

SHELTERS



PARAGON
PARAGON ANTI-VANDAL
CHILTERN
CLIFTON
ROADSIDE
PARAMOUNT
SPECIAL DESIGNS

MACEMAIN + AMSTAD

DESIGNERS AND MANUFACTURERS OF ARCHITECTURAL STRUCTURES AND STREET FURNITURE

SHELTERS

Macemain + Amstad specialise in the design and manufacture of waiting enclosures, architectural structures and street furniture.

Most projects can be met by choosing a combination of products from our standard ranges. Standardised components enable us to streamline the design and specification process, resulting in cost savings and significantly reduced lead times. Macemain + Amstad offer a full design, manufacture and installation service.

Extensive experience over many years, particularly in transport infrastructure with clients like Railtrack, Airport Authorities and Local Councils, has led us to high profile projects such as the Transit Centre and Bus Station at the Bluewater Shopping Centre.

Full details of all Macemain + Amstad products are available upon request, and our technical sales advisers are qualified to answer most queries by telephone, fax or email.

BASIC PRINCIPALS

Macemain + Amstad offer six ranges of shelter under the following brand names:

PARAGON

PARAGON ANTI-VANDAL

CLIFTON

CHILTERN

ROADSIDE

PARAMOUNT

Within each range is a wide choice of configurations covering glazing, roof shapes, seating, services and accessories.

A full design-to-build service is offered for non-standard and special projects. Further information is available on our website at www.macemainamstad.com. All shelters are designed to require low maintenance.

ALL SYSTEMS ARE MODULAR:

Many of these shelters use common or compatible components, enabling specifiers to mix and match, creating a virtually limitless portfolio of configurations. For guidance and advice contact:

01536 401331

www.macemainamstad.com

Design and manufacture

On completion of the approved specification, Macemain + Amstad's precision manufacturing safeguards high levels of quality and consistency. Environmentally-friendly manufacturing processes are used and our project experience and manufacturing capability is outlined in our corporate brochure, a copy of which can be obtained from customer services on 01536 401331.

Finishing

Aluminium components are alachromed (ISO 527) and electrostatically polyester powder coated to a thickness of 100 microns as standard, in the full range of RAL or BS colours.

Steel components are galvanised to BS 729, ISO 1461 iron phosphated to BS 3184 type 4, and then electrostatically polyester powder coated as standard, again in any of the full range of RAL or BS colours.

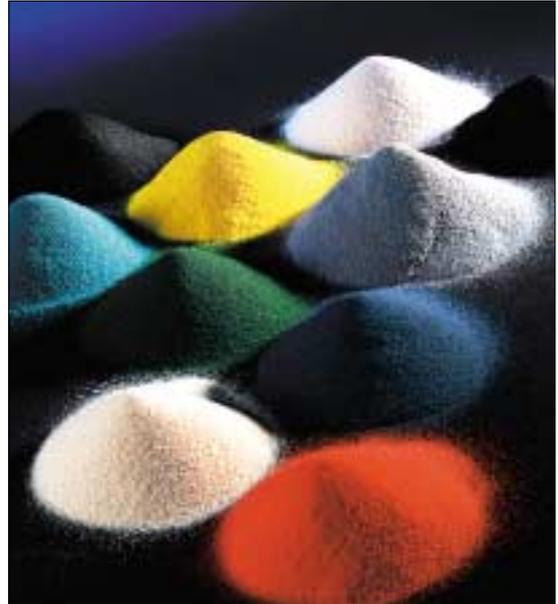
Anti-graffiti coatings are available on metal and glass surfaces as an optional extra. See pages 12-15.

Installation

Macemain + Amstad offer a complete turnkey service. Thirty years' experience has solved virtually every challenge a specifier might encounter from simple seating right through to mass transportation passenger zones and special projects.

We can advise on and provide foundation arrangements and ground fixings and, in conjunction with structural engineers, can provide calculations for building regulation approval as an additional service.

Finished shelters are transported to site in flat form enabling easy access and fast installation in any location.



Specify colours in any combination.



In-house design team with CAD routing straight through to the manufacturing process.



All installations completed by Macemain + Amstad skilled fitters.

OPTIONS



PARAGON
pages 6 - 9



PARAGON Anti-Vandal
pages 10 - 15



CHILTERN
pages 16 - 19

Roof shape			
Low barrel	■	■	
Barrel			
Flat			■
Peaked	■		■
Roof infill			
Polycarbonate	■		
Metal	■	■	■
Stainless steel		■	
Glazing systems			
Tab	■		■
Mid-rail tab	■		■
Rebated frame	■	■	■
Integral rebated system			
Integral mid-rail			
Glazing materials			
Glass	■	■	■
Polycarbonate	■		■
Solid	■	■	■
GRP	■		
Electrical			
Longitudinal integral lighting	■	■	
Central roof			■
Bulk head			
Solar panel system	■	■	
Integral uplighting			
Seating			
Bench	■		
Perch	■	■	■
Finishes			
Polyester	■	■	■
Galvanised	■		
Stainless steel		■	
Anti-graffiti coating		■	
Rain management			
Total integral	■	■	



CLIFTON
pages 20 - 23



ROADSIDE
pages 24 - 27



PARAMOUNT
pages 28 - 29

			<p>NOTES</p> <p>Accessories:</p> <p>Shelters can be specified with accessories including signage, notice boards and timetable cases, real time display. Macemain + Amstad manufacture a full range of complementary products such as seating, litter bins and bollards. Please ask for details.</p> <p>Roof infill:</p> <p>Standard roof panels are 3mm thick, clear polycarbonate.</p> <p>Polycarbonate:</p> <p>Standard side glazing panels are 6mm thick, clear UV stabilised polycarbonate.</p> <p>Glass:</p> <p>Clear toughened glass is used as standard in different thicknesses depending on the style of shelter.</p> <table> <tr><td>Roadside</td><td>6mm</td></tr> <tr><td>Clifton</td><td>6mm</td></tr> <tr><td>Chiltern</td><td>10mm</td></tr> <tr><td>Paragon</td><td>10 - 12mm</td></tr> <tr><td>Paragon AV</td><td>10 - 12mm</td></tr> </table> <p>Glass may be screen-printed and fired to carry logos and other designs.</p> <p>Powder coating:</p> <p>Powder coated elements are prepared with a six stage pre-treatment process prior to coating.</p> <p>Anti-graffiti coating:</p> <p>See pages 11-14</p>	Roadside	6mm	Clifton	6mm	Chiltern	10mm	Paragon	10 - 12mm	Paragon AV	10 - 12mm
Roadside	6mm												
Clifton	6mm												
Chiltern	10mm												
Paragon	10 - 12mm												
Paragon AV	10 - 12mm												
■	■												
■													
■	■	■											
■													
■	■	■											
■													
		■											
		■											
■	■												
■	■												
		■											
■	■												
■	■	■											
	■	■											
	■												





Rebated frame & bench seats



Cantilever wishbone detail



GRP ribbed panel



Paragon bus shelter



Perch seat detail



Pig-nose glass fixing

The Paragon range is Macemain + Amstad's most widely used waiting enclosure. The Paragon system extends to walkways, canopies, bus shelters, trolley bay enclosures, waiting rooms, smoking shelters, cycle enclosures, seating, litter and fire bins. Paragon is suitable for both simple or complex structures, from shelters to fully enclosed and carpeted building links.

PARAGON

Design features

Like all Macemain + Amstad shelters, the Paragon system is based on a wide range of standard components to streamline the design and specification process, reducing costs and lead-times.

Paragon's structural upright columns have a distinctive hollow cast aluminium "wishbone" which connects to the wedge-shaped eaves and carries services such as drainage, electrics and/or fibre optics. The eaves extrusion is completely compartmentalised to separate services. The low barrelled roof infill panels are usually UV stabilised polycarbonate sheeting.

Aluminium extrusions are used extensively with some structural elements in galvanised steel. The combination of structural steel and aluminium allows glazing to sit independently from the structure. Because of the strength obtained from the major SHS steel columns, the Paragon can be specified for wide span areas without the need for additional supports. All elements are compatible, complementary, and can be arranged in any format.

The three main features of the Paragon design are:

- i) wedge shaped gutter extrusion incorporating a longitudinal lighting track running the full length of the shelter (lighting available as an optional extra) and drainage/water management.
- ii) cast aluminium "wishbone" feature with integral drainage or electrical function.
- iii) three glazing system options as standard (see right).

Standard modules

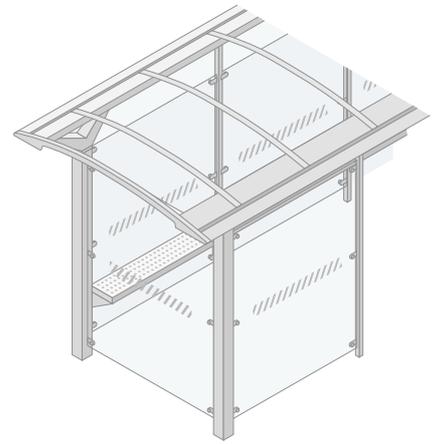
The Paragon is based on a 1500mm modular construction in both its length and width but is adaptable so that all site dimensions can be maximised. The roof overhangs the enclosure by 275mm to each side and 500mm at both ends.

Options and accessories

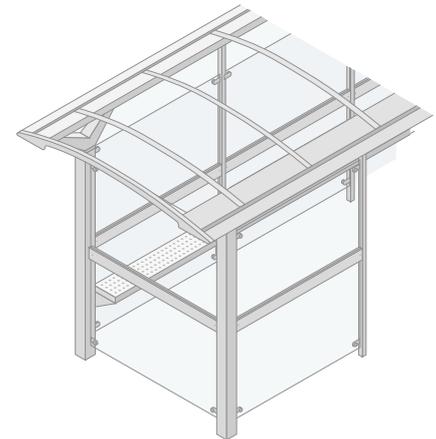
Please see pages 4-5. Accessories include curtain lighting, litter bins, plank seating, signage, timetable cases, flag brackets, real-time display, advertising panels.

Glazing Options

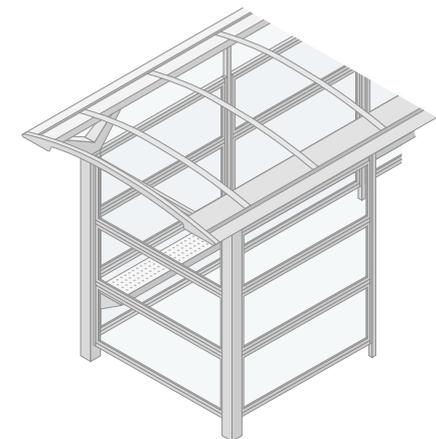
Tab fixed glazing.



Tab fixed mid rail arrangement.



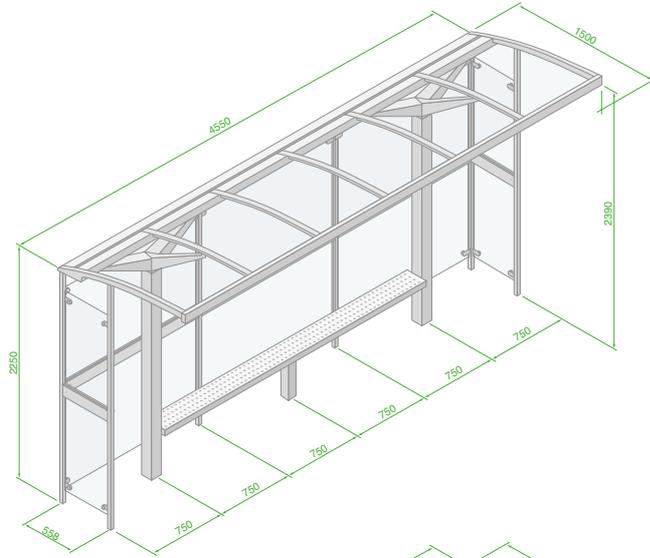
Rebated frame.



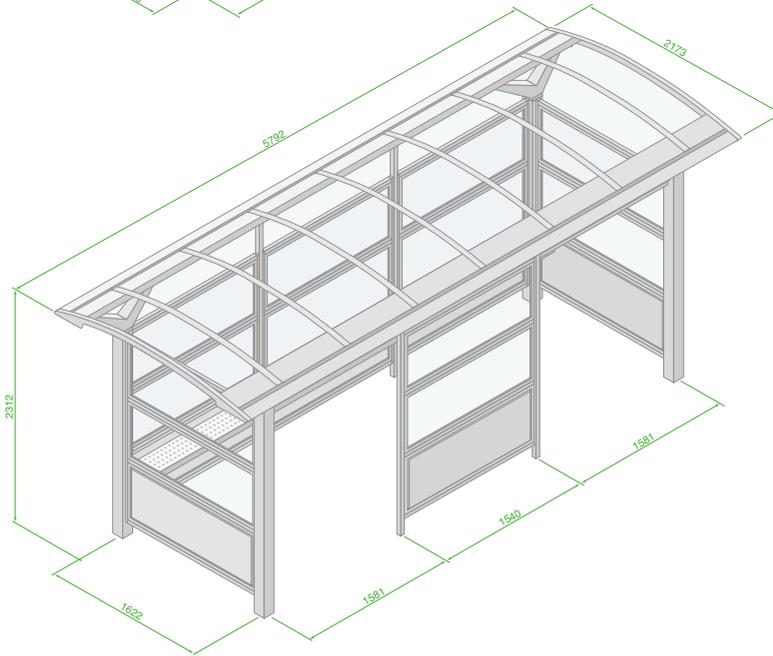
Drainage and electrical services (see diagram right)

1. Fluorescent light fitting.
2. Flush fitting opaque diffuser.
3. Cover plate.
4. Electrical feed.
5. Drainage gutter.
6. Longitudinal wedge extrusion.
7. Electrical control gear.
8. Stainless steel rainwater outlet.
9. Structural columns.
10. Aluminium cast wishbone.

Cantilever 3 bay, mid-rail glazing with half ends.



Enclosed 3 bay double-entry, triple rebated frame glazing.



Enclosed double entrance



Open fronted design



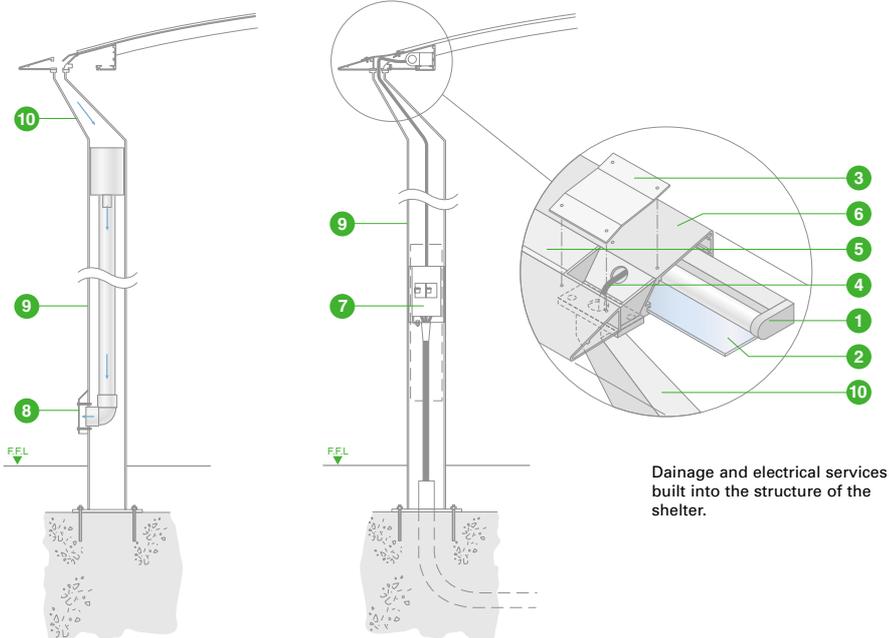
Shelter and seating



Concealed drainage/electrical



Paragon cycle shelter



Drainage and electrical services built into the structure of the shelter.

Typical section through drainage column.

Typical section through electrical column.

Note: Fixing can be to suitable foundations at finished floor level or below surface.





Paragon anti-vandal shelter



Wishbone



Perch seat detail



Fast-track construction



Enclosed waiting room

Stainless steel vandal-resistant shelter

The Paragon AV was developed from an original brief by Railtrack in 1998. Every aspect of the Paragon design was examined and modified to withstand vandalism and reduce maintenance costs. Extensive use of textured stainless steel has been introduced, replacing polyester powder coated components. Anti-graffiti coating is applied to all glass surfaces and smaller glass panels are specially rebated with all edges rubber-cushioned. Textured solid stainless steel panels can be specified instead of glass where required.

The Mark I design was installed in 1998 at an unmanned station with a history of vandalism. It stood up to the best efforts of vandals over a two year period to the satisfaction of both Railtrack and the train operator. The Mark III model (above) is the result of continued development and further improvements.

Design Registration Numbers: 2102192 to 2102199

PARAGON Anti-Vandal

Design features

Standard design features of the original Paragon shelter remain the basis for the Paragon AV, with the prominent difference being its embossed stainless steel finish and small glazed panel framing system. The steel is virtually impossible to deface. Solid embossed stainless steel laminated panels can be used instead of glass panels. All fastenings are concealed wherever possible.

Polyester powder coated elements have been retained only in hard-to-reach places such as the roof and wishbone so that clients may continue to feature their own corporate colours. The Paragon AV is available in two glazing formats, AV3 (sub-divided into 3 panels) and AV9 (sub-divided into 9 panels).

Detail modification

The standard wedge-shaped heavy-duty aluminium extrusion has been retained to incorporate the water management gutter system. A segmented electrical trunking section houses fully recessed light fittings and flush fitted opaque diffusers.

'H' section extruded aluminium ribs are reinforced with a vertical upstand capable of withstanding a point loading of 150 kilos. These rib extrusions hold infill panels manufactured from textured stainless steel with a reinforced safety edge.

The shelter's construction is designed for fast-track on-site erection with a dovetail bracketing system. This means that entire shelters can be installed and ready for use in a few hours. Disabled access and a full turning circle for wheelchairs can be accommodated by removing the optional perch seating from one bay.

Standard modules

The Paragon AV is based on a 1500mm module in both length and width and is adaptable so all site dimensions can be maximised. The roof overhangs the enclosure by 275mm to each side and 500mm to each end.

Options and accessories

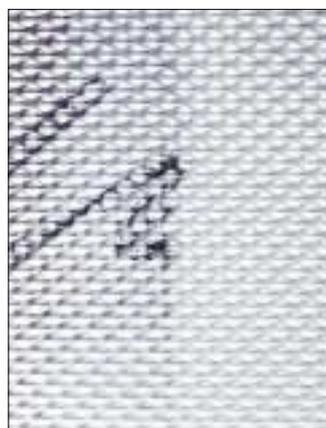
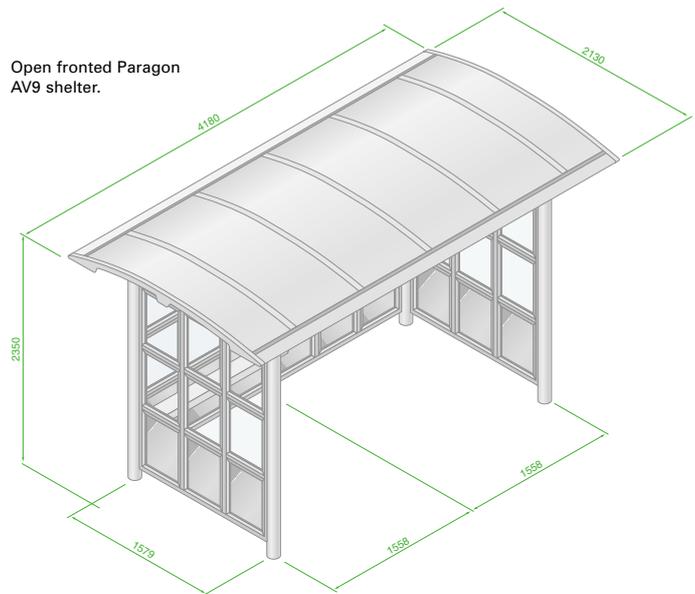
Please see pages 4-5. Accessories include curtain lighting, litter bins, plank seating, signage, timetable cases, flag brackets, real-time display, advertising panels.

Glazing frames

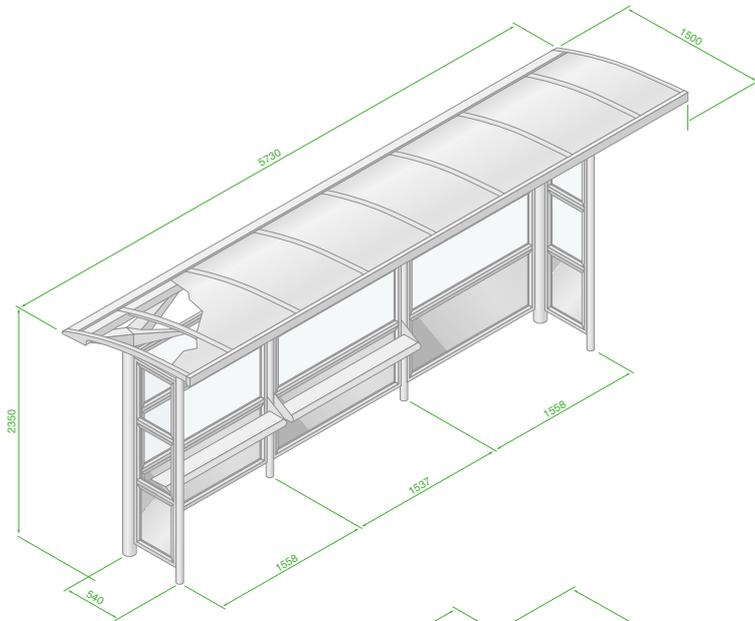
Fully rebated 10mm (optional 12mm available) toughened glass panels clip into an extruded aluminium frame. Glass is encapsulated on all sides by 25mm. A thick rubber surround is used as a proven effective method of protection from impact breakage.

To discourage climbing, leaning and leverage points, all frames are steeply angled and provide full support for the stainless steel cladding. Stainless steel laminated kick panels feature at the base of the frame.

The highest practical level of glass breakage resistance is provided by using a nine panel frame, each frame being no greater than 0.5m². A three panel glazing frame is available as a lower cost alternative.

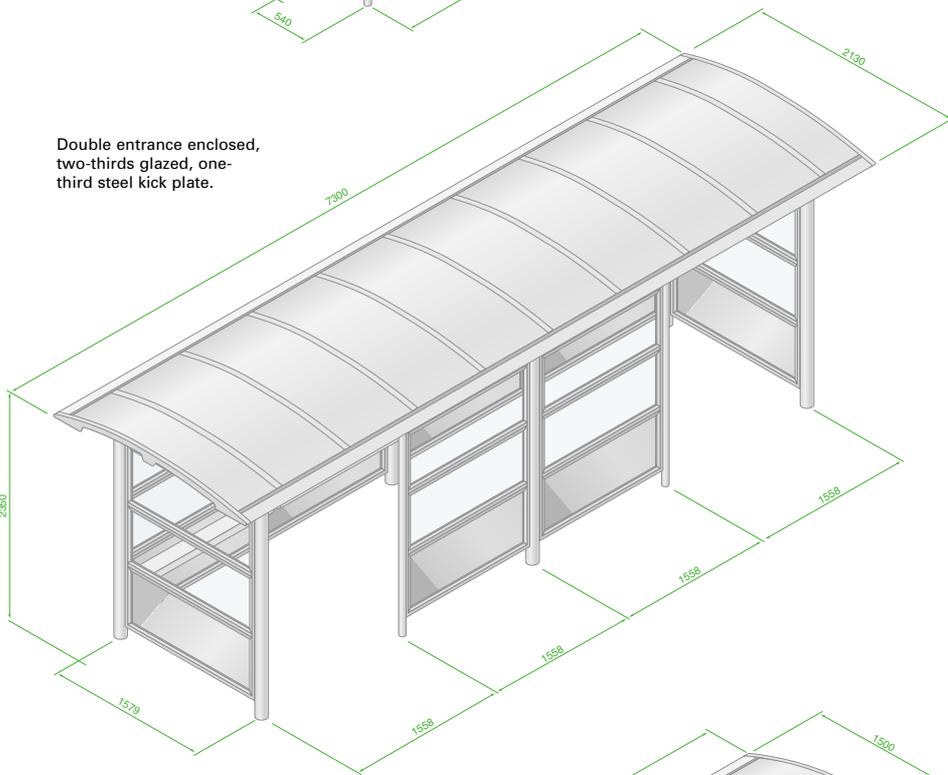


Cantilever
Paragon AV3
shelter.



Glazing elevation

Double entrance enclosed,
two-thirds glazed, one-
third steel kick plate.

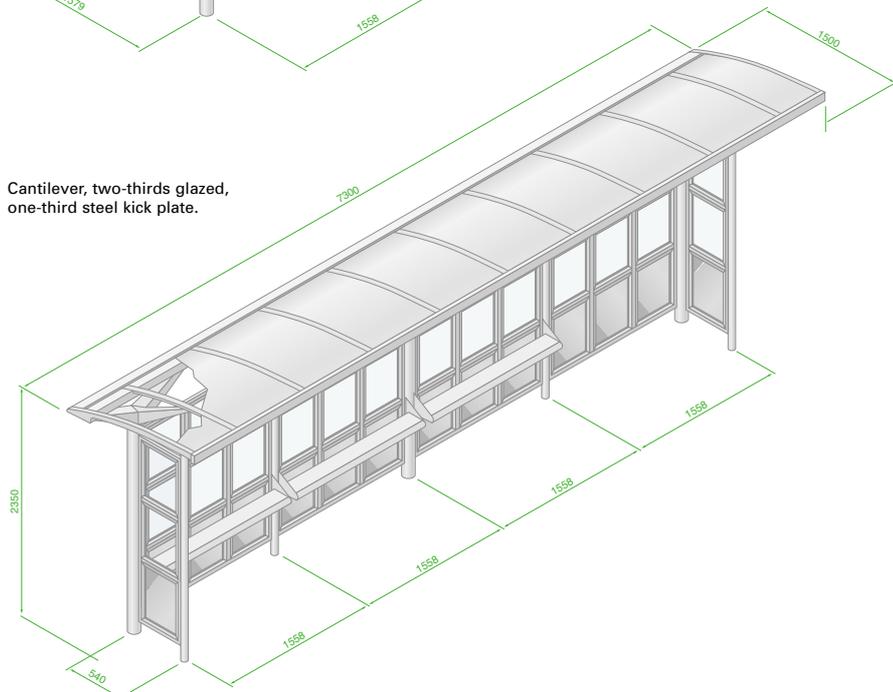


Comfortable and secure



End elevation

Cantilever, two-thirds glazed,
one-third steel kick plate.



Fully rebated panels



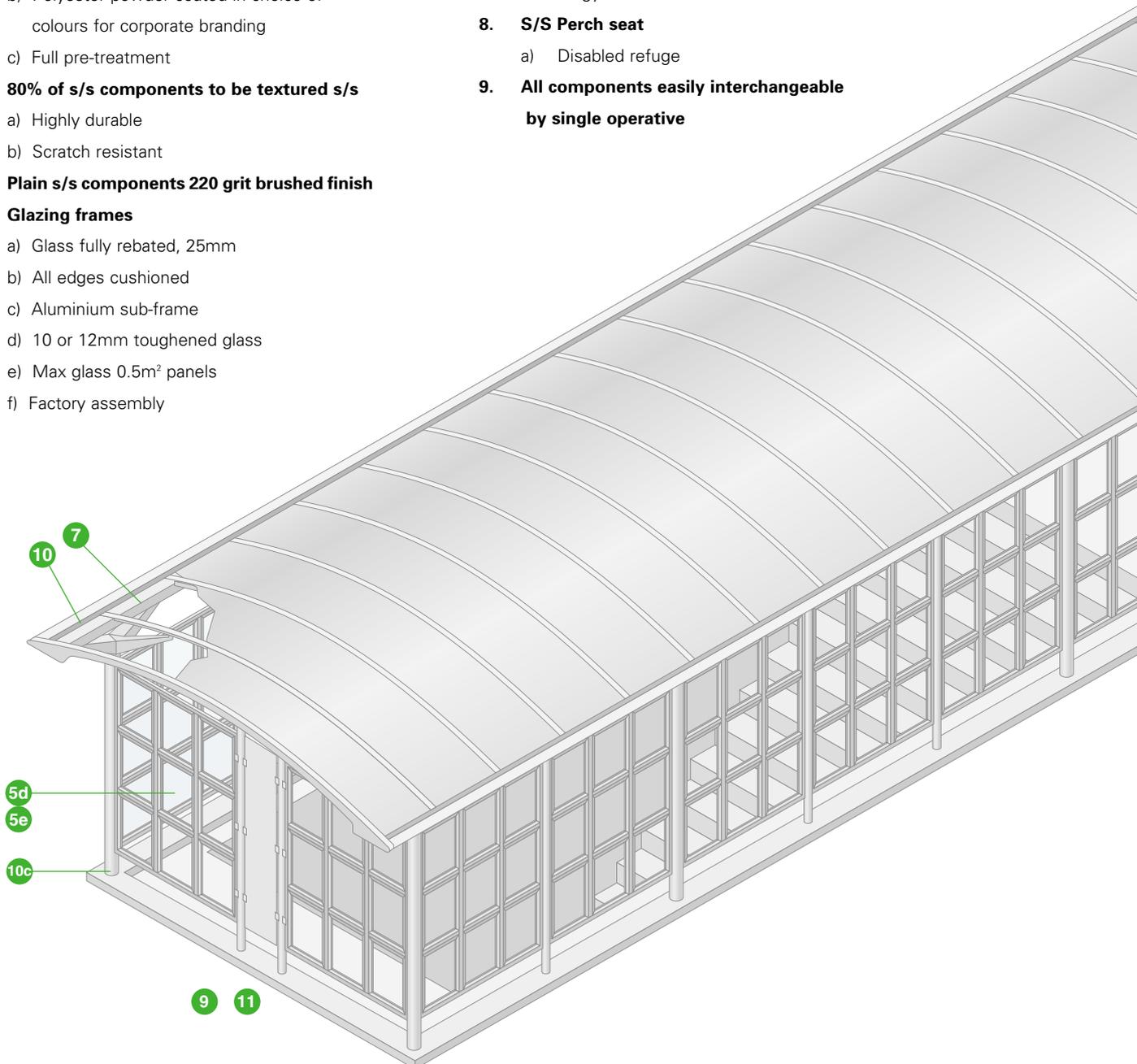
Solid kick plate

PARAGON Anti-Vandal

Key features

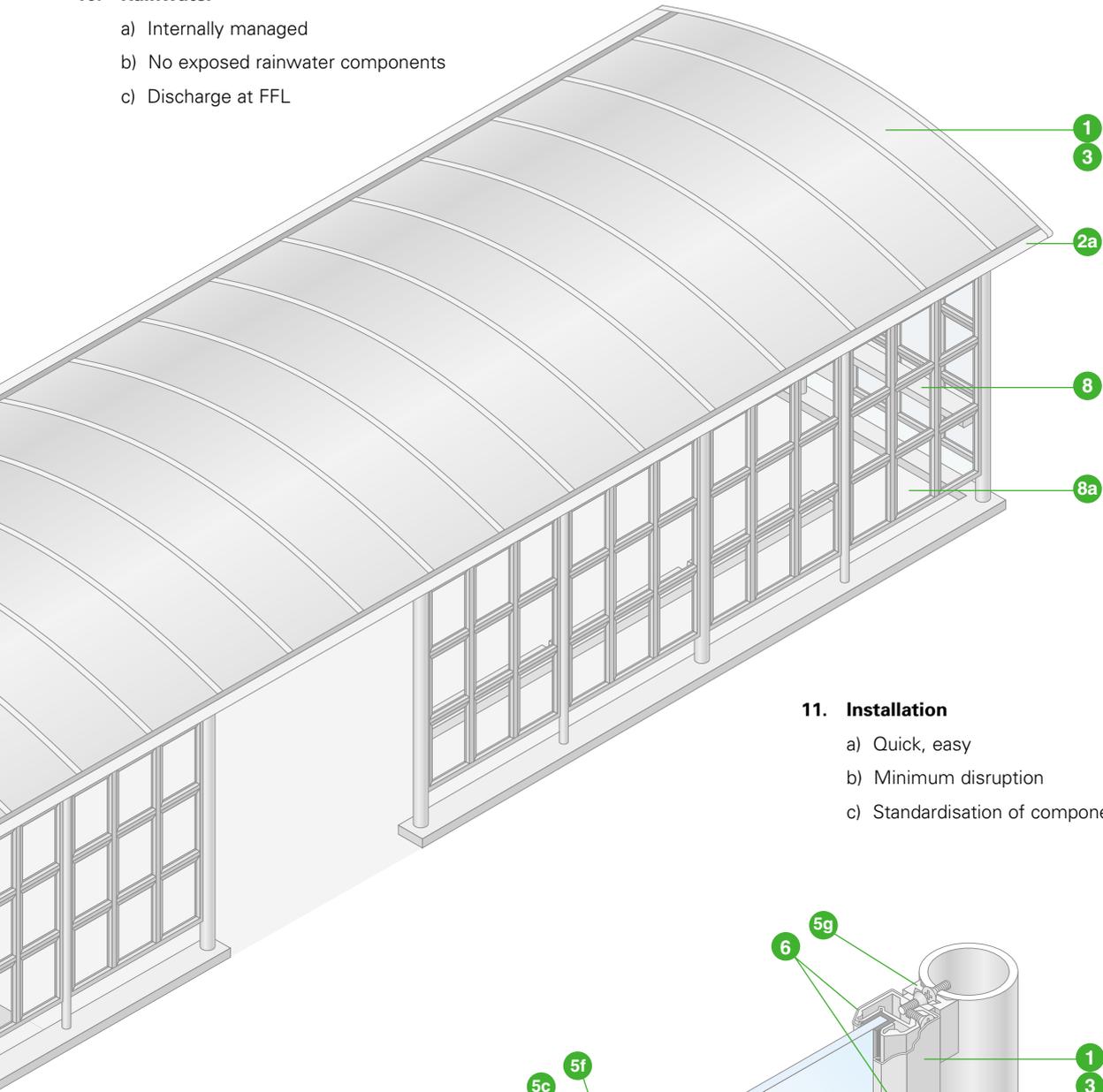
The illustration shows the station platform shelter designed and installed at Taunton station in Devon (see also photograph on page 11). The key features are typical of the Paragon AV but are not exhaustive.

- 1. All s/s components high grade 316**
 - a) 80% of units s/s
- 2. 20% of unit aluminium**
 - a) These components 2200mm above FFL
 - b) Polyester powder coated in choice of colours for corporate branding
 - c) Full pre-treatment
- 3. 80% of s/s components to be textured s/s**
 - a) Highly durable
 - b) Scratch resistant
- 4. Plain s/s components 220 grit brushed finish**
- 5. Glazing frames**
 - a) Glass fully rebated, 25mm
 - b) All edges cushioned
 - c) Aluminium sub-frame
 - d) 10 or 12mm toughened glass
 - e) Max glass 0.5m² panels
 - f) Factory assembly
- 6. All fixing 316 grade s/s**
 - a) Concealed
 - b) Tamper-proof
- 7. Lighting**
 - a) Recessed
 - b) Full length
 - c) Unbreakable diffuser
 - d) Energy efficient
- 8. S/S Perch seat**
 - a) Disabled refuge
- 9. All components easily interchangeable by single operative**
- g) Easily installed**
- h) No finger/foot holds – sloping surfaces**
- i) Solid panels to vulnerable areas**
- j) Textured s/s clad**



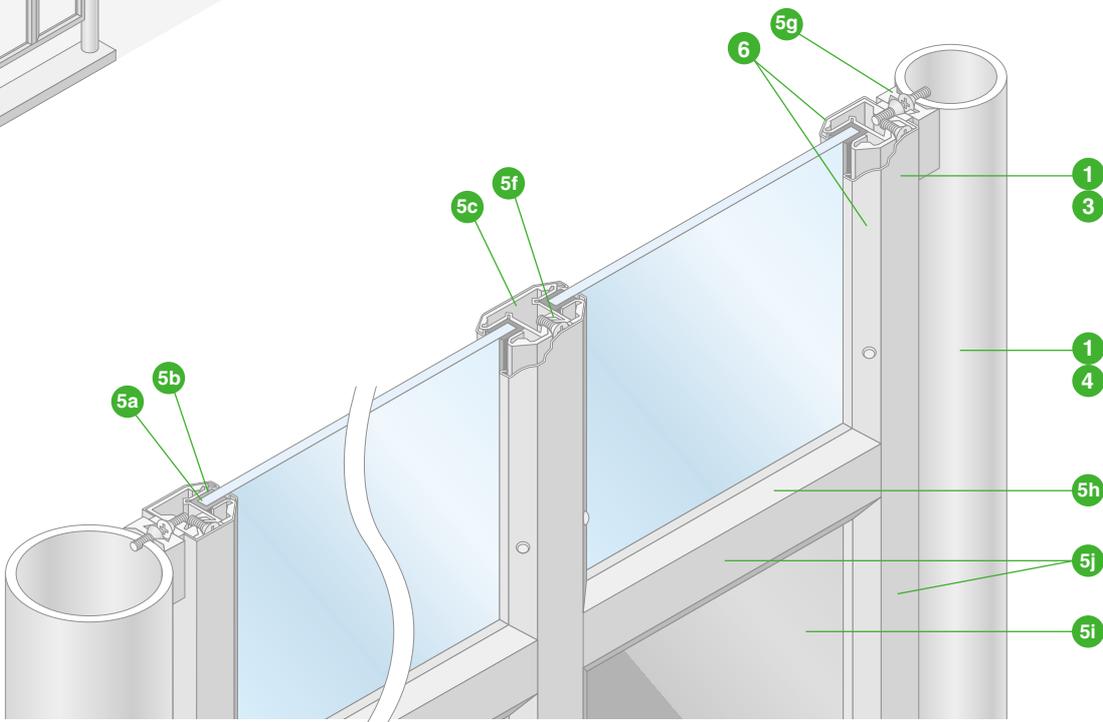
10. Rainwater

- a) Internally managed
- b) No exposed rainwater components
- c) Discharge at FFL



11. Installation

- a) Quick, easy
- b) Minimum disruption
- c) Standardisation of components







Simple format



Single entrance shelter



Glazing frame



Double entrance



Clear visibility



External framework

The Chiltern range has two distinctive roof styles, peaked and flat, several glazing arrangements, external framework, and a wide range of complementary accessories. Chiltern provides a cost-effective shelter solution with maximum flexibility.

CHILTERN

Design features

The popular peaked-roof feature provides a solid roof with hip ends designed to harmonise with its surroundings. The fully welded 2.5mm thick aluminium roof structure is maintenance free. A flat roof version is available for simpler applications where cost savings are required. Several glazing options are compatible with the Chiltern range and are tab-fixed to the portal framework with tamper-proof stainless steel pig-nosed fastenings.

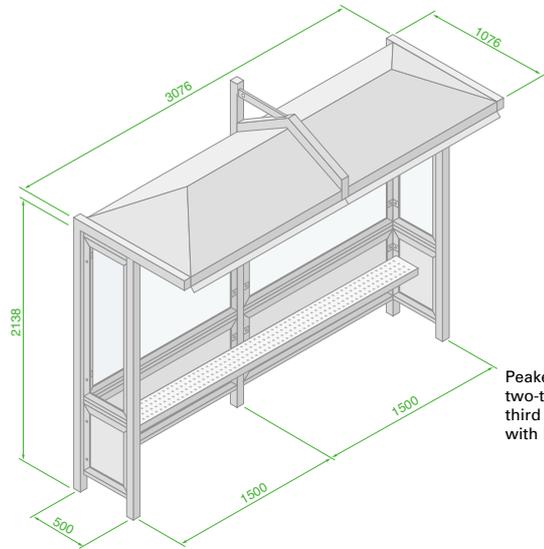
Aluminium extrusions are used extensively within the Chiltern system. The main framework is manufactured from a fully welded heavy extruded aluminium box section. An external portal framework gives the Chiltern range a distinctive character. The glazing and roof lines are on the inner faces of the framework. This is aesthetically distinctive, and acts as added protection for the side glazing and roof.

Standard modules

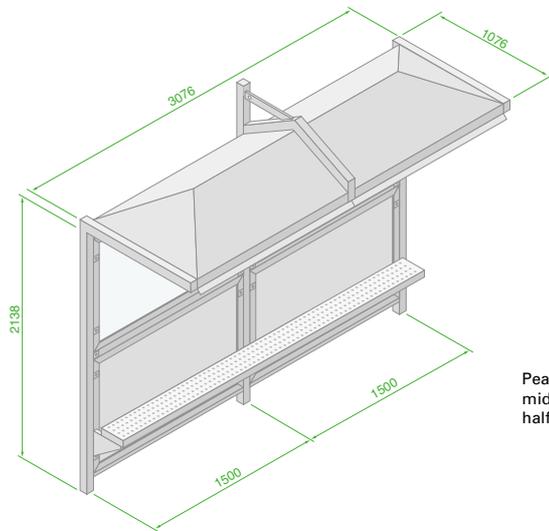
The Chiltern can be based on either a 1250mm or 1500mm module. Cantilever format shelters are also available in a 1000mm projection.

Options and accessories

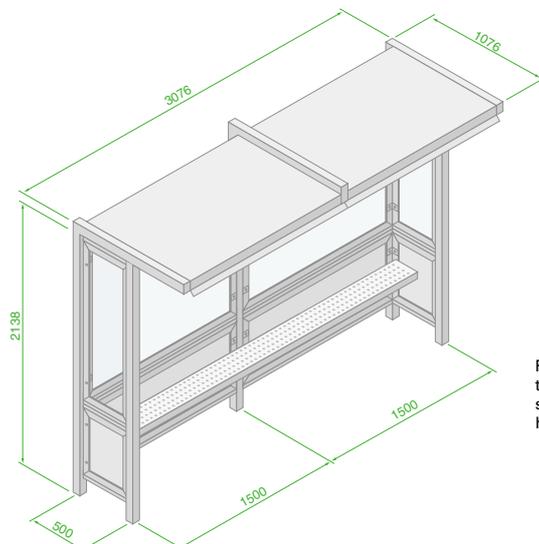
Please see pages 4-5. Accessories include lighting, seating, signage, notice boards/timetable case, real time display, screen printed glass logos.



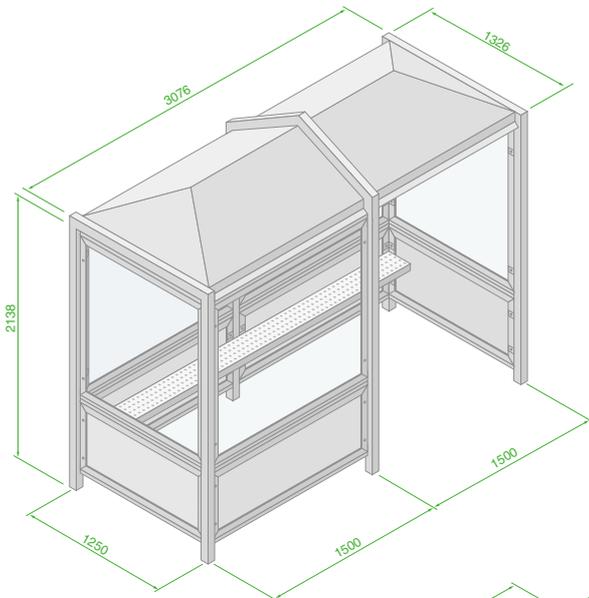
Peaked roof cantilever, two-thirds glazed, one-third solid kick panel, with half end panels.



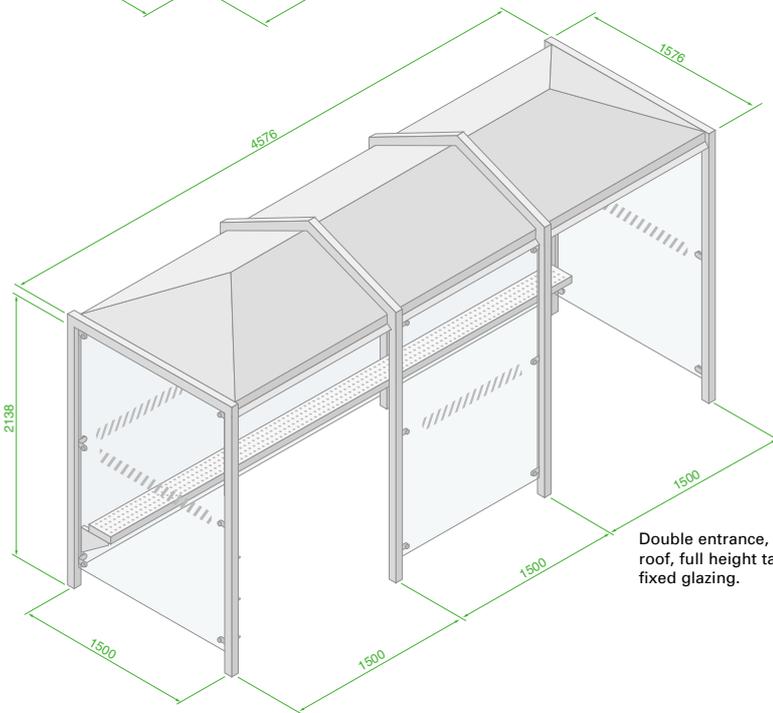
Peak roof cantilever mid-rail, half glazed, half solid panel.



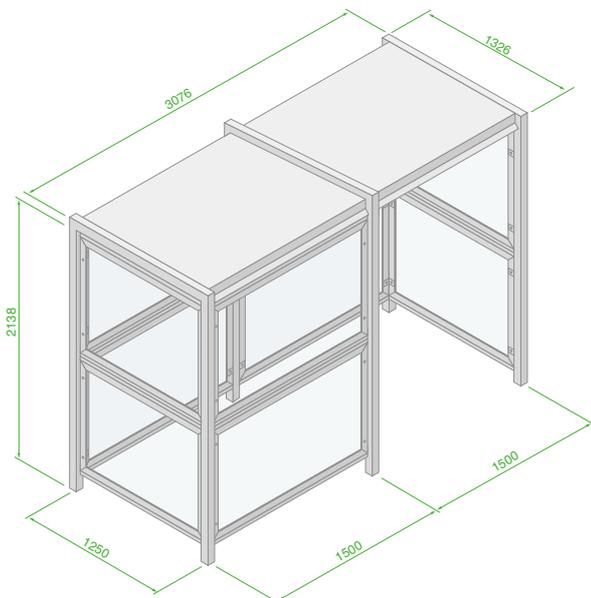
Flat roof cantilever, two-thirds glazed, one-third solid kick panel, with half end panels.



Single entrance, peak roof, rebated frame construction, two-thirds glazed, one-third kick panel.



Double entrance, peak roof, full height tab fixed glazing.



Flat roof square module, rebated frame with mid rail.



Cantilever



Perch seat



Cantilever with half ends



The distinctive Chiltern peaked roof





Barrel roof



Any size configuration



Lean-to structure



Lighting options



Open structure



Mid-rail

The Clifton range is available with three distinctive roof styles and can be cantilevered or enclosed for any street-side location in either an urban or rural setting. Its versatility means that this system is often used as the basis for walkways and canopies. Various glazing options can be achieved and a wide range of complementary accessories is available. Clifton provides a versatile cost-effective shelter solution with maximum flexibility.

CLIFTON

Design features

The system uses a combination of steel and aluminium for strength and flexibility. Vertical posts support a roof which can be either barrel vaulted, pitched or flat and, if vaulted, can be semi-circular or low vault. Pitched and vaulted roofs are provided with UV stabilised polycarbonate sheeting. Flat roofs are constructed from a 20mm thick heavy duty sandwich panel faced to both top and underside with a coloured plastic coated galvanised steel sheet.

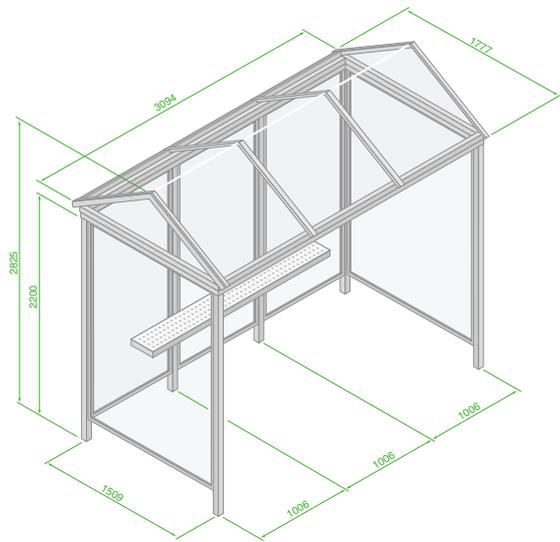
Side glazing can be 6mm toughened glass or UV stabilised polycarbonate. Glazing is restrained on all sides and can be either full length or divided by a midrail creating the flexibility to provide a combination of glazing materials and a solid kick panel.

Standard modules

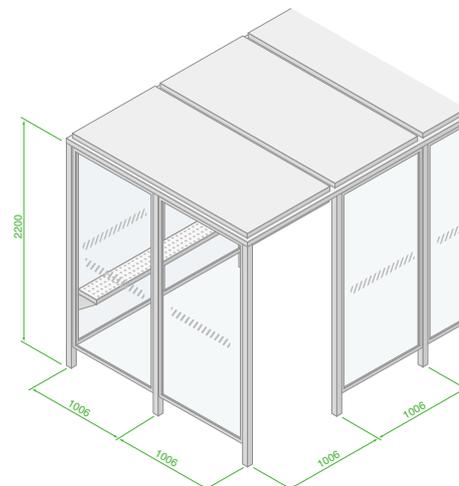
Enclosed Clifton shelters can be constructed to any length in modules of 1000mm and in widths of 1500mm, 2000mm and 3000mm. Cantilever shelters can be specified to a maximum projection of 1500mm.

Options and accessories

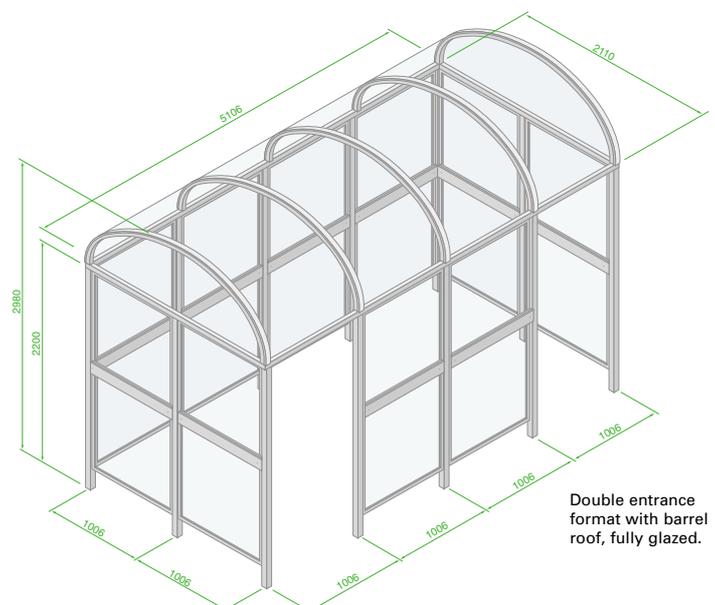
Please see pages 4-5. Accessories include lighting, seating, signage, notice boards/timetable cases, real time display, screen printed glass logos.



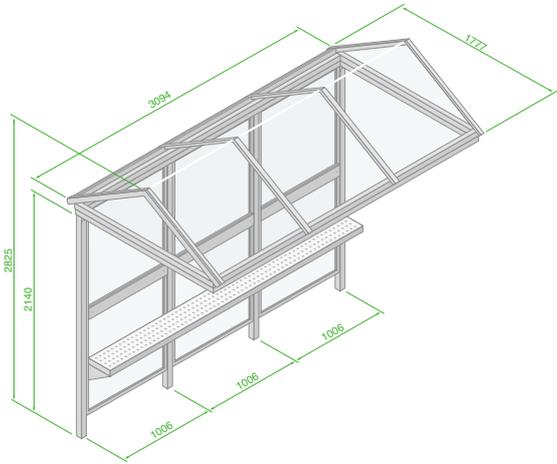
Pitched roof design with perch seat. Full width side panels.



Flat roof, fully glazed with vision strip.



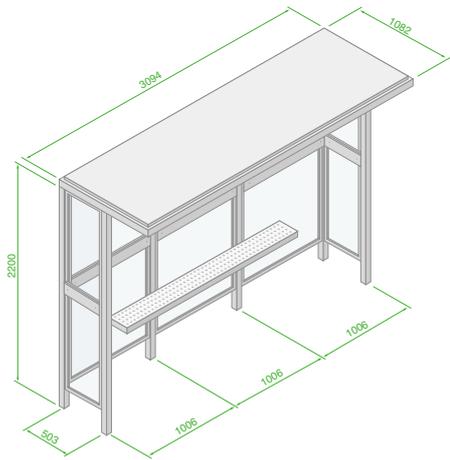
Double entrance format with barrel roof, fully glazed.



Fully glazed cantilever shelter with peaked roof and perch seating. Mid-rail arrangement glazed with 6mm toughened glass or polycarbonate.



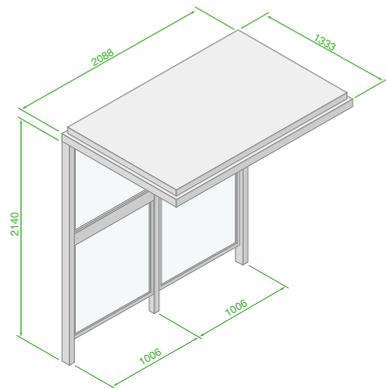
Lean-to construction



Cantilever shelter with half ends, solid flat roof and perch seating. Mid-rail arrangement.



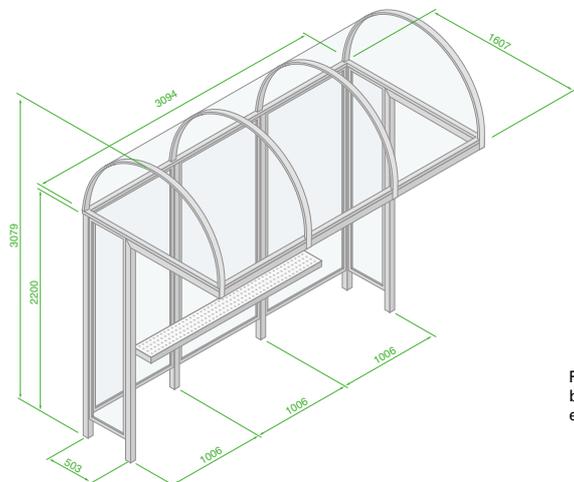
Extended shelter unit



Simple cantilever shelter with solid flat roof and open glazed sides.



Flat roofed shelter



Fully glazed cantilever shelter with barrel roof and perch seating. Half-end panels.



Glazing detail



Bulkhead lighting





Roadside shelter



Glazing trim detail



Sloping site



Integral guttering



Staggered entrance format

The Roadside range sets out to provide a series of shelters with a general rounded appearance. This is achieved by the use of tubular steel and aluminium sections which is further enhanced by means of aluminium trim extrusions with a semi-circular or elliptical profile.

The Roadside is available with two roof profiles and can be cantilevered or enclosed, sitting equally comfortably in either a town or country environment. Various glazing options can be achieved and a wide range of complimentary accessories is available. Many of our customers feel that the Roadside shelter provides the ideal solution to their requirements at an affordable price with the required versatility for differing locations.

ROADSIDE

Design features

The system uses a combination of steel and aluminium for strength and flexibility. Vertical tubular posts support a roof which can be either low barrel vaulted or flat. The low vaulted roofs are provided with UV stabilised polycarbonate sheeting. Flat roofs are constructed from a 40mm thick heavy duty sandwich panel faced to both top and underside with a coloured plastic coated galvanised steel sheet.

Both roof styles provide rainwater management. Behind the semi-circular aluminium fascia, a concealed gutter system is provided to all four elevations. Rainwater is then taken down and discharged at ground level through selected major columns.

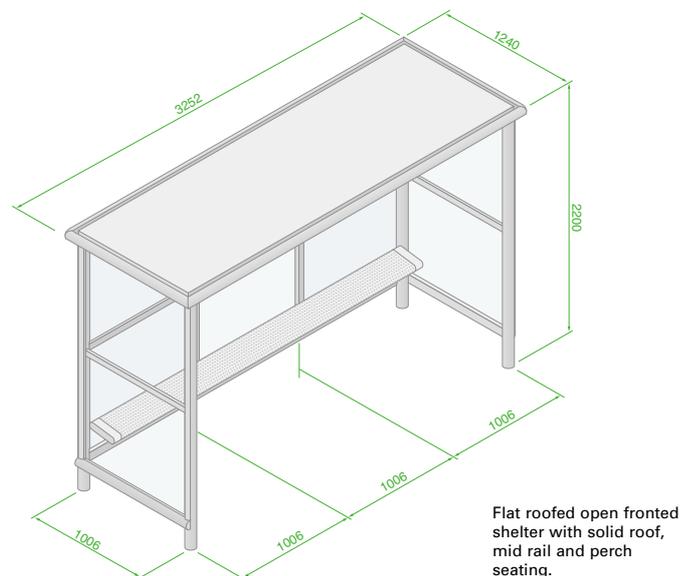
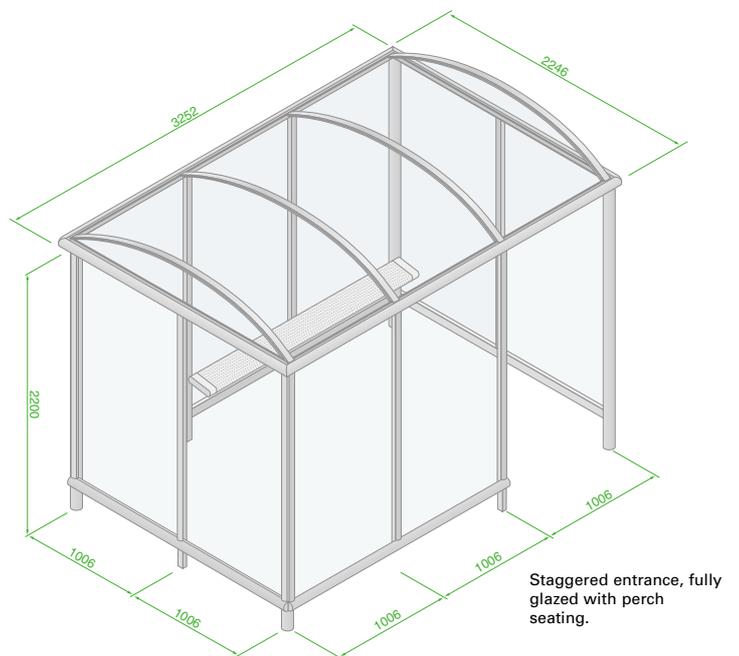
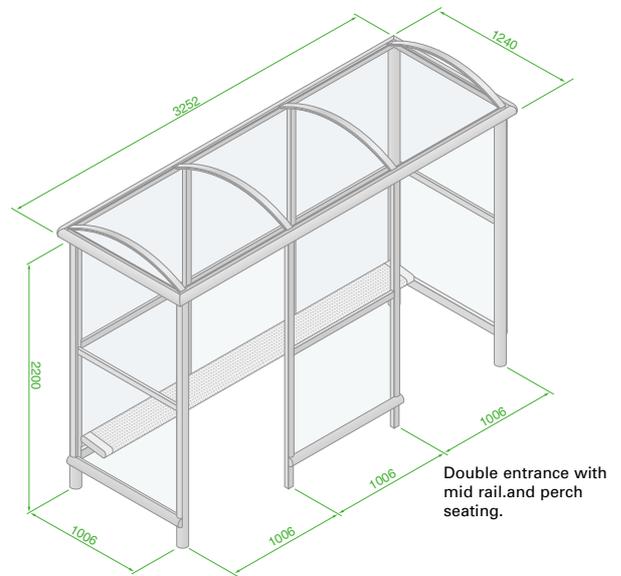
Side glazing can be 6mm toughened glass or UV stabilised polycarbonate. Glazing is restrained on all sides, across the outer face of the vertical posts and can be either full length or divided by a mid-rail creating the flexibility to provide a combination of glazing materials and a solid kick plate.

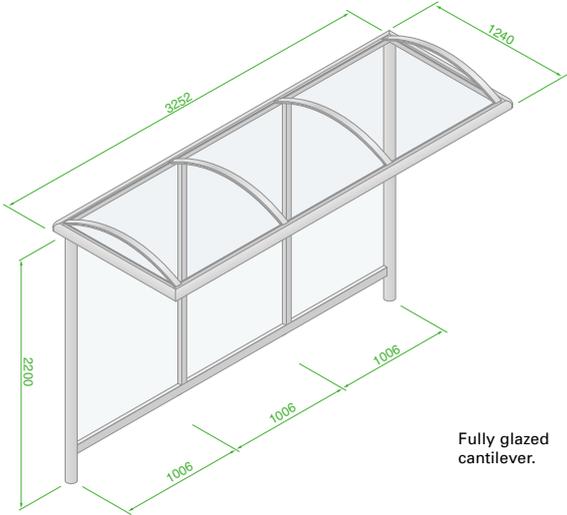
Standard modules

The Roadside can be constructed to any length in modules of 1000mm. Both roof profiles are available in widths of 1000mm, 1500mm, and 2000mm. Cantilever shelters are available up to 1500mm projection.

Options and accessories

Please see pages 4-5. Accessories include lighting, seating, signage, notice boards/timetable cases, real time display, screen printed glass logos.

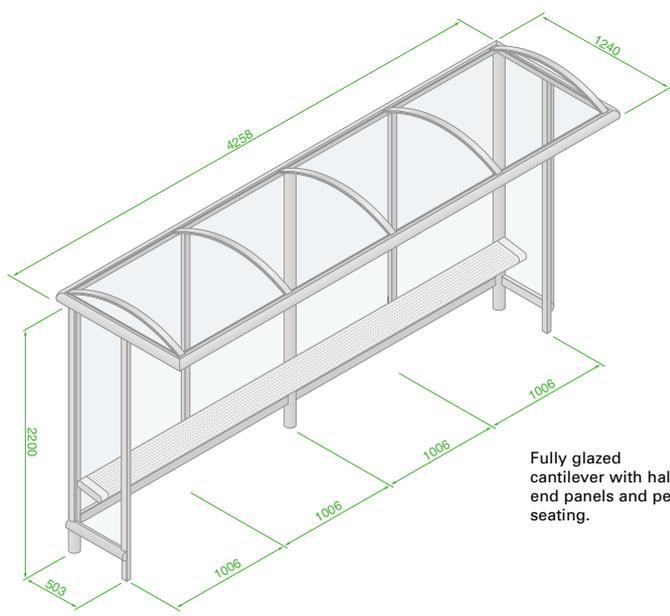




Fully glazed cantilever.



Seat detail



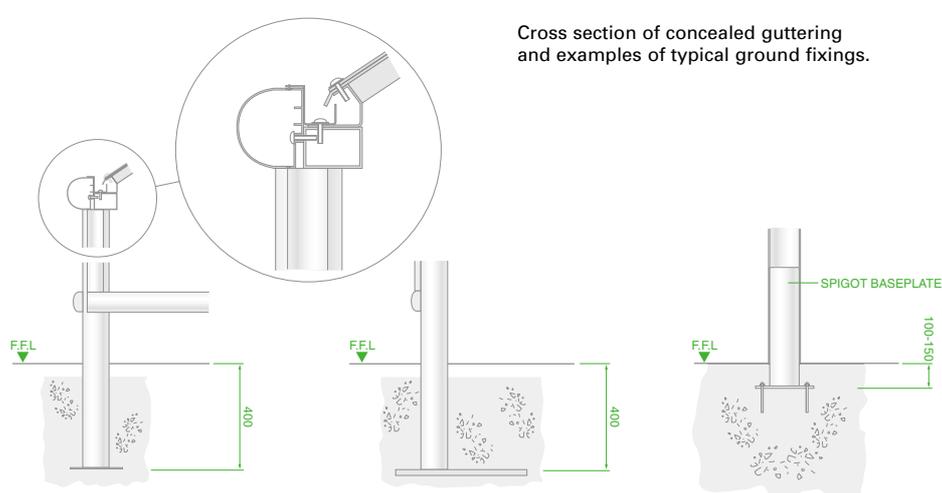
Fully glazed cantilever with half end panels and perch seating.



Roadside bus shelter



Structural column detail



Cross section of concealed guttering and examples of typical ground fixings.

Built-in

Cantilever

Bolt Down

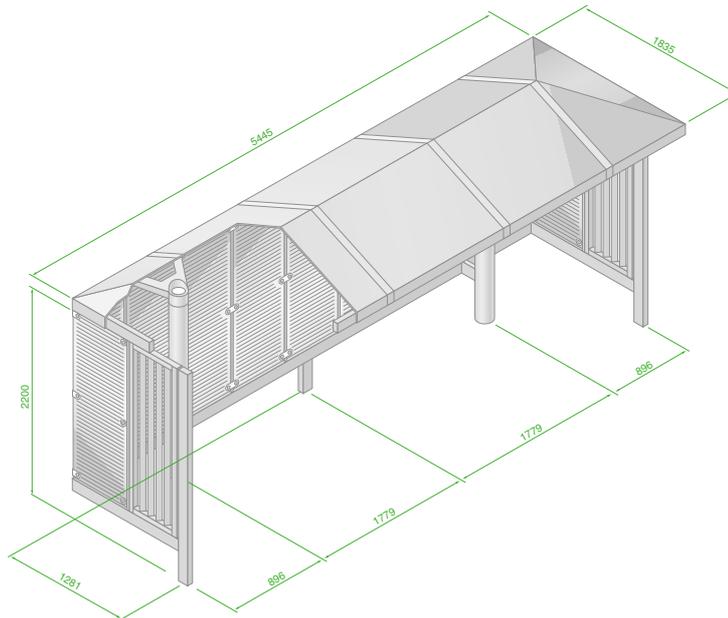


Cantilever

(All foundation sizes to be confirmed by resident engineer.)



PARAMOUNT



Clear visibility



Grill ends



Concealed uplighters



Open fronted format



Secure fixings

Paramount is a heavy duty shelter specifically designed for challenging locations where clear visibility from underneath is of paramount importance. Approach ends of the shelter are grill finished and there is no method of unauthorised access to glass or lighting. The light source is protected by being encased within the structural column.



■ ■ ■ ■

COMMERCIAL SHELTERS



Cantilever ticket kiosk



Clifton open fronted cycle shelter



Trolley bumper rails



Roadside trolley bay

The modular concept of the Macemain + Amstad shelter system is ideally adapted for commercial use as trolley bays, smoking and cycle shelters, ticket kiosks and even dug outs.

The Paragon and Clifton range offer the most flexible systems with the wide choice of configurations to the roofing and glazing meaning that the shelters can be customised to individual site conditions and client requirements. Standardised components enable the architect to streamline the design and specification process, resulting in time and cost savings.

TROLLEY BAYS



Clifton 2 bay park

Designed to compliment the modern architecture of today's superstores the Macemain + Amstad trolley bay range combines aesthetic appeal with the practical considerations of vandal resistance.

Available in a variety of eye-catching colours and styles, these units feature polished stainless steel glazing framework and bumper rings to make a major impact on the external environment.

The modular concept of these shelters provide the architect and specifier a wide choice of configurations for maximum flexibility in any location.



Paragon with stainless steel bumpers

DUG-OUTS



Metzo

Based on the cost effective Clifton shelter the Metzo is designed to be colourful and extremely hardwearing. The shelters can be branded to carry club crests and sponsor's logos and will brighten up any ground/stadia.

The unit is manufactured from aluminium finished in a polyester powder coating with polycarbonate glazing. Optional extras include seats, lights, advertising and intermediate partitions.



6 bay with seating

KIOSKS



Roadside kiosk

Ticket kiosks have been developed in a variety of sizes and styles using the basic roof plans and glazing panels of our standard waiting shelters.

Most of the options have been adapted from the use of either one or two modules of the chosen shelter.

Styles range from open fronted giving protection on three sides from the elements to the simple roof cantilever versions.

Accessories such as drainage, lighting, information boards and flag brackets are available.



Paragon cantilever

CYCLE AND SMOKING SHELTERS



Paragon with tab fixed glazing

By merely adding seating and bins or cycle stands to any of our standard waiting shelters the unit is transformed to either a smoking or cycle shelter.

The most popular design is based on the 1500mm Clifton range where the front is left open. This option provides a stylish solution in a cost effective manner.

Solid 3mm mild steel kick panels to the lower sections of the glazing provide a hard wearing, vandal resistant surface whilst still offering protection from the elements.

A variety of seating, bins and cycle stands are detailed in our Street Furniture brochure.



Smoking shelter with volta seating





Open platform shelter



Special bus shelter



Bluewater shelter



Non-standard shelter



Special passenger shelter

Our special projects team is able to resolve any requirement that falls outside of the ordinary, such as the the £1.5 million transit centre at the Bluewater development. The brief was for a fully operational design and build project with all services, including toilets, automatic doors, lighting and heating, installed to cope with the expected two million passengers annually. Our design team produced over six hundred drawings with calculations to suit.

SPECIALS

Special design service

Specifiers may present our design team with either an outline brief, a firm manufacturing specification, or an open brief.

Our special projects team is able to assist specifiers achieve their preferred style of shelter, even if it is significantly different from our standard ranges, in a cost-effective manner.

Standardisation of components wherever possible allows broad design flexibility while avoiding prohibitively high development costs. Macemain + Amstad use computer-aided design and manufacturing to ensure consistency across even the most complex special shelter designs.





Royal William Yard, Plymouth

Examples of special projects completed by Macemain + Amstad. For further information about custom-designs please contact technical sales on 01536 401331.



Special design shelter, Town Centre, Devizes



Special design shelter for Stuttgart Tramways



Side street, Devizes



CLIENTS

Macemain + Amstad is trusted by leading specifiers in the public and private sectors.

Transport

Railtrack Plc
All 25 Train Operating Companies
W.M.P.T.E.
S.W.Y.P.T.E.
W.Y.P.T.E.
Strathclyde P.T.E.
G.M.P.T.E.
B.A.A.
Heathrow Airport
Gatwick Airport
Manchester Airport

Architect/Q.S.

B.D.P.
Benoy
Chapman Taylor
Ove Arup
W S Atkins
Austin Smith Lord
Owen Williams
Aspen

Local Authority

Cheshire C.C.
Neath & Port Talbot C.B.C.
Gwynedd Council
Isle of Man Government
Carlisle D.C.
Harlow D.C.
Devizes T.C.
Salisbury B.C.
Canterbury C.C.
Kent C.C.
Stockton-on-Tees B.C.
Newcastle-under-Lyme B.C.

General

Sainsburys
Tesco
Matalan
Thames Water
Waitrose
Safeway

Projects Completed

Holyhead Ferry Terminals
Ivanhoe Line
Handforth Ticket Office
Bluewater
Cribbs Causeway
Keppel Street
Redcar Redevelopment
Midland Tramslink
Barclaycard
Middlesborough F.C.
Nottingham Forest F.C.
Handforth Shopping Centre
Ipswich Route 66

Overseas

Hong Kong Jockey Club
Tse Twan H.K. Phase II
Lisbon Underground
French Metro
Gibraltar Bus Regeneration
Stuttgart Tramway

ARCHITECTURAL STRUCTURES AND STREET FURNITURE : SHELTERS

FURTHER INFORMATION

For further information please call Macemain + Amstad customer services on 01536 401331. Our technical sales advisers are able to assist with preparation of specification clauses and Bills of Quantity. Further information on all Macemain + Amstad products can be found on our website at www.macemainamstad.co.uk

Macemain + Amstad products may be specified with disabled facilities.

STANDARD COLOURS

Macemain + Amstad offer eleven standard colours for thermal plastic coating. Other colours are available upon request.



Colours shown are not 100% accurate due to printing restrictions. Finished swatches are available upon request from Customer Services.

* PPA spray only (not available for thermal plastic coating)

MACEMAIN + AMSTAD

MACEMAIN + AMSTAD LTD
BOYLE ROAD
WILLOWBROOK INDUSTRIAL ESTATE
CORBY
NORTHANTS NN17 5XU

Telephone: 01536 401331
Fax: 01536 401298
Email: sales@macemainamstad.com
Web: www.macemainamstad.com

We reserve the right to change the design and specification of any item shown herein although where possible notification will be made. All dimensions shown are in millimetres and are approximate.

COMPLEMENTARY PRODUCTS + SYSTEMS

WALKWAYS AND CANOPIES
SHELTERS
DUG-OUTS, TROLLEY BAYS AND KIOSKS
LITTER BINS, FIRE BINS AND TICKET BINS
PICNIC UNITS, TABLES AND STOOLS
CYCLE RACKS AND BOLLARDS
METAL AND TIMBER SEATING
INFORMATION BOARDS
SPECIAL PROJECTS