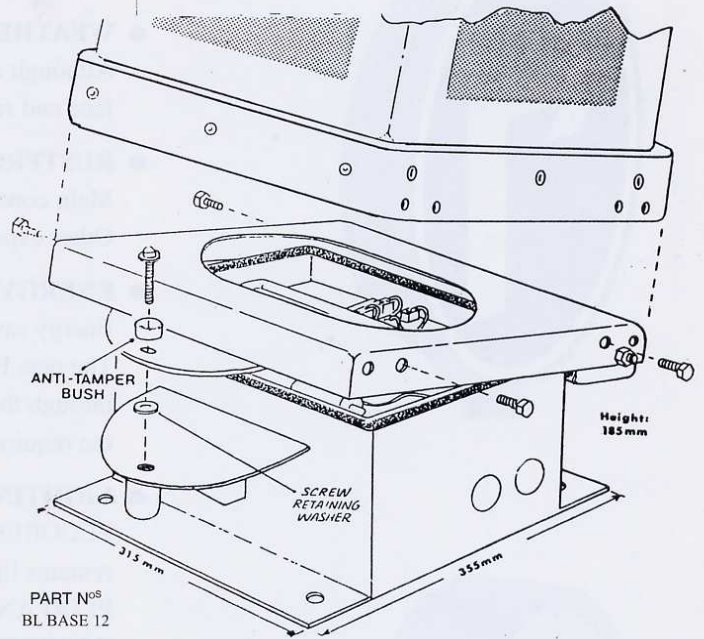
with PIVOT FIXING & 2x11 watt LIGHTING



PART N^{OS}
 BASE BL BASE 01
 PIVOT KIT BL BASE 15
 LIGHT UNIT BL BASE 06

- PIVOT FIXING OR "LIFT-OFF" FIXING WITH 4 BOLTS OR 2 TIE BARS.
- HOT-DIP GALVANIZED.
- HOLES FOR MOST BOLLARD DESIGNS.
- EXCAVATE 600 X 600 X 290mm DEEP.
- GROUND LINE 150mm FROM BASE OF UNIT.
- INFRA-RED PHOTO CELL OPTION.
- 2 POLE ISOLATOR SWITCH OPTION.

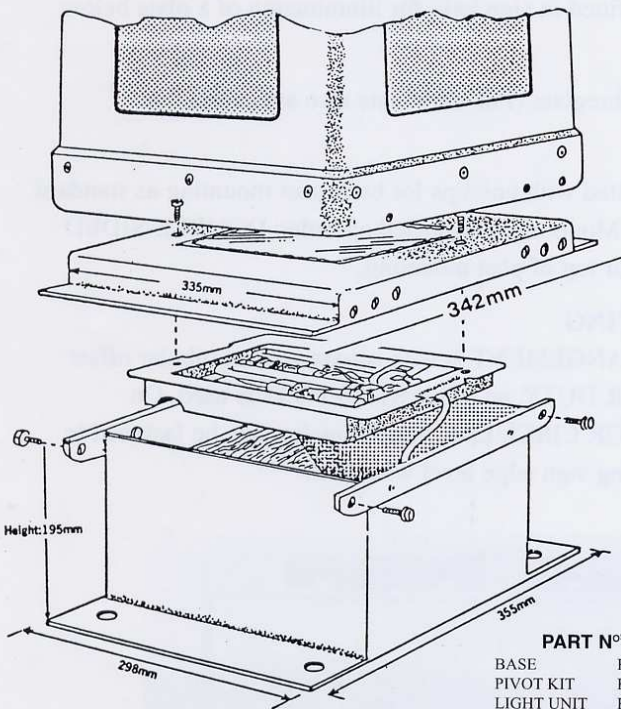
CITYBASE FIXED HINGE UNIT and SUREBASE



PART N^{OS}
 BL BASE 12

- SINGLE ANTI-TAMPER SCREW LID FIXING.
- HOT-DIP GALVANIZED.
- HOLES FOR MOST BOLLARD DESIGNS.
- EXCAVATE 600 X 600 X 290mm DEEP.
- 2 OR 3 P11 LAMP OPTION.
- IP67 PROTECTION.
- PIVOT LID.
- INFRA-RED PHOTO CELL OPTION.
- 2 POLE ISOLATOR SWITCH OPTION.
- "OPTIONAL DOMED WINDOW"

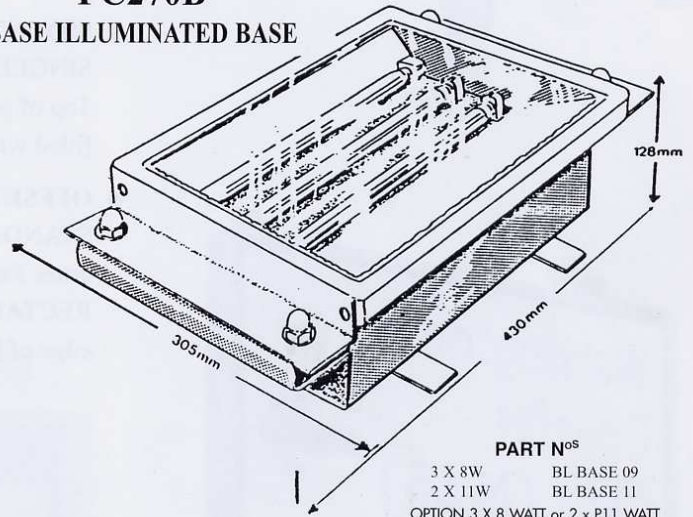
STANDARD 2 x 11 watt BOLLARD LIGHT UNIT shown fitted to a Universal Base



PART N^{OS}
 BASE BL BASE 01
 PIVOT KIT BL BASE 18
 LIGHT UNIT BL BASE 08

- "LIFT OFF" FIXING WITH 4 BOLTS OR PEGS
- HOT-DIP GALVANIZED.
- HOLES FOR 7 TYPES OF SQUARE BASE BOLLARDS
- FITS MOST BASE BOXES. EVEN IN THE OLDER NARROW TYPES.
- EXCAVATE 600 X 600 X 290mm DEEP
- GROUND LINE 150mm FROM BASE OF UNIT
- INFRA-RED PHOTO CELL OPT ION.
- 2 POLE ISOLATOR SWITCH OPTION.

FC270B BASE ILLUMINATED BASE



PART N^{OS}
 3 X 8W BL BASE 09
 2 X 11W BL BASE 11
 OPTION 3 X 8 WATT or 2 x P11 WATT

- LIFT OFF FIXING WITH PEGS OR THE RODS
- HOT-DIP GALVANIZED
- FITS "CITYFLEX" POLY BOLLARD & FC270 BASE ILLUMINATED BOLLARD
- EXCAVATE 600 X 600 X 240mm DEEP
- GROUND LINE 60mm FROM BASE OF UNIT
- INFRA-RED PHOTO CELL OPTION.
- 2 POLE ISOLATOR SWITCH OPTION.

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

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