ABOUT

IAE Fencing is part of the F. Klucznik & Son Ltd group of companies which also includes IAE Agricultural, manufacturers of livestock equipment; IAE Equestrian, manufacturers of internal stabling and Centrewire Ltd, suppliers of specialist steel and timber gates for public rights of way.

Established since 1969 it is an independent, privately owned organisation. With a turnover in excess of £40million, it is respected within all of its business sectors and its products can be found throughout the United Kingdom along with European and other worldwide destinations.

Today, IAE operate from a 36 acre purpose built, environmentally conscious site in Stoke-on-Trent, Staffordshire, which is geographically positioned for easy access to all major road links.

Our business ethos has always been to offer goods and services of the highest quality, utilising the latest technology. Listening to the invaluable feedback from our customers has helped us to continue to improve our products and serve you, our customer.

Thank you.

LATEST TECHNOLOGY

IAE has built an unrivalled reputation for quality. Continual investment in the very latest technology ensures that we remain efficient and competitive.

Laser cutting, robotic welding and some of the most modern folding and bending machines allow IAE to offer a range of products and degree of precision that is unprecedented in our field.

These modern working practices coupled with human expertise and innovative designs keep us at the forefront of the industry.

DISCUSS › DESIGN › DELIVER

Through years of working with Architects, Specifiers, Local Government & Contractors IAE have gained a reputation for unparalleled service. A highly skilled Sales Team and Technical Drawing Department allows us to advise on the most efficient way to get a project off the drawing board and into production.
HOT DIP GALVANISING

After manufacture, when required IAE’s products are galvanised at our in-house facility. Carried out to the latest standard BS EN ISO 1461, this ensures a long and durable life.

POWDER COATING

IAE products can be further enhanced by polyester powder coating. Available in a range of colours applied in accordance with BS 1722 Pt. 16.

SPECIALS

Whether highly decorative or complex and functional IAE have the experience, ability and resources to manufacture all manner of bespoke designs.

STOCK

IAE hold the UK’s largest stocks of standard mesh and railing systems. We also carry a comprehensive range of cycle shelters, recycled plastic street furniture and crash barrier products.

DELIVERY

Deliveries are carried out by our own fleet of modern satellite tracked vehicles, all of which have off-loading facilities. IAE’s transport department understand the importance of punctual deliveries and work with our customers to ensure that every effort is made to fulfil realistic requests.
SPORTS MESH

SHELTERS

INDUSTRIAL FIT OUT

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**Vertical Bar**

“Traditional, solid boundary fence”

**Features:**
- Compliant with BS 1722 Pt. 9
- Available from stock 1800mm
- Security fixings
- Stepping cleats
- Bespoke options available
- Hot Dip Galvanised to BS EN ISO 1461
- Polyester Powder Coating (optional)

IAE Vertical bar railings are strong and durable, hot dip galvanising ensures this fence will offer long lasting security and excellent value for money over its lifetime. Vertical bar is manufactured to BS 1722 Pt. 9 as standard but can be customised to create a more individual appearance. Options include a variety of bar tops or decorative finials. IAE can also help create bespoke designs, often working with architects and clients on specific projects.

1800mm high blunt top railings can be supplied directly from stock, with other heights available on a made to order basis. Pedestrian and vehicular gates are also manufactured to match any vertical bar design.

**Suitable for:**
- Schools, Colleges & Universities
- Industrial Estates
- Retail Parks
- Parks and Open Spaces
Vertical Bar Specification Guidelines (BS 1722 Pt. 9)

**PANELS**

<table>
<thead>
<tr>
<th>Heights</th>
<th>Up to 2400mm (1800mm high held in stock)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bar Diameter</td>
<td>12, 16, 20 or 22mm according to height</td>
</tr>
<tr>
<td>Bar Centres</td>
<td>12 &amp; 16mm @ 112mm ctrs / 20 &amp; 22mm @ 120mm ctrs</td>
</tr>
<tr>
<td>Panel Width</td>
<td>2720mm</td>
</tr>
</tbody>
</table>

**POSTS**

<table>
<thead>
<tr>
<th>Post Size</th>
<th>102 x 44 RSJ (or box section alternative)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post Centres</td>
<td>2750mm</td>
</tr>
</tbody>
</table>

**FINISH**

Hot Dip Galvanised to BS EN ISO 1461 (as standard). Additional Polyester Powder Coating to BS 1722 Pt.16 if required.

Polyester Powder Coating is available in a range of colours.

With the addition of one of IAE’s range of finials Vertical Bar can be further enhanced to become an extremely attractive feature fence. Other standard designs are available and finials can also be manufactured to match your own design if necessary.

**FINIAL OPTIONS**

BIGGIN  BIRCHALL  BUTTERTON  CARLTON  CHURNET  DRAYCOTT  FROGHAL  HAWKSWORTH  RAMSHAW  ROSTON  WETLEY  WHISTON
IAE manufacture a comprehensive range of bow top fencing. From a cost effective single bow to our more elaborate designs we have a fence to suit every environment.

Standard bow top is supplied from stock in a range of heights, with pedestrian gates also available ‘off the shelf’ to suit our 12mm bar fences.

Other heights and designs are available on a made to order basis with matching pedestrian and vehicular gates.

**Features:**
- Compliant with BS 1722 Pt. 9
- Various heights available from stock
- Stepping cleats
- Security fixings
- Range of standard feature designs available
- Hot Dip Galvanised to BS EN ISO 1461
- Polyester Powder Coating (optional)

**Suitable for:**
- Schools, Colleges & Universities
- Housing Estates
- Retail Parks
- Parks and Open Spaces
Bow Top Specification Guidelines (BS 1722 Pt. 9)

**PANELS**

<table>
<thead>
<tr>
<th>Heights</th>
<th>Up to 2000mm (900*, 1000*, 1200* &amp; 1800mm*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bar Diameter</td>
<td>12, 16 or 20mm according to height</td>
</tr>
<tr>
<td>Bar Centres</td>
<td>12 &amp; 16mm @ 112mm ctrs / 20mm @ 120mm ctrs</td>
</tr>
<tr>
<td>Panel Width</td>
<td>2720mm</td>
</tr>
</tbody>
</table>

*Held in Stock

**POSTS**

<table>
<thead>
<tr>
<th>Post Size</th>
<th>Up to 1200mm – 50 x 50 SHS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Over 1600mm – 102 x 44 RSJ (or box section alternative)</td>
</tr>
<tr>
<td>Post Centres</td>
<td>50 x 50 SHS 2800mm</td>
</tr>
<tr>
<td></td>
<td>102 x 44 RSJ 2750mm</td>
</tr>
</tbody>
</table>

**FINISH**

Hot Dip Galvanised to BS EN ISO 1461 (as standard). Additional Polyester Powder Coating to BS 1722 Pt.16 if required.

Polyester Powder Coating is available in a range of colours.

Allowing for steps of 0-16mm & 56 - 72mm

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**BOW TOP OPTIONS**

- Hollington Bow Top
- Interlaced Bow Top
- Blythe Bow Top
- Tittesworth Bow Top

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www.iae.co.uk
fencing@iae.co.uk 01782 339320
IAE Roundex® is a strong, durable cost effective railing system. Tubular steel verticals set at a maximum 100mm gap are welded to flat bar horizontal rails, making these panels light and easy to handle whilst retaining the strength expected from steel railings. Panels are supported by 102 x 44 RSJ posts and the system benefits from special extended stepping cleats and security fixings.

Roundex® fencing is available in a range of standard heights with matching pedestrian and vehicular gates.

If budget is a priority, there’s no need to compromise on quality, IAE Roundex® ‘fits the bill’.

**Features:**
- Light and strong tubular infill
- Welded construction in line with BS 1722 Pt. 9
- Stepping cleats
- Security fixings
- Hot Dip Galvanised to BS EN ISO 1461
- Polyester Powder Coating (optional)

**Suitable for:**
- Schools, Colleges & Universities
- Industrial Estates
- Retail Parks

“Strong, durable tubular railing”
Roundex® Standard Specification

PANELS

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Heights</td>
<td>1800, 2000, 2400, 3000*mm</td>
</tr>
<tr>
<td>Verticals</td>
<td>25 x 2 CHS</td>
</tr>
<tr>
<td>Bar Spacing</td>
<td>122mm ctrs</td>
</tr>
</tbody>
</table>

*3000mm High Fence has a third horizontal rail

POSTS

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Post Size</td>
<td>102 x 44 RSJ</td>
</tr>
<tr>
<td>Post Centres</td>
<td>2750mm</td>
</tr>
</tbody>
</table>

FINISH

Hot Dip Galvanised to BS EN ISO 1461 (as standard). Additional Polyester Powder Coating to BS 1722 Pt.16 if required.

Polyester Powder Coating is available in a range of colours.

Special angle cleats allow panels to be stepped 0-35mm & 85-123mm on site

Roundex® Elite

IAE Roundex® Elite has hollow section verticals with forged tops which visually enhance the features of standard Roundex®, creating an appealing security fencing system. It is commonly specified for the front of premises to offer extra impact, with standard Roundex® used for the rest of the perimeter.

Gates can be made to order to suit either standard Roundex® or Roundex® Elite.
Suitable for:
- Schools, Colleges & Universities
- Industrial Estates
- Retail Parks

Features:
- Strong angle to view railing design
- Welded construction in line with BS 1722 Pt. 9
- Stepping cleats
- Security fixings
- Hot Dip Galvanised to BS EN ISO 1461
- Polyester Powder Coating (optional)

”Strong, secure and affordable”

IAE Diamex® is a strong tubular railing system suitable for most applications. Efficient modern manufacturing processes ensure that Diamex® is long lasting and affordable.

The panels have square hollow section verticals set angle to view with a maximum gap of 100mm. Setting the vertical bars angle to view or on the ‘diamond’ gives this security railing additional strength and sleek attractive lines. Heavy duty channel horizontal rails are supported by 102 x 44 RSJ posts with extended stepping cleats and security fixings.

Diamex® is available in a range of standard heights with matching pedestrian and vehicular gates.
Two variations on the Diamex® system are available.

Diamex® Deterrent has bars and posts cranked making the fence extremely intimidating to the ‘would be’ intruder.

Diamex® Dart has a pressed steel spear to the top of each vertical, adding character and security.

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### Diamex® Standard Specification

#### PANELS

<table>
<thead>
<tr>
<th>Heights</th>
<th>1800, 2000, 2400, 3000*mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Verticals</td>
<td>25 x 25 RHS</td>
</tr>
<tr>
<td>Bar Spacing</td>
<td>127mm ctrs</td>
</tr>
</tbody>
</table>

*3000mm High Fence has a third horizontal rail

#### POSTS

<table>
<thead>
<tr>
<th>Post Size</th>
<th>102 x 44 RSJ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post Centres</td>
<td>2750mm</td>
</tr>
</tbody>
</table>

---

### FINISH

Hot Dip Galvanised to BS EN ISO 1461 (as standard). Additional Polyester Powder Coating to BS 1722 Pt.16 if required.

Polyester Powder Coating is available in a range of colours.

Special angle cleats allow panels to be stepped 0-35mm & 85-123mm on site

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### Diamex® Range

Two variations on the Diamex® system are available.

Diamex® Deterrent has bars and posts cranked making the fence extremely intimidating to the ‘would be’ intruder.

Diamex® Dart has a pressed steel spear to the top of each vertical, adding character and security.
During the Victorian age, Estate fencing was probably the most common fencing erected on country estates throughout Britain. The fence has the strength to contain cattle without being visually obtrusive on the landscape. In more recent years this classic, stylish fence has proved its versatility, being used on developments in urban areas as well as more traditional rural applications.

Standard Specification (BS 1722 Pt. 8)
Height: 1200mm high
Top Rail: 20mm Dia.
Lower Rails: 4 No. 25 x 6 Flat
Posts @ 1000mm ctrs
(Joiners 50 x 10 / Inters 40 x 10 Flat)

IAE ESTATE FENCING RANGE

Sterndale Continuous Bar is the most popular option, available from stock it is supplied loose in 5 metre lengths with wedges for fixing. Feature 76mm diameter end and corner posts are also available from stock.

Moorland Continuous Bar is a variation on Sterndale, also supplied loose in 5 metre lengths but with intermediate and joiner posts curved over at the top.

Dovedale Hurdle is similar to Sterndale in appearance but supplied as a 2 metre welded panel. Due to its welded construction, the Dovedale Hurdle is the only estate fencing that can be powder coated.

Features
- Manufactured in accordance with BS 1722 Pt. 8
- Hot Dip Galvanised to BS EN ISO 1461
- Available in “kit form” or welded panels

Suitable For
- Country Estates
- Parks and Open Spaces
- New Build Housing Developments

"Classic and stylish"
Estate Gates

Single pedestrian gates are held in stock, vehicular and kissing gates are available on a made to order basis.

Bespoke gates can also be manufactured if required.

Tree Guards

IAE have two standard designs of tree guards available.

Consall Tree Guard
1200mm high x 1260mm diameter 5-rail design.

Longnor Tree Guard
1900mm high x 820/1060mm diameter flared top design.

Bespoke designs can also be manufactured if required.
IAE’s standard range of ornate railings help enhance the character of an area with attractive distinctive features.

Features:
- Attractive ornate designs
- Stepping cleats
- Security fixings
- Hot Dip Galvanised to BS EN ISO 1461
- Polyester Powder Coating (optional)

Suitable for:
- Playgrounds
- Theme Parks
- Parks
- New Build Residential or Commercial Areas

Brookhouse (Pictured below)
This variation on bow top gains character with the addition of a feature ring within the oversail of the bow. Brookhouse railings have proved popular in theme parks and new build residential or commercial developments.

Available in a range of heights from 1 to 2 metres with box section posts spaced at 2.8 metre centres.

Infill bars start at 12mm diameter and increase accordingly with the fence height.

"Adding character and elegance"
**Blore**

This ball top vertical rail fence is hugely popular, particularly in parks and housing developments. The ball provides a safety top, whilst also adding a distinguishing feature that sets it apart from the crowd. Standard heights are available from 1 to 2 metres. Box section posts, which also have a feature ball top are spaced at 2.8 metre centres. Bar size starts at 12mm diameter and increases accordingly with the fence height.

**Denstone**

The Denstone fence with its head turning flame effect finial is a real statement of elegance. Classical looks do not come at the expense of security, this robust fence is fabricated using 20mm solid square verticals welded to a flat horizontal rail. Box section posts have a feature top and are spaced at 2.82 metre centres. Two standard heights are available, either 1.8 or 2 metre but other heights can be manufactured on request.
IAE offer two standard designs of Playspec® Fencing, with either a bow or flat top. Both are designed to meet the requirements of BS EN 1176 Playground Equipment Specification, with gaps not exceeding 89mm and free from any neck entrapments.

Two heights are available from stock, either 1 or 1.2 metre, with a 12mm or 16mm diameter infill. Posts are 50 x 50 box section, set at 2.8 metre centres. Special panels manufactured in a non-standard length, curved or raked can also be produced to suit individual requirements.

IAE Playspec® is stocked in a hot dip galvanised finish but can be polyester powder coated to one of a comprehensive range of colours to suit a playground environment.

**Features:**
- Standard heights available from stock
- Compliant with BS EN 1176
- Security fixings
- Stepping cleats
- Hot Dip Galvanised to BS EN ISO 1461
- Polyester Powder Coating (optional)

**Suitable for:**
- Playgrounds
- Theme Parks
- Parks
Playspec® Standard Specification (available from stock)

**PANELS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>1000mm &amp; 1200mm</td>
</tr>
<tr>
<td>Diameter Infill</td>
<td>12mm &amp; 16mm option for both heights</td>
</tr>
<tr>
<td>Bow Spacing</td>
<td>96mm</td>
</tr>
<tr>
<td>Panel Width</td>
<td>2720mm</td>
</tr>
</tbody>
</table>

**POSTS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post Size</td>
<td>50 x 50 SHS</td>
</tr>
<tr>
<td>Post Centres</td>
<td>2800mm</td>
</tr>
</tbody>
</table>

**FINISH**

Hot Dip Galvanised to BS EN ISO 1461 (as standard). Additional Polyester Powder Coating to BS 1722 Pt.16 if required.

Polyester Powder Coating is available in a range of colours.

Playspec® has a reduced height bow to comply with neck trap regulations.
IAE’s Prosafe® Hydraulic Self-Closing Gate is manufactured to comply with BS EN 1176 Playground Equipment Specification, making it free from finger traps, crush points and shear actions that could cause injury.

The Prosafe® Gate has a built-in hydraulic unit, which is fully shielded to prevent vandalism. This mechanism makes the IAE Prosafe® virtually impossible to slam shut and prevents it from bouncing back when pushed hard. It has an anti-trap mechanism and cannot swing beyond its stop point. The gate is adjustable and can be set to conform with ROSPA’s recommendations.

Two heights are available from stock, either 1 or 1.2 metre. Gates are hot dip galvanised to BS EN ISO 1461 as standard and polyester powder coated yellow RAL 1021. Other colours are available on request.

**Features:**
- Available from stock
- Hydraulic self-closing mechanism
- Anti-finger trap
- Controlled gate flow
- Easily adjustable
- Hot Dip Galvanised to BS EN ISO 1461
- Polyester Powder Coating (optional)

**Suitable for:**
- Playgrounds
- Theme Parks
- Parks
The Prosafe® double leaf combination gate is also available from stock. These gates measure 2780mm from centre to centre of post and allow both pedestrian and vehicular access. The pedestrian leaf is 1100mm wide and has a Prosafe® closer, whilst the larger leaf is manually operated and can be secured in the open and closed positions with a lockable drop-bolt.

Matching maintenance gates are also available on a made to order basis. These gates do not have a self-closing mechanism but come with a lockable drop-bolt and slide latch as standard.
Designed to protect adults and children at road junctions and crossings. Pedestrian guardrails also make excellent boundary fences within school grounds, car parks or sporting facilities. Standard panels are 2 metres long and manufactured in compliance with BS 7818 with either 12 or 16mm diameter infill bars set at 110mm centres. Non-standard length, raked or curved panels can also be manufactured to suit special requirements.

Features:
- PG1 & PG2 available from stock
- Compliant with BS 7818
- Hot Dip Galvanised to BS EN ISO 1461
- Polyester Powder Coating (optional)
- Base plated option

Suitable for:
- Roadsides and Junctions
- School Car Parks
- Spectator Barriers

“Pedestrian protection”
Pedestrian Guardrail Specification

**PANELS**

<table>
<thead>
<tr>
<th>Height</th>
<th>900mm actual panel (leg 1350mm o/all)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel infill</td>
<td>12mm PG Standard or 16mm PG-B</td>
</tr>
<tr>
<td>Bar Spacing</td>
<td>110mm</td>
</tr>
<tr>
<td>Panel Width</td>
<td>2000mm</td>
</tr>
</tbody>
</table>

**FINISH**

Hot Dip Galvanised to BS EN ISO 1461 (as standard). Additional Polyester Powder Coating to BS 1722 Pt.16 if required.

Polyester Powder Coating is available in a range of colours.

**Optional Base Plate**

PG1 & PG2 panels are available from stock for a speedy delivery.

- PG1 and PG 3
- PG2 and PG4

PG3 & 4 have staggered infills
Barriers

IAE manufacture a range of barrier gates, fabricated from heavy duty box section steel which is hot dip galvanised after manufacture. These are held in stock in standard widths as shown below. The Padlock security box system is incorporated into the slam post thus allowing the barrier to be used either left or right handed.

### Triangular Barrier

- **Height Barrier (Made to Order)**

### Rectangular Barrier

- **GATE WIDTHS**

<table>
<thead>
<tr>
<th>Height</th>
<th>1100mm above G.Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lengths</td>
<td>3000mm, 3600mm, 4200mm</td>
</tr>
</tbody>
</table>

### Posts

- **Available**

<table>
<thead>
<tr>
<th>Post Sizes</th>
<th>120 x 120mm Hang Post</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>120 x 120mm Slam Post c/w Pad Sec Box</td>
</tr>
<tr>
<td></td>
<td>150 x 150mm Hang Post</td>
</tr>
<tr>
<td></td>
<td>150 x 150mm Slam Post c/w Pad Sec Box</td>
</tr>
</tbody>
</table>

Knee Rail

IAE supply a range of standard knee rail barriers, bespoke options can also be manufactured when necessary.
IAE manufacture a range of standard size gate frames for use on construction sites. Basic 'no frills' design keeps cost low but the usual IAE high quality is maintained. All gates are hot dip galvanised, to ensure protection from corrosion meaning these gates can be removed when a site is complete and re-used on the next. Frames are supplied unclad for the contractor to add either mesh or hoarding timber as required.

Standard Heights: 1700 & 2300mm  
Standard Widths: 1200mm (SL), 5000, 6000 & 8000mm (DL)

IEA manufacture the full range of Department of Transport gates to the highways specification details H17, H18, H19 and H20.

IAE are the UK’s largest manufacturer of steel field gates, a full range of styles and sizes are available from stock.
Gates

IAE are expert gate manufacturers. Pedestrian, vehicular, swing or sliding gates can be manufactured to almost any design. These images show a selection of standard and special gates supplied for recent contracts.
Debris Fencing Panels for Formula E

We knew the deadline was going to be tight, but we also knew we would be able to achieve this, due to our modern factory facilities and technical expertise.

We had to manufacture and deliver in excess of 7000mtrs/1800 panels and posts. In total 42 full artic loads were delivered to site, over a 7 day period.
Features:
- Compliant to BS 1722 Pt. 14
- Available from stock
- Base-plated post option from stock
- M8 Security fixings
- Anti-climb shallow ‘V’ profile
- Choice of RAL colours available

Suitable for:
- Schools, Colleges & Universities
- Commercial Premises
- Industrial Units
- Solar Farms

“Cost effective perimeter fencing”

The Vmex® mesh system is IAE’s most cost effective perimeter fence, providing a highly economical option for low to medium security applications. Despite its budget price point Vmex® still sports heavy gauge 6mm horizontal and 5mm vertical wires, forming mesh apertures of 200mm x 50mm. Three pressed beams provide rigidity, whilst the shallow nature of these ‘V’ beams prevents them being used as a climbing aid. Vertical wires are extended by 30mm forming a ‘spiked’ top to the panels further discouraging intruders from attempting to scale the fence.

Vmex® panels are supported by strong 60 x 60 steel box section posts, which are supplied with steel fixing clips & M8 security screws.
Vmex® Specification

**PANELS**

<table>
<thead>
<tr>
<th>Heights</th>
<th>1200, 1800, 2000, 2400 &amp; 3000mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire Diameter</td>
<td>5mm verticals &amp; 6mm horizontals</td>
</tr>
<tr>
<td>Aperture Size</td>
<td>200 x 50mm</td>
</tr>
<tr>
<td>Panel Width</td>
<td>3005mm (1200 – 2400mm high),</td>
</tr>
<tr>
<td></td>
<td>2805mm (3000mm high)</td>
</tr>
</tbody>
</table>

**POSTS**

<table>
<thead>
<tr>
<th>Post Size</th>
<th>60 x 60 SHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post Centres</td>
<td>3030mm (1200 – 2400mm high),</td>
</tr>
<tr>
<td></td>
<td>2830mm (3000mm high)</td>
</tr>
</tbody>
</table>

**FINISH**

Galvanised and Polyester Powder Coated to BS 1722 Pt. 16.

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**GATES**

The IAE Vmex® system can be complimented with single or double leaf gates, some of which are held in stock for immediate delivery. A heavy duty pad-lockable sliding latch and drop bolts are fitted as standard with other locking options being available on request. Stock gate widths available are as follows.

<table>
<thead>
<tr>
<th>Width (mm) between posts</th>
<th>Single Pedestrian</th>
<th>Double Gate</th>
<th>Double Gate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post Size</td>
<td>80 x 80 SHS</td>
<td>120 x 120 SHS</td>
<td>120 x 120 SHS</td>
</tr>
<tr>
<td>Opening In</td>
<td>180°</td>
<td>180°</td>
<td>180°</td>
</tr>
<tr>
<td>Hand</td>
<td>L/H</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

*Other sizes available on a made to order basis*
**Features:**
- Compliant to BS 1722 Pt. 14
- Available from stock
- Base-plated post option from stock
- M8 Security fixings
- Anti-climb shallow ‘V’ profile
- Choice of RAL colours available

**Suitable for:**
- Distribution Centres
- School, Colleges & Universities
- Commercial Premises
- Industrial Units

"Style and security"

Zebex® is a strong, stylish fence, combining excellent aesthetic appeal with anti-climb properties.

The stylish stripe effect design combines 6mm (horizontal) and 4mm (vertical) wires to form narrow apertures 22mm – 40mm wide. Reducing the risk of both climbing and cutting. Three pressed beams provide rigidity, whilst the shallow nature of these ‘V’ beams prevents them from being used as a climbing aid. Zebex® panels are supported by strong 60 x 60 steel box section posts, which are supplied with steel fixing clips & M8 security screws.

An attractive design and inherent security properties mean that Zebex® is suitable for a wide range of perimeter applications.
**GATES**

The IAE Zebex® system can be complimented with single or double leaf gates, some of which are held in stock for immediate delivery. A heavy duty pad-lockable sliding latch and drop bolts are fitted as standard with other locking options being available on request. Stock gate widths available are as follows.

<table>
<thead>
<tr>
<th>Post Size</th>
<th>Single Pedestrian</th>
<th>Double Gate</th>
<th>Double Gate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (mm) between posts</td>
<td>1240</td>
<td>4270</td>
<td>6270</td>
</tr>
<tr>
<td>Post Size</td>
<td>80 x 80 SHS</td>
<td>120 x 120 SHS</td>
<td>120 x 120 SHS</td>
</tr>
<tr>
<td>Opening In</td>
<td>180°</td>
<td>180°</td>
<td>180°</td>
</tr>
<tr>
<td>Hand</td>
<td>L/H</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

*Other sizes available on a made to order basis*

---

**FINISH**

Galvanised and Polyester Powder Coated to BS 1722 Pt. 16.

---

**Zebex® Specification**

<table>
<thead>
<tr>
<th>PANELS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Heights</td>
<td>2000, 2400 &amp; 3000mm*</td>
</tr>
<tr>
<td>Wire Diameter</td>
<td>4mm verticals &amp; 6mm horizontals</td>
</tr>
<tr>
<td>Aperture Size</td>
<td>150 x 40mm / 150 x 22mm</td>
</tr>
<tr>
<td>Panel Width</td>
<td>3044mm</td>
</tr>
</tbody>
</table>

*Double lift system*

**POSTS**

| Post Size | 60 x 60 SHS |
| Post Centres | 3070mm |
Fortex® is a high security mesh fencing system with a dense configuration of 4mm diameter wires. Narrow apertures deny any potential foot and finger holds making Fortex® extremely difficult to climb whilst retaining excellent visibility through the fence. Panels are overlapped at each post and secured by a full length clamp bar, dome headed bolts & permacone security nuts. Panel heights can be supplied up to 5.2 metres with heights of 3 metres and above conforming to category 4 of BS 1722 Pt. 14.

Available from stock in a range of heights up to 3 metres, Fortex® is a formidable visible deterrent, suitable for any security conscious application.

**Features:**
- Compliant to BS 1722 Pt. 14
- Available from stock
- M8 Security fixings
- Anti-climb
- Choice of RAL colours available

**Suitable for:**
- Detention Centres
- Secure Units
- M.O.D. Bases
- Schools, Colleges & Universities
- Utility Installations
### Fortex® Specification

#### PANELS

<table>
<thead>
<tr>
<th>Height</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>1270</td>
<td>1800, 2000, 2135*, 2440*, 2700, 3000*, 3300, 4200, 5200mm</td>
</tr>
</tbody>
</table>

- *Indicates system with accompanying post held in stock

<table>
<thead>
<tr>
<th>Wire Diameter</th>
<th>4mm verticals &amp; 4mm horizontals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aperture Size</td>
<td>76.2 x 12.7mm</td>
</tr>
<tr>
<td>Panel Width</td>
<td>2515mm</td>
</tr>
</tbody>
</table>

#### Posts

<table>
<thead>
<tr>
<th>Post Size</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post Centres</td>
<td>2440mm</td>
</tr>
</tbody>
</table>

- Up to 2440mm high 60 x 60 SHS (3000mm – 80 x 60 RHS)

#### Finish

Galvanised and Polyester Powder Coated to BS 1722 Pt. 16.

---

**Fence System**
- **PLASTIC CAP**
- **FULL LENGTH LACING STRAP**
- **M8 SECURITY SCREW**
**Fortex® Beam**

**Features:**
- Compliant to BS 1722 Pt. 14
- Available from stock
- M8 Security fixings
- Anti-climb
- Choice of RAL colours available

**Suitable for:**
- Schools, Colleges & Universities
- Utility Installations
- Industrial & Commercial Premises

“Pressed security mesh system”

Fortex® Beam is a stylish variation on the 358 design. Pressed beams make the panels more rigid and easier to install, however these beams keep the IAE ‘shallow’ anti-climb profile minimizing any potential foothold. Panels are overlapped at each post with pressed beams notched out to allow a full length clamp bar, secured by dome headed bolts & permacone nuts.
Fortex® Beam Specification

**PANELS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heights</td>
<td>2440 &amp; 3000mm</td>
</tr>
<tr>
<td>Wire Diameter</td>
<td>4mm verticals &amp; 4mm horizontal</td>
</tr>
<tr>
<td>Aperture Size</td>
<td>76.2 x 12.7mm</td>
</tr>
<tr>
<td>Panel Width</td>
<td>2515mm</td>
</tr>
</tbody>
</table>

**POSTS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post Size</td>
<td>2440mm high 60 x 60 SHS, 3000mm high 80 x 60 RHS</td>
</tr>
<tr>
<td>Post Centres</td>
<td>2440mm</td>
</tr>
</tbody>
</table>

**FINISH**

Galvanised and Polyester Powder Coated to BS 1722 Pt. 16.
**Duex® Perimeter**

**Features:**
- Compliant to BS 1722 Pt. 14
- Available from stock
- Base-plated post option from stock
- M8 Security fixings
- Rigid double wire design
- Choice of RAL colours available

**Suitable for:**
- Schools, Colleges & Universities
- Commercial Premises
- Industrial Units
- Theme Parks

“Rigid perimeter mesh system”

Duex® double wire mesh is traditionally used in a sports environment, but its rigid construction makes it equally as effective for perimeter protection and demarcation. The inherent strength within the panels is achieved by sandwiching a 6mm vertical wire between rows of twin 8mm horizontal wires spaced at 200mm intervals. This mesh configuration ensures that the panels offer a high resistance to vandalism.
Duex® panels are supported by strong 60 x 60 steel box section posts, which are supplied with steel fixing clips & M8 security screws. Where a lighter protection is acceptable or budget constraints are tighter Duex® is also available in a 6/5/6mm wire configuration.
Duex Wave

“Attractive wave design”

This attractive mesh system creates an eye catching wave effect around a desired area. Ideal for play or nursery environments, the flowing design provides a refreshing alternative to standard low height mesh systems and also benefits from a rigid durable double wire configuration.

Security fixings and a full length clamp bar secure the mesh to strong box section posts ensuring that looks don’t come at the expense of quality.

Features:
- Compliant to BS 1722 Pt. 14
- M8 Security fixings
- Rigid double wire design
- Choice of RAL colours available

Suitable for:
- Junior Schools & Nurseries
- Play Areas
- Garden and Amenity Areas

Polyester Powder Coating
Duex® Wave Specification

**PANELS**

<table>
<thead>
<tr>
<th>Heights</th>
<th>1200mm (other available on request)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire Diameter</td>
<td>6mm verticals &amp; twin 8mm horizontals</td>
</tr>
<tr>
<td>Aperture Size</td>
<td>200 x 50mm</td>
</tr>
<tr>
<td>Panel Width</td>
<td>2506mm</td>
</tr>
</tbody>
</table>

**POSTS**

<table>
<thead>
<tr>
<th>Post Size</th>
<th>60 x 60 SHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post Centres</td>
<td>2520mm</td>
</tr>
</tbody>
</table>

**FINISH**

Galvanised and Polyester Powder Coated to BS 1722 Pt. 16.

Duex® Wave Specification

**PANELS**

<table>
<thead>
<tr>
<th>Heights</th>
<th>1200mm (other available on request)</th>
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</table>

**POSTS**

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<tr>
<th>Post Size</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Post Centres</td>
<td>2520mm</td>
</tr>
</tbody>
</table>

**FINISH**

Galvanised and Polyester Powder Coated to BS 1722 Pt. 16.
Mesh systems don’t come any more robust than IAE Gridex™. Forge welded architectural grating panels combine flat vertical and round horizontal steel bars. Available in two configurations, either standard Gridex™ 62 x 132 or Gridextra which has a denser 62 x 66 pattern.

“Sharp, strong and stylish”

- Forge welded
- Stepping cleats
- Security fixings
- Two configurations available
- Hot Dip Galvanised to BS EN ISO 1461
- Polyester Powder Coating (optional)

Suitable for:
- Car Parks
- Secure Compounds
- New Build Apartment Block Areas
- Office Blocks
This highly versatile fence is ideal for a wide range of applications, cladding open areas of buildings that require ventilation such as car parks or simply used as a strong attractive boundary fence. RSJ or box section posts support the panels which are available in a range of heights.
ARCHITECTURAL SCREENING

Perforated Screening .................. 46-47
Louvex® .................................... 46-47
RCP Screen - V1 ...................... 48-49
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RCP Screen - H2 ...................... 49

SPORTS MESH .......................... 50

SHELTERS ................................ 60

INDUSTRIAL FIT OUT .................. 78
Louvex®

Providing privacy and security IAE Louvex® is a strong, stylish and modern architectural screen fencing system. Panels are made from mild steel, forge welded at every intersection in accordance with BS 4592 Part 1. A choice of visibility level is available, either a 100% screen (zero visibility) or 80% screen allowing 20% visibility.
Perforated Screening

Using the very latest technology IAE is able to effortlessly create steel perforated screening systems with their design adapted to suit individual applications.

Used across a wide range of sites from the Olympic Park to bin stores and recycling areas IAE have manufactured these screens often working with Architects to create a pattern in keeping with their surroundings.

Panels are supplied 2 metres wide and can be stacked in a modular fashion to achieve a range of heights. Panels can also be installed with vertical or horizontal louvres allowing freedom over the aesthetics.

If additional security is required, consider IAE Louvex® ‘HD’ 3 mm thick heavy duty corrugated louvres creating a super strong and robust security screen.
IAE H1 and H2 barriers are the perfect alternative to timber, manufactured in the UK from recycled plastic reinforced with recycled fibreglass. Recycled plastic beams are placed horizontally between steel posts to create either an outdoor acoustic barrier or indoor industrial partitioning system.

**Features**
- Quicker to install than timber
- Maintenance free
- Design life of 40 years
- Consistent acoustic performance
- Highly Durable
- UV Stabilised
- Fire rated class 3

**Suitable For**
- Acoustic noise barriers
- General screening
- Bin stores
RCP Screen - V1

This screen type fence is ideal for bin stores and other outdoor compounds where concealment as well as security is necessary.

A combination of hot dip galvanised steelwork and recycled plastic vertical fence pales gives the inherent structural strength and reliability of steel plus the unobtrusive maintenance free practicality of recycled plastic.

Combining the best of both worlds this fencing system provides a secure screen around a designated area with a visible solidity of over 85%.

RCP Screen - H2 Industrial Screening

The recycled plastic beams are eco-friendly but their engineered nature makes them light, easy to handle and quick to install. The product will not shrink or warp giving consistent acoustic performance over it's lifespan.

Features

- Highly flexible
- Production noise protection
- Maintenance free
- Highly Durable
- UV Stabilised
- Fire rated class 3

Suitable For

- Separation of manufacturing lines
- Materials storage & segregation
- Shop floor office areas
- Staff rest areas
- Canteens
Duex® Sports 868 Rebound . 52-53
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SHELTERS .......................... 60
INDUSTRIAL FIT OUT ............ 78
IAE are experts in sports mesh systems, the most commonly supplied is our Duex® Sports 868 Rebound. The rigid twin 8mm wire design has additional horizontal wires in the bottom 1200mm section of a panel. These additional wires reduce the panel apertures to 50 x 66mm creating a robust 'rebound' surface, strengthening the bottom of the panel that receives the most impact. This dense double wire pattern can be continued throughout the full height of the panel if necessary creating a rigid wall of rebound mesh.

A common sight in schools and leisure centres Duex® Rebound has also been supplied for some of the UK’s most prestigious sporting projects. IAE have been able to assist clients and architects by drawing upon a wealth of experience in the field.

Both Duex® Rebound and standard Duex® can also be supplied in a lighter 6/5/6 configuration, however IAE would always recommend using heavier 8/6/8 panels in a sporting environment.

**Features:**
- Compliant to BS 1722 Pt. 14
- Available from stock
- Perfectly designed for ball rebound
- M8 Security fixings
- Full rebound configuration available
- Noise reducing washers (optional)

**Suitable for:**
- All Sports Pitch Environments
Duex® Sports 868 Rebound Specification

PANELS
- Heights (Duex®): 3030*, 4070, 4470*, 5070mm
- Wire Diameter: 6mm verticals & twin 8mm horizontals
- Aperture Size: 50 x 66mm / 200 x 50mm
- Panel Width: 2506mm
*Indicates heights held in stock

POSTS
- Fence Height | Post Size
- 3030mm | 80 x 40 RHS
- 4070mm* | 100 x 50 RHS
- 4470mm* | 100 x 50 RHS
- 5070mm* | 120 x 60 RHS
* Indicates double lift system

For sporting applications where ball rebound is not as prevalent such as tennis standard Duex® panels may be preferred.

FINISH
Galvanised and Polyester Powder Coated to BS 1722 Pt. 16.
Features:
- Available from stock
- Perfectly designed for ball rebound
- 66 x 50 or 200 x 50 mesh choice
- M8 Security fixings
- Full length clamp bar
- Safe-2-View Top Rail (S2V)

“Perfect for pitch surrounds”

An evolution on traditional tubular steel pitch surrounds, Duex® spectator rail has a double wire mesh infill and tubular top rail. The mesh panel is capped off with IAE’s unique ‘Safe-2-View’, plastic sleeve that encapsulates the top of the mesh, protecting players and spectators from any sharp edges that may protrude from the mesh panel.

Standard Specification
Height: 1155mm (to top of handrail)
Top Rail: 48.3mm Diameter tube
Mesh infill: 1000mm
Duex 8/6/8 mesh (66 x 50 or 200 x 50)
Posts: 60 x 60 SHS @ 2520mm ctrs
The IAE Sports Shelter Dug Out is suitable for sporting clubs, schools, colleges and universities. Built to survive pitch side its robust steel frame is hot dip galvanised to ensure a long and useful life.

The shelter is 4 metres long as standard but can also be supplied as a 2 or 6 metre unit. Seating is provided by an integral recycled plastic bench, alternatively plastic bucket seats can be provided if required.

A variety of ground fixings can also be provided, suitable for bolting down, concreting in or anchoring into turf.

Features:
- Robust steel frame
- 4mm PETg UV
- Welded end frames
- Threaded inserts for easy installation
- Hot Dip Galvanised to BS EN ISO 1461

Options:
- Polyester Powder Coating
- Bucket Seats
- Choice of Ground Fixings
- Solar Lighting

PDF DOWNLOAD AVAILABLE @ www.iae.co.uk
Duex® Options:
IAE manufacture a range of products to complement our Duex® Sports mesh. Cricket, basketball, tennis and hockey can all be catered for. All products are heavy duty and built for a tough outdoor life.
IAE’s Top Shots Games Areas are manufactured to meet BS EN 15312:2007. Physical tests have been carried out for safety and structural integrity to ensure that the Top Shots system complies with all aspects. They are built to last with the heavy duty fencing being probably the strongest and most durable available in today’s market place, giving peace of mind to specifiers and end users alike.

Standard panels are 1060mm high and supplied in multiples to offer finished fence heights of 1100mm, 2150mm and 3200mm. They are manufactured from 50mm x 41mm steel grid and framed top and bottom with square hollow section.

**Features:**
- Compliant with BS EN 15312:2007
- Recessed fixings
- Impact and kick tested
- Assessed for finger/limb entrapment
- Hot Dip Galvanised to BS EN ISO 1461
- Polyester Powder Coating (optional)

**Suitable for:**
- Multi Use Games Areas
- Rebound Walls
- Goal Ends
FINISH
Hot Dip Galvanised to BS EN ISO 1461 (as standard). Additional Polyester Powder Coating to BS 1722 Pt.16 if required.

Polyester Powder Coating is available in a range of colours.
Cycle Shelters .......................... 62-65
Stands and Racks ..................... 66
Banbury .................................. 67-69
Smoking Shelters ..................... 70-72
Waiting Shelters ....................... 70-72
Accessories ............................. 73
Bollards ................................. 74-75
Recycled Plastic ....................... 76-77
IAE’s Circo range is the most complete modular cycle shelter system available. It has many unique features and as with all IAE products it really is built to last.

Starting with the Circo 90 base unit almost any configuration from inline shelter to full secure compound can be supplied from stock. All aspects are designed to enable retro fitting should capacity requirements change, a roof, additional bays and gates can all be added with ease.

As an alternative to standard toast racks the Circo shelter can be supplied with IAE’s unique integral cycle hoops. These heavy duty cycle hoops are fixed to the shelter, preventing the need to disturb the surface below. An integral motorcycle locking rail is also available. Sliding gates, helmet lockers and steel cladding provide yet more options for this comprehensive modular system.

**Features:**
- Modular system
- Available from stock
- Adjustable feet
- 5mm PETg UV
- End glazing as standard
- Heavy duty steel frame
- Hot Dip Galvanised to BS EN ISO 1461

**Options:**
- Polyester Powder Coating
- Customisable hub design
- Integral helmet lockers
- Integral cycle hoops
- Integral motorcycle locking rail
**Circo 90**

**FINISH**
Hot Dip Galvanised to BS EN ISO 1461 (as standard). Additional Polyester Powder Coating to BS 1722 Pt.16 if required.

**Dimensions & Capacity**

**Single Unit Size -**
- 4100L x 2145W x 2165H (10 x cycles)
- 5000L x 2145W x 2165H (12 x cycles)

Inline extensions in 2, 4 or 5 metre sections. Compounds can be formed using opposing shelters with optional gates, gangway roof and fixed end panels.

Polyester Powder Coating is available in a range of colours.
Circonomy

The Circonomy is a cost effective shelter priced to suit even the most modest budget without sacrificing quality. A robust steel frame and 4mm thick UV PETg cladding mean the Circonomy is strong and durable.

This hugely popular and versatile shelter is often used as a cycle or smoking and waiting shelter. Available from stock it’s highly competitive price and modular features make it suitable for a wide range of applications.

When it comes to providing shelter the Circonomy really has got it covered!

**Features:**
- Available from stock
- Modular system
- Adjustable feet
- 4mm PETg UV
- Cost effective shelter option
- Hot Dip Galvanised to BS EN ISO 1461

**Options:**
- Polyester Powder Coating
- PETg end panels

Circonomy Compound

Circonomy Waiting Shelter See Page 73 for Benches
**FINISH**
Hot Dip Galvanised to BS EN ISO 1461 (as standard). Additional Polyester Powder Coating to BS 1722 Pt.16 if required.

**Dimensions & Capacity**

**Single Unit Size -**
- 2000L x 2100W x 2100H (4 x cycles)
- 4100L x 2100W x 2100H (10 x cycles)

Inline Extensions in 2 or 4 metre sections. Compounds can be formed using opposing shelters with optional gates, gangway roof and fixed end panels.
IAE carry some of the UK’s largest stocks of cycle hoops, manufacturing large volumes on our modern tube bending machines enables us to be market leaders on price and quality.

Hoops can be supplied for bolting down individually or with rails to form 2, 3, 4 or 5-Hoop ‘toast racks’. Hoops within toast racks are spaced at 800mm centres in line with industry standards and BREAAM guidelines.

IAE cycle stands and racks come hot dip galvanised as standard and can be polyester powder coated to a range of standard colours if required.

Bolt down & root fixed hoops can also be supplied in stainless steel.

Further rack options are available on a made to order basis.

Available from stock
- 2 - 5 Hoop racks (800mm high @ 800mm ctrs)
- Bolt down hoops 760mm high
- Root fixed hoops 1160mm o/all leg
The Banbury Canopy's aesthetically pleasing elegant design is at home in virtually any environment. The unique intersecting end frame is fabricated from heavy duty tubular steel, combining stylish looks with excellent strength and stability.

Single and double width designs are available. These shelters are better suited to installation on flat surfaces due to the nature of the end frames.

**Features:**
- 5mm PETg UV
- Heavy duty tubular frame
- Hot Dip Galvanised to BS EN ISO 1461

**Options:**
- Polyester Powder Coating
- Inline extension
- Single or double width version
The standard Banbury canopy is available in two standard single unit sizes both of which can be extended inline.

**FINISH**
Hot Dip Galvanised to BS EN ISO 1461 (as standard). Additional Polyester Powder Coating to BS 1722 Pt.16 if required.

**Dimensions & Capacity**

**Single Unit Size** -
- 4100L x 2700W x 2200H (10 x cycles)
- 5000L x 2700W x 2200H (12 x cycles)

Inline Extensions in 2, 4 or 5 metre sections.
FINISH
Hot Dip Galvanised to BS EN ISO 1461 (as standard). Additional Polyester Powder Coating to BS 1722 Pt.16 if required.

Dimensions & Capacity
Single Unit Size -
4100L x 3870W x 2200H (20 x cycles)
5000L x 3870W x 2200H (24 x cycles)

Inline Extensions in 2, 4 or 5 metre sections.

The Double Banbury canopy has an increased roof width to accommodate two rows of cycle hoops. An additional diagonal member in the end frame helps support load bearing purlins. This shelter can be extended inline allowing for large amounts of covered storage in a compact area.
Smoking & Waiting Shelters

**Longton** (8 - 10 people capacity)

**Features:**
- Fire rated PETg UV cladding.
- Compliant with UK Smoking Legislation
- Trentham and Lightwood available from stock

**Options:**
- Range of accompanying ashtrays & benches

**LONGTON**

This is the largest shelter in IAE’s range, suitable for up to ten people. Particularly popular on industrial or commercial sites where a large capacity is required. The Longton shelter is often supplied with IAE Alton recycled plastic benches (page 76) and a stainless steel tower ashtray (page 73).

**BURSLEY**

This small bolt to wall canopy offers amazing value for money, helping companies provide a dedicated covered smoking area without breaking the bank.

The canopy comes in two standard sizes (2m & 3m wide) and can also be complimented with a recycled plastic bolt to wall perch seat and ashtray if required.
TRENTHAM & LIGHTWOOD

The unique perforated arch plate in the Trentham and Lightwood shelters comes with a cigarette motif as standard but can be customised to suit various applications.

The robust steel frame is hot dip galvanised ensuring a long life, whilst PETG UV glazing gives total protection against degradation and yellowing.

Both the Trentham and Lightwood shelters are available from stock and supplied with a stainless steel shelter mounted ashtray as standard.

FINISH

Hot Dip Galvanised to BS EN ISO 1461 (as standard). Additional Polyester Powder Coating to BS 1722 Pt.16 if required.

Polyester Powder Coating is available in a range of colours.
These flat roof shelters are designed to maximise value for money. The no-frills functional flat roof design is practical and cost-effective.

Perfectly suited to use as a smoking or waiting shelter, these shelters benefit from an optional front panel to further protect occupants from the elements. If a front panel is used and the shelter is for smoking purposes the side glazing can be reduced to ensure compliance with UK smoking shelter law.

**Fenton (6-8 people capacity)**

**Blurton (4-5 people capacity)**

**Features:**
- Fire rated PETg UV cladding.
- Compliant with UK Smoking Legislation

**Options:**
- Range of accompanying ashtrays & benches
Many sites find it necessary to operate a ‘flame free’ policy, if this is the case the IAE flameless cigarette lighter post is the perfect smoking shelter accompaniment. Up to two electronic cigarette lighters are mounted in a stainless steel column, the lower lighter is set at a suitable height for wheel chair users.
IAE Stainless Steel Bollards are a statement of elegance combining attraction with function in the protection of any location.

**Vogue Rudyard Bramshall**

IAE Stainless Steel Bollards are a statement of elegance combining attraction with function in the protection of any location.

**Features:**
- Available from stock
- Cost effective
- Hot Dip Galvanised to BS EN ISO 1461
- Stainless grade 304 & 316 available

**STAINLESS STEEL BOLLARDS**

IAE offer a selection of bollards to suit most locations, from attractive and stylish stainless steel options to functional heavy duty mild steel.

<table>
<thead>
<tr>
<th>VOGUE</th>
<th>RUDYARD</th>
<th>BRAMSHALL</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 150mm equilateral</td>
<td>• Semi dome cap</td>
<td>• Bevelled cap top</td>
</tr>
<tr>
<td>• 1200mm overall length</td>
<td>• 114mm diameter</td>
<td>• 114mm diameter</td>
</tr>
<tr>
<td></td>
<td>• 1200mm overall length</td>
<td>• 1200mm overall length</td>
</tr>
<tr>
<td></td>
<td>• Available from stock</td>
<td>• Available from stock</td>
</tr>
</tbody>
</table>
MILD STEEL BOLLARDS

FULFORD
- 114mm diameter
- 1200mm overall length
- Available from stock

LEEK
- 168mm diameter
- 1200mm overall length
- Available from stock

HINGED PARKING POST
- 60.3mm diameter
- 900mm overall length
- Root fix or base plated options available
- Available from stock

CAVERSWALL
- 194 or 152mm diameter
- 1200mm overall length
- Loose cap allowing concrete fill

TELESCOPIC BOLLARDS
Telescopic bollards are available from stock for immediate delivery.

HULME
- 90mm x 90mm diameter Square Section x 5mm Gauge Mild Steel
- 10 Pin "Anti-Drill" Push Button Lock
- Sliding Post - 670mm Above Ground
- Lift up weight 15kg (lift assist also available)
  Available from stock

ECTON
- 90mm diameter Round Section x 5mm Gauge Mild Steel
- 10 Pin "Anti-Drill" Push Button Lock
- Sliding Post - 670mm Above Ground
- Lift up weight 12kg (lift assist also available)
- Available from stock

Bollards
Recycled Plastics

The IAE recycled plastic range of products offer great quality and real value for money.

Using a combination of mild steel and recycled plastics these products offer the best of both worlds, strong frames and recycled plastic profiles which will never rot or splinter.

Features:
- Available from stock
- Steel frame Hot Dip Galvanised to BS EN ISO 1461
- Plastic profiles 100% recycled
- Maintenance free recycled plastic
- Never chips, cracks, rots or splinters
- Tough, durable and vandal resistant
- Wheelchair accessible picnic table option available

The Alton Picnic Table is available with extended plastic profiles to allow easier access for wheelchair users.
RECYCLED PLASTIC FENCING

Recycled plastic fencing has been found to be a great alternative to timber on bin stores and in social housing schemes.

A sustainable option with an unparalleled life span, recycled plastic fencing is becoming an ever more popular choice.

Suitable for:
- Social Housing
- Playgrounds
- Parks

RECYCLED PLASTIC BOLLARD

150mm diameter and 1500mm long

Recycled plastic bollards are durable, vandal resistant and have white tape for additional visibility and safety.
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IAE’s internal fit out edge protection mesh system has been independently tested in accordance with BS 6180:2011. Safety is paramount in a modern working environment so these tried and tested systems offer peace of mind for employers & employees alike.

This highly efficient and flexible edge protection solution is perfect for use on mezzanine flooring within factories and warehousing. Traditional tubular handrail is generally supplied up to 1100mm high, this can allow people to lean over and objects to fall below, both unnecessary hazards in the work place. The IAE system is often supplied up to 2 metres in height preventing staff from leaning over to look or call below.

Available in a range of heights and mesh configurations this system can be adapted for use on stair wells and also used to form internal mesh storage cages. Handrails and kick-plates can also be added when necessary.

**Features:**
- Load tested in accordance with BS 6180:2011
- 0.74 & 1.5 k/n systems
- Modern safer alternative to tubular handrail
- Highly cost effective
- Simple to adapt and renew

**Options:**
- High visibility powder coating
- Range of heights and configurations
- Handrails
- Kick-plates
- Pallet access gates
BS 6180:2011

LOAD TESTED
EDGE PROTECTION
SYSTEMS
AVAILABLE

TESTED TO
0.74 k/N

TESTED TO
1.5 k/N

Edge Protection

Pallet Access Gate
Loading Bay
Protection

Complete loading bay solutions. IAE supply a comprehensive package for new and refurbished yard areas.

Features:
- Steel products hot dip galvanised to BS EN ISO 1461
- Optional high visibility powder coating
- Steel, plastic and rubber solutions available

Wheel Guides

Wheel guides are supplied in pairs to facilitate a safe and timely approach to loading bay doors. Essential for helping to guide the vehicle centrally towards the door IAE wheel guides are fabricated from heavy duty tubular steel designed to withstand the weight of a fully laden trailer.

**SWG-05**: Straight wheel guide, 168 dia. tubular steel, 2 metres long x 315mm high (min.)

**SWG-10**: Straight wheel guide, 168 dia. tubular steel, 3 metres long x 315mm high (min.)

Straight wheel guides can also be used as wheel stops if positioned accordingly. Legs can be supplied with base-plates for bolting down if required.

**CWG-05**: Cranked bolt down wheel guide, 139 dia. tubular steel, cranked one end, 2 metres long x 150mm high.

**CWG-05HD**: Cranked bolt down wheel guide, 168 dia. tubular steel, cranked one end, 2 metres long x 180mm high.
Wheel Stops

Usually placed at the rear of goods vehicle loading or parking bays.

**WS-10**
168 dia. tubular steel wheel stop
3 metres long x 190mm high.

**WS-20**
8mm thick folded wheel stop
1.2 metres long x 105mm high.

**WS-30**
150 x 150 angle iron wheel stop
3 metres long.

**WS-40**
Recycled rubber wheel stop
1 metre long x 150mm high.

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**Trailer Leg Plates**

Designed to protect wear from trailer leg plates on concrete yard slabs, these plates are available in hard wearing steel plate or nylon plastic.

Usually supplied 1000 x 1000mm, steel plates can be root fixed flush to the slab or surface mounted with a bevelled edge. PlasProtek™ plates are available for surface mounting only.

**TP 10 - FLUSHFIX**
1000mm x 1000mm
Root fixed flush to the slab.

**TP 20 - SURFACEFIX**
1000mm x 1000mm
Surface mounted with a bevelled edge.

**TP 30 - PLASPROTEK™**
1000mm x 1000mm
PlasProtek™ plates are available for surface mounting only.

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**PLASPROTEK™ SLIDING DOCK PROTECTOR**

Docking bays in general are subject to aggressive wear from the movement of vehicle beds whilst in the dock. This can be eliminated by using an IAE Plasprotek™ sliding dock protector. Tough, hardwearing nylon pads within a steel housing are able to slide with the vehicle. Available in a range of colours and as fixed pads.
One of the most cost effective ways to protect people and assets from vehicle damage, steel bollards play an essential part in site safety. IAE are able to offer bollards at a highly competitive price taking full advantage of our large modern manufacturing facility.

**Features:**
- Hot Dip Galvanised to BS EN ISO 1461
- PlasProtek™ sleeve available
- Optional high visibility powder coating
Maintaining a high visibility colour finish on protection bollards is important but also time consuming and costly. Due to the nature of the application scuffs and weathering of paintwork are inevitable. IAE now offer a cost effective practical solution to this problem. Either to fit over existing bollards or supplied with new this sleeve can suit 168mm diameter tube or a 76mm core where a lighter protection is acceptable but visible deterrent is still important, keeping costs down.

**Features:**
- Moulded yellow LDPE
- 2 x UV stabilised HD vinyl strips
- Easy to fit
- No maintenance
Internal protection within large manufacturing or warehousing facilities is an essential part of the building’s ‘fit out’. IAE manufacture a complete range of steel products to protect columns, racking, dock loading bays, entrances, printing stations and partitioning.

Hot dip galvanised and built to last these products will be protecting staff and assets alike for years to come.

**Features:**

- Complete range of products available
- Bespoke options to client specification available
- Hot Dip Galvanised to BS EN ISO 1461
- Optional high visibility powder coating
Internal safety railings form a barrier to segregate pedestrians from vehicles in busy industrial environments. IAE manufacture regular and heavy duty tubular barrier systems built to last in a demanding environment.

**SB 100** – 1200mm High 3-Rail Barrier (optional crash barrier if required).

**SB 100HD** – 1100mm High Single Rail 114 mm dia. Barrier c/w kick-plate.
Off highway crash barrier commonly known as ‘Armco’ is a cost effective solution to protecting pedestrians and property. Used both indoors and outdoors, in car parks, warehousing and factories, in fact in any off highway crash sensitive environment this corrugated beam provides the ideal solution. All beams are 3mm thick and hot dip galvanised to ensure a long and durable life, a full range of associated products are also available from stock.

IAE also offer load tested crash barrier systems using the ‘Armco’ beams; in accordance with Annex B BS EN 1991-1-1:2002.

**Features:**

- Available from stock
- Cost effective
- Highly versatile
- Optional high visibility powder coating
- Load tested barriers available

(BS EN 1991-1-1:2002)
Comprehensive stocks of Hot Dip Galvanised Off Highway Crash Barrier Products

SINGLE BEAM BOLT DOWN POST

OH 2201 Single Beam Barrier Post
127 x 76 x 13 kg/mtr UB
760mm long c/w 330 x 250 x 12 base-plate
Holed once to accept a single beam

ALSO AVAILABLE ROOT FIXED

DOUBLE BEAM BOLT DOWN POST

OH 2210 Double Beam Barrier Post
127 x 76 x 13 kg/mtr UB
1100mm long c/w 330 x 250 x 12 base-plate
Holed twice to accept two beams

ALSO AVAILABLE ROOT FIXED

SINGLE BEAM BOLT DOWN POST C/W HANDRAIL STANCHION

OH 2205 Single Beam Barrier Post
127 x 76 x 13 kg/mtr UB
760mm long c/w 330 x 250 x 12 base-plate
Welded stanchion to accept 48.3mm diameter handrail
Holed once to accept a single beam

ALSO AVAILABLE ROOT FIXED

OFF HIGHWAY BEAM

3200mm EFFECTIVE LENGTH

FISH-TAIL END

PEDESTRIAN END

YELLOW PLASTIC SAFETY END

EXTERNAL CORNER

INTERNAL CORNER

BULL NOSE FLEXI-CORNER
**PlasProtek™**

**Features:**
- Air pressure release to cushion impact
- Assemble in seconds
- Fits range of column sizes and shapes
- High visibility
- UV stabilised

**Slimline Column Protectors**
1100mm high x 390mm x 435mm.

Suitable for smaller columns and areas with limited space such as mezzanine floors.

**PP100** to fit Columns 100mm x 100mm.

**PP150** to fit Columns 150mm x 150mm.

**Standard Column Protectors**
1100mm high x 600mm Diameter.

IAE PlasProtek™ column protectors provide excellent impact protection for columns and girders. Manufactured from a highly flexible, tough polyethylene, they are light and easy to handle. No fixings are required for installation, a velcro strap secures the protectors making assembly quick and keeping labour costs low.

**PP200** to fit Columns 160mm x 160mm & 200mm x 200mm.

**PP300** to fit Columns 250mm x 250mm & 300mm x 300mm.

**Universal Column Protector**

**PP700** Suitable for any shaped columns from 200 to 700mm. Supplied in four sections, the horizontals can be cut to fit on site.

**Column protector infills**
Can be added to offer full protection to a wide range of RSJ column sizes.
IAE are able to manufacture posts to suit all types of acoustic barrier systems. A modern large scale manufacturing facility means heavy duty RSJ posts can be supplied in whatever length and size necessary. Posts are supplied to suit timber noise barriers or can be supplied with IAE H1-Acoustic Barrier (see page 48).

IAE manufacture vehicle wash bay barriers, strong heavy duty box section framework is clad with 5mm PETg UV clear plastic glazing. PETg UV has coextruded protection from UV degradation and all steelwork is hot dip galvanised to protect against rust and corrosion. Wash bays are able to be manufactured in a range of heights and lengths to suit site requirements.
X-Clamp fittings are a simple and cost effective way of creating an endless variety of tubular structures without the need for welding. Our extensive range of fittings when combined with standard tubing enables the user to create any structure imaginable for use in all manner of industries.

We also provide DDA range of handrail designed to meet the requirements laid down in the Equality Act 2010 (Previously the Disabled Discrimination Act) by providing a non-discriminatory handrail solution that complies with Part ‘M’ of the Building Regulations 2004 and is a smooth continuous handrail of 42.4mm diameter.

DDA fittings are supplied Hot dip Galvanised as standard. DDA fittings can be powder coated making them more visible.

**Features:**
- Galvanised tube available in 6 - 6.4 mtr lengths.
- Galvanised Blackheart Malleable Iron Fittings to BS EN 1582:1977
- Grade B2-10 Galvanised to BS EN ISO 1461

**BS 6180:2011**

**LOAD TESTED HANDRAIL SYSTEMS AVAILABLE**
We work closely with individual clients and architects seeking something a little bit special for bespoke projects.

Tasked to match a centuries old ornate railing around Hayes & Harlington station in London.

IAE worked closely with the fencing contractor and architect to create this contemporary and striking recreation of a classic design.
IAE Supplied fencing to the new ‘Lost Kingdom’ at Paulton Theme Park. In-depth load testing was required for the queue ramp areas to ensure safety of visitors.

Railings were zinc plated before powder coating to provide an exceptionally smooth finish.
Proprietors: F. Klucznik & Son Ltd, Mossfield Road, Adderley Green, Longton, Stoke-on-Trent, ST3 5BW

IAE reserve the right to alter design and specification without prior notice