



Overview

Patented Bus Stop Information System

- Contemporary 'Modular' Design
- Strong, Long Lasting Materials & Anodised Aluminium Finish
- Quality Presentation of Timetable Information
- Quick Release Fittings & Fixings (aids operation & maintenance)
- Robust, Boat Shaped Flag Sign with Quick Release Route Tiles
- No Visible Fixings for Tamperproof & Vandal Resistant Operation
- Post Designed to accept RTPI Power & Communications Cables
- Attractive Weather Resistant Materials (Stainless Steel & Aluminium)
- Solar Power Lighting & Illuminated Timetable Display Options
- Tactile Bumper foot for Visually Impaired & Pushchairs
- Many Safety Features & DDA/Mobility Group Features
- Compliant with all Relevant BSI Structural Standards and Legislation

Design Features - Patented Design - A “Unique” System Protected by International Design Copyright

Industry leading Elite bus stop design – tried & tested performance.

The Elite bus stop is a ‘modular’ system.

It has been specifically designed for use in transit agencies. Thousands of Elite units have been successfully installed throughout the world.

The Elite bus stop has been specifically designed to offer the following marketing, performance, safety and operational benefits:-

Marketing & promotional features & benefits

- High profile tool for the promotion of bus routes and bus services
- High quality information display (day & night – solar power)
- Modern, contemporary design – raising the profile of bus travel
- Provides a 21st century ‘shop window’– the hub or gateway for transport
- The ultimate platform for the promotion of transport corporate identity
- Proven to increase bus usage

- Performance features & benefits (long lasting appearance & functionality)
- Robust, vandal, graffiti and weather resistant materials & finishes, rugged, anodised post, coloured items have special anti-graffiti paint (optional)
- Stainless steel & aluminium construction for long lasting appearance and zero corrosion
- Tamperproof fittings and fixings throughout

Future proofed – technology enabled

- RTPI electronic display flags
- Electronic timetables and touch screen journey planning systems
- Audio information and messaging systems
- Smart card & smart ticketing systems
- Mains power and / or solar power

Compliance with ADA regulations

- Designed in conjunction with disability & access user groups
- Tactile bumper foot for wheelchairs and the visually impaired
- Raised letter ‘B’ on bus stop display for visually impaired

Operational, installation & maintenance features & benefits

- Quick release, fastenings for quick assembly & maintenance
- Lightweight, modular components for fast, safe erection on street
- Wide range of special foundation options to suit all sites
- Vandal resistant, tamperproof fixings

Health & safety benefits

- Solar illumination - provides a safe, welcoming environment
- The Elite stop has no gaps or crevices in which to rest or hide bombs or incendiary devices
- Tactile bumper foot to guard strollers & pushchairs from overhanging timetables
- Structurally engineered, full compliance with required DDA & UK standards

Environmental benefits – Elite solar illumination

- Manufactured from 100% recyclable materials
- Some parts already made from pre-recycled materials
- Energy efficient, environmentally friendly solar energy solution

Elite Bus Stop Currently installed



Impact Tested

NCHRP 350 Approved System meets International Breakaway Standard

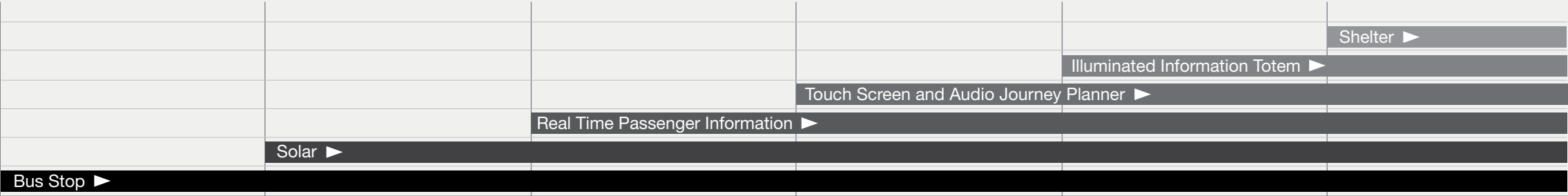


Elite Bus Stop System



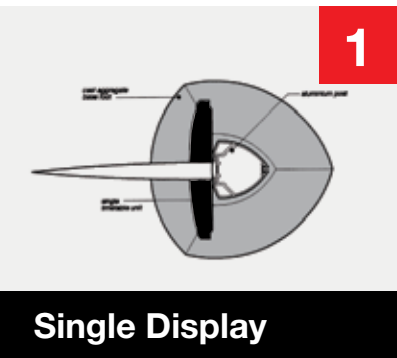
Future Upgrades

Your journey starts here...

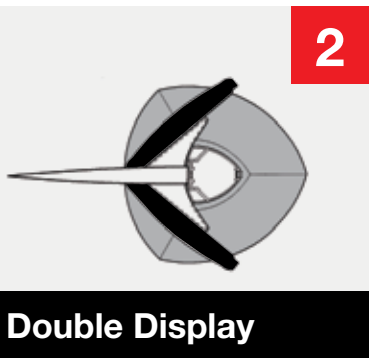


Infrastructure Complexity

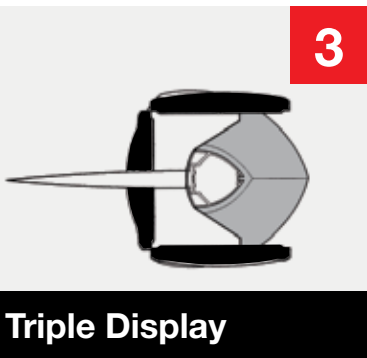
Elite Bus Stop Flag Options



Single Display

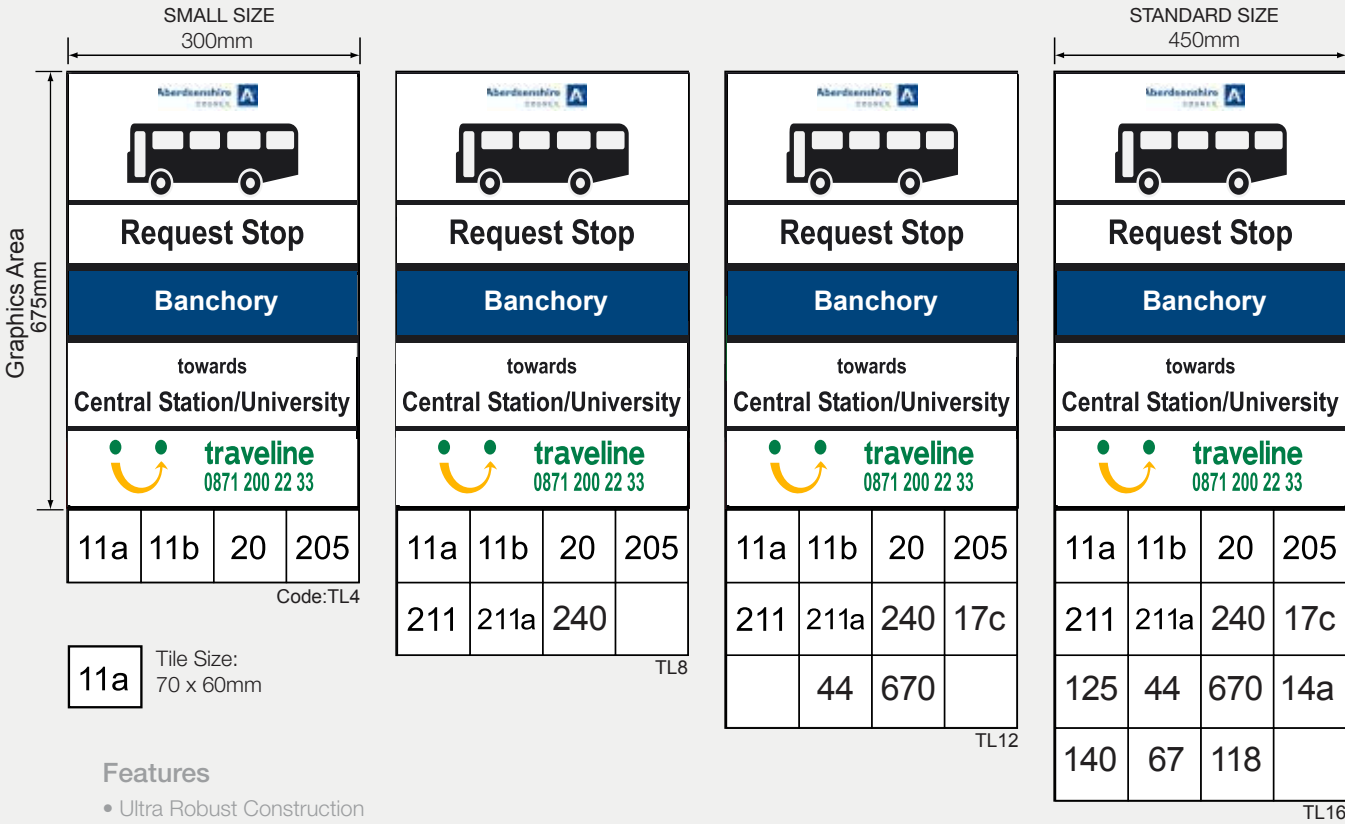


Double Display

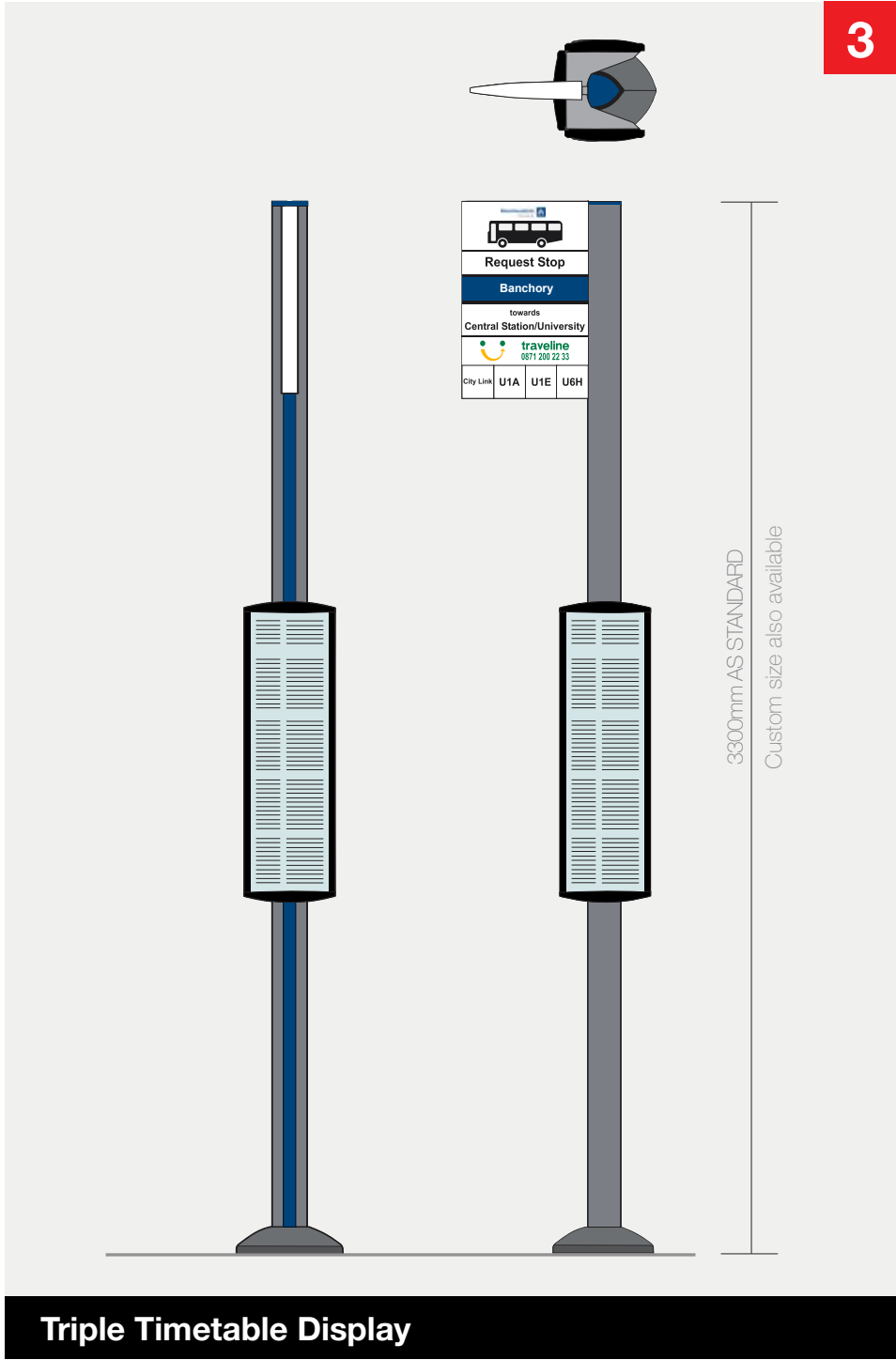
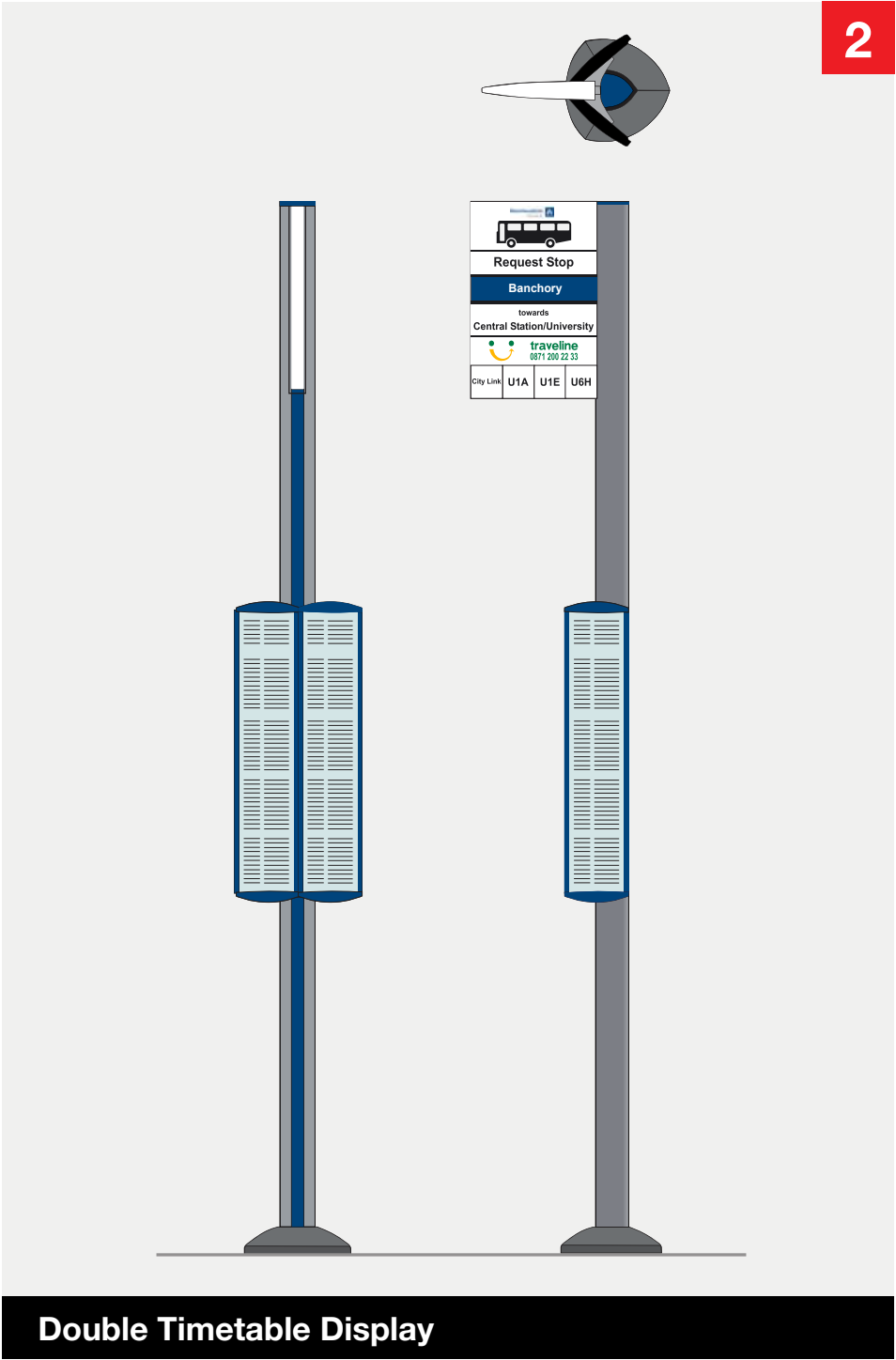
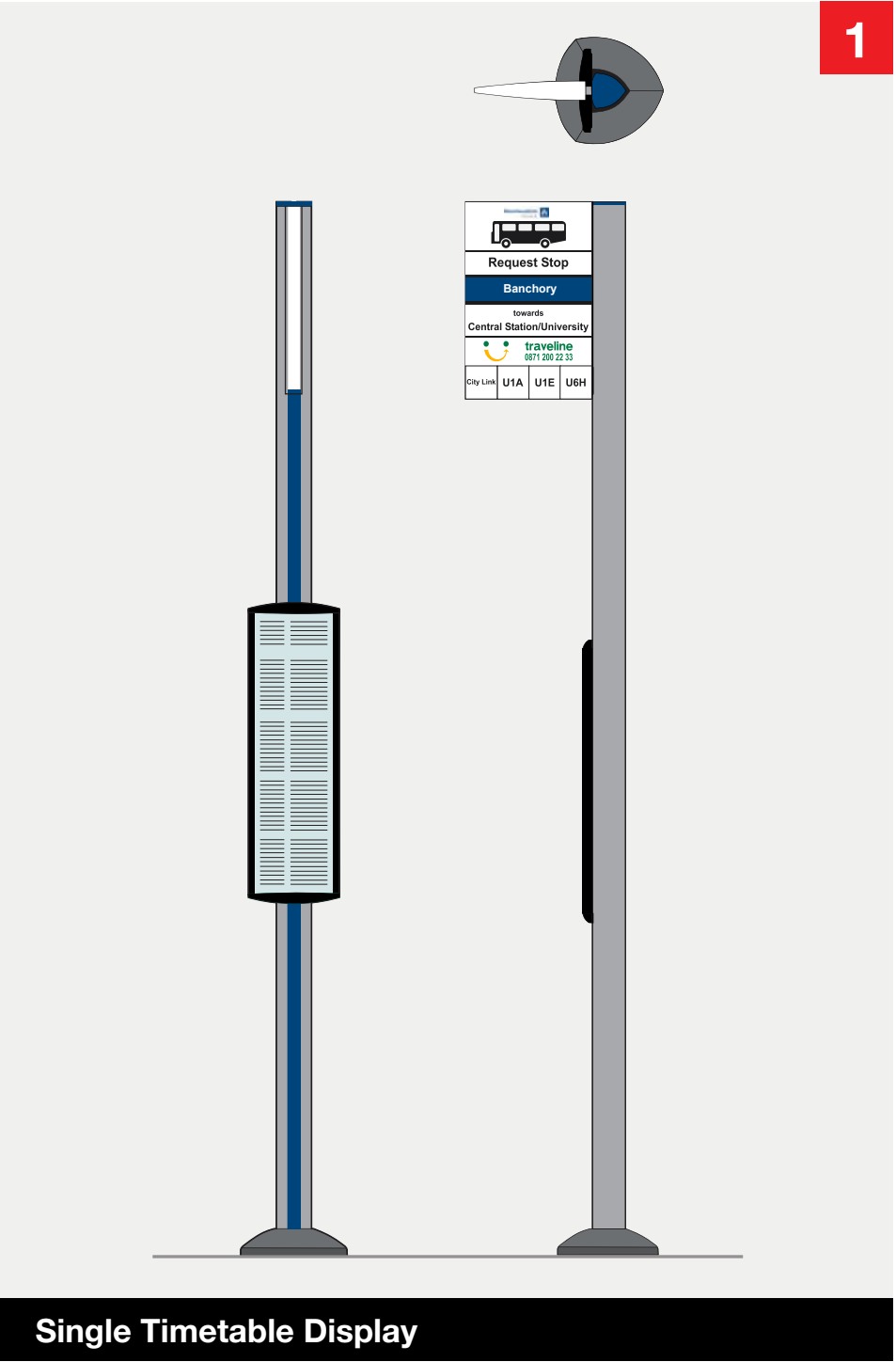


Triple Display

Large Quick Release Flag
With Removeable Route Tiles

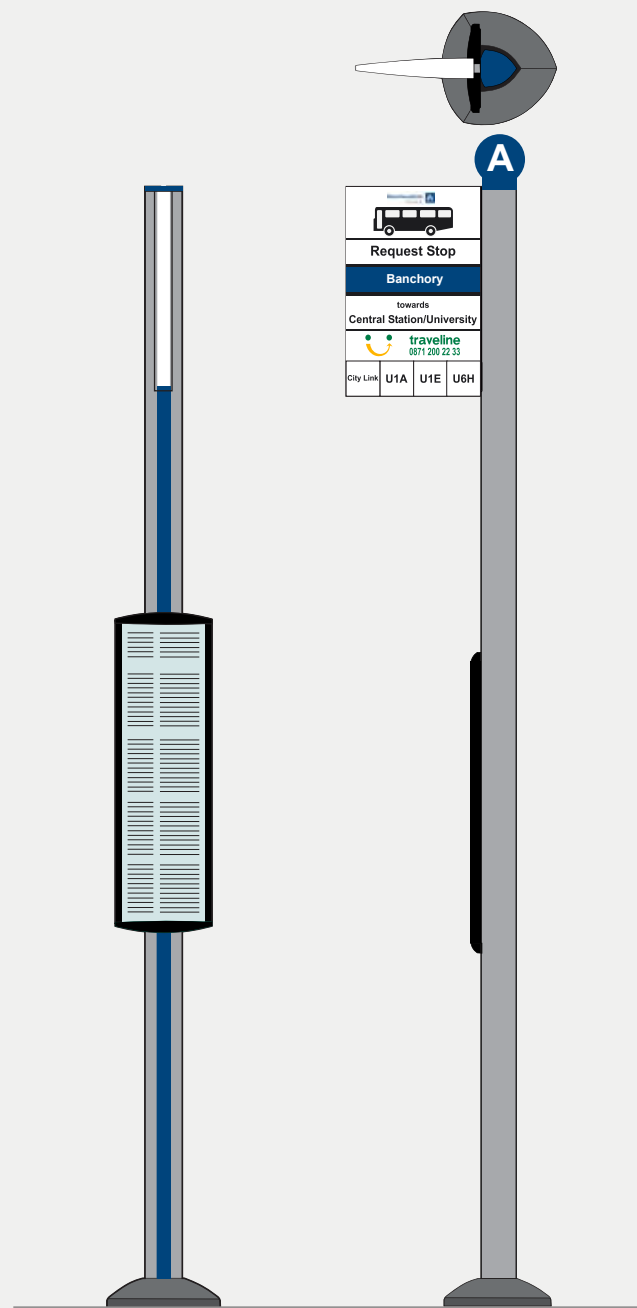


Elite Bus Stop Timetable Options



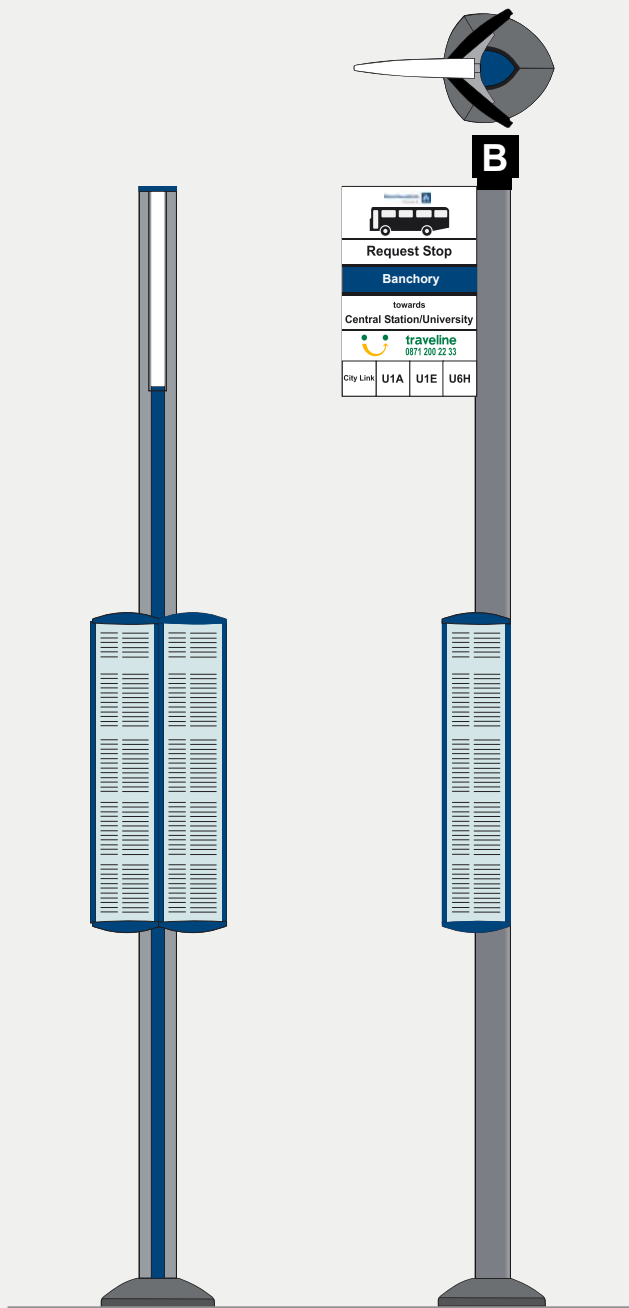
Elite Bus Stop Marker/Finial Options

1



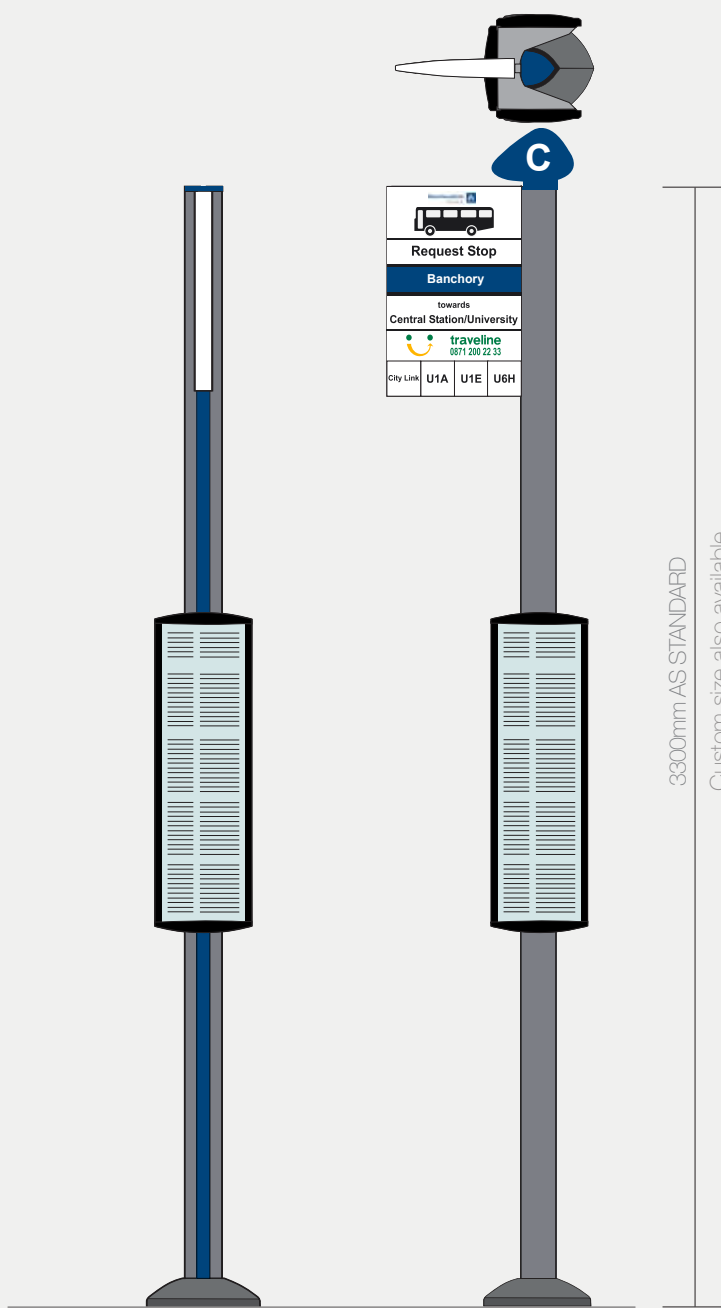
Round Marker/Finial

2



Square Marker/Finial

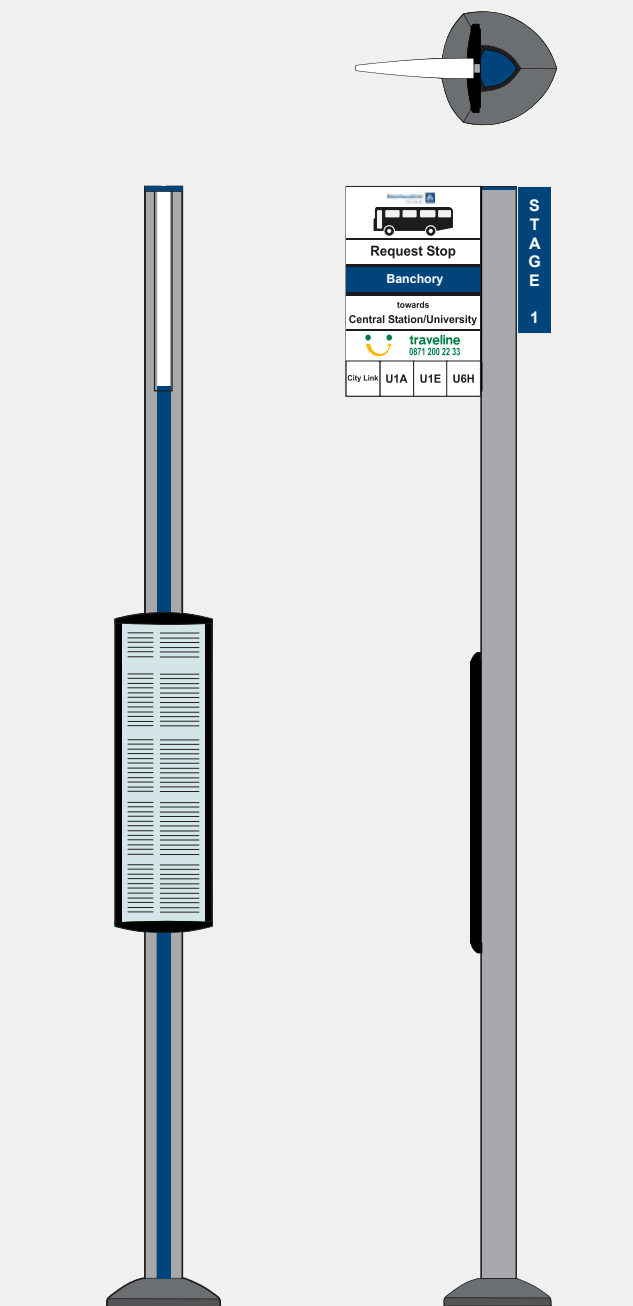
3



Arc Marker/Finial

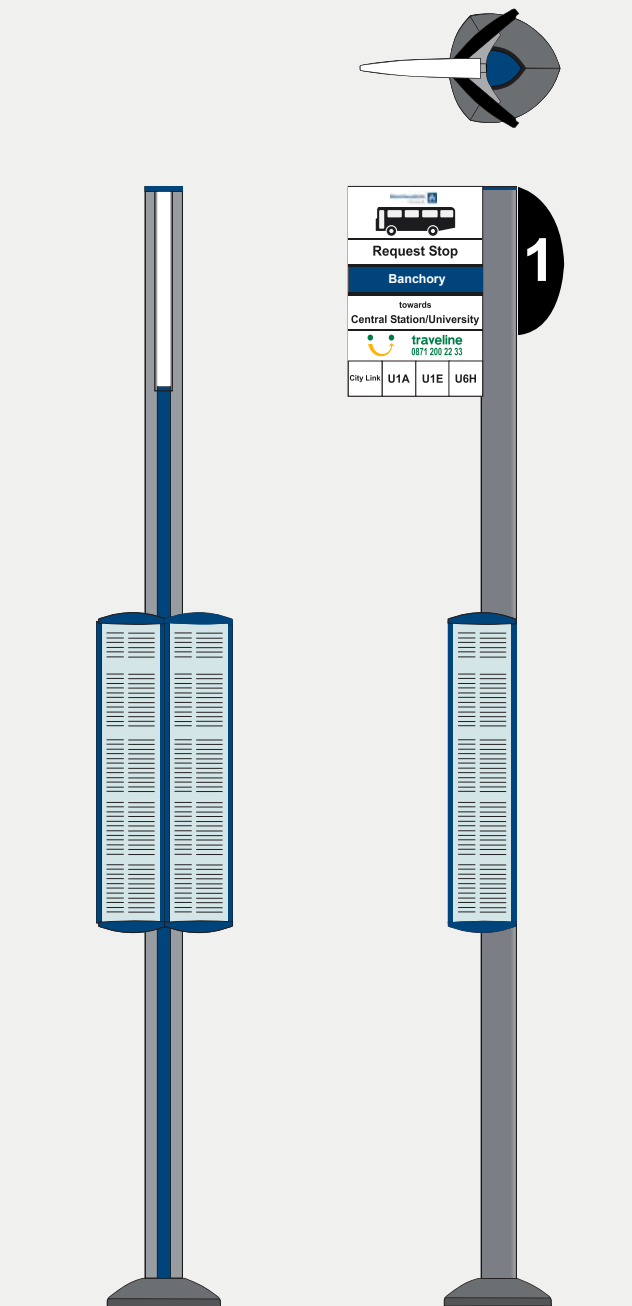
Elite Bus Stop Marker/Finial Options

1



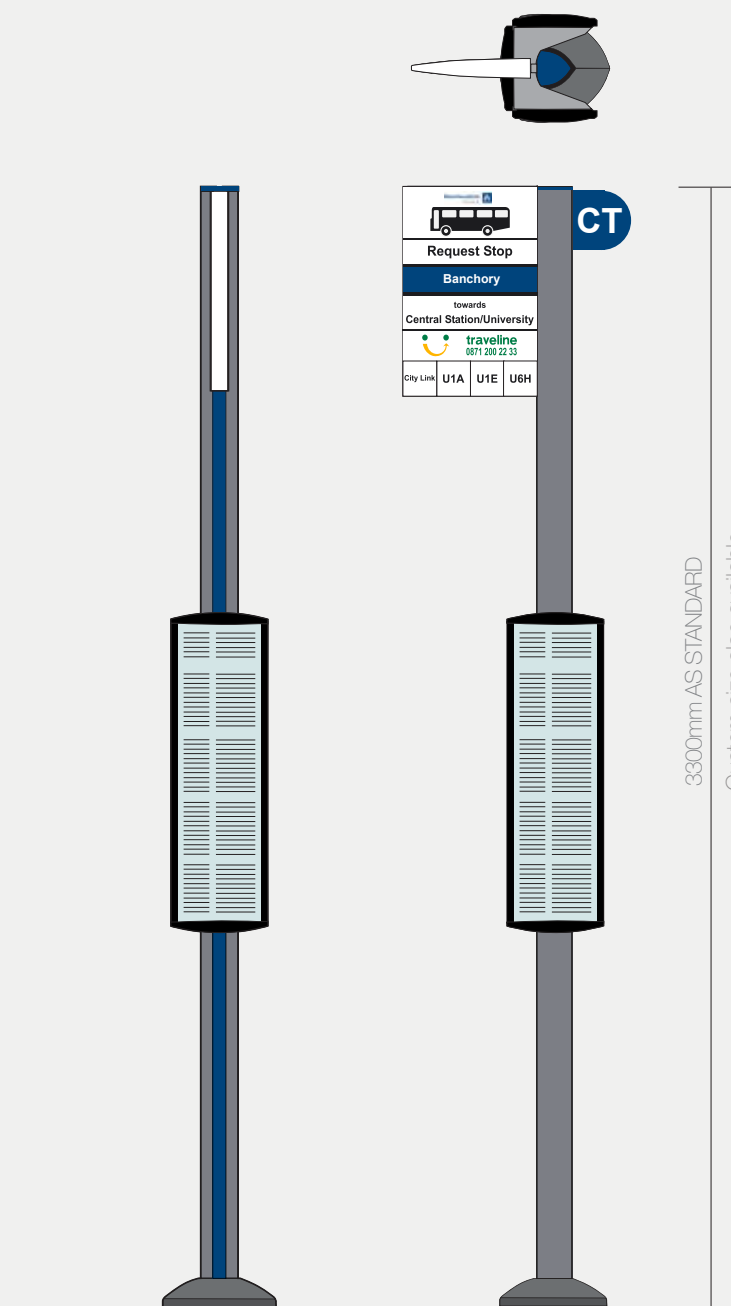
Rectangle Marker/Finial

2



Curved Marker/Finial

3

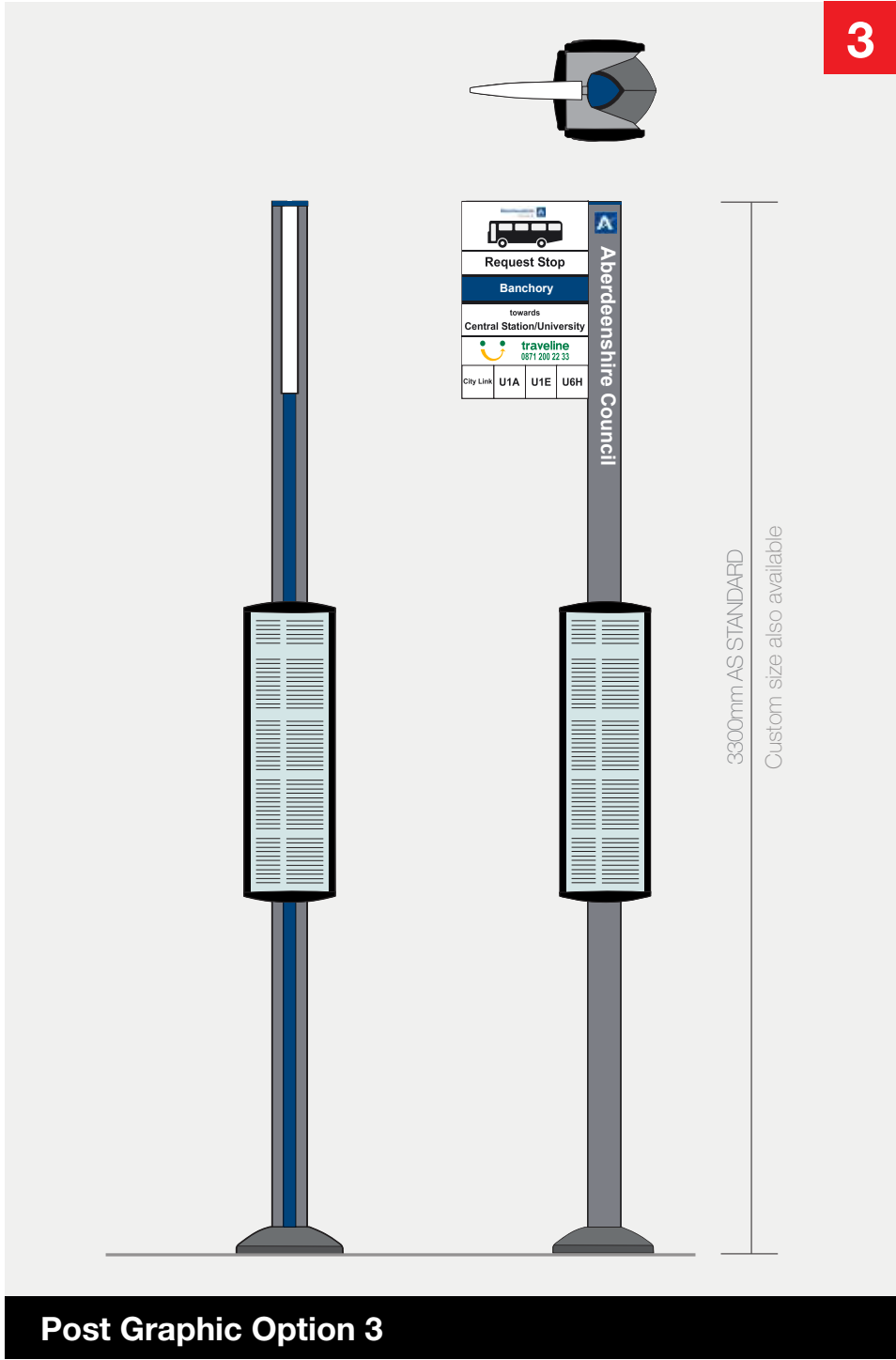
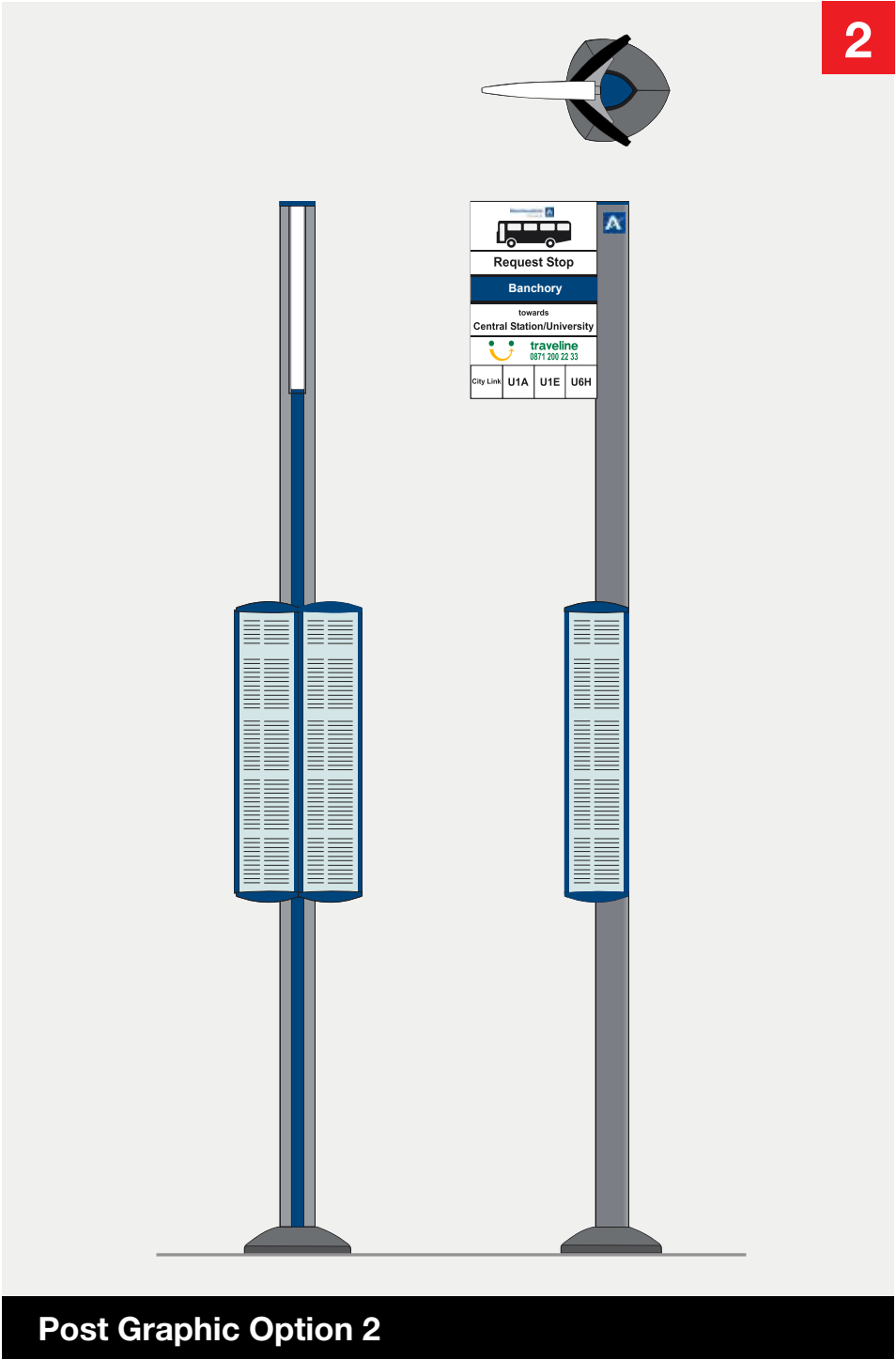
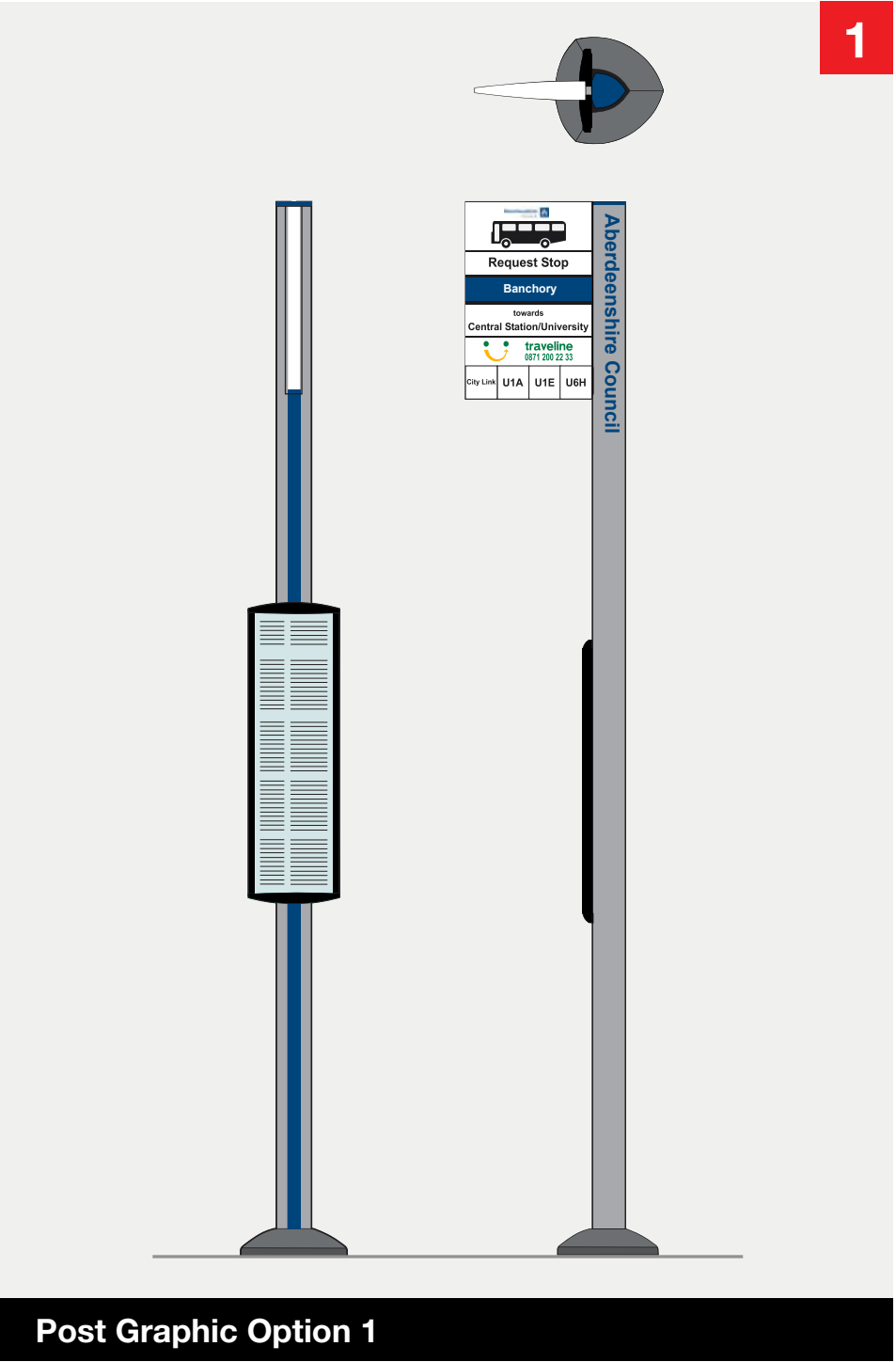


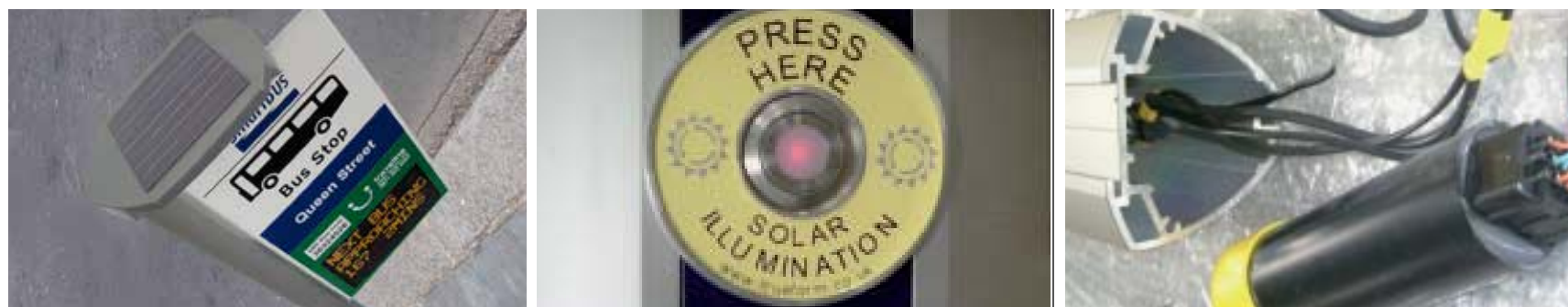
Bespoke Marker/Finial

2

Elite Bus Stop Marker/Finial Options

Elite Bus Stop Post Graphic Options

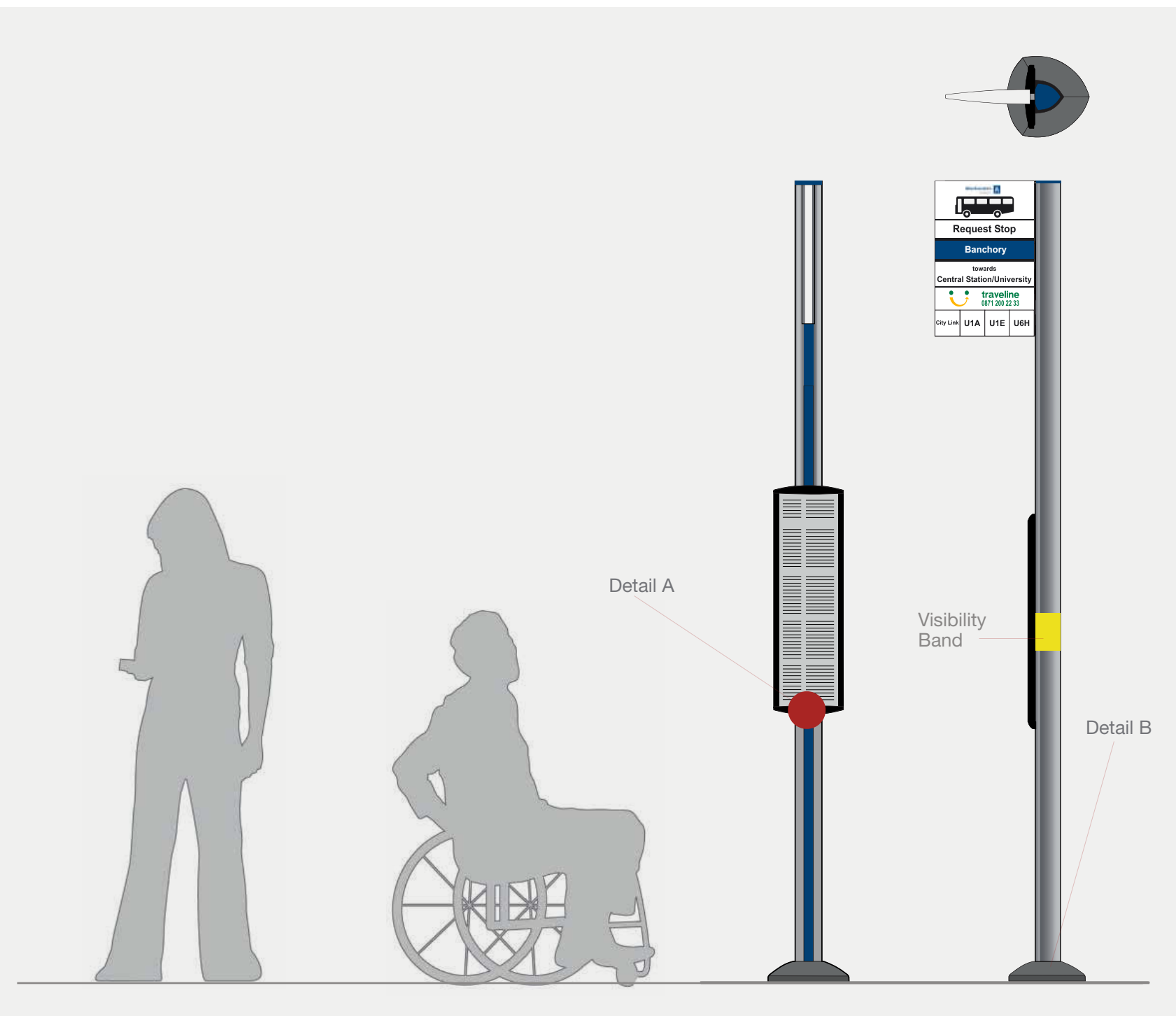




Solar Power

Solar Power Kit for Elite Poles

State of the art solar energy collection, utilising industry leading energy management electronics and charge regulation, robust, high efficiency mono crystalline solar collection cell (positioned discreetly on top of pole), rechargeable battery pack, LED illuminator lights (front illumination of timetable media), special push button activator (with night visibility LED for easy location (glowing button!)).



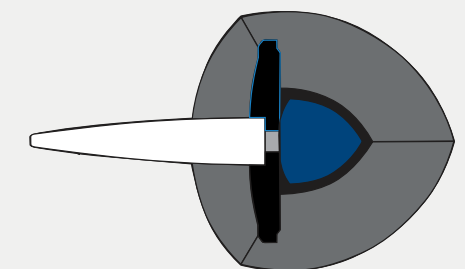
Accessibility & DDA

Features

- Special tactile raised letter 'B'
- Contrasting coloured band (tamperproof vinyl applied to post)
- Bumper foot – wards sticks, wheelchairs, strollers & pushchairs away from overhanging timetables
- Illumination at night – safety and clarity of information– solar power options



Detail A

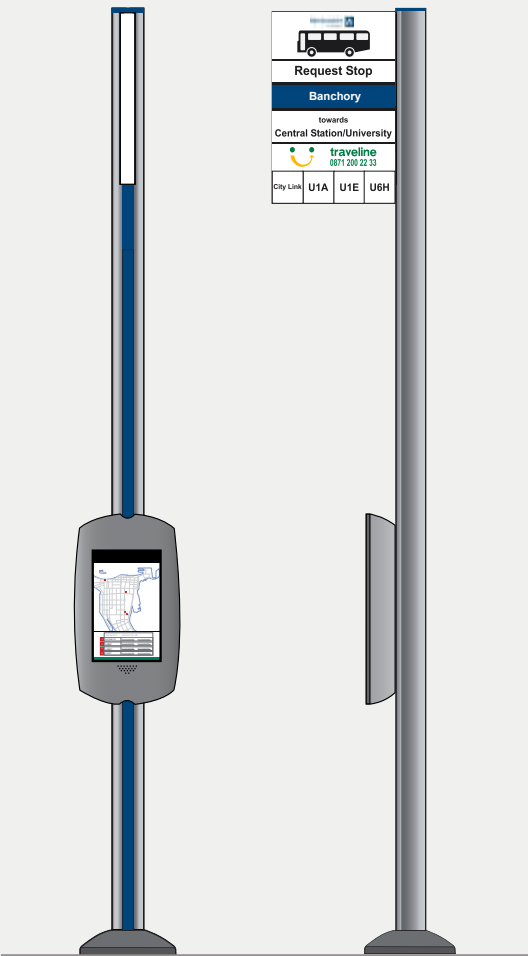


Detail B



Electronic Screens

The Elite bus stop has been specifically designed to incorporate future technologies. It can readily accept additional equipment such as electronic timetables, touch screens and journey planning kiosk displays.





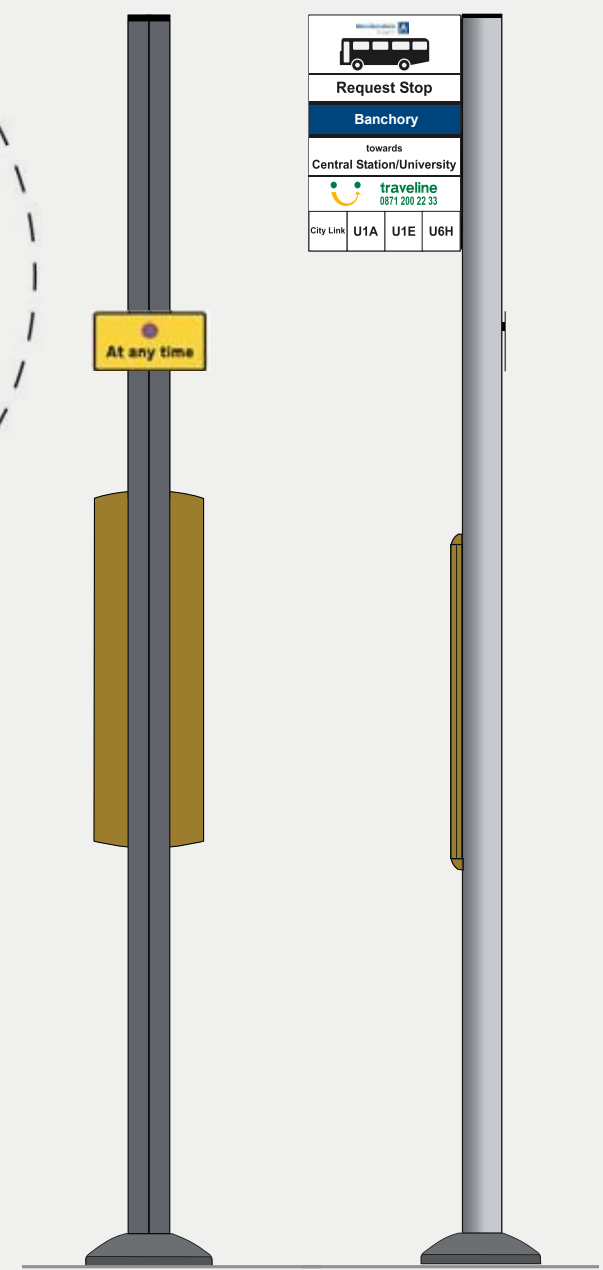
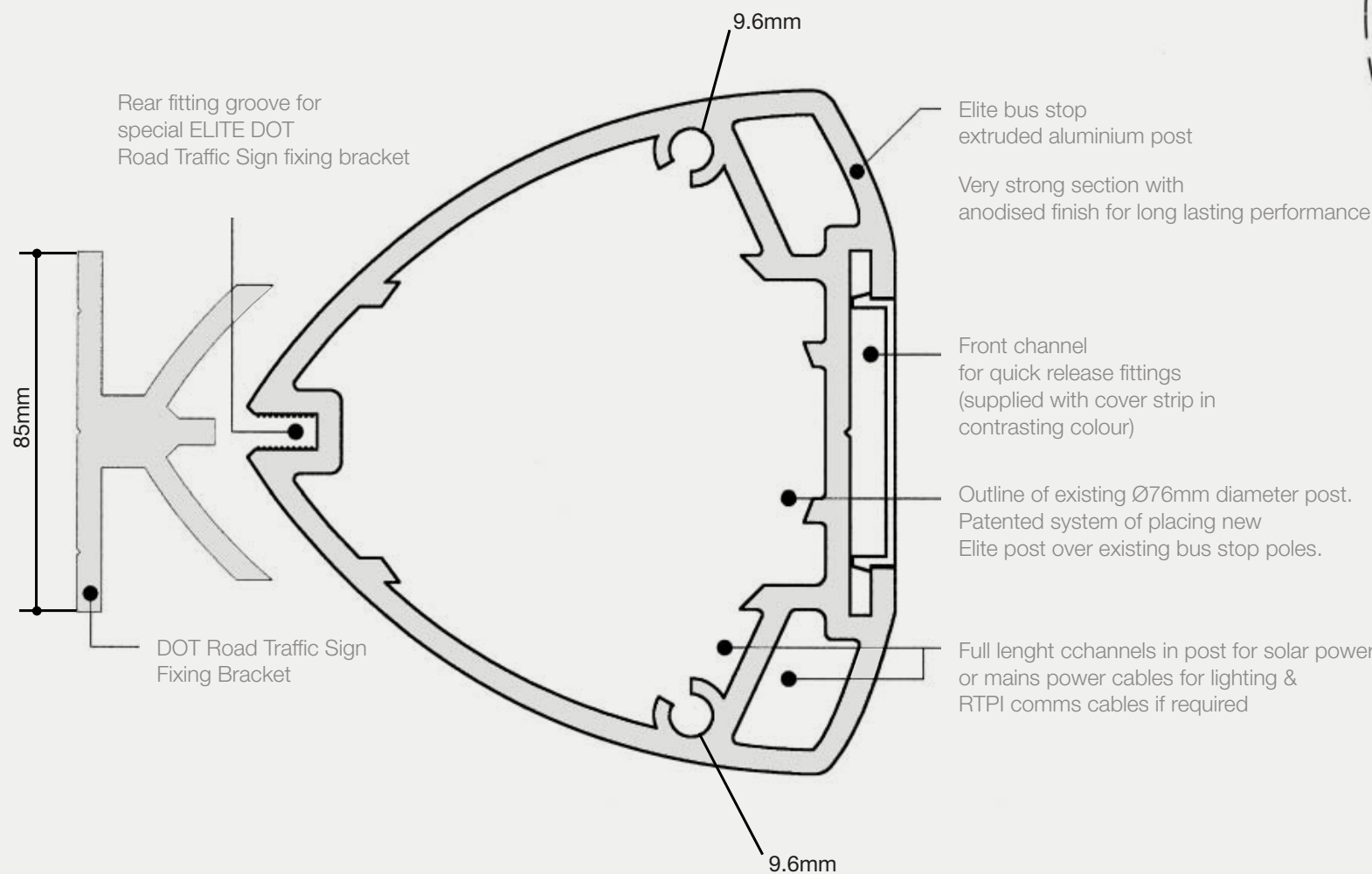
RTI Flags

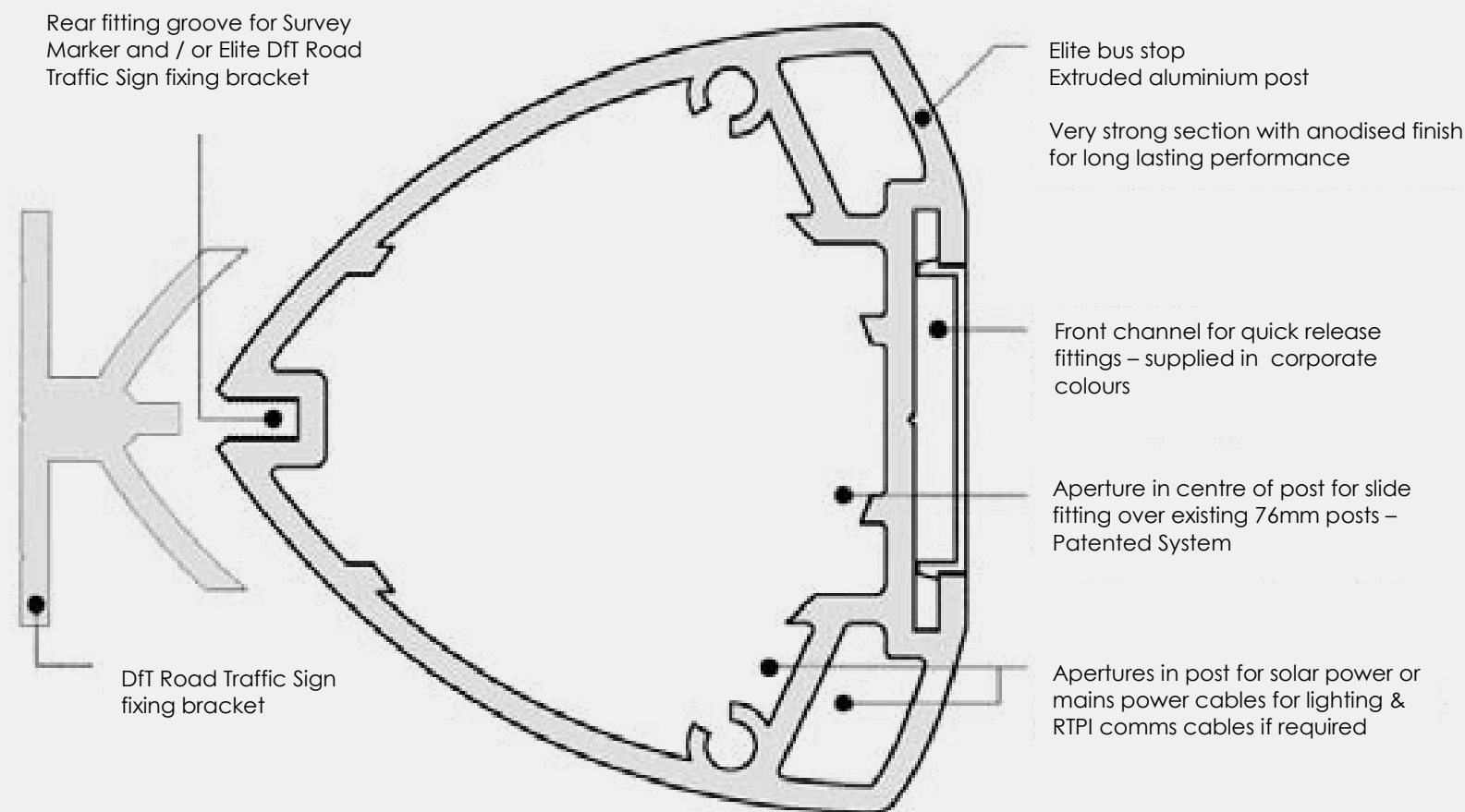
Trueform's Elite bus stop system has been specifically designed to accept RTI display flags.

Trueform's sister company Ferrograph, is the UK's leading manufacturer of these digital flag display signs, and supplied these to the bus stop, shelter and real time display market.

These flag signs have been designed to work in harmony with the Elite bus stop pole.

Fitting of DOT - No Parking Road Signs





Fitting of DOT - No Parking Road Signs

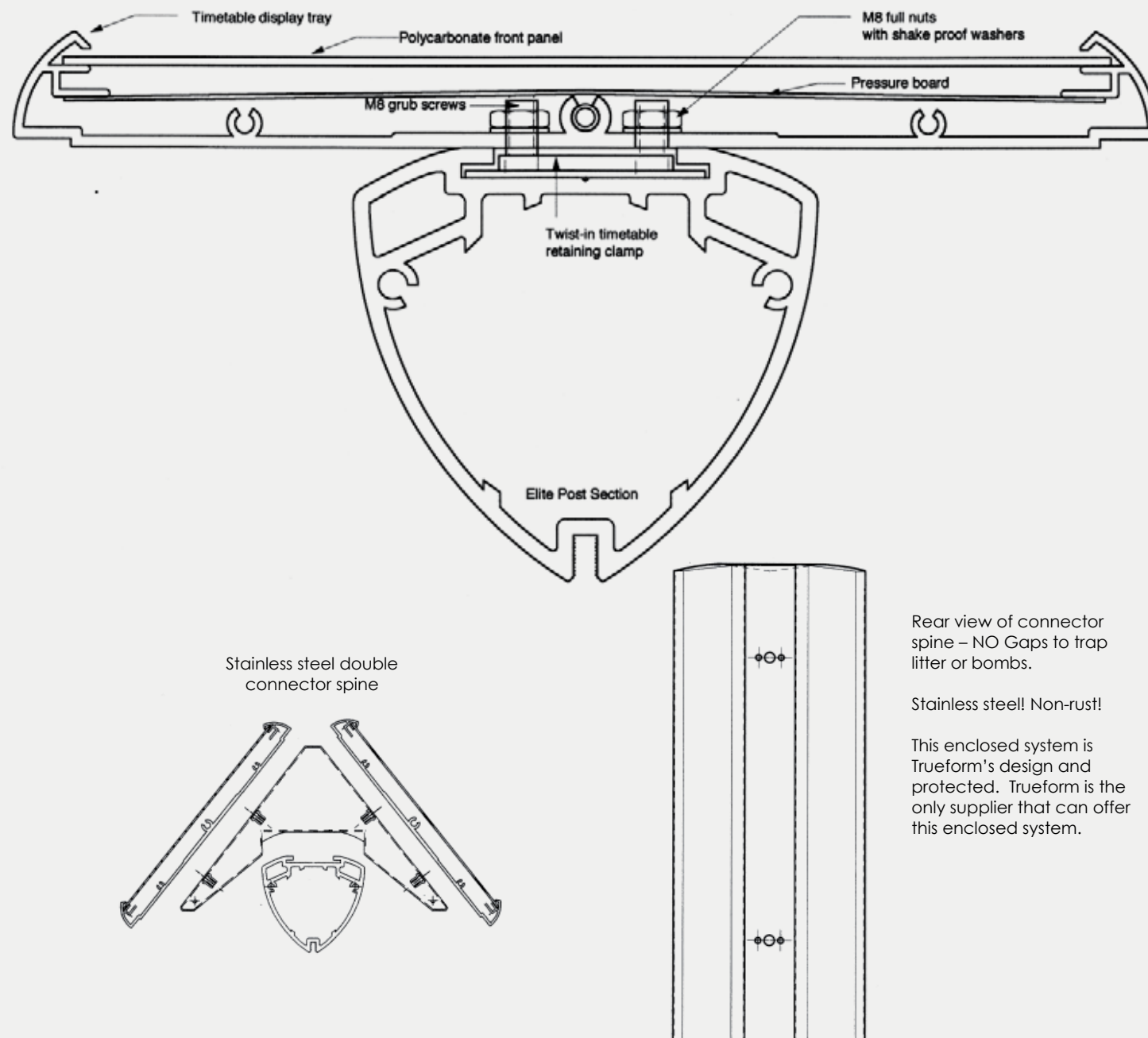
Trueform's Elite bus stop post has been designed to offer a robust cross sectional area.

To conform with the most stringent of installations throughout the UK. The Elite bus stop post is recognised as the strongest bus stop post on the market, a fact that enables the Elite bus stop to accept heavier RTI bus stop flags and a host of other additional items on the pole without compromising the structural integrity.

Material & Finish

Elite Post:- Extruded Aluminium alloy – fully heat treated and anodised to AA25

Infill Cover Strip:- Extruded Aluminium alloy – fully heat treated, alachomed and powder coated anti-graffiti paint



Timetable & Double/Triple Adaptor Details

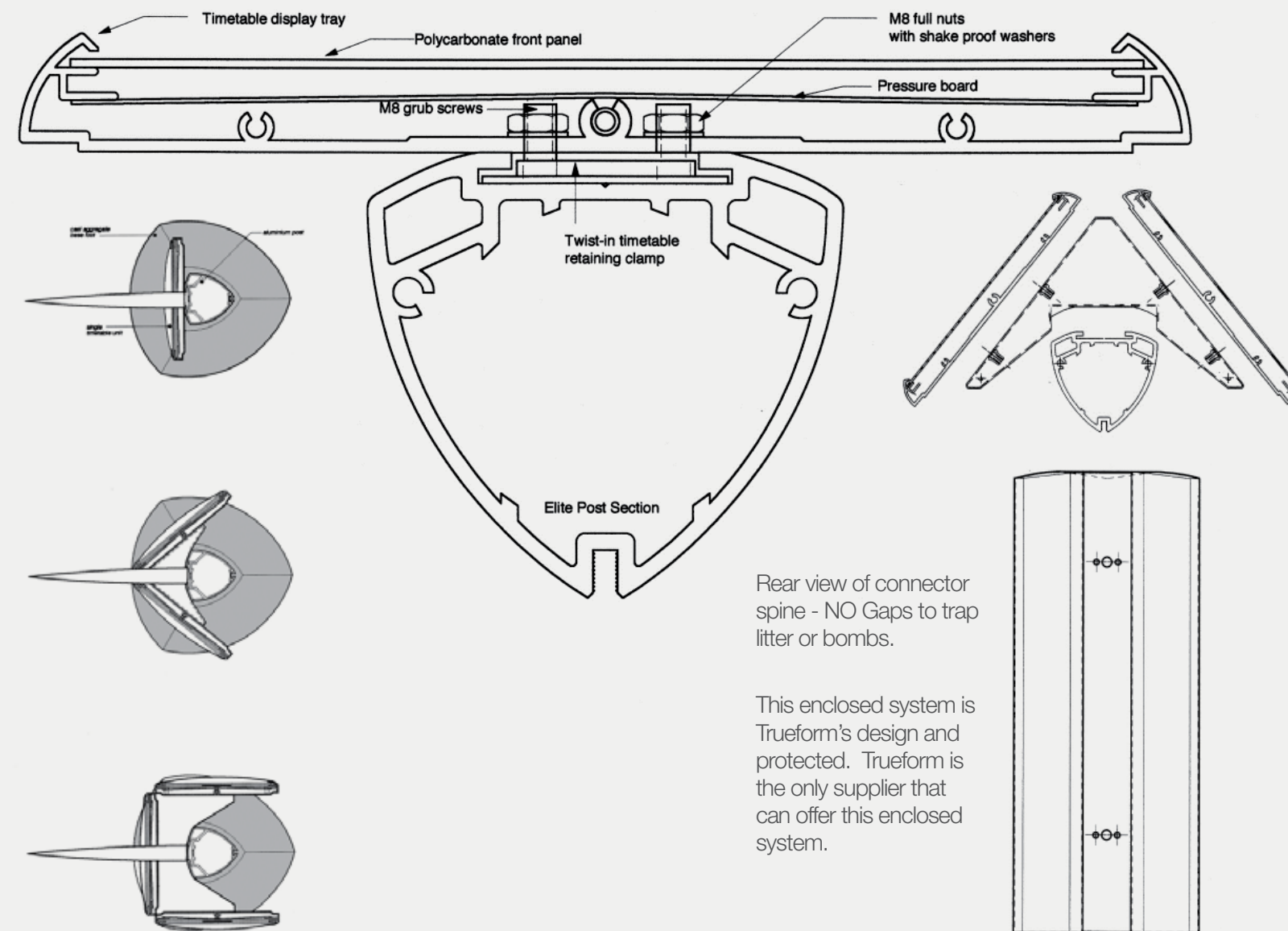
Features:

- Robust and attractive timetable case design
- Anti-tamper security screw entry
- Innovative (design protected) double & triple case connector
- No gaps or crevices left (no litter traps, no Coke cans on top of cases)
- Designed in conjunction with the Metropolitan Police (no gaps or crevices for bombs)
- Smooth, curved edges
- Quick and easy fitting of display material
- Raised letter 'B' option for partially sighted
- High quality display presentation
- Cases can be upgraded to be illuminated

Material & finish

- Timetable tray:- extruded aluminium alloy
- Top caps:- exterior quality polycarbonate
- Top cap (alternative):- also available in die cast aluminium alloy
- Display lens:- 2mm thick clear polycarbonate
- Pressure board:- 1.2mm thick aluminium alloy
- Double & triple spine:- stainless steel

Multiple Timetable Connector



Rear view of connector spine - NO Gaps to trap litter or bombs.

This enclosed system is Trueform's design and protected. Trueform is the only supplier that can offer this enclosed system.

Note: Can be fitted to ANY & Trueform's Elite, Streamline and Slimline poles and well as lamp columns

Multiple Timetable Connector (Fully enclosed)

Features:

- Robust and attractive timetable case design
- Anti-tamper security screw entry
- Innovative (design protected) double & triple case connector
- No gaps or crevices left (no litter traps, no Coke cans on top of cases)
- Designed in conjunction with the Metropolitan Police (no gaps or crevices for bombs)
- Smooth, curved edges
- Quick and easy fitting of display material
- Raised letter 'B' option for partially sighted
- High quality display presentation
- Cases can be upgraded to be illuminated

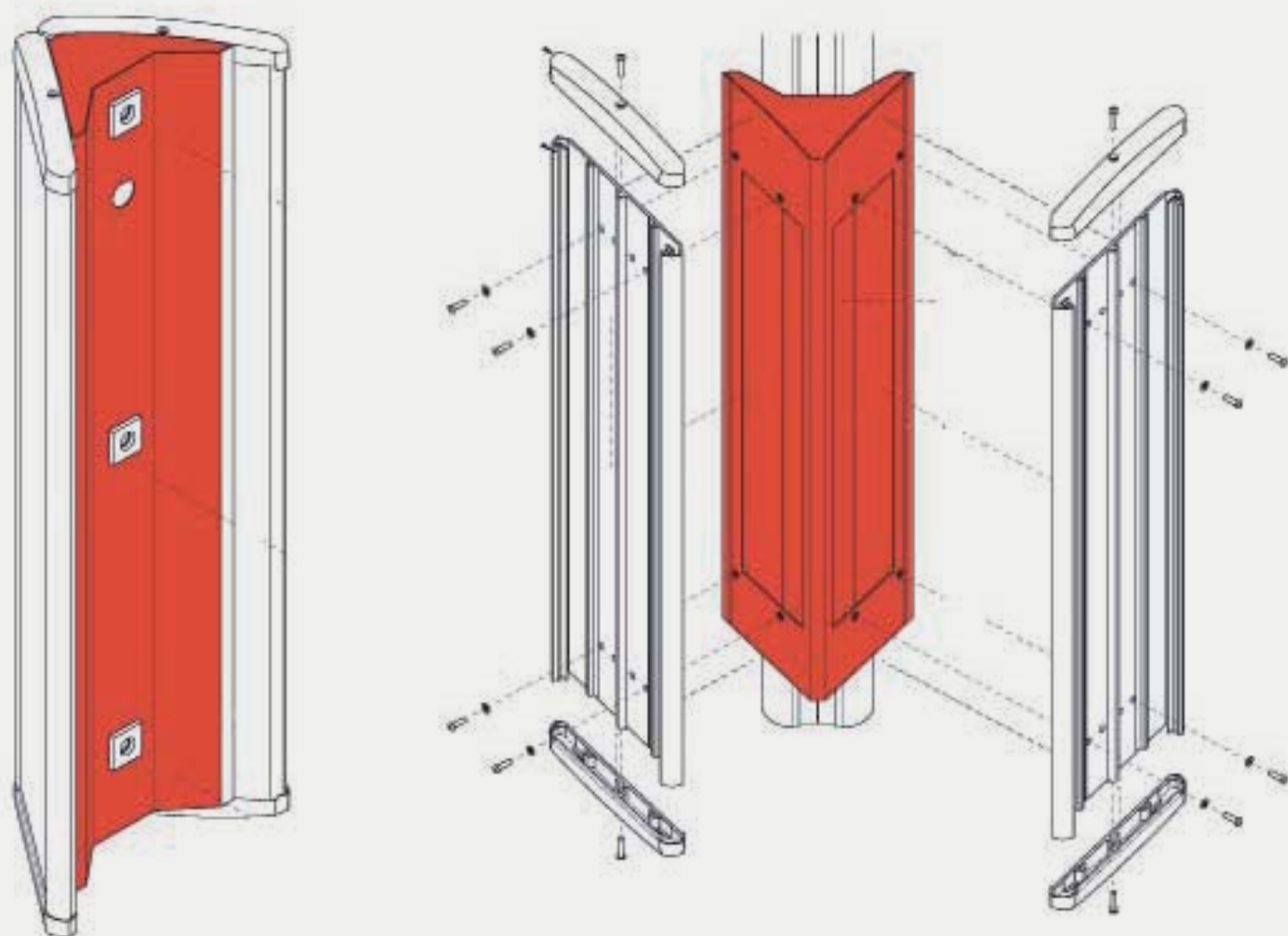
Material & finish

- Timetable tray:- extruded aluminium alloy
- Top caps:- exterior quality polycarbonate
- Top cap (alternative):- also available in die cast aluminium alloy
- Display lens:- 2mm thick clear polycarbonate
- Pressure board:- 1.2mm thick aluminium alloy
- Double & triple spine:- stainless steel

Connector Brackets Double & Triple

2

Connector Brackets Double & Triple



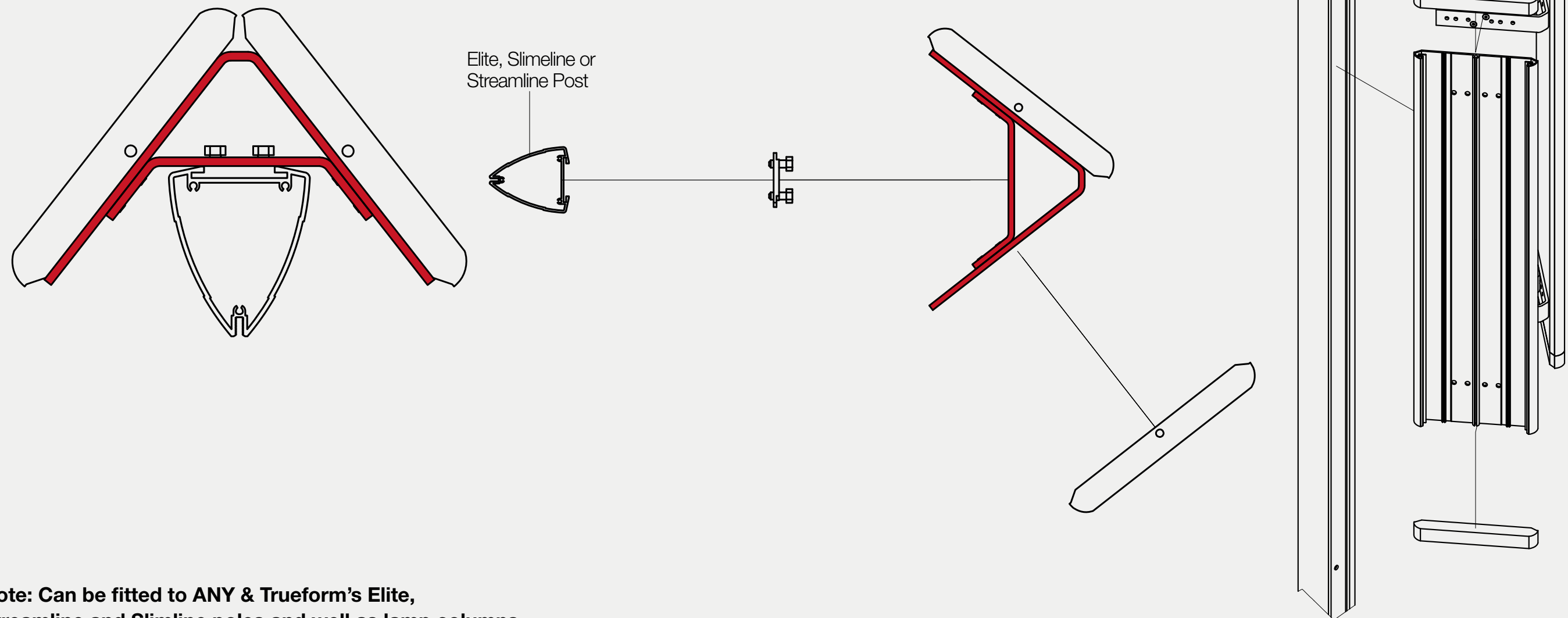
Note: Can be fitted to ANY & Trueform's Elite, Streamline and Slimline poles and well as lamp columns



Double Display Carrier Butterfly

2

Double Display Carrier Butterfly

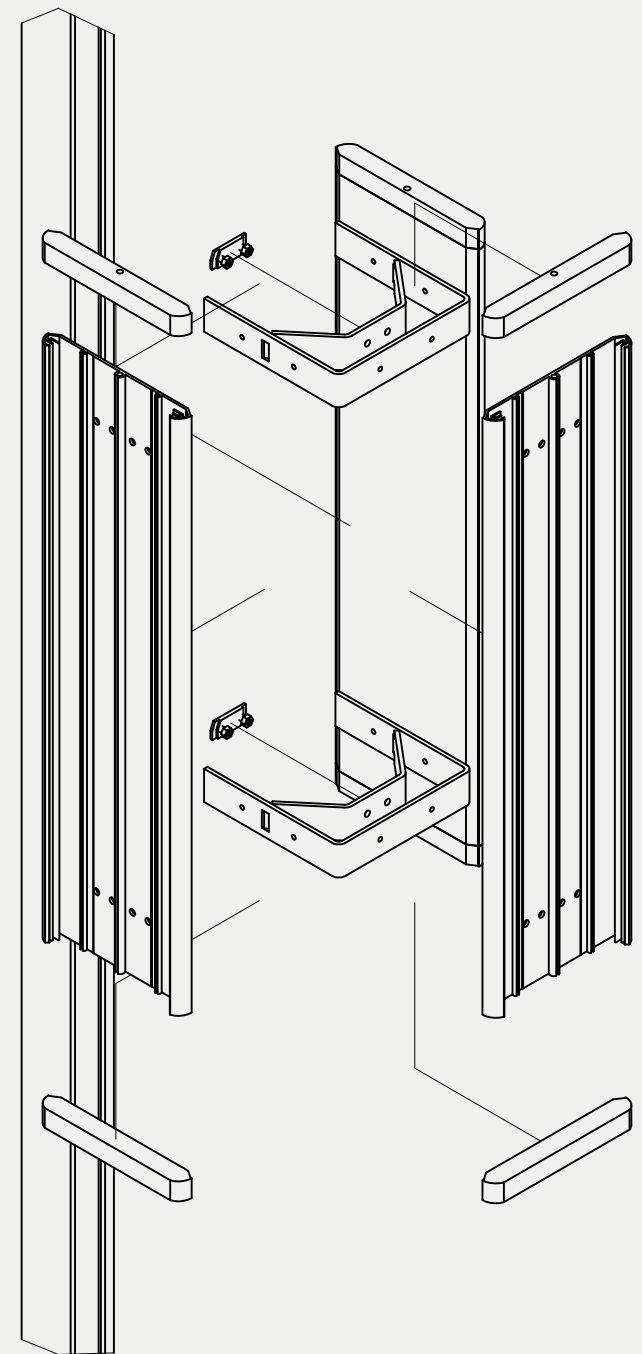
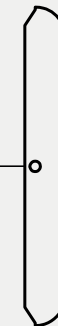
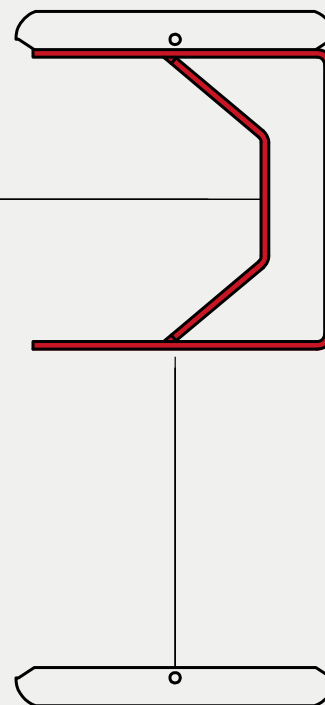
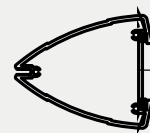
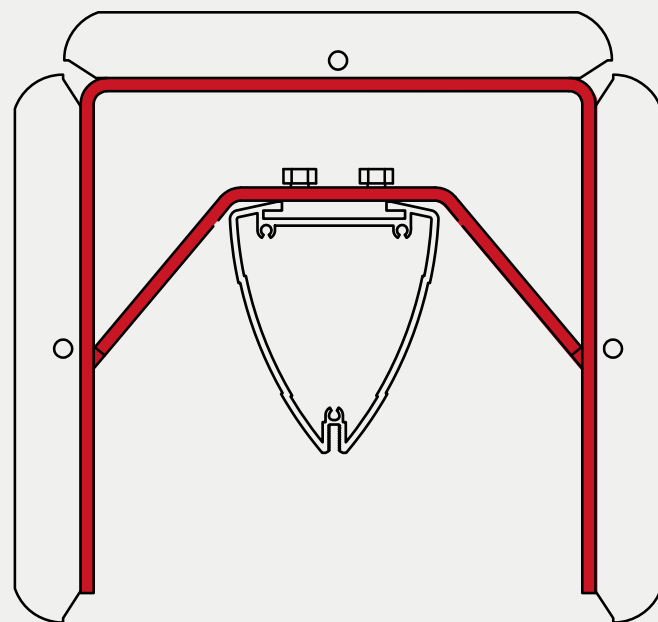


Note: Can be fitted to ANY & Trueform's Elite, Streamline and Slimline poles and well as lamp columns

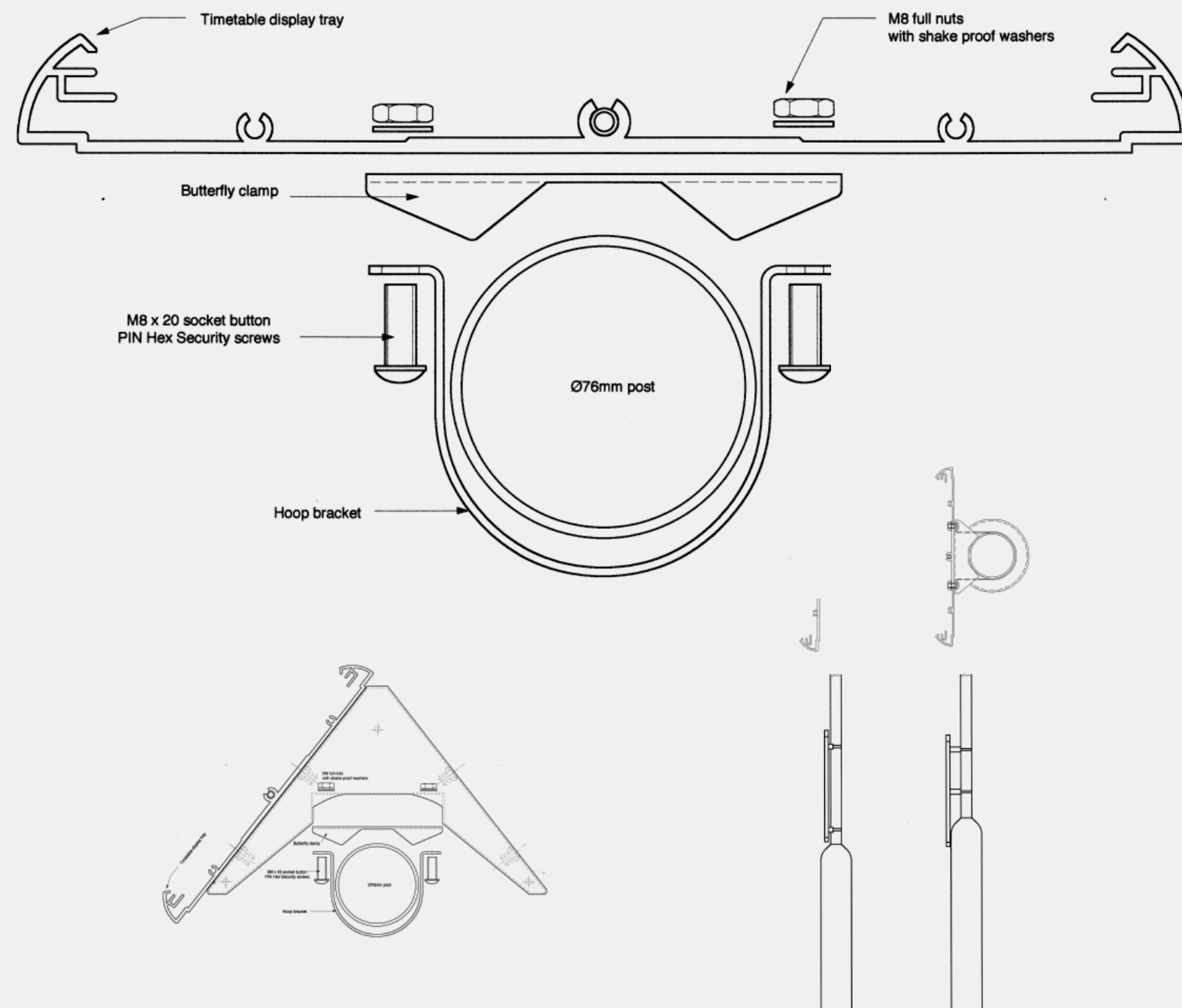
Triple Display Carrier Butterfly

2

Triple Display Carrier Butterfly



Note: Can be fitted to ANY & Trueform's Elite, Streamline and Slimline poles and well as lamp columns



Timetable to Lamp Column Fixing Details

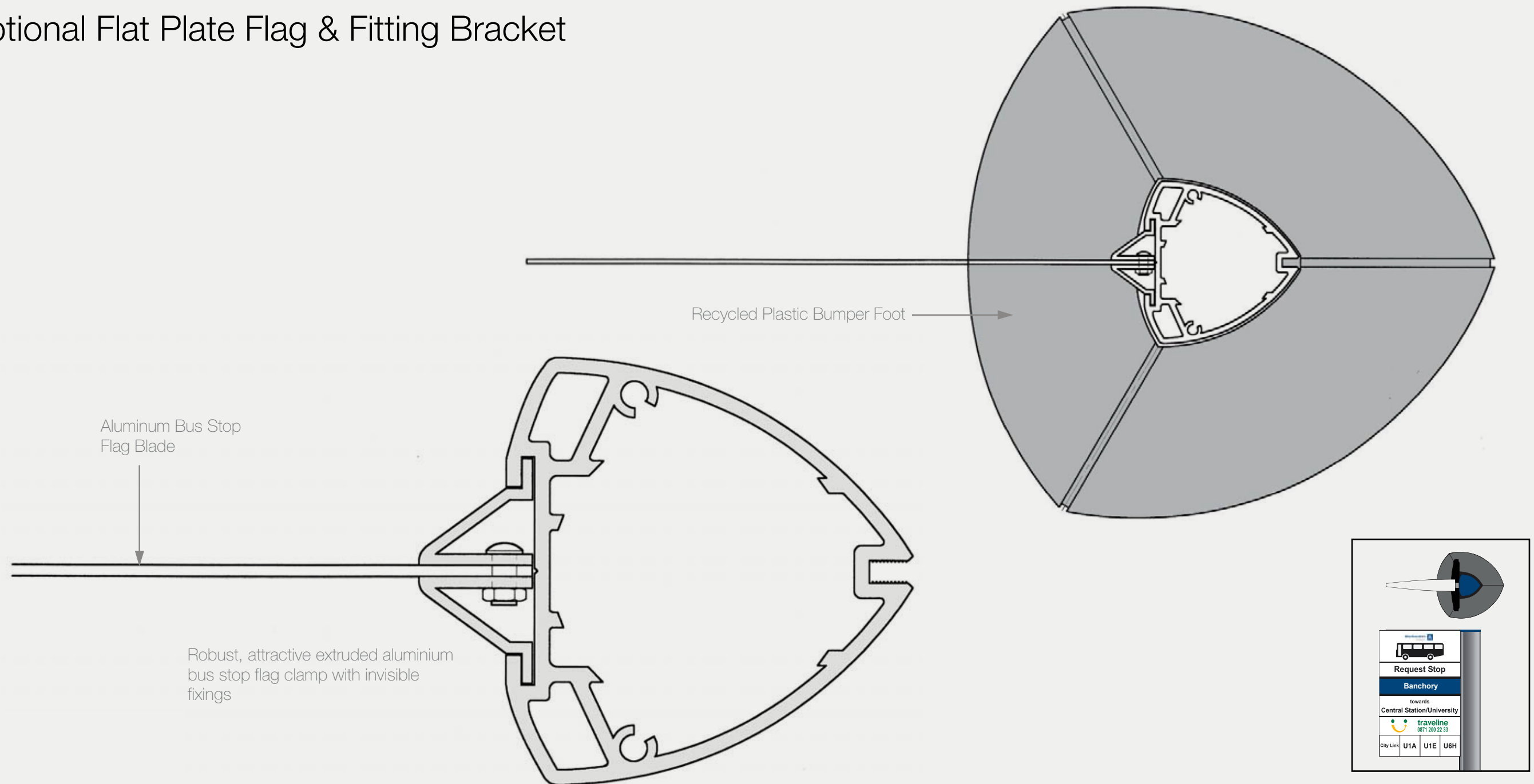
Notes:

Trueform have a wide range of tried and tested brackets available for the secure fitting of display cases to 76mm posts and lamp standards.

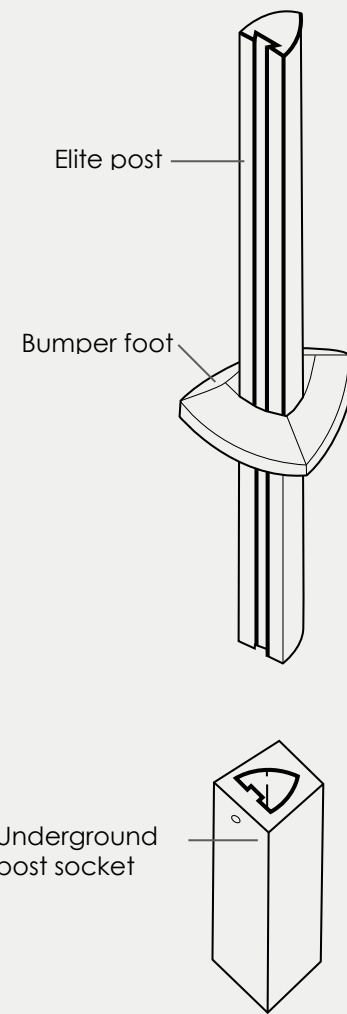
Trueform's Elite bus stop cluster has 3 designated fixing points to enable fixing to lamp standards of varying thickness and can even cope with the large defence in diameter at the base of the lamp standard.

The main timetable display and double and triple cluster connector is the same component as used on standard Elite bus stop installations.

Optional Flat Plate Flag & Fitting Bracket

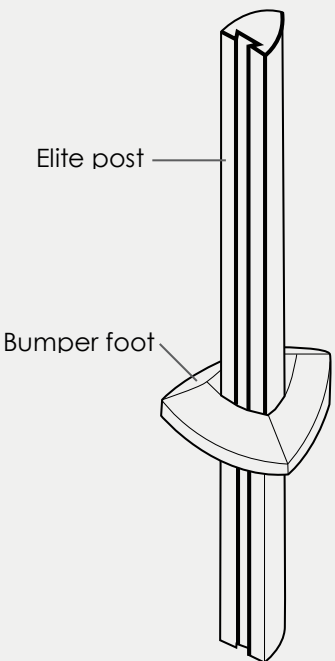


Elite Bus Stop Foundation Options



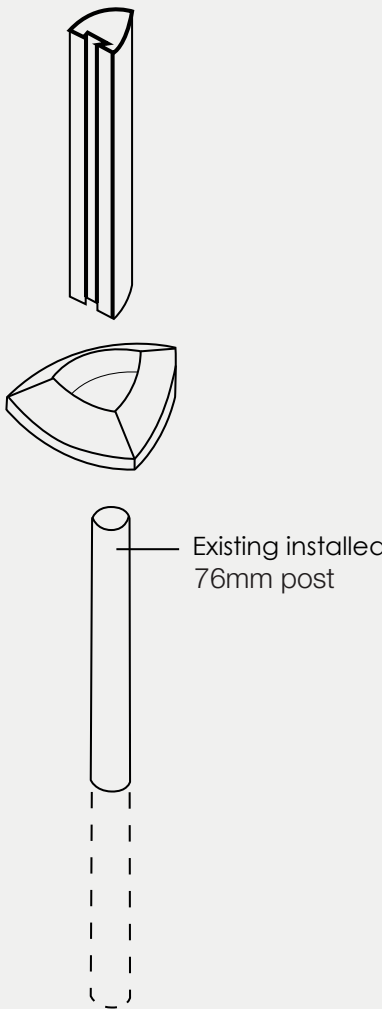
Standard Foundation
Special underground socket system

Option 1



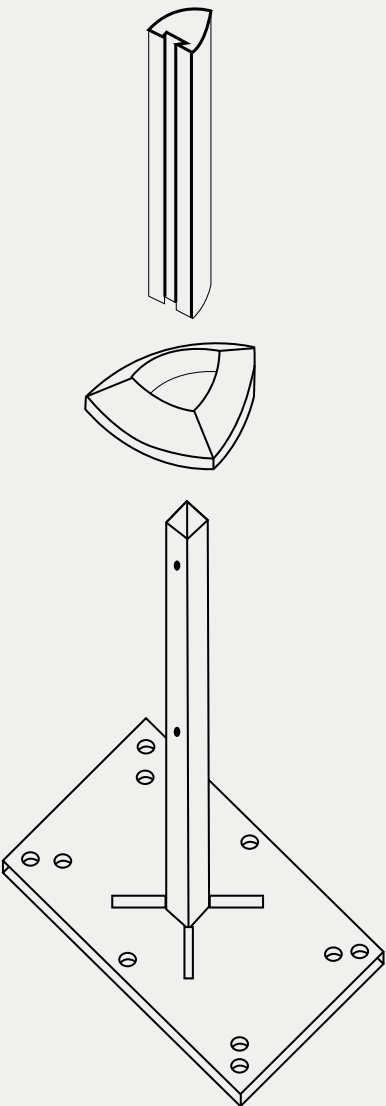
Post cast directly into ground

Option 2



Trueform Patented Design
Post over post (sleeve) option
76mm/3" diameter

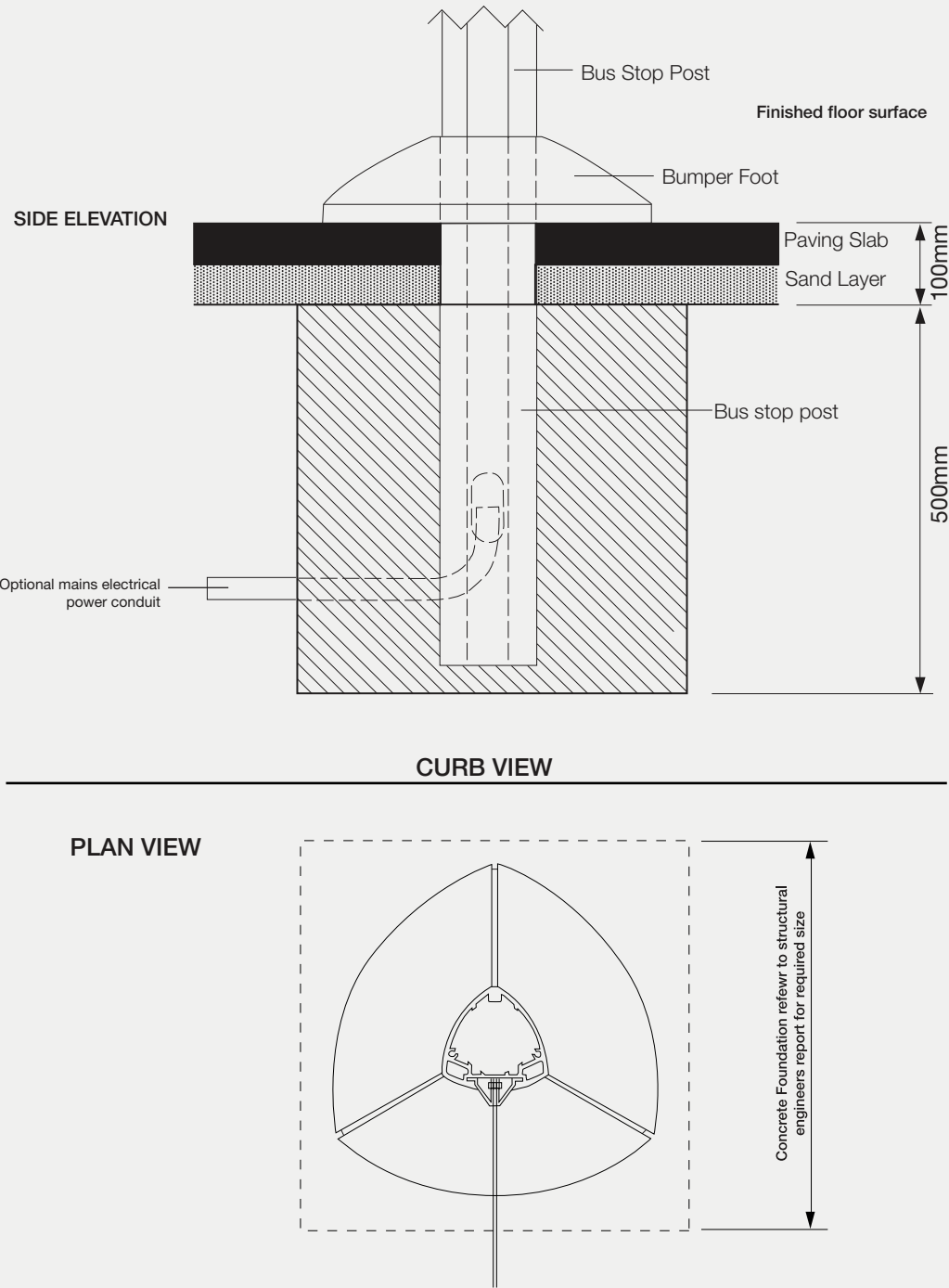
Option 3



Restricted Depth Foundation
(used over services, cellars etc.)

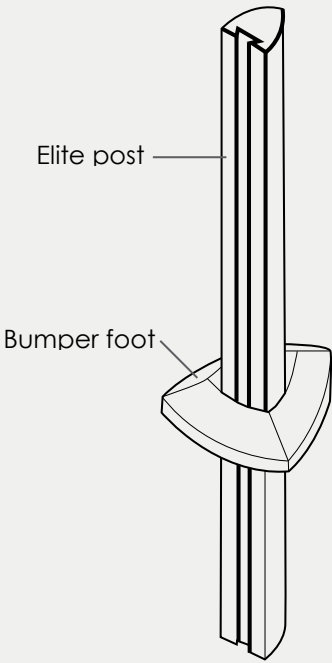
Option 4

Elite Bus Stop Foundation Option 2

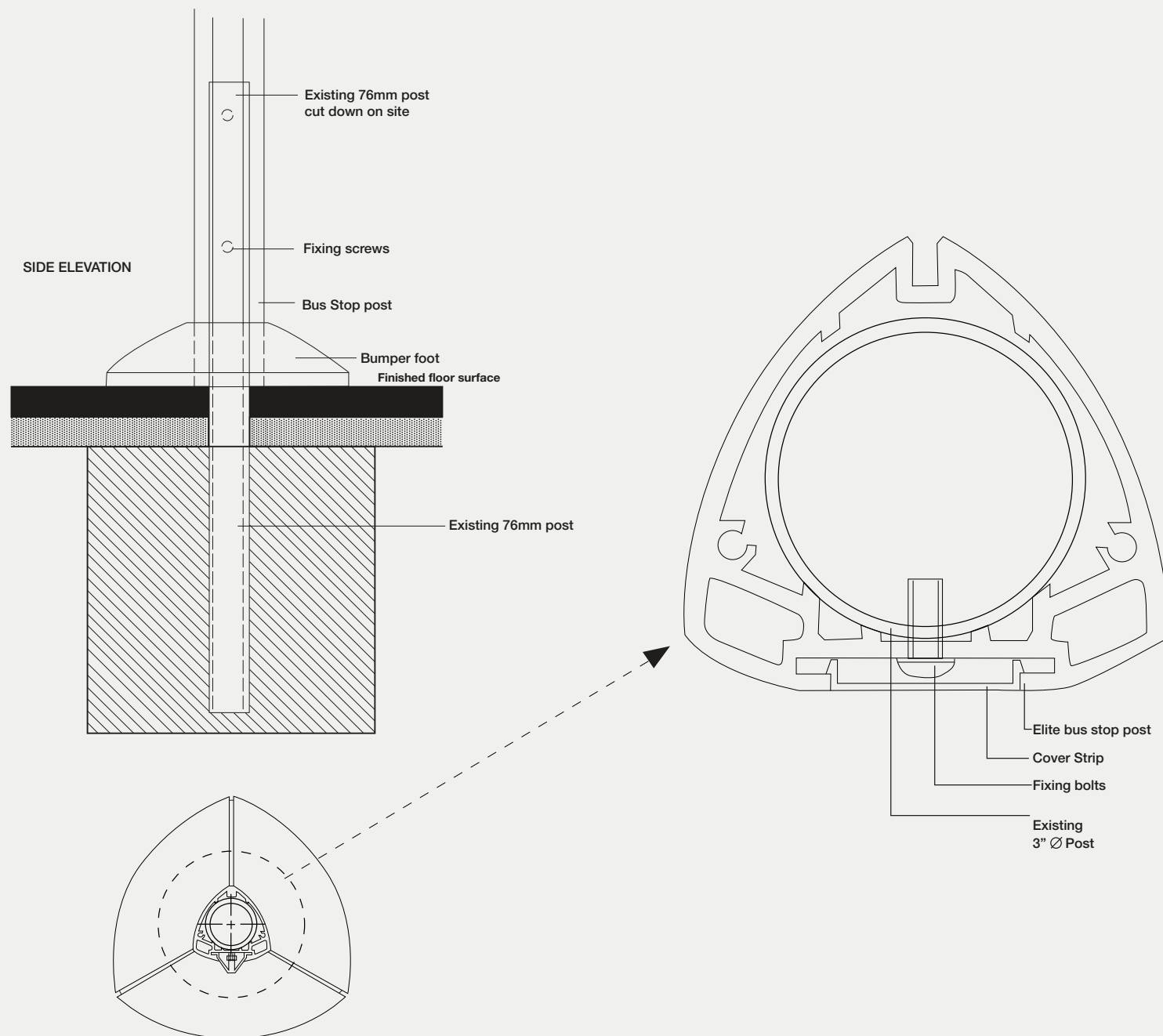


Elite Foundation Option 2

Trueform's Elite bus stop poles can be installed directly into the ground. The lower (underground) section of the pole is treated with bitumen paint and rapid setting cements are recommended to aid quick, accurate setting of post.



Elite Bus Stop Foundation Option 3

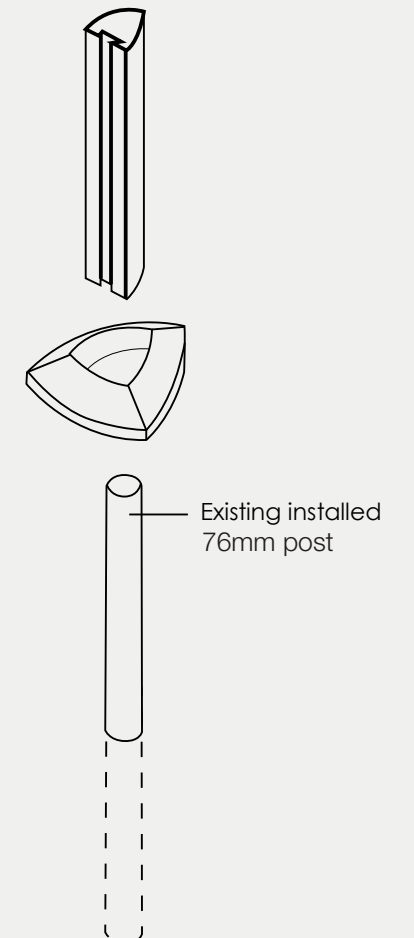


Elite Foundation Option 3

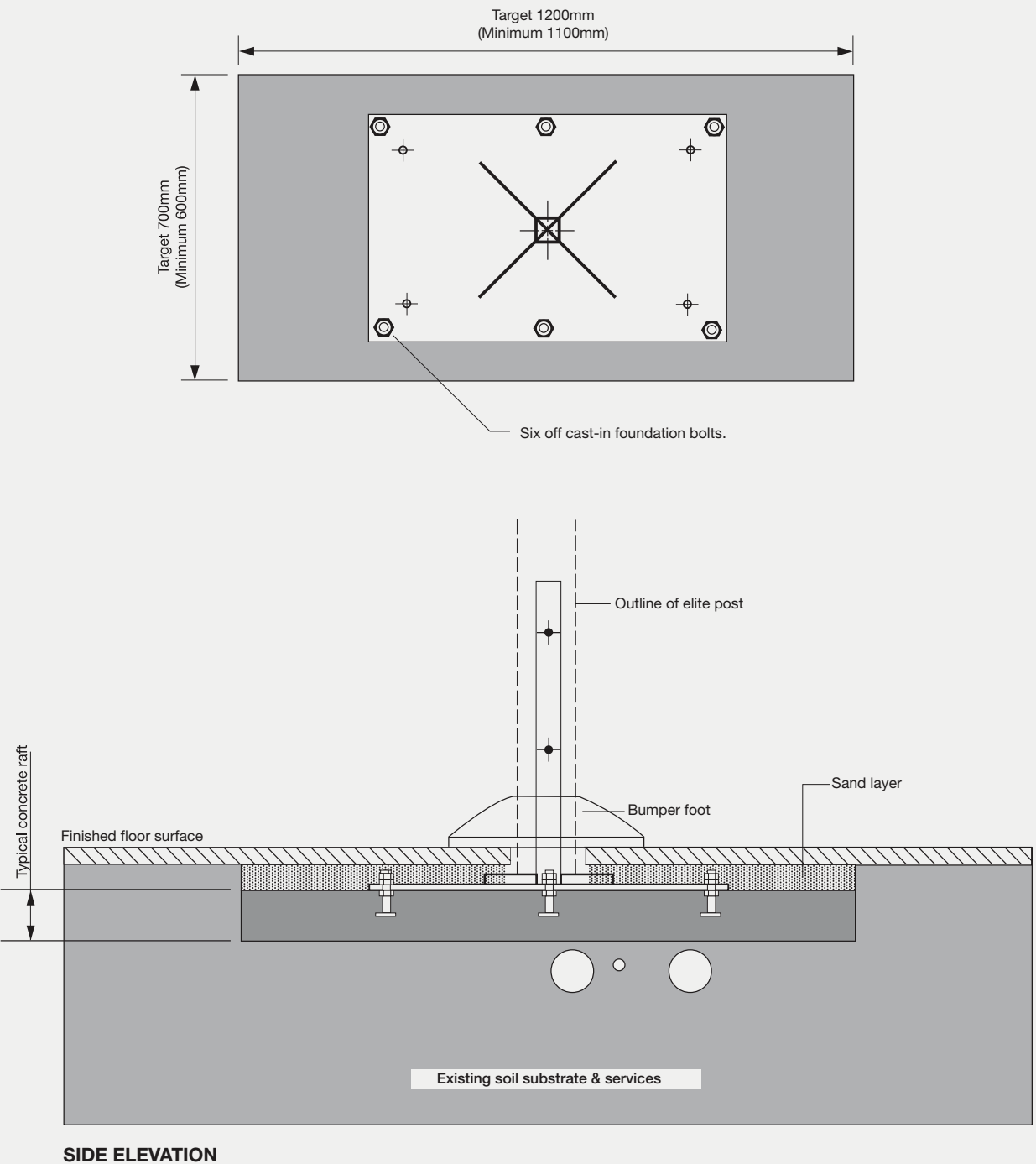
Trueform's patented post over post system enables the rapid erection of bus stop poles, without having to break into the finished floor surface. Designed for low cost, rapid erection of bus stop poles, the post over post system has been used successfully in many applications.

Advantages of the socket system include:

- Rapid erection of bus stop poles,
- Low cost
- Opening notices and utilities information not required
- No civils work and re-instatement required
- Can use non-civils erection teams



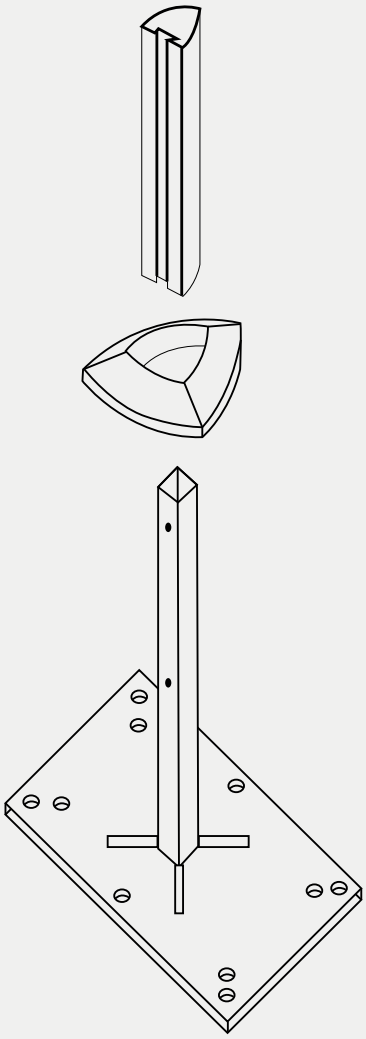
Elite Bus Stop Foundation Option 4



Elite Foundation Option 4

Trueform's restricted depth foundation system enables the safe, secure erection of bus stop poles at difficult locations which would otherwise inhibit installation, including:-

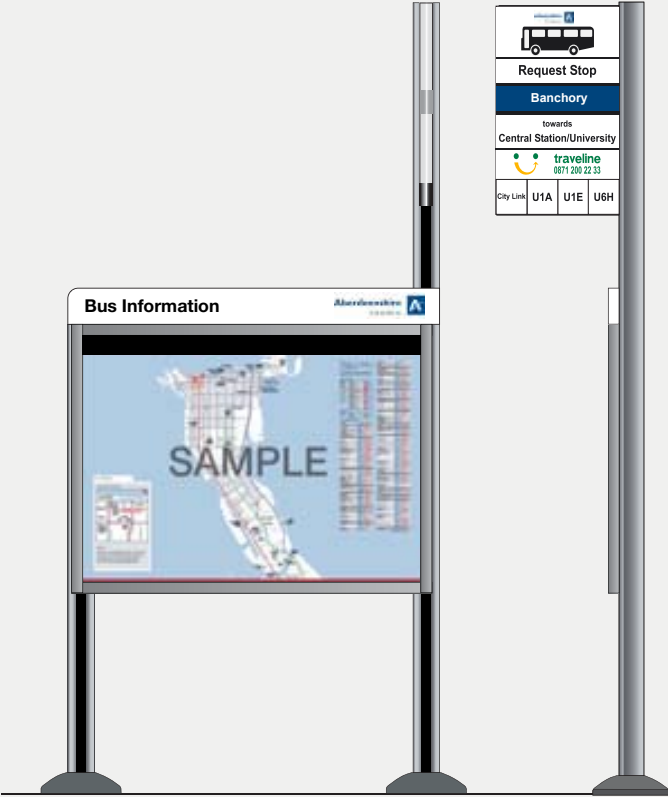
- Underground services,
- Very hard digs / concrete rafts
- Cellars
- Underground car parks
- Bridges
- Large tree roots



Elite Bus Stop Extended Range

2

Elite Bus Stop Extended Range



Advertising Display



Advertising Display



Totem with RTPI and Audio

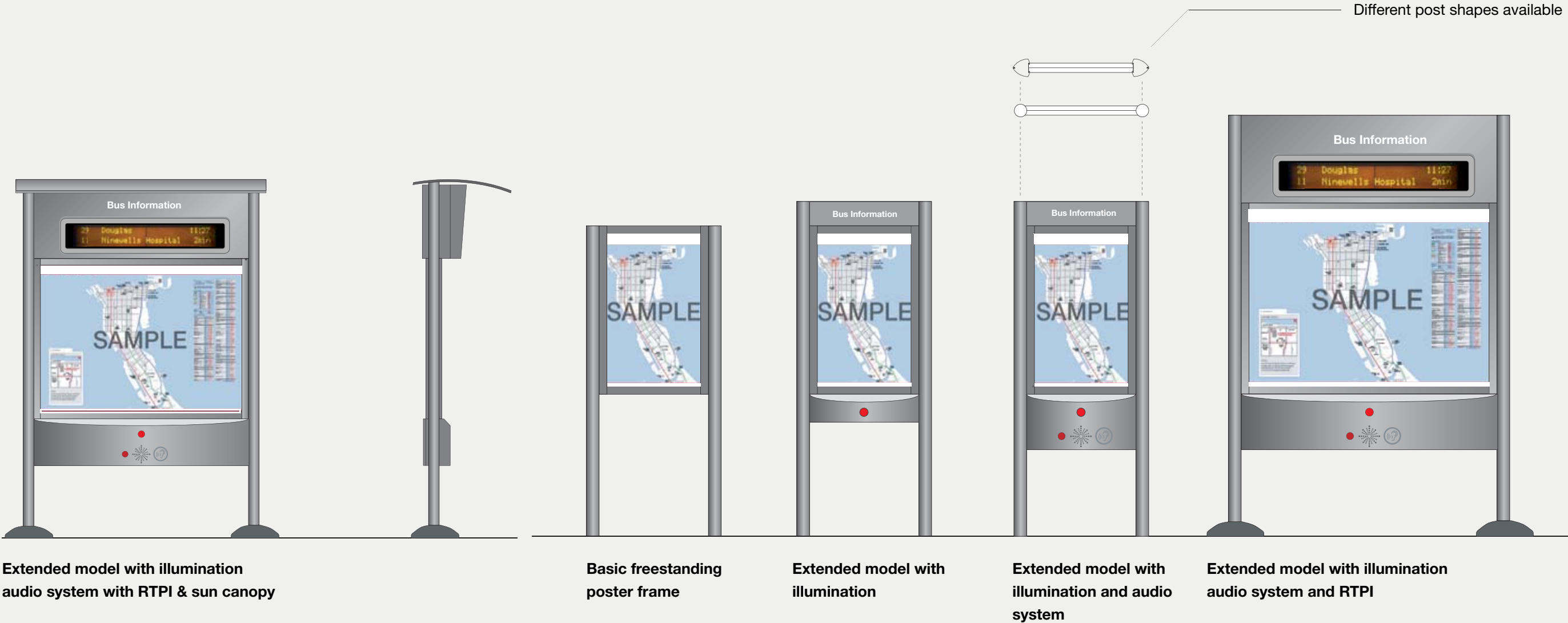


Totem with Audio

Elite Bus Stop Extended Range

2

Elite Bus Stop Extended Range



Elite Bus Stop Extended Range



Elite Bus Stop Anatomy of an Elite Solar Stop



Elite Bus Stop Anatomy of an Elite Solar Stop



13



14



15



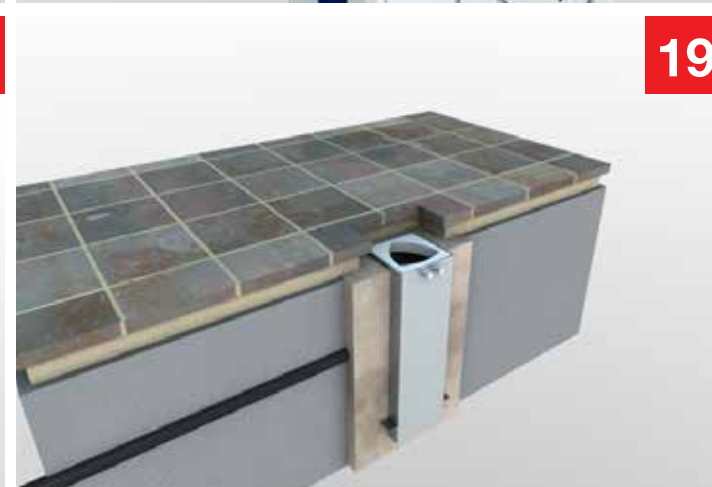
16



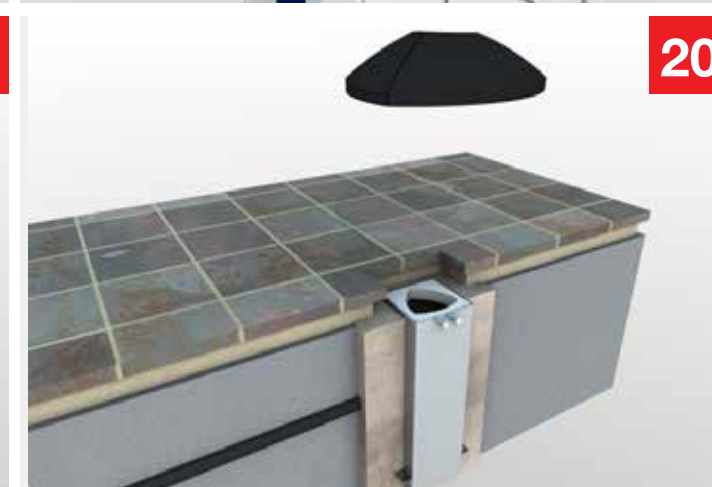
17



18



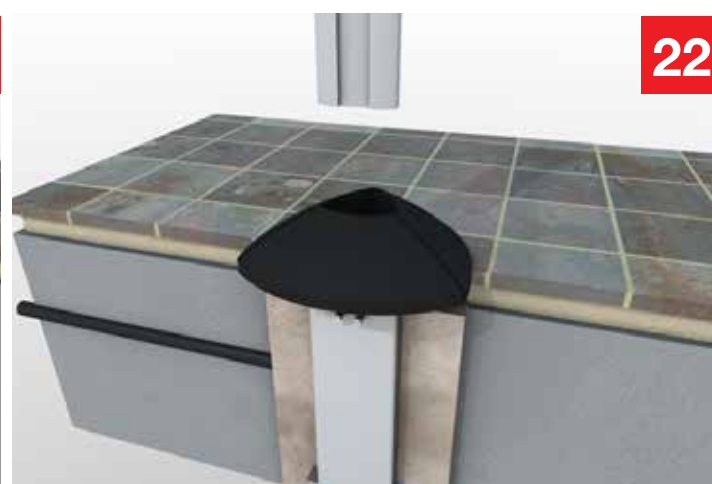
19



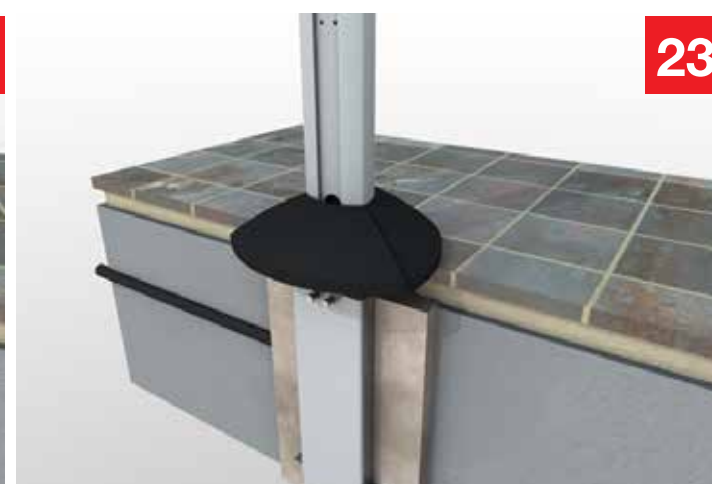
20



21



22



23



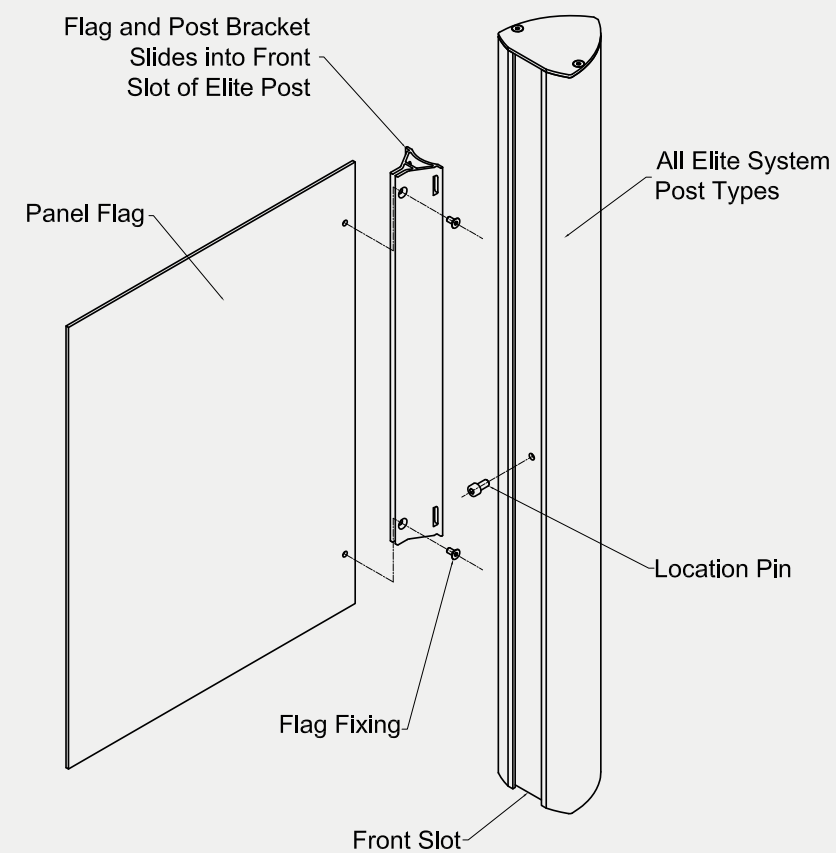
24

Elite Bus Stop Case Study - TfL

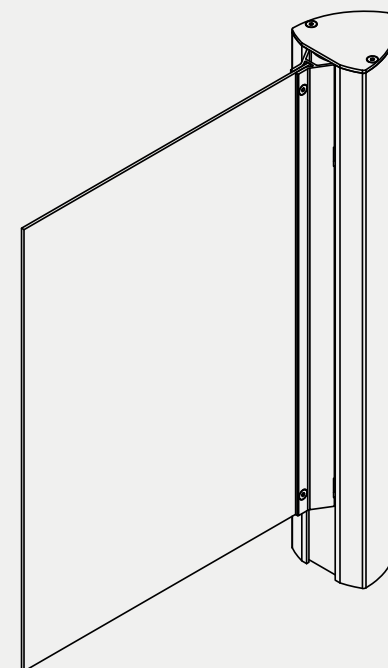


Examples of TfL bus stops manufactured, installed and maintained by Trueform

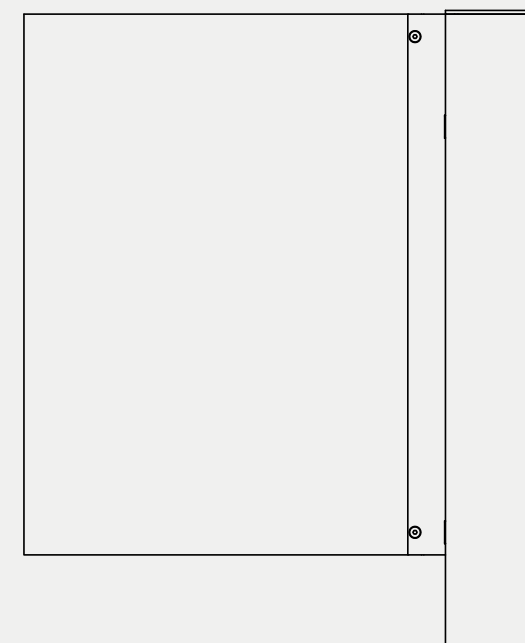
Flag Options Flag Option 1



Exploded Isometric



Front Isometric



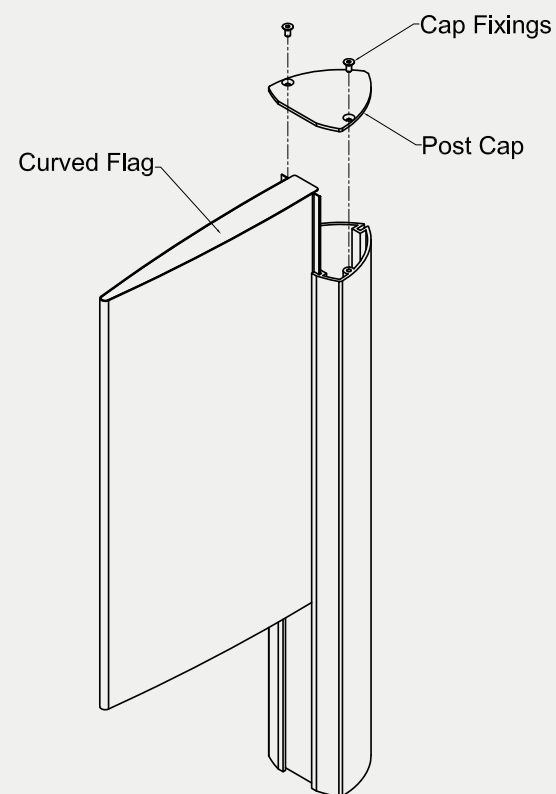
Front Elevation



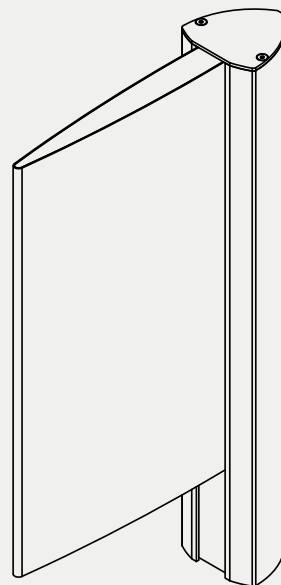
Plan Elevation

Shown on Elite post - also fits onto Slimline post

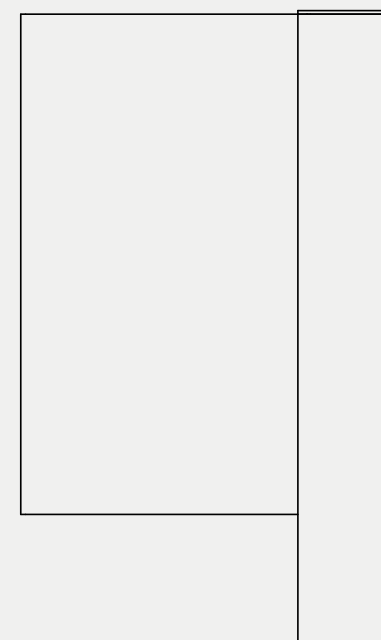
Flag Options Flag Option 2



Exploded Isometric



Front Isometric



Front Elevation



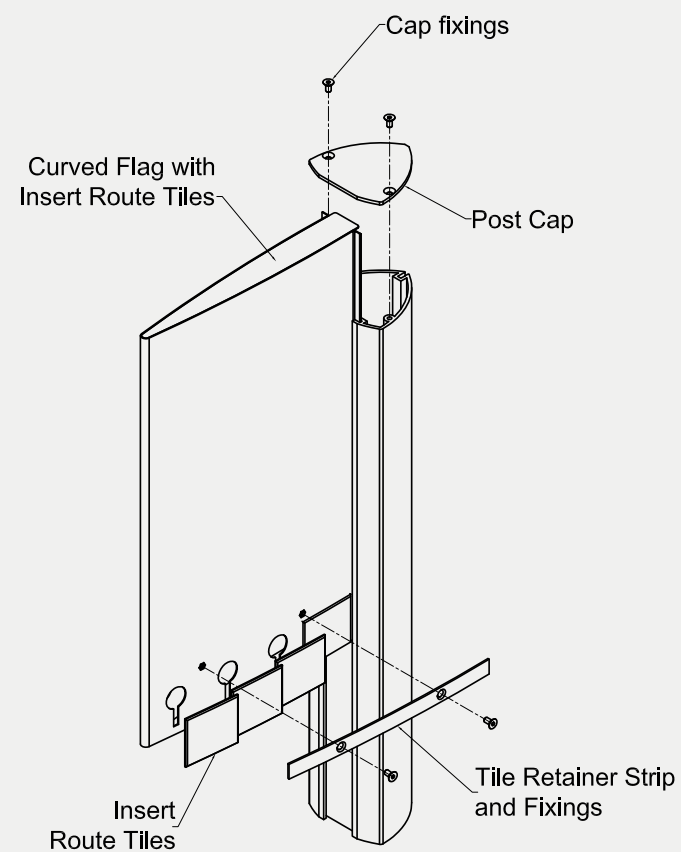
Plan Elevation

Shown on Elite post - also fits onto Slimline post

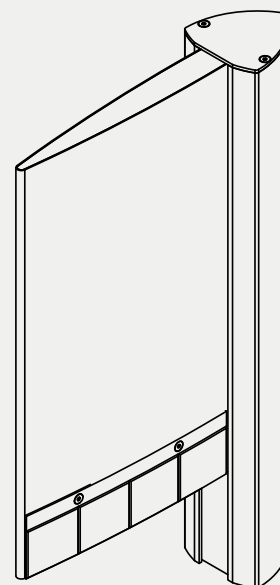
Flag Options Flag Option 3

3

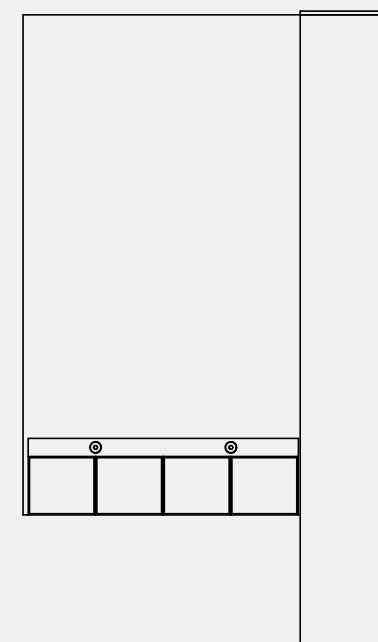
Flag Options Flag Option 3



Exploded Isometric



Front Isometric



Front Elevation



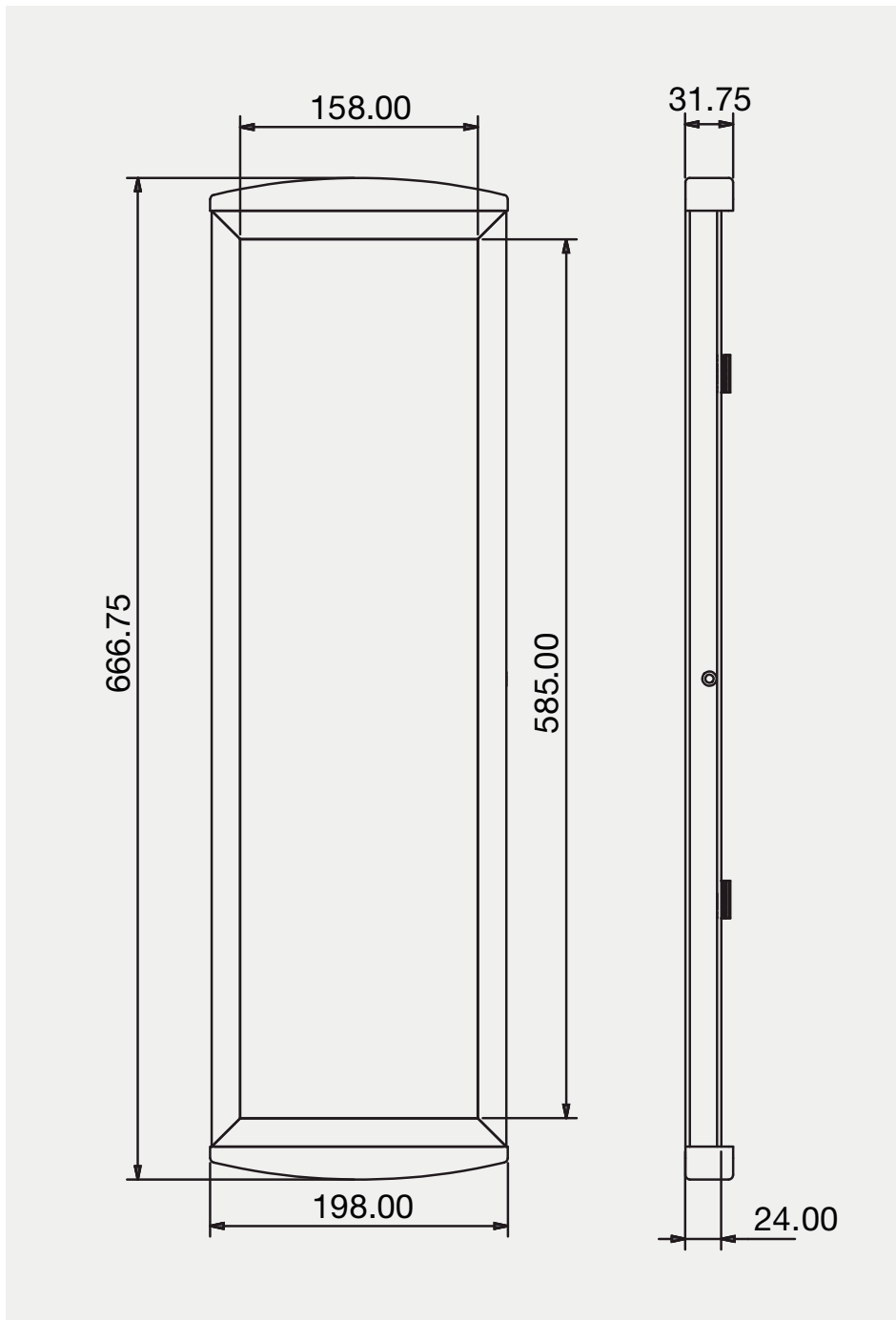
Plan Elevation

Curved route tile flag shown on Elite post - also fits onto Slimline post

Hinged Door Option



PTE Side Hinge Timetable Case



Elite Side Hinged (winnipeg) Timetable Case

