

PERIMETER SOLUTIONS • SPORTS • PLAY • INDUSTRIAL

JANUARY 2025

IAE[®]

INDUSTRIAL

Founded in 1969, IAE are the UK's leading manufacturer and supplier of industrial fencing, shelters, agricultural livestock handling and housing equipment and equestrian stabling. The company continues to be owned by the same founding family and employs over 450 people, who we are passionate about investing in. IAE is based on a purpose built, 38-acre site which is situated on the edge of Stoke-on-Trent in Staffordshire. The state-of-the-art production facility features an extensive range of automated processes, ranging from robotic welding technology to automated material handling and also includes our own in-house Galvanizing facility. Our ability to design, manufacture, assemble and distribute from this unique operation allows us to offer our customers a complete range of high quality, unrivalled products like no other.



Galvanizing

Our in-house Galvanizing plant allows us to precisely control our Galvanizing process to ensure that the finished product is durable to all intended applications. All of our products are Galvanized to meet BS EN ISO 1461.

Distribution

Our distribution yard ensures the safe loading of all trailers in a timely manner. We aim to hold bulk stock of many products where possible.

Nationwide Delivery

Our unmistakable fleet of 13 lorries, along with their drivers and our logistics team ensure that all of our products reach their end destination.



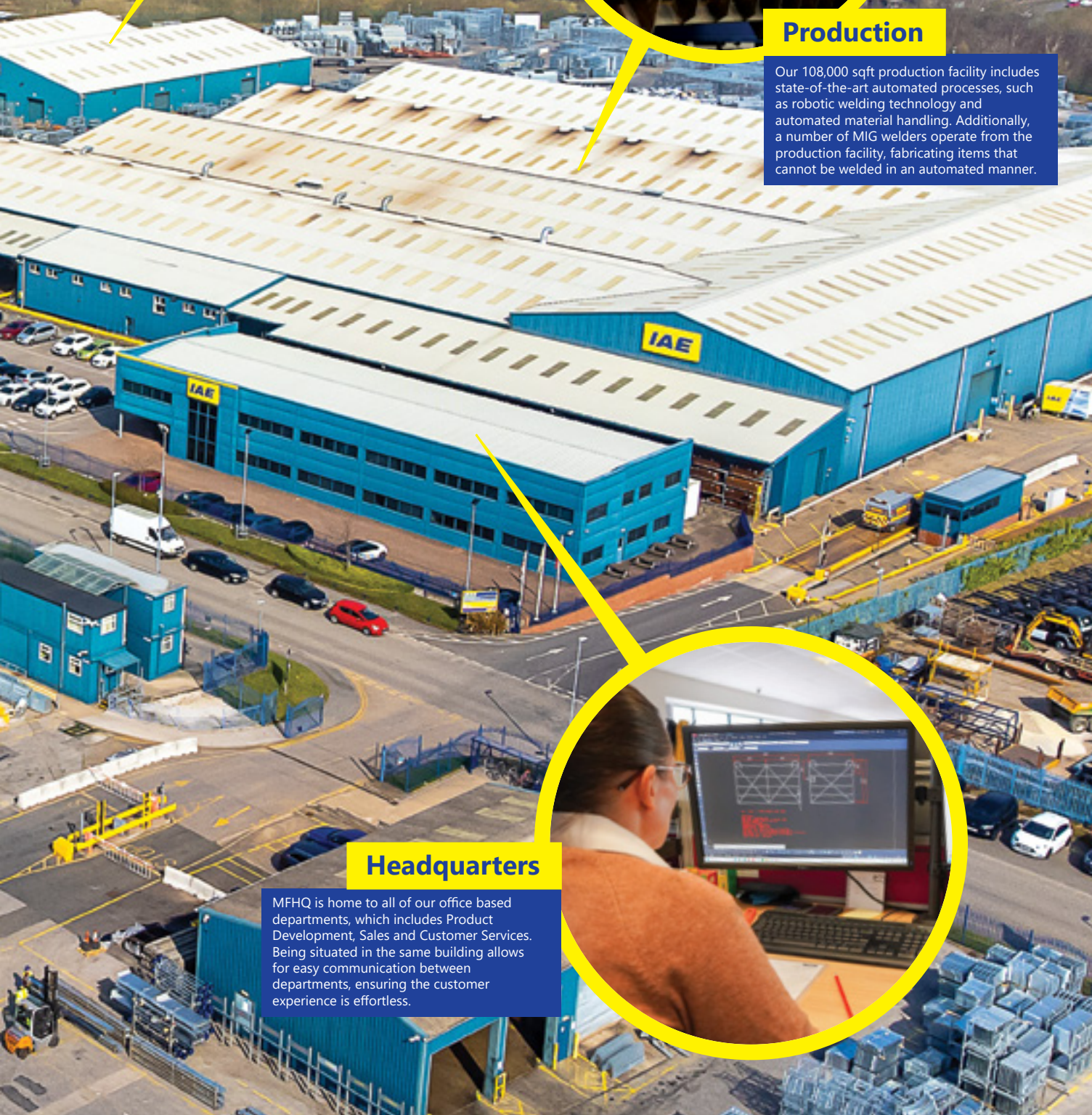
Assembly

All of our products are built up in the assembly building. The assembly department brings the product to life as hundreds of components are fitted together to create the finished product.



Production

Our 108,000 sqft production facility includes state-of-the-art automated processes, such as robotic welding technology and automated material handling. Additionally, a number of MIG welders operate from the production facility, fabricating items that cannot be welded in an automated manner.



Headquarters

MFHQ is home to all of our office based departments, which includes Product Development, Sales and Customer Services. Being situated in the same building allows for easy communication between departments, ensuring the customer experience is effortless.

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Our dedicated team are able to offer a wealth of practical and technical knowledge that they have gained through many years of experience within the industry. These factors combined with the first-class manufacturing capabilities at our Headquarters, in Stoke-on Trent, allow us to offer a tailored service which will meet all your requirements.



CONCEPT

The concept phase includes an initial call, to gain a better understanding of your ideas and requirements in order to ensure that your bespoke solution is fully tailored to satisfy your needs.



DESIGN

Our in-house design team will then refine those discussions into dynamic and detailed drawings that will accurately reflect all of your requirements.

Polyester Powder Coating colours can be customised to your specific requirement.



MANUFACTURE

All of your equipment will be manufactured on-site at our headquarters in Stoke-on-Trent, where we are able to ensure the highest standards of quality from the initial welds right through to the Hot Dip Galvanizing.



AFTER SALES SUPPORT

Our dedicated Customer Support team are on hand from the day of completion of your project to provide any further after sales support that you may require.

If you require assistance planning your next project, do not hesitate to contact our experienced team as they are here to assist you.

BUYING FROM IAE

Terms and Conditions

Customers must accept that F. Klucznik & Son Ltd's Terms and Conditions apply when placing any order. The full Terms and Conditions are available at the back of this brochure or alternatively can be viewed on our website: <https://iae.co.uk/terms-and-conditions/>

Hot Dip Galvanizing

Unless otherwise stated, all products are Hot Dip Galvanized to the standard of BS EN ISO 1461. For further information about the Galvanizing process, visit: www.galvanizing.org.uk

Carriage

We offer a free delivery service to customers within a 50 mile radius of our manufacturing facility. Outside of this radius, a carriage charge will be applied on all deliveries where the cumulative value of order does not exceed £2000 net (excluding VAT). All orders over £2000 will be delivered carriage paid. Terms and Conditions apply.

WHY CHOOSE IAE INDUSTRIAL?



WARRANTY

We are so confident in the service life of our products that we sell our industrial products with a 10 year warranty, covering any material defects in the design, material or workmanship of our products. This includes products which feature: mild steel construction, Hot Dip Galvanized substrate and polyester powder coat topcoat of 60 microns.

Terms & Conditions Apply.

MANUFACTURING CAPABILITIES

Our manufacturing capabilities are tailored to combine automated and bespoke product manufacture. This allows us to deliver stock products at a competitive price, as well as offer our bespoke service where we can manufacture to yours, or your customers unique requirements.

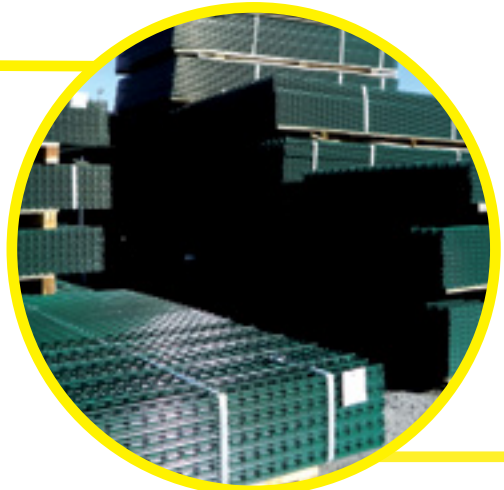


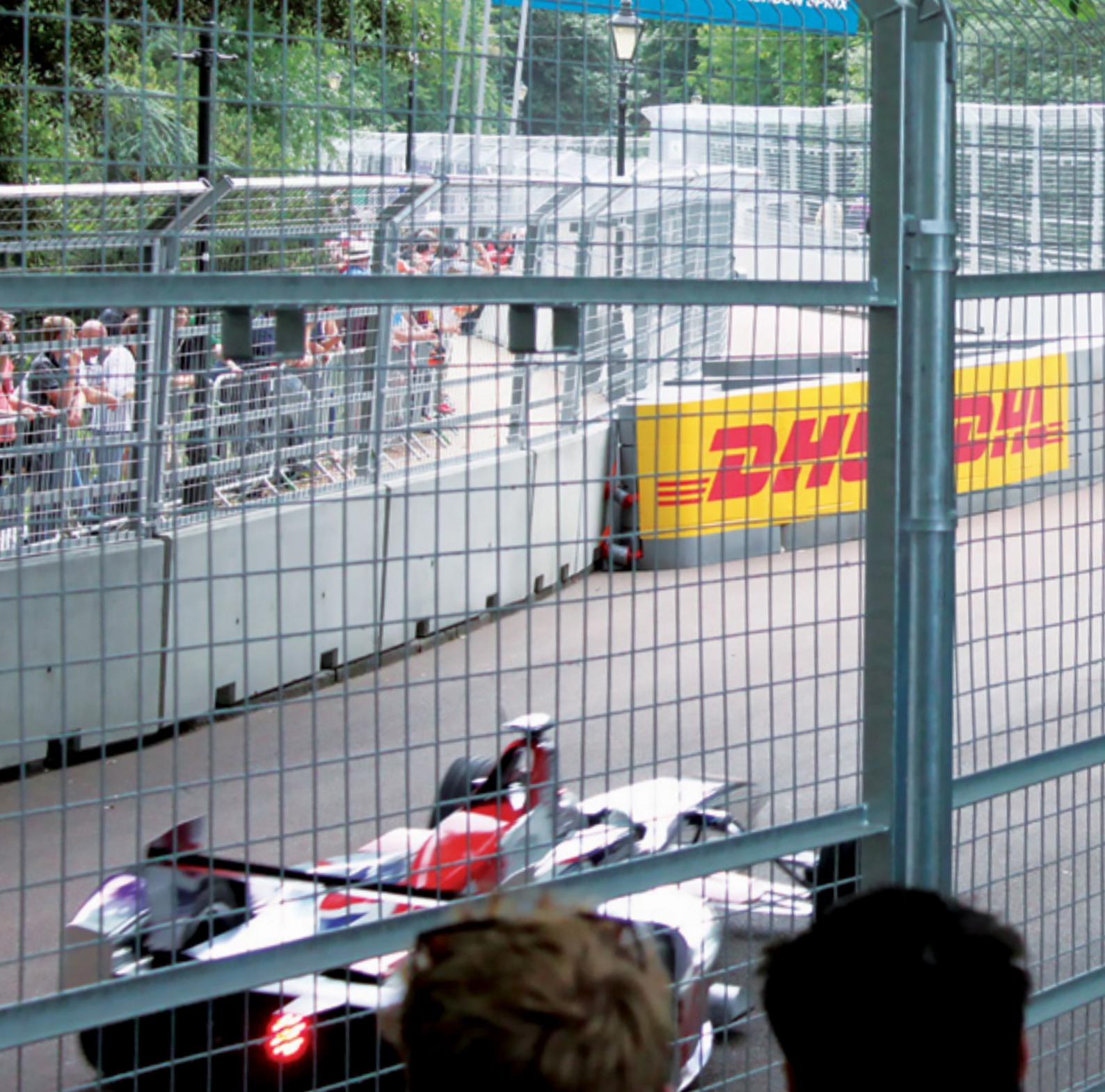
NEXT DAY COLLECTION

We know how time sensitive projects can be, which is why we offer next day collection on any stock product you purchase from us. In conjunction with this, we offer a free delivery service* within 50 miles of IAE, with a small rate charge applied beyond this distance. **Terms and Conditions apply.*

STOCK

To meet the needs of our customers, we hold £13 million of stock every day, enabling us to get your products to you on the quickest turn around. A whole range of products are held in stock here at our Head Quarters in Stoke-on-Trent, including Mesh Fencing, Railings, Industrial Fit Out Equipment and much more.





Since launching the industrial division in 1992, Perimeter Solutions have always been a key focus point for IAE. Today we are able to offer our customers a comprehensive range of products, designed to combine functionality and security with choice and aesthetics.

Most recently we have introduced a range of Security Rated products to our product portfolio, as we continue to meet the ever evolving needs of our customers and the industry.



PERIMETER SOLUTIONS

Perimeter Fencing

Perimeter Barriers & Gates

Perimeter Mesh Systems

Perimeter Screens

What is Security Rated fencing?

Security Rated fencing is a perimeter or boundary solution which has been tested to meet the standard of the LPS 1175 Certification. Introduced by the Loss Prevention Certification Board (LPCB), the LPS 1175 Certification has been designed in conjunction with UK government security agencies, police services, architects and risk consultants to determine the standards for fire and security products. As part of this, the LPCB independently tests and certifies fencing systems to this standard.

Why choose Security Rated fencing?

LPS 1175 Security Rated fencing is an excellent choice for defining the boundary of commercial properties where there is a risk of intrusion or requirements for certification. To achieve certification, the fencing systems must demonstrate the ability to prevent an intruder from gaining access through the fence using a given selection of tools in a defined time period.

There are various options of Security Rated fencing available, depending upon the level of security the end user requires. At IAE, we currently offer SR1 (A1), SR2 (B3) and SR3 (C5) fencing systems, which aim to offer a complete solution.

Duex-XS SR1



Key Features:

- 6mm vertical wires sandwiched between twin 8mm horizontal wires achieve uncompromising strength
- The profile forms a 200mm x 50mm aperture between wires, offering excellent visibility
- Supported by 60mm SHS posts
- Security Rated stainless steel fixings achieve the SR1 standard (A1)

FENCE SPECIFICATIONS

Panel Height (mm)	1830, 2030, 2430, 3030	Panel Width (mm)	2506
Wire Dia (mm)	6 verticals & twin 8 horizontals	Post Size (mm)	Up to 2440 high 60 x 60 SHS (3030+ 80 x 40 RHS)
Aperture Size (mm)	200 x 50	Post Centres (mm)	2525



Fortex-XS SR1



Key Features:

- Constructed from a dense configuration of 4mm wires which naturally deny potential foot or finger holds
- The profile forms a 12.7mm x 76.2mm aperture between wires, reducing the level of visibility between panels
- Supported by 60mm SHS posts
- Security Rated stainless steel fixings achieve the SR1 standard (A1)

FENCE SPECIFICATIONS

Panel Height (mm)	1800, 2000, 2135, 2440*, 2700, 3000*, 3300, 4200, 5200	Panel Width (mm)	2515
Wire Dia (mm)	4 verticals & 4 horizontals	Post Size (mm)	Up to 2440 high 60 x 60 SHS (3000+ 80 x 40 RHS)
Aperture Size (mm)	76.2 x 12.7	Post Centres (mm)	2440



*Sizes held in stock

Diamex-XS SR1



Key Features:

- Manufactured from 25mm SHS verticals at a maximum spacing of 100mm to deter intruders
- Available with 5 different top finishes to create a desired aesthetic which is suited to the location
- Supported by heavy duty 102mm x 44mm RSJ posts
- Security Rated stainless steel fixings achieve the SR1 standard (A1)

FENCE SPECIFICATIONS

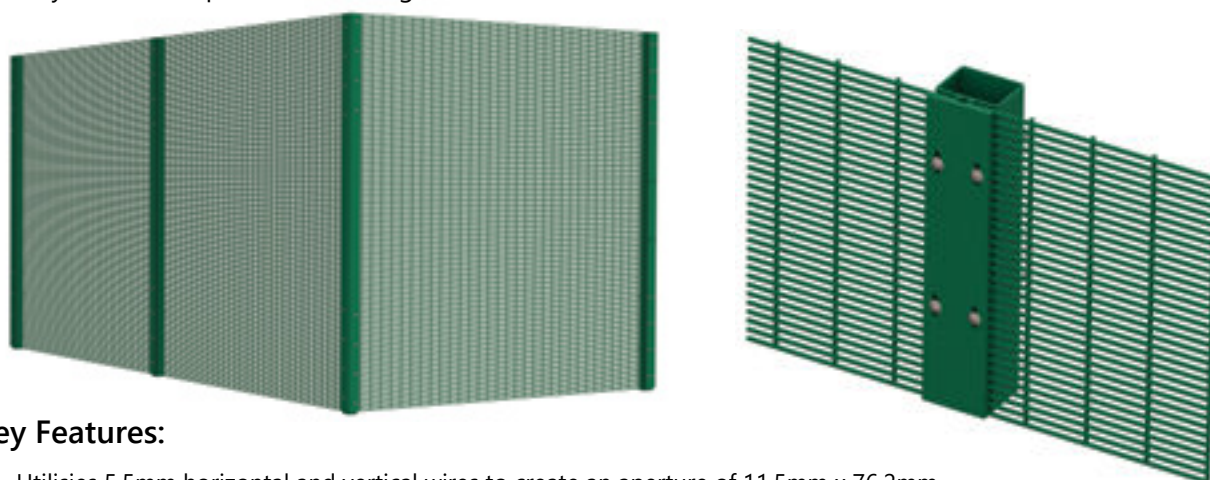
Height (mm)	1800, 2000, 2400, 3000
Verticals	25 SHS
Bar Centres	127
Post Size (mm)	102 x 44 RSJ
Post Centres (mm)	2750



SR2 (B3)

SecuRex 2

New to the market, our SecuRex 2 mesh fencing panel offers a lightweight, yet maximum security solution to perimeter fencing. Using just a single panel, it is easy to manoeuvre and install on site, and with 20 M6 fixings per post, the chances of intrusion are hugely mitigated. Our SecuRex 2 mesh fencing really is the cost effective, high security solution to perimeter fencing.



Key Features:

- Utilises 5.5mm horizontal and vertical wires to create an aperture of 11.5mm x 76.2mm
- Single panel weight: 115kg

Supported by

- Approximately 20 M6 Stainless Steel Cup Square full thread bolts, combined with a stainless steel washer and stainless steel permacone nut secure the panel to the post via the use of a lace strap
- Variable internal angle corner enables full system security on even the most awkward of shaped perimeter boundaries

FENCE SPECIFICATIONS

Panel Height (mm)	2433	Panel Width (mm)	2520
Wire Dia (mm)	5.5 verticals & 5.5 horizontal	Post Size (mm)	RHS 80 x 60 x 3
Aperture Size (mm)	11.5 x 12.7	Post Centres (mm)	Min. 500, Max. 2440

Where a traditional, long-lasting, solid boundary fence is required, our Vertical Bar Railings are the perfect solution. Each panel of Vertical Bar is 2720mm in length and can be anywhere between 600mm and 3000mm high.

The railings are supplied as standard using square hollow section or rolled steel joist posts with angle cleats and security fixings. The bar size increases with the height of the fence to comply with BS 1722 Pt. 9.

To add individuality to the railings, the bars can be spiked, turreted or cranked before being finished with a finial of your choice to create further enhancement. Bespoke options are available, contact us to discuss further.

Bar Options

Ball Top

Each vertical is topped with a welded steel ball for individuality



Cranked Top

Each vertical is formed on a dog leg topped with a spike.



Spiked Top

Each vertical is topped by a spike to deter climbing.



Blunt Top

Our entry level vertical bar railing



Finial Options














Biggin
Birchall
Butterton
Carlton
Churnet
Draycott
Froghall
Hawksworth
Ramshaw
Roston
Wetley
Whiston

Key Features:

- Compliant with BS 1722 Pt. 9
- Security fixings
- Stepping cleats
- Welded construction
- Hot Dip Galvanized to BS EN ISO 1461
- Polyester Powder Coating (optional)
- Various designs available

Suitable for:

- Parks and public spaces
- Retail complexes
- Commercial complexes and retail outlets
- Residential properties and housing estates



SPECIFICATIONS			
Height (mm)	Up to 3000 (1800 held in stock)	Post Size (mm)	Up to 1200 high: 50 x 50 SHS at 2800 spacing Over 1600: 102 x 44 RSJ at 2750mm spacing
Bar Dia. (mm)	12, 16, or 20 according to height		
Bar Centres (mm)	112 for 12 & 16 bar, 120 for 22 bar	Post Centres (mm)	50 x 50 SHS 2800, 102 x 44 RSJ 2750
Panel Width (mm)	2720		



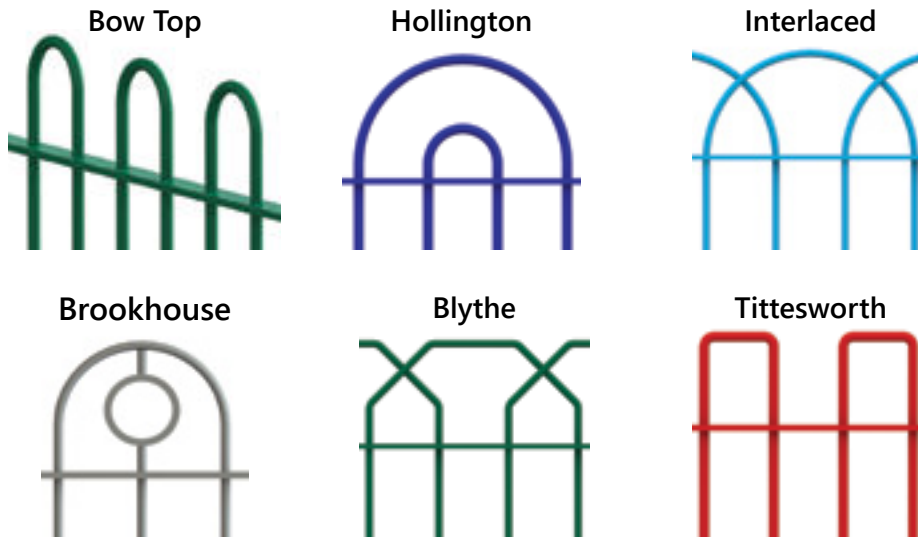
Vertical Bar Specification Guidelines (BS 1722 Pt. 9)



We aim to provide one of the most comprehensive ranges of Bow Top Fencing on the market. From cost effective to elaborate solutions, we have a style of Bow Top that will suit each individual requirement.

We carry excellent stocks of standard panels that vary in heights from 1000mm to 1800mm, but where a bespoke design is required we are able to manufacture a range of designs to any height up to 2400mm.

Bow Top Options



Key Features:

- Compliant with BS 1722 Pt. 9
- Security fixings
- Stepping cleats
- Welded construction
- Hot Dip Galvanized to BS EN ISO 1461
- Polyester Powder Coating (optional)
- Various designs available

Suitable for:

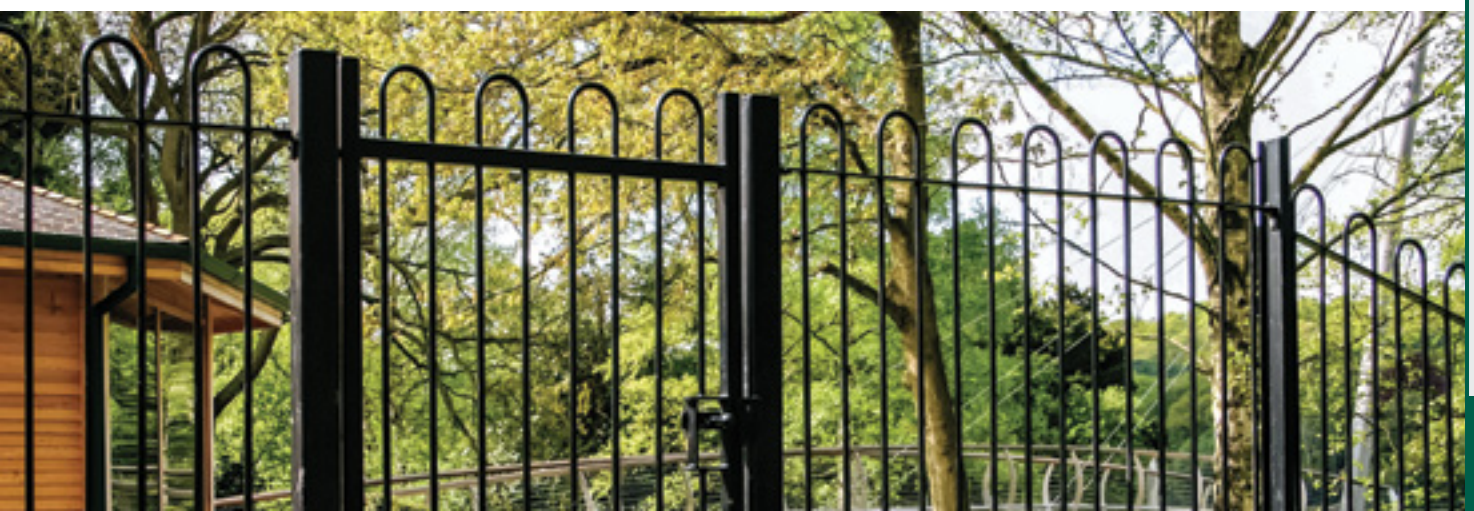
- Parks and public spaces
- Playgrounds and recreational areas
- Schools, Colleges & Universities
- Residential properties and housing estates
- Tourist resorts and hotels
- Historical sites and heritage locations
- Retail complexes

SPECIFICATIONS

Height (mm)	Up to 2400 (1000, 1200 & 1800 held in stock)
Bar Dia. (mm)	12, 16 or 20 according to height
Bar Centres (mm)	112 for 12 & 16 bars, 120 for 20 bar
Panel Width (mm)	2720
Post Size (mm)	Up to 1200 high: 50 x 50 SHS at 2800 spacing Over 1600: 102 x 44 RSJ at 2750mm spacing
Post Centres (mm)	50 x 50 SHS 2800, 102 x 44 RSJ 2750



Bow Top Specification Guidelines (BS 1722 Pt. 9)



Our Roundex® railing system creates a strong and durable boundary fence which is cost effective at the same time. To create the design, each panel is manufactured using 25mm circular hollow section verticals, set at a maximum spacing of 100mm and welded to mild steel horizontal rails which affix to RSJ support posts.

The Roundex® panel is well suited to locations where height is paramount, as it is available in a selection of heights from 1800mm to 3000mm. To overcome uneven ground, angle cleats are supplied as standard and the inclusion of permacone fixings gives added security.

Available with six different top finishes:

Angle Top: each bar is cut at 45 degrees across the top to create the illusion of a spike and therefore act as a deterrent to intruders

Blunt Top: the vertical bar is cut square at the top leaving a simple yet effective finish

Dart Top: features a pressed steel spear at the top of each vertical, adding character and security

Deterrent Top: includes cranked bars and posts giving the fence line an intimidating feel to the intruder

Elite Top: uses a forged finial at the top of the vertical to create a more attractive finish

Prestige Top: uses the forged finial as per the Elite style, but also features SHS posts complete with a finial for added character

Blunt Top



Angle Top



Elite Top



Key Features:

- Security Fixings
- Stepping Cleats
- Welded Construction
- Hot Dip Galvanized to BS EN ISO 1461
- Polyester Powder Coated option

Suitable for:

- Playgrounds, parks and recreational areas
- Schools, Colleges and Universities
- Commercial complexes and retail outlets
- Residential properties and housing estates
- Public plazas and squares

SPECIFICATIONS

Height (mm)	1800, 2000, 2400, 3000
Verticals	25 x 2 CHS
Bar Centres	122
Post Size (mm)	102 x 44 RSJ
Post Centres (mm)	2750



Diamex® Railings provide a strong and aesthetically pleasing perimeter fence, which combined with efficient manufacturing processes ensures that Diamex® Fencing is durable and affordable. Each panel is manufactured from 25mm square hollow section verticals set at a maximum spacing of 100mm, which are welded to heavy duty horizontal rails and are supported by rolled steel joist posts.

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

Available with six different top finishes:

Angle Top: each bar is cut at 45 degrees across the top to create the illusion of a spike and therefore act as a deterrent to intruders

Blunt Top: the vertical bar is cut square at the top leaving a simple yet effective finish

Dart Top: features a pressed steel spear at the top of each vertical, adding character and security

Deterrent Top: includes cranked bars and posts giving the fence line an intimidating feel to the intruder

Elite Top: uses a forged finial at the top of the vertical to create a more attractive finish

Prestige Top: uses the forged finial as per the Elite style, but also features SHS posts complete with a finial for added character

Dart Top



Deterrent Top



Prestige Top



Key Features:

- Available from Stock
- Security Fixings
- Stepping Cleats
- Welded Construction
- Hot Dip Galvanized to BS EN ISO 1461
- Polyester Powder Coated (optional)

Suitable for:

- Playgrounds, parks and recreational areas
- Schools, Colleges and Universities
- Commercial complexes and retail outlets
- Residential properties and housing estates
- Hospitals and medical centres

SPECIFICATIONS

Height (mm)	1800, 2000, 2400, 3000
Verticals	25 x 2 SHS
Bar Centres	127
Post Size (mm)	102 x 44 RSJ
Post Centres (mm)	2750

Other sizes
available on request.



An LPS 1175 Security Rated level 1 version of this product is available. Please see pages 8-9 for more information.



IAE Estate Fencing Range

Sterndale Continuous Bar is supplied loose in 5000mm lengths with wedges for fixing. Feature 76mm diameter end and corner posts are also available from stock.

Moorland Continuous Bar is also supplied loose in 5000mm lengths but with intermediate and joiner posts curved over at the top.

Dovedale Hurdle is similar to Sterndale in appearance but supplied as a 2000mm welded panel. Due to its welded construction, the Dovedale Hurdle is the only estate fencing that can be powder coated.

Key Features:

- Manufactured in accordance with BS 1722 Pt. 8
- Hot Dip Galvanized to BS EN ISO 1461
- Available in "kit form" or welded panels

Suitable for:

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



Sterndale



Moorland



Dovedale



Our most popular estate fencing

Standard IAE designs come with a choice of ground fixings:

Devils Claw



Thrust Plate
(concrete set)



Our most popular estate fixing

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.



Longnor Tree Guard pictured

Bespoke Railings and Gates are a brilliant way to combine security with your own unique vision, whilst also bringing character and elegance to your project.

Our comprehensive design service allows us to turn your ideas and concepts into a reality, meaning that we can design and manufacture to your individual requirements and create a totally bespoke fence line that will deliver on both budget and aesthetics at the same time.

Pictured here are just a few examples of Bespoke Railings and Gates that we have brought to life over our last 30 plus years of trading, please do not hesitate to contact us on +44 (0)1782 339320 if you would like to discuss your bespoke project further.

Features:

- Standard and Bespoke Design available
- Security fixings
- Stepping cleats
- Hot Dip Galvanized to BS EN ISO 1461
- Polyester Powder Coating (optional)

Suitable for:

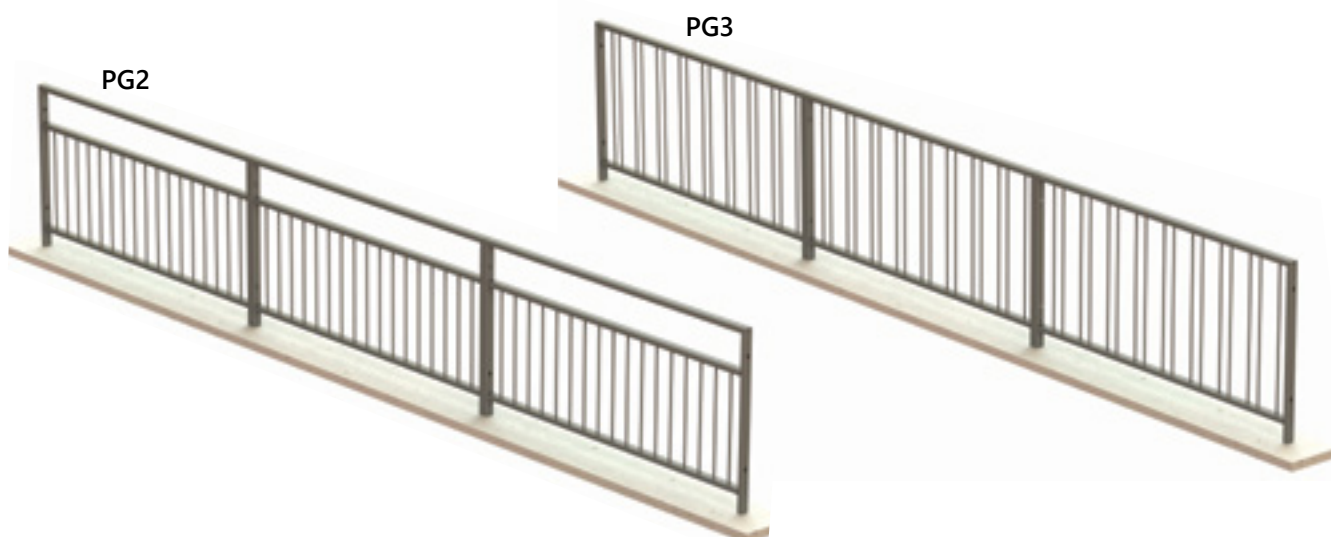
- Playgrounds, parks and recreational areas
- Residential properties and housing estates
- Public plazas and squares
- Churches, crematoriums and cemeteries



Pedestrian Guardrails are suitable for use in any situation where vehicular and pedestrian traffic meet. This can include around car parks, alongside roads and in schools to contain pedestrian activity.

Standard panels are 2000mm long and are manufactured in compliance with BS7818, with either 12mm or 16mm, staggered or straight infills.

Non-standard length, raked or curved panels can also be manufactured to suit special requirements.



PG1 & 2 have uniform infills



PG3 & 4 have staggered infills

Key Features:

- PG1 & PG2 available from stock
- BS 7818 compliant
- Hot Dip Galvanized to BS EN ISO 1461
- Polyester Powder Coating (optional)
- Base plated option available

Suitable for:

- Controlling pedestrian flow along roadsides and junctions
- Residential properties and housing estates
- Public plazas and squares
- School car parks

SPECIFICATIONS

	PG1	PG2	PG3	PG4
Infills	Straight	Straight	Staggered	Staggered
Visibility Gap	No	Yes	No	Yes

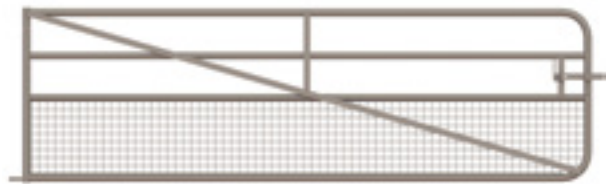


Department of Transport Gates

IAE manufacture the full range of DOT gates to the highways specification details H17, H18, H19 and H20. All of our DOT gates are supplied with a hang and slam post.



H17 - 6 Rail



H18 - Half Mesh Gate



H19 - 6 Rail



H20 - 6 Rail

NB: The H20 can only be purchased as a pair

Key Features:

- Made to the Highways Specification details H17, H18, H19 and H20
- Hot Dip Galvanized to BS EN ISO 1461
- Can be used in conjunction with 114mm or 139mm round posts
- H33 Hold back post also available



Barriers

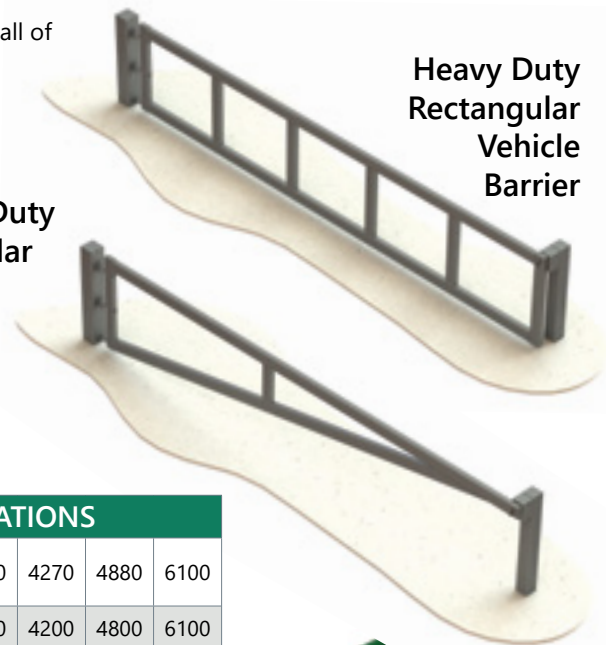
Our range of barriers are designed to restrict vehicular access where required.

Constructed from heavy duty Hot Dip Galvanized box section steel, all of our barriers are designed to withstand the test of time.

Height Restrictor



Heavy Duty
Triangular
Vehicle
Barrier



Heavy Duty
Rectangular
Vehicle
Barrier

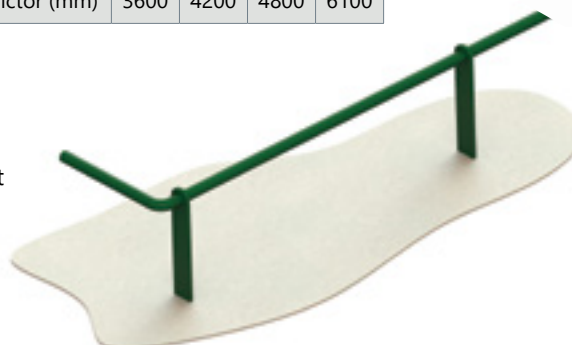
GATE-LEAF SPECIFICATIONS

HD Rectangular & HD Triangular (mm)	3660	4270	4880	6100
Height Restrictor (mm)	3600	4200	4800	6100

Knee Rail

Key Features:

- An unobtrusive and cost effective way to prevent vehicle access and discourage pedestrian access
- Typical height: 400mm to 500mm
- Available in a variety of designs
- Hot Dip Galvanized to BS EN ISO 1461
- Polyester Powder Coated (optional)



Our Universal Any Hand Gates are designed to maximise versatility and deliver a quick solution to creating an access point in your fence line.

Available from stock in a core range of heights and widths clad in Vmex® V3 or Zebex®. Bespoke gates are also available on a four week lead time.



Key Features:

- Available in three standard heights and two leaf lengths from stock
- Can be purchased as single leaf or double leaf gates
- Mix and match the various lengths to create your desired total length
- Supplied with British Standard compliant posts
- Suitable for front, back and centre hanging
- Supplied in kit form with all fixtures and fittings for self-assembly on site
- Polyester Powder Coated

GATE SPECIFICATIONS

Gate Height (mm)	1800, 2000, 2400
Leaf Length (mm)	1177, 2077
Post Options (mm)	80 SHS x 2500, 2800 or 3300 long 100 SHS x 2500 or 2800 long 120 SHS x 3300 long



IAE Vmex® V3 is our most cost effective perimeter mesh fence system.

IAE Vmex® V3 is designed to be unobtrusive whilst still offering a good level of security. The weld mesh panels with horizontal profiles are manufactured from 5mm (nom.) horizontal and 4mm (nom.) vertical wires to give 195 x 50mm maximum wire centre spacing.

Available in a range of heights from 1200 to 3000mm, Vmex® V3 is suitable for a whole host of perimeter applications.

The panels are fixed to 60 x 60 SHS posts with steel clips that include threaded inserts.



Key Features:

- Available from stock
- Compliant to BS 1722 Pt. 14
- Security fixings
- Cost effective perimeter solution
- Unobtrusive design
- Option of base plated post
- Suitable for many applications
- Polyester Powder Coated

Suitable for:

- Schools, Colleges & Universities
- Commercial premises and retail outlets
- Industrial estates and units
- Hospitals and medical centres
- Working sites



FENCE SPECIFICATIONS			
Panel Height (mm)	1800, 2000, 2400	Panel Width (mm)	3005 (1200 – 2400 high), 2805 (3000 high)
Wire Dia (mm)	4 verticals, 5 horizontals (nominal)	Post Size (mm)	60 x 60 SHS
Aperture Size (mm)	195 x 50	Post Centres (mm)	3030 (1200 – 2400 high), 2830 (3000 high)



Other sizes available on a made to order basis

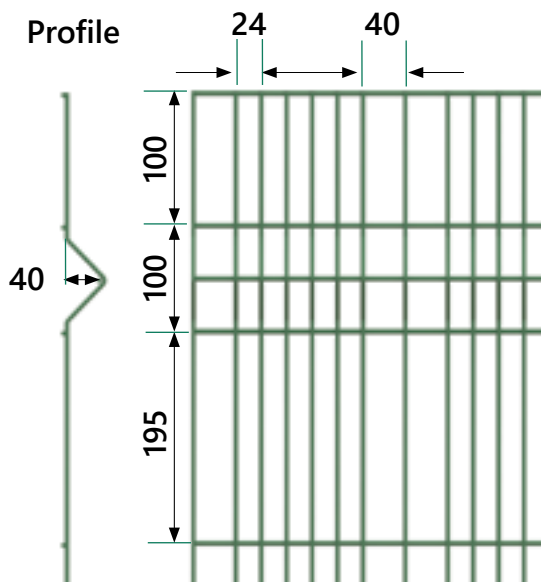
If you require gates to compliment your fence line, please refer to page 18 for our Universal Any Hand Gates.



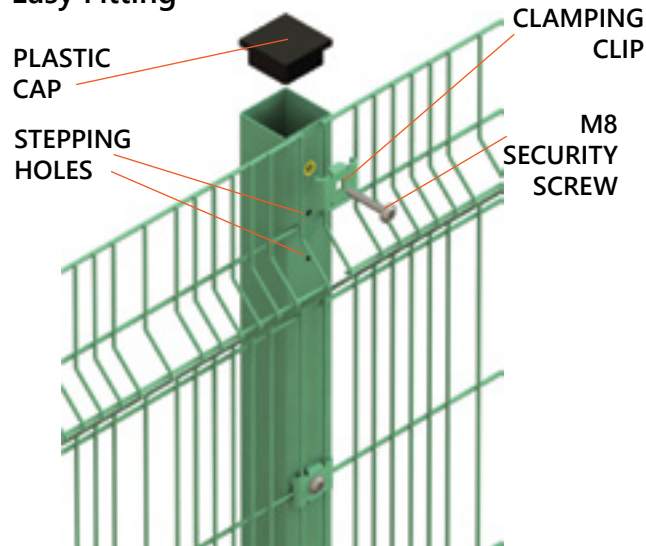
Zebex® is a strong, stylish perimeter solution, which combines aesthetic appeal with anti-climb properties and security.

Each panel is constructed from 6mm horizontal wires and 4mm vertical wires to form narrow apertures of between 22mm and 40mm wide. This aims to reduce the risk of both climbing and cutting.

Three pressed V shaped beams provide rigidity to each panel, whilst acting as a deterrent to climbing. Each panel is supported by 60mm SHS steel posts which are supplied with steel fixing clips and M8 security screws.



Easy Fitting



Key Features:

- Available from stock
- Compliant to BS 1722 Pt. 14
- Security fixings
- Anti-climb V profile
- Option of base plated post
- Suitable for many applications
- Polyester Powder Coated

Suitable for:

- Distribution centres
- Schools, Colleges & Universities
- Commercial complexes and retail outlets
- Industrial estates and units
- Hospitals and medical centres

FENCE SPECIFICATIONS

Panel Height (mm)	1800, 2000 & 2400
Wire Dia (mm)	4 verticals & 6 horizontals
Aperture Size (mm)	195 x 40/ 195 x 25
Panel Width (mm)	3005
Post Size (mm)	60 x 60 SHS
Post Centres (mm)	3030

Other sizes available on a made to order basis

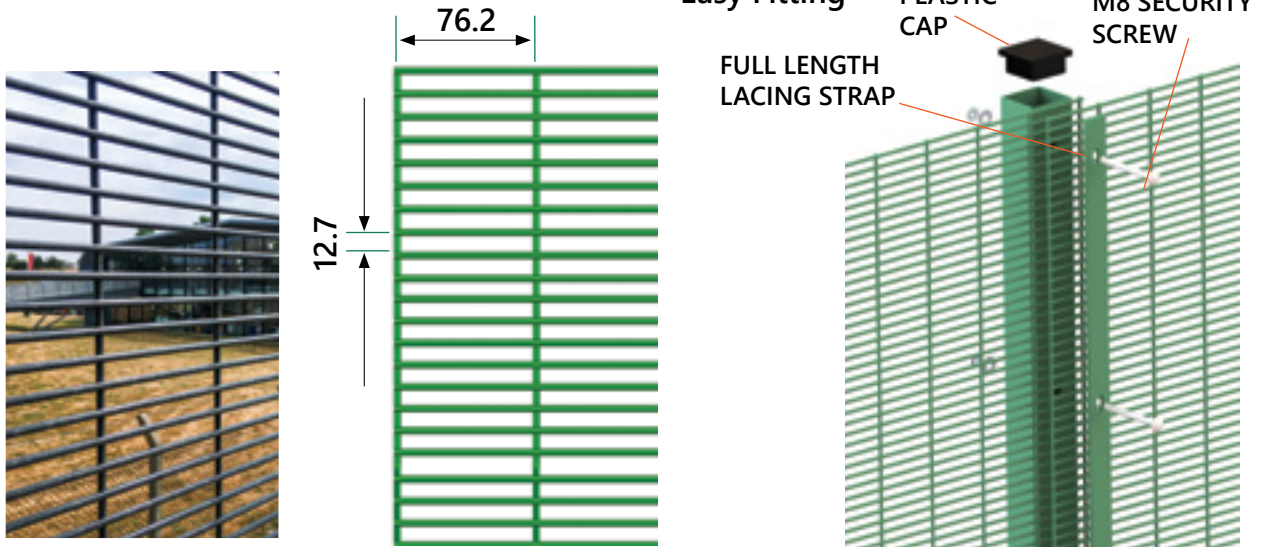
If you require gates to compliment your fence line, please refer to page 18 for our Universal Any Hand Gates.



Secure your premises with our Fortex® 358 Prison Mesh which has been designed with security conscious applications at the forefront to make scaling the mesh panel extremely difficult.

Each panel is constructed from a dense configuration of 4mm wires which deny any potential foot or finger holds but continue to allow excellent visibility through the fence line.

Panels are overlapped at each post and secured by a full length clamp bar, dome headed bolts & permacone security nuts.



Key Features:

- Available from stock
- Compliant to BS 1722 Pt. 14
- M8 Security fixings
- Anti-climb
- Suitable for many applications
- Polyester Powder Coated

Suitable for:

- Detention centres and police stations
- Secure Units
- M.O.D. and military bases
- Utility installations



FENCE SPECIFICATIONS	
Panel Height (mm)	2000*, 2440*, 3000*
Wire Dia (mm)	4 verticals & 6 horizontals
Aperture Size (mm)	76.2 x 12.7
Panel Width (mm)	2515
Post Size (mm)	Up to 2440 high 60 x 60 SHS (3000 – 80 x 60 RHS)
Post Centres (mm)	2440

*Sizes held in stock



An LPS 1175 Security Rated level 1 version of this product is available. Please see pages 8-9 for more information.

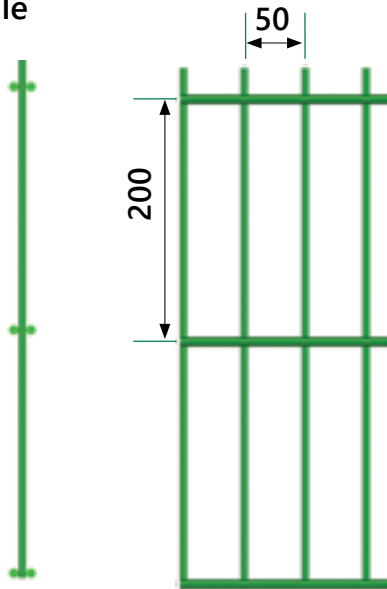


Traditionally, Duex® twin wire mesh is utilised mainly in a sports environment, however its rigid construction makes it equally suitable for perimeter protection and demarcation.

Available in two profiles (868 and 656), the strength in each panel is achieved by sandwiching a vertical wire between rows of twin horizontal wires spaced at 200mm intervals.

Duex® panels are supported by 60mm SHS posts, which are supplied with fixing clips or a clamp bar (depending upon the application) and M8 security screws.

Profile



Easy Fitting

PLASTIC CAP

STEPPING HOLES

CLAMPING CLIP

M8 SECURITY SCREW



Key Features:

- A selection of panels available from stock
- Compliant to BS 1722 Pt. 14
- Rigid double wire design
- M8 Security fixings
- Base-plated post option
- Polyester Powder Coated
- Bespoke gates can be made on request

Suitable for:

- Schools, Colleges & Universities
- Commercial complexes and retail outlets
- Industrial estates and units
- Theme parks



FENCE SPECIFICATIONS

Panel Height (mm)	1200, 1800, 2000, 2400, 3030	Panel Width (mm)	2506
Wire Dia (mm)	6 verticals & twin 8 horizontals	Post Size (mm)	60 x 60 SHS
Aperture Size (mm)	200 x 50	Post Centres (mm)	2520



An LPS 1175 Security Rated level 1 version of this product is available. Please see pages 8-9 for more information.

Clamp Bar System



Perimeter Clip System



Manufactured from high quality steel, Palisade fencing is one of the most popular forms of security fencing as it acts as a high level deterrent around premises and sites. As standard, all of our Palisades are 2400mm high and 2750mm long, with a standard spacing of 155mm between individual pales. Each panel is supplied in kit form for assembly on site.

Palisade Gates are also available: Double Leaf Gates to suit openings of 4000mm, 6000mm and 7000mm openings and Single Leaf Gate to suit a 1200mm opening.

All of our Palisade fencing is Hot Dip Galvanized to BS EN ISO 1461 and can be Polyester Powder Coated to the customers choice of colour at an additional cost.



Tri Point



Each Pale is topped by 3 pointed spikes to maximise the security offering

Our most popular finish

Single Point



For simplicity, each pale is formed to a single point

Rounded & Notched



Each pale is notched twice at the top to reduce climbing ability

Suitable for:

- Construction and development sites
- Commercial complexes and retail outlets
- Parks and public spaces



FENCE SPECIFICATIONS

Panel Height (mm)	2400
Panel Width (mm)	2750



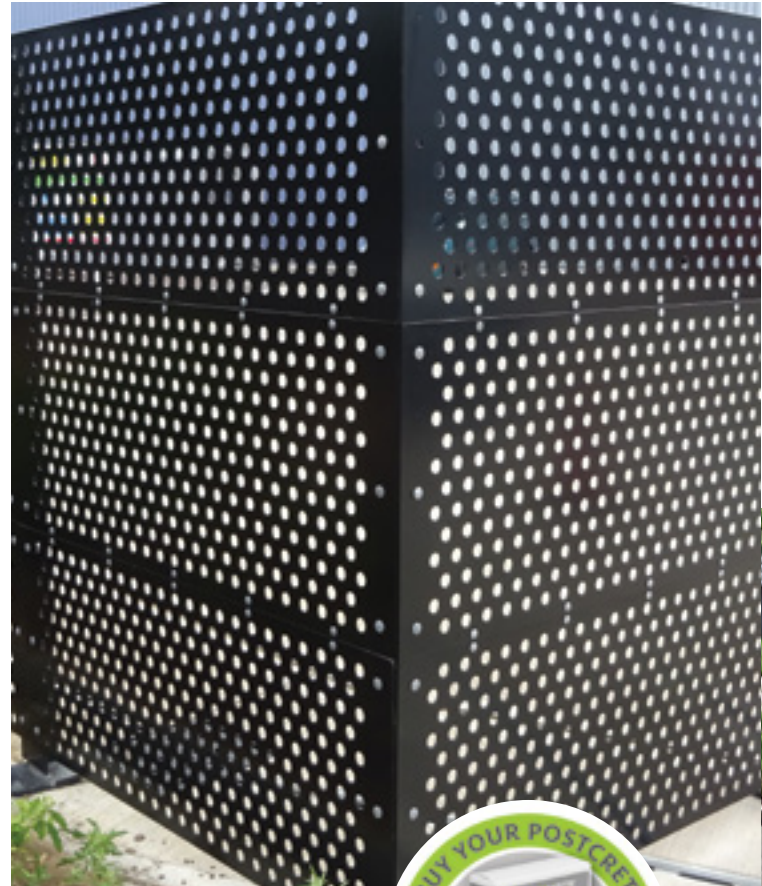
Perforated Screening

Our architectural screening is manufactured from steel sheets that we perforate with a pattern of holes using our in-house laser cutter. Perforated screening is an excellent way to mitigate wind flow, whilst creating a boundary that is aesthetically pleasing.

To create a solution that meets your requirements, we can design a profile completely unique to you, meaning the holes can be of different shapes and sizes within the screen.

Key Features:

- Available in a variety of styles and sizes
- Capabilities to manufacture bespoke designs
- Hot Dip Galvanized to BS EN ISO 1461 for longevity
- Polyester Powder Coated to a colour of your choice



RCP Screen

Create a concealed and secure compound using our RCP screening. Custom height panels, are supplied in kit form for assembly on site.

Key Features:

- Recycled plastic vertical pales combined with Hot Dip Galvanized steel frame give the product longevity
- Inherent structural strength and maintenance free
- Steel work can be Polyester Powder Coated at an additional cost
- Can be supplied with matching access gates



Louvex®

Create a modern and stylish perimeter screening with our Louvre panels, designed to maximise privacy and security in an architecturally elegant way.

Key Features:

- Available with two visibility levels: 80% and 100% screening
- Hot Dip Galvanized to BS EN ISO 1461 for longevity
- Mild steel, forge welded at every intersection
- Polyester Powder Coated to a colour of your choice



Acoustic Barrier

Our Acoustic Barriers provide a noise reduction sound proof fencing system, helping to also offer privacy to a range of applications.

Key Features:

- Quicker to install than timber
- Design life of 40 years
- Fire rated class 3
- Consistent acoustic performance
- Highly durable
- UV stabilised

Suitable for:

- Acoustic noise barriers
- General screening
- Bin stores



A photograph of a blue and green playground structure. The blue panel on the left features the text 'Stoneferry Primary School', 'Primary Spaces', 'Improving outdoor PE and sport facilities', and logos for the UK Lottery and Sport England. The green panel on the right has a large target with yellow, purple, and red concentric circles, a yellow oval, and a smaller target at the bottom. A red fence is visible in the background.

**Stoneferry Primary
School**

Primary Spaces

**Improving outdoor
PE and sport facilities**



**SPORT
ENGLAND**

LOTTERY FUNDED

Create an environment that facilitates fun yet safe sports and activities using any of the products in our Sports & Play Range.

Whether you require a Multi Use Games Area, sports courts or a safe perimeter solution for a playground, we can tailor our products and create a solution designed to meet every user's needs.



SPORTS & PLAY

Duex® Sports 868 Rebound

Duex® Spectator Rail & Team Shelter

Multi Use Games Areas & Accessories

Playspec® & Prosafe®

Our Duex® Sports 868 Rebound mesh is frequently supplied to sports projects and facilities across the UK, and more recently around the world.

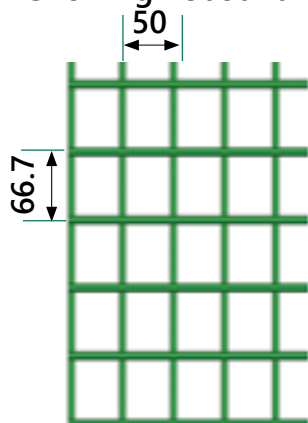
The rigid twin 8mm wire design has additional horizontal wires in the bottom 1200mm of the panel to create a strong and robust rebound surface that is capable of withstanding high impact sports such as hockey, football or tennis.

The Duex® Sports 868 Rebound lends itself particularly well to forming the perimeter boundary of school playgrounds, astro turf pitches, sports pitches and community sports facilities.

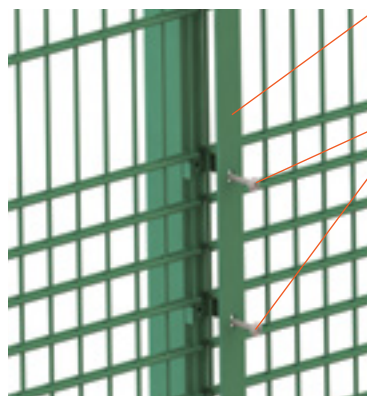
Profile



Showing Rebound Grid



Easy Fitting



FULL LENGTH LACING STRAP

M8 SECURITY SCREWS

Key Features:

- Available from stock
- Available in standard 868
- Available with netting extension and kick boards
- Full height rebound panels available with additional horizontal wires
- Compliant to BS 1722 Pt. 14
- Designed for ball rebound
- M8 Security fixings
- Polyester Powder Coated

Suitable for:

- Tennis, hockey and football clubs
- Schools, Colleges & Universities
- Leisure centres and sports complexes
- Sports pitch environments



Matching gates available from stock



SPECIFICATIONS

Panel Height (mm)	2008, 3030, 4070, 4470, 5070				
Wire Dia (mm)	6 verticals & twin 8 horizontals				
Aperture Size (mm)	50 x 66, 200 x 50				
Panel Width (mm)	2506				
Post Centres (mm)	2525				
Fence Height (mm)	2000	3000	4000*	4500*	5000*
Post size	60 x 60 RHS	80 x 40 RHS	100 x 50 RHS	100 x 50 RHS	120 x 60 RHS

* Indicates double lift system



Duex® Spectator Rail

Our Duex® Spectator Rail is designed to enhance safety for both spectators and players.

The rail creates an appropriate barrier between the crowd and the pitch/court using rebound mesh that is capped with a plastic sleeve to remove any sharp edges protruding from the mesh panel.

Sitting at 1200mm tall, the handrail facilitates a comfortable leaning environment for the spectators and the mesh panel below will ensure the ball is rebounded to a height of 1000mm.

Key Features:

- Available from stock
- Choose from Duex® mesh panel standard or rebound
- Designed for ball rebound
- M8 security fixings
- Polyester Powder Coated

Suitable for:

- Rugby, hockey and football pitches
- Schools, Colleges and Universities

Safe-2-View

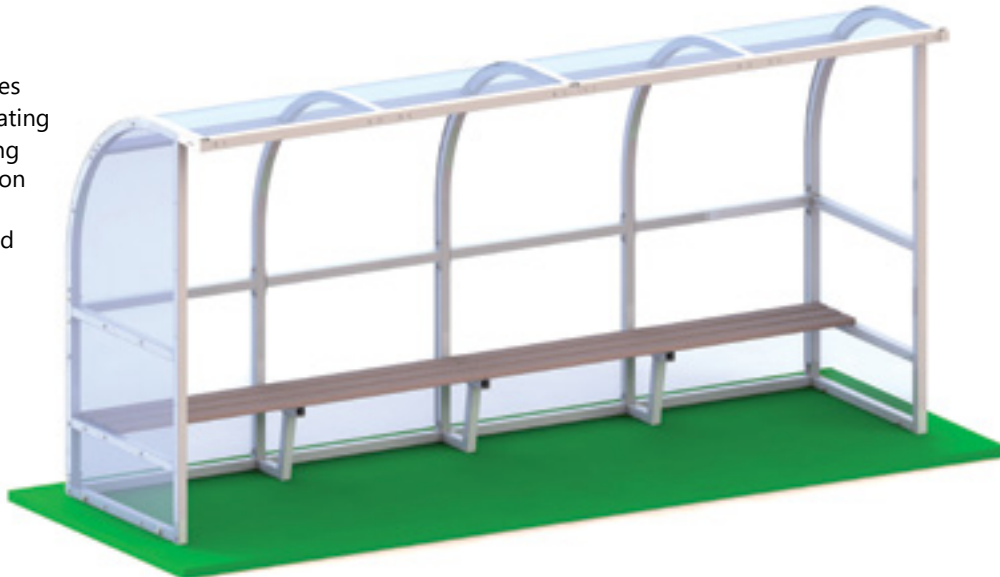


Team Shelter

Protect your sports team from the weather on match days using our Sports Team Shelter. Constructed from a heavy duty Hot Dip Galvanized frame and clad with a 4mm UV PETG Perspex, our sports shelter is supplied at either 2000, 4000 or 6000mm long. To create a comfortable dugout environment, seating can be supplied as either a recycled plastic bench or plastic bucket seats.

Key Features:

- Available in multiple sizes
- Choose your style of seating
- A variety of ground fixing available depending upon the application
- Polyester Powder Coated
- Standard and bespoke designs available



Enhance your Duex® 868 Sports Mesh by incorporating some or all of our sports options to create a **Multi Use Games Area**.

Each of our optional extras has been designed to be robust and durable, allowing you to create a facility that has multifunctionality and all of your requirements.

Key Features:

- A wide range of additional options
- Heavy duty construction
- Polyester Powder Coated

Suitable for:

- Schools
- Community sports facilities
- Leisure centres and sports complexes
- Public spaces and parks



Goal Ends



Junior Ballcourt System



Cricket Wickets



Basketball Hoops/Posts



Duex® with Rebound Board



Tennis Nets



Trainer Goal End



Chicane



Striker Goal End



**Grid Ball
Courts also
available**

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 1000 or 1200mm, with a 12mm or 16mm diameter infill. Posts are 50 x 50 box section, set at 2800mm centres. Special panels manufactured in a non-standard length, curved or raked can also be produced to suit individual requirements. To compliment Playspec® fencing, we also offer Prosafe® gates with the added safety of a hydraulic soft self-closer if required.

Bow Top



Flat Top



Key Features:

- Standard heights of bow top Playspec® available from stock
- Flat top Playspec® available on request
- Compliant with BS EN 1176
- Security fixings
- Stepping cleats
- Hot Dip Galvanized to BS EN ISO 1461
- Polyester Powder Coating
- Reduced height bow to comply with neck trap regulations

Suitable for:

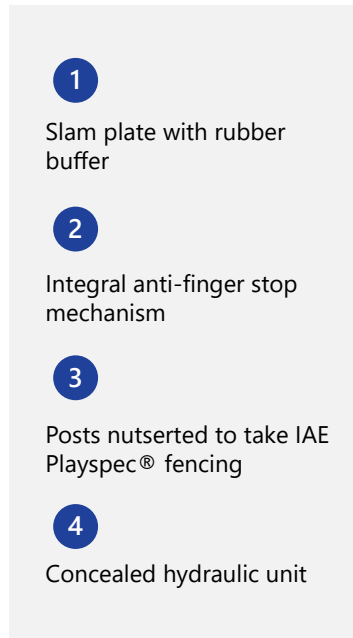
- Playgrounds
- Theme Parks
- Parks
- Recreational Areas and Schools

PANELS		POSTS	
Height (mm)	1000 & 1200	Post Size (mm)	50 x 50 SHS
Infill Dia. (mm)	12 & 16	Post Centres (mm)	2800
Bow Spacing (mm)	96		
Panel Width (mm)	2720		



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.

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.



Key Features:

- Available from stock
- Hydraulic self closing mechanism
- Anti-finger trap
- Controlled gate flow
- Easily adjustable
- Hot Dip Galvanized to BS EN ISO 1461
- Polyester Powder Coating

Suitable for:

- Playgrounds
- Theme Parks
- Parks
- Recreational Areas and Schools



	GATES	
	PROSAFE	COMBINATION
Width (mm) between posts	1100	2780
Height (mm)	1000 & 1200	1000 & 1200





We recognise the importance of safety and efficiency when refurbishing or constructing Industrial Warehouses, which is why our range of Industrial Fit Out products aims to be your one stop shop.

Whether you require shelters, loading bays or internal fit out, we can deliver a complete solution at a competitive price.

INDUSTRIAL FIT OUT

A photograph of an industrial facility, likely a warehouse or factory, showing large metal structures and loading docks. In the foreground, there are several bright yellow, curved bollards installed on a concrete floor, serving as safety barriers.

Shelters & Accessories

Bollards & Recycled Plastics

Loading Bays & Wash Bays

Bollards & Edge Protections

The Circonomy Shelter is a cost effective, versatile shelter priced to suit even the most modest budget without sacrificing quality.

Constructed from a robust steel frame and 4mm thick UV PETG cladding, the Circonomy Shelter is a strong and durable solution to your requirements.

This hugely popular and versatile shelter is applicable to a range of applications and a full range of accessories are available to meet the requirements of the desired application.

For security conscious applications, a compound can be created by using two shelters which oppose each other and adding a lockable gate and an end panel between the shelters. This enables the safe storage of bikes and motor scooters. For ultimate protection from the weather, additional overhead roofing can be purchased to suit the length between the two shelters and end panels are also available.

Available from stock, its highly competitive price and modular features make it suitable for a wide range of applications.



Key Features:

- Available from stock
- Cost effective outdoor shelter solution
- Fully customisable to suit on site requirements
- Robust steel frame
- 4mm UV PETG cladding
- Adjustable, base plated Feet
- Hot Dip Galvanized to BS EN ISO 1461
- Modular system allows addition shelters to be added to extend the overall length

Options:

- Can be Polyester Powder Coated to any colour
- Personalisation: Engraved UV PETG Cladding to your preferred design
- Metal Sheeting: Can be clad with pre-Galvanized sheet steel rather than UV PETG
- Cycle racks: Varied range of cycle racks and stands available
- Varied range of accessories for use as a waiting, smoking or vaping shelter, including benches, ashtrays and litter bins
- End panels: End UV PETG Panels available which are anti-climb for increased security

SPECIFICATIONS

Single Unit Size (mm) - 4 Cycles	2000L x 2100D x 2100H
Single Unit Size (mm) - 10 Cycles	4100L x 2100D x 2100H
Inline Extensions (mm)	2000 & 4000 sections





Circonomy Compound



Circonomy

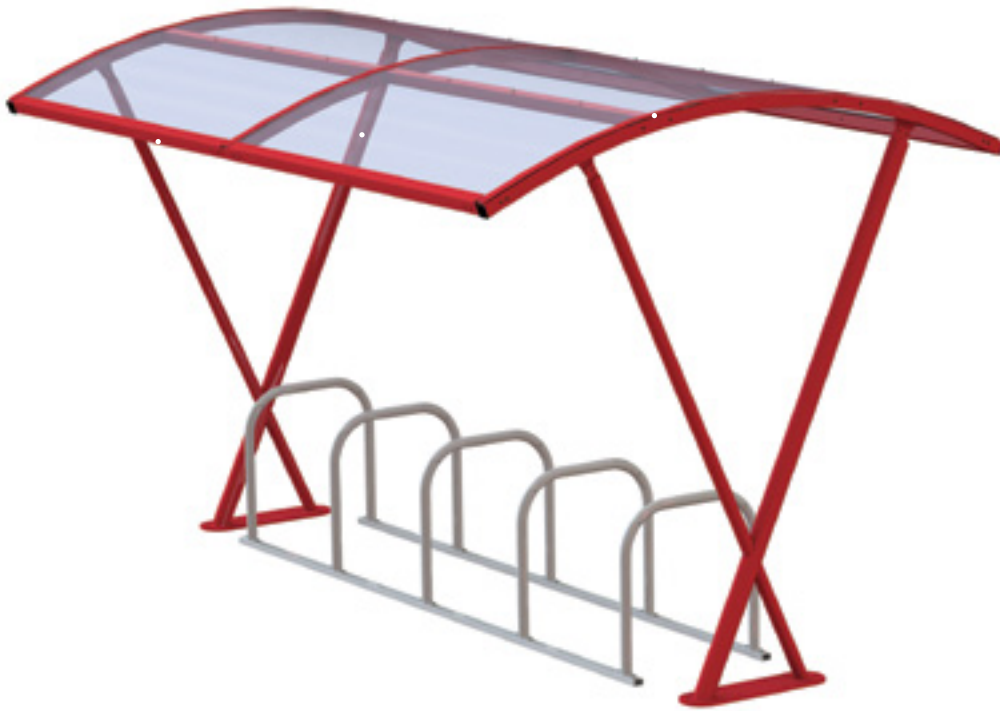


The Banbury Cycle Shelter is designed to offer a modern and aesthetically pleasing solution for storing bikes that helps compliment any environment it sits within. The shelter can be purchased in two lengths; 4100mm (10 cycle spaces) or 5000mm (12 cycle spaces).

The unique cross over end frame gives excellent stability and the robust tubular steel structure ensures a long and durable life.

The design enables the shelter to be extended inline to add capacity using 2000, 4000 or 5000mm sections. Due to the nature of the end frames, these shelters are better suited to being installed on flat, level ground.

To complete the shelter, we offer a range of bike racks which are bolted to the ground to create a stable and safe environment for the bikes to be chained to.



Key Features:

- Heavy Duty Steel Frame
- 5mm UV PETG cladding
- Stainless Steel fixings to all structural joints
- Extendable inline to increase cycle capacity
- Hot Dip Galvanized to BS EN ISO 1461
- Modular system which is easy to construct

Options:

- Can be Polyester Powder Coated to any colour
- Cycle racks: Varied range of cycle racks and stands available

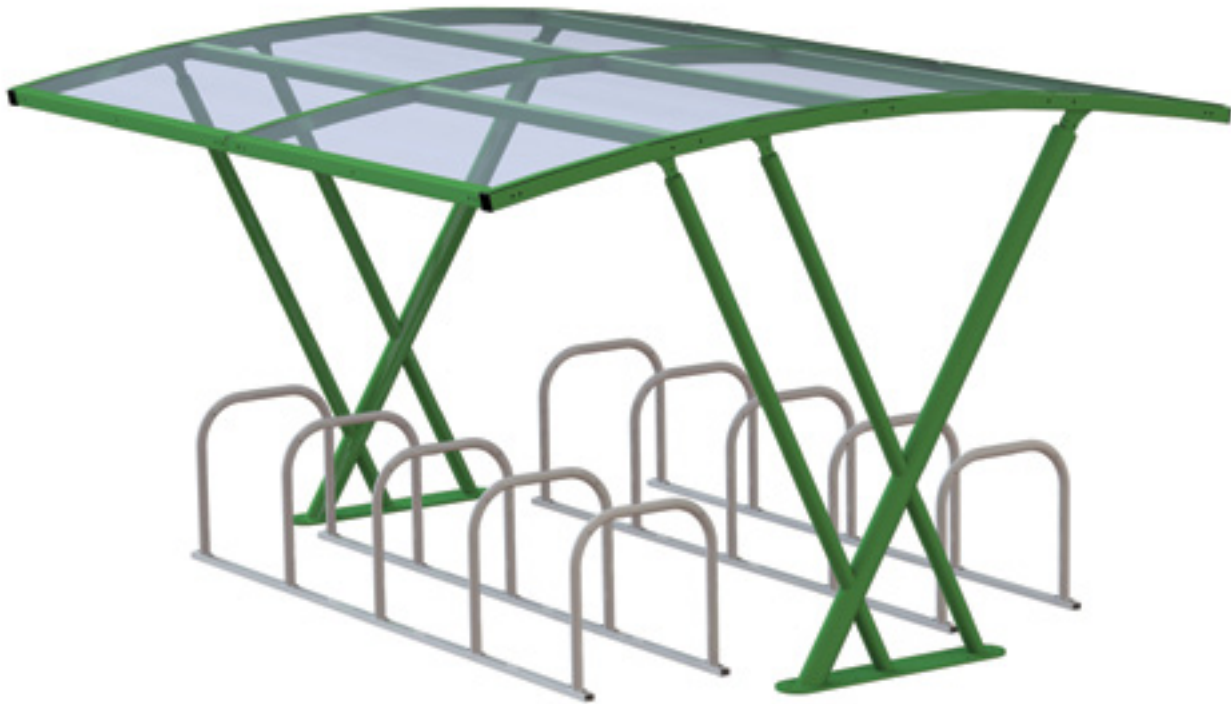
SPECIFICATIONS

Single Unit Size (mm) - 10 Cycles	4100L x 2700D x 2200H
Single Unit Size (mm) - 12 Cycles	5000L x 2700D x 2200H
Inline Extensions (mm)	2000 4000 & 5000 sections



The Banbury Double includes all of the excellent key features as the single does, with the added benefit of a much wider canopy, allowing two rows of cycle hoops to be accommodated in parallel. To support the wider canopy, an additional heavy-duty, diagonal cross member at either end of the frame supports the load bearing purlins, giving the whole shelter stability and strength to withstand the test of time.

Supplied Galvanized or Polyester Powder Coated to a colour of your choice, the Banbury Double is a stylish way to accommodate bicycles.



Key Features:

- Heavy duty steel frame
- 5mm UV PETG cladding
- Stainless Steel fixings to all structural joints
- Extendable inline to increase cycle capacity
- Hot Dip Galvanized to BS EN ISO 1461
- Modular system which is easy to construct

Options:

- Can be Polyester Powder Coated to any colour
- Cycle racks: Varied range of cycle racks and stands available

SPECIFICATIONS

Single Unit Size (mm) - 12 Cycles	5000L x 3870D x 2200H
Single Unit Size (mm) - 20 Cycles	4100L x 3870D x 2200H
Inline Extensions (mm)	2000 4000 & 5000 sections



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 1000mm centres in line with industry standards and BREEAM guidelines.

IAE cycle stands and racks come Hot Dip Galvanized as standard and can be Polyester Powder Coated to a range colours if required.

Stainless Steel
Angled Hoop Stand



Stainless Steel
U Hoop Stand



Hoop Rack



Hoop Post Rack



Motorcycle Rail



Toast Racks



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

Key Features:

- Available from stock
- Hot Dip Galvanized to BS EN ISO 1461
- Polyester Powder Coating (optional)

SPECIFICATIONS

2 - 5 Hoop Racks (mm)	800 high @ 1000 ctrs
Bolt Down Hoops (mm)	760 high
Root Fixed Hoops (mm)	1160 o/all leg



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 45) and a stainless steel tower ashtray (page 43).

Key Features:

- For up to 8 - 10 people
- Fire rated UV PETG cladding.
- Compliant with UK Smoking Legislation
- Range of accompanying ashtrays & benches
- Hot Dip Galvanized to BS EN ISO 1461
- Polyester Powder Coating (optional)



Trentham & Lightwood

The unique perforated arch plate in the Trentham and Lightwood Shelters can be customised to suit various applications, including a cigarette motif.

Key Features:

- Trentham for up to 5 - 6 people
- Lightwood for up to 3 - 4 people
- Fire rated UV PETG cladding.
- Compliant with UK Smoking Legislation
- Range of accompanying ashtrays & benches
- Hot Dip Galvanized to BS EN ISO 1461
- Polyester Powder Coating (optional)

Trentham

Lightwood



Customised motifs on request

SPECIFICATIONS	
LONGTON (mm)	4110L x 2157H
TRENTHAM (mm)	2450L x 1563H
LIGHTWOOD (mm)	2040L x 1084H

Fenton & Blurton

These flat roof shelters are designed to maximise value for money. The functional flat roof design is practical and cost effective.

Perfectly suited to use as a smoking vaping 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



Blurton



Key Features:

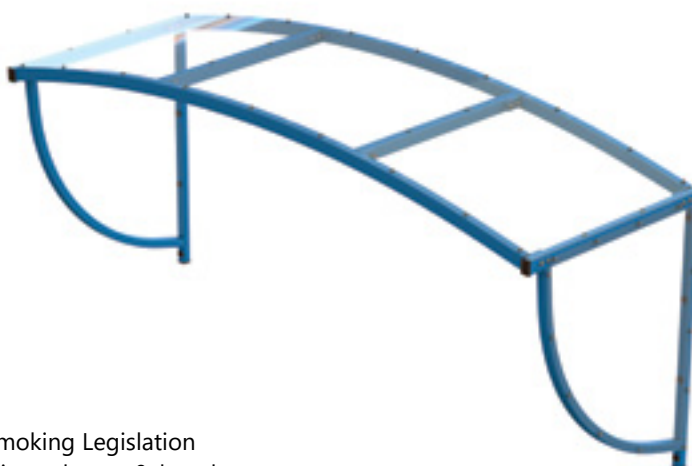
- Fenton for up to 6 - 8 people
- Blurton for up to 4 - 5 people
- Fire rated UV PETG cladding.
- Compliant with UK Smoking Legislation
- Range of accompanying ashtrays & benches
- Hot Dip Galvanized to BS EN ISO 1461
- Polyester Powder Coating (optional)



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 can be complimented with a recycled plastic bolt to wall perch seat and ashtray if required.



Key Features:

- Compliant with UK Smoking Legislation
- Range of accompanying ashtrays & benches
- Hot Dip Galvanized to BS EN ISO 1461
- Polyester Powder Coating (optional)



Compliment your Smoking, Vaping and Waiting Shelters with any or a combination of the following accessories:

Large Capacity Ashtray



Round Tubular Ashtray



Pyramid Ashtray



Ash/Litter Bin



Wall/Shelter Fixed Ashtray



Flameless Cigarette Lighter Post



Recycled Plastic Furniture

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.

Alton Picnic Table



Alton Seat



Key Features:

- Available from stock
- Steel frame Hot Dip Galvanized 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

Alton Bin



Alton Bench



Bin Stores

Our bin stores create a fixed, enclosed area for housing industrial bins, helping to prevent obstruction or accidents around busy sites.

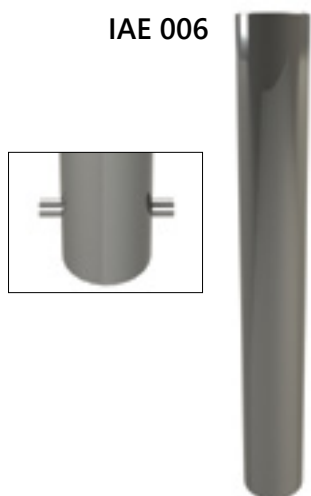
Key Features:

- Conceals and creates a secure enclosed space
- Recycled plastic vertical pales combined with Hot Dip Galvanized steel frame give the product longevity
- Inherent structural strength and maintenance free
- Steel work can be Polyester Powder Coated at an additional cost
- Can be supplied with matching access gates



Steel Bollards

Steel bollards are 275 carbon steel from recycled sources and finished Hot Dip Galvanized. The range of bespoke options include base plate fixing, adaption to accept chains, rails or panels.

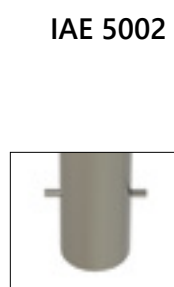


IAE 006

Ram Raid
Options
Available

Stainless Steel Bollards

Stainless steel bollards are manufactured in either grade 304 or grade 316 stainless steel with a satin brush polished finish. The range of bespoke options include base plate fixing, adaption to accept chains, rails or panels.



IAE 5002

Ram Raid
Options
Available



IAE 5006

Steel & Stainless Steel Bollard Key Features:

- Door stoppers or catches can be added
- Can be made to be removable or to fold down
- Can be adapted to make cycle stands, barriers etc.
- Retro reflective self-adhesive visibility bands can be applied. Wet painted and powder coated bands are also available
- Polyester Powder Coating (optional)

SPECIFICATIONS

	DIAMETER	HEIGHT
STEEL IAE 006 (mm)	76, 89, 101, 114, 129, 168 and 193 Dia	1200 (900 above ground) or 1500 long (1000)*
SS IAE 5006 (mm)	76, 89, 101, 114, 129, 168 and 193 Dia	1200 (900 above ground) or 1500 long (1000)*
SS IAE 5002 (mm)	76, 89, 101, 114, 129, 168 and 193 Dia	1200 (900 above ground) or 1500 long (1000)*

*Other bollard sizes are available if required

Cast Iron Bollards

Our cast iron bollards are 100% recycled, engineering grade 250 cast iron or any grade of ductile cast iron.



IAE 106



IAE 101

Supplied
root fixed as
standard, but
can also be
supplied as
removable or
fold down
**IAE 650
trough
bollards**

Ram Raid
Options
Available

Key Features:

- Zinc rich primer and metal shield top coat
- Polyester Powder Coating (optional)
- Embellishments, rings and features can be hand painted in a contrasting or reflective colours
- Logos/Coats of Arms can be cast onto the bollard sides

SPECIFICATIONS

	ABOVE GROUND	BELOW GROUND
IAE 101 (mm)	110 Dia top, 145 Dia base 1025H	175 ² W x 485H
IAE 106 (mm)	120 Dia x 800H	360H



Telescopic Bollards

Our range of telescopic bollards are a smart and secure method of protecting premises and vehicles. Built into the ground, the bollard can be lowered and hidden or pulled up and locked into place. These bollards are well suited to driveways, where vehicular access is required.



Key Features:

- Available as a square or circular bollard
- 10 pin anti-drill push button lock
- Lift assist also available
- Supplied in black as standard

SPECIFICATIONS		WEIGHT
HULME (mm)	90 x 90 Dia. Square Section x 5 Sliding Post - 670mm above ground	15kg
ECTON (mm)	90 Dia. Round Section x 5 Sliding Post - 670mm above ground	12kg

Steel Protection Bollards

As an essential part of site safety, steel bollards are one of the most cost effective ways to protect people, property and assets from vehicle damage or impact. Manufactured in house, our bollards are designed to withstand the test of time and damage.



Key Features:

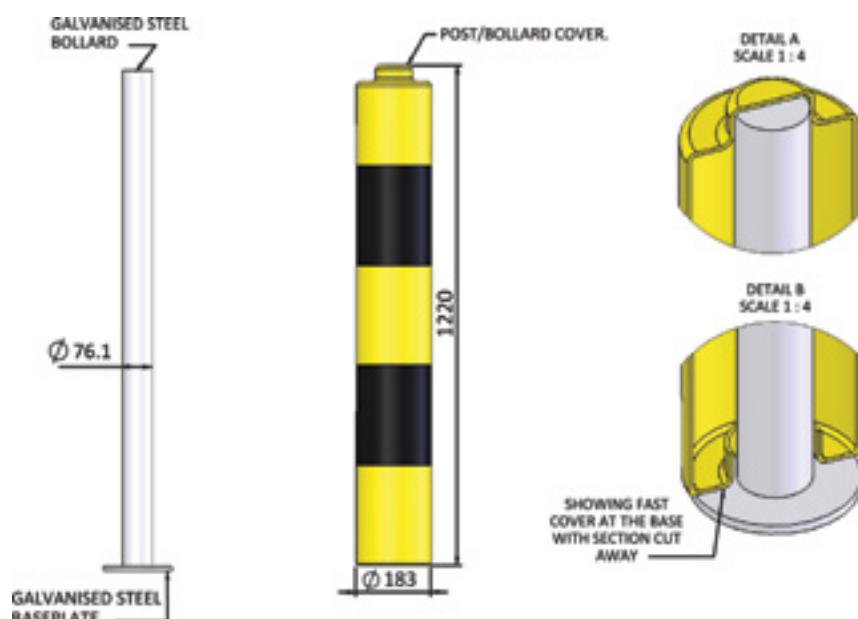
- Available with two fixing options: concrete fill or base plated
- Hot Dip Galvanized to BS EN ISO 1461
- Suitable for adding a PlasProtek bollard sleeve (see page 47)
- Can be Polyester Powder Coated at an additional cost
- Bespoke sizes and dimensions available upon request
- Available from stock in a Galvanized finish

SPECIFICATIONS		
V210 2302 99	168.3 Dia. x 1600L	Fixing - root fixed
V210 2303 99	168.3 Dia. x 1200L	Fixing - base plated



Bollard Sleeve

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.



Key Features:

- Moulded yellow LDPE
- 2 x UV stabilised HD vinyl strips
- Easy to fit
- No maintenance
- To suit 76mm and 168mm diameter

SPECIFICATIONS

Bollard Sleeve	183 Dia. x 1220H
----------------	------------------

Column Protectors

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.

Key Features:

- Air pressure release to cushion impact
- UV stabilised
- Assemble in seconds
- High visibility

SPECIFICATIONS

PP100	1100H x 390L x 435W Fits columns 100 x 100
PP150	1100H x 390L x 435W Fits columns 150 x 150
PP200	1100H x 600 Dia. Fits columns 160 x 160 & 200 x 200
PP300	1100H x 600 Dia. Fits columns 250 x 250 & 300 x 300
PP700	Fits columns from 200 - 700W

Slimline, PP100 & PP150



Standard, PP200, PP300 & Universal, PP700 Column Protector Infil



Universal is Supplied in four sections, the horizontals can be cut to fit on site.

Can be added to offer full protection to a wide range of RSJ column sizes.

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.

SPECIFICATIONS

SWG - 05	168 Dia. 2000L x 315H
SWG - 10	168 Dia. 3000L x 315H
CWG - 05	139 Dia. 2000L x 150H
CWG - 05HD	139 Dia. 2000L x 180H

Straight Wheel Guides SWG - 05 & SWG - 10



Cranked Bolt Down Wheel Guides CWG - 05 & CWG - 05HD



Wheel Stops

SPECIFICATIONS

WS - 10	168 Dia. x 3000L x 190H
WS - 20	8T x 1200L x 105H
WS - 30	150 x 150 x 3000L
WS - 40	1000L x 150H

WS - 10



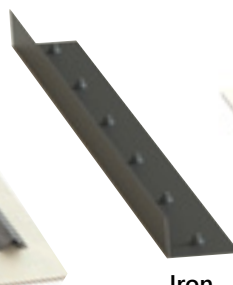
Tubular Steel

WS - 20



Folded

WS - 30



Iron

WS - 40



Recycled Rubber

Trailer Leg Plates

SPECIFICATIONS

TP - 10	1000 x 1000
TP - 20	1000 x 1000
TP - 30	1000 x 1000

TP 10 - FLUSHFIX



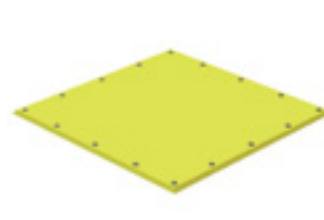
Root fixed flush to the slab

TP 20 - SURFACEFIX



Surface mounted with a bevelled edge

TP 30 - PLASPROTEK™



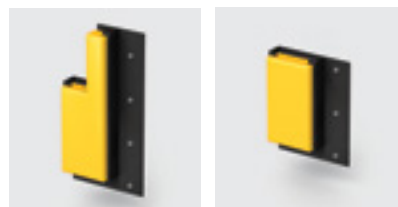
PlasProtek™ plates
Surface mount only

Key Features:

- Available from stock
- Steel products Hot Dip Galvanized to BS EN ISO 1461
- High Visibility Polyester Powder Coating (optional)
- Steel, plastic and rubber solutions available

PLASPROTEK™ Sliding Dock Protector

Tough, hard wearing nylon pads within a steel housing are able to slide with the vehicle. Available in a range of colours and as fixed pads.



Door Hoops are an essential addition to any industrial complex where doors are frequently in use. Designed to limit how far a door can open, Door Hoops are a popular choice across many industries as the simple design is available in a large variety of specifications to suit every application.

In addition to this, a Door Hoop will create a safe space around the door, providing you with the confidence that pedestrians can walk through the door and reduce risk of any oncoming vehicles or machinery.



INDUSTRIAL FIT OUT



WASH BAYS 32

Our vehicle wash bay barriers create a partially enclosed environment for washing vehicles with the intention of protecting the surrounding area from overspray of water and detergent.



Key Features:

- Heavy duty box section framework clad with 5mm UV PETG clear plastic glazing for longevity
- All steelwork is Hot Dip Galvanized to protect against rust and corrosion
- Helps control water run-off process
- Available in a range of heights and lengths to suit individual site requirements



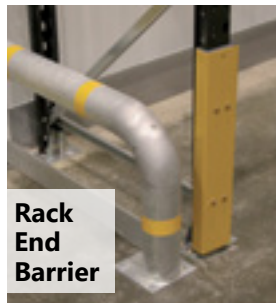
We manufacture and supply a vast array of internal fit out products designed to customer the interior of your commercial space. Each product is designed to meet functional, aesthetic and role specific requirements as well as to maximise the safety of your operations within the warehouse.

Our range of Internal Fit Out products include, but is not limited to:

- Protection Bollards
- Column Protectors
- Rack End Barriers
- Internal Safety Railings
- Entrance Protectors
- Mesh Edge Protection
- Edge Protection Angle Strips
- Printer Tables
- Dock Rail Guides
- Tubular Barrier Systems
- Industrial Screening

Key Features:

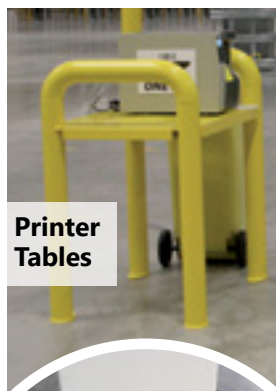
- Complete range of products available
- Bespoke options to client specification available
- Hot Dip Galvanized to BS EN ISO 1461
- High Visibility Polyester Powder Coating (optional)



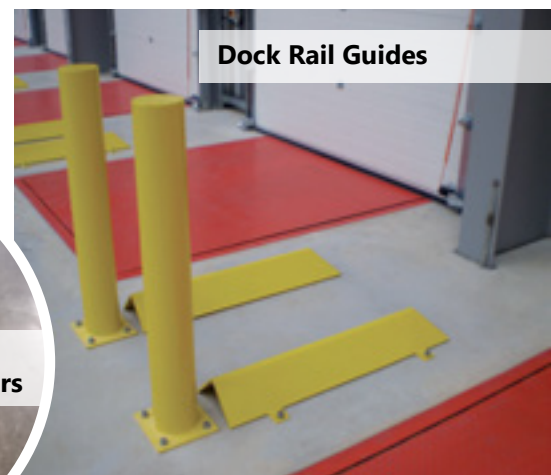
Rack End Barrier



Column Protectors



Printer Tables



Dock Rail Guides



Edge Protection Angle



Column Protectors



Tubular Barrier Systems

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.

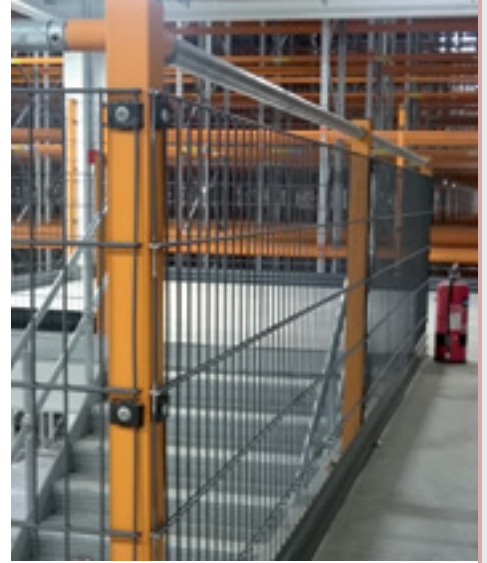
This highly efficient and highly customisable edge protection solution is perfect for use on mezzanine flooring within factories and warehousing. Traditional tubular handrail is generally supplied up to 1100mm high, this can allow people to lean over and objects to fall below, both unnecessary hazards in the work place. The IAE system is often supplied up to 2000mm 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.

Pallet Access Gate



Hand Rails



Kick-plates



Key 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
- High Visibility Polyester Powder Coating (optional)
- Handrails
- Kick-plates
- Pallet access gates



Off Highway Crash Barriers (ARMCO Barriers) are a cost effective solution for protecting pedestrians and infrastructure. Suited to a variety of applications, including car parks, commercial premises, warehouses and factories. The ARMCO beams are manufactured from 3mm steel and are all Hot Dip Galvanized to BS EN ISO 1461 to ensure longevity of the product. For added visibility, the beams and accessories can be powder coated yellow.

Barrier Posts

SPECIFICATIONS	
Single Beam Bolt Down Post (mm)	127 x 76 x 13 kg/mtr UB 760L c/w 330 x 250 x 12 base-plate Holed once to accept a single beam
Double Beam Bolt Down Post (mm)	127 x 76 x 13 kg/mtr UB 1100L c/w 330 x 250 x 12 base-plate Holed twice to accept two beams
Single Beam Bolt Down Post/cw handrail (mm)	127 x 76 x 13 kg/mtr UB 760L c/w 330 x 250 x 12 base-plate Welded stanchion to accept 48.3 Dia. handrail. Holed once to accept a single beam

- Also available root fixed

Single Beam Bolt Down Post
760mm High



Double Beam Bolt Down Post
1100mm High



Single Beam Bolt Down Post
760mm High
cw handrail



ARMCO Beam

Each beam is 3500mm long with an effective length of 3200mm

Straight Beam



Radiused Beam



Barrier Accessories

Fish-Tail End



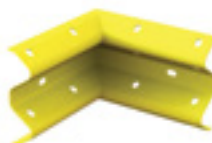
Pedestrian End



External Corner



Internal Corner



Beam Fix Internal Flexi Corner



Beam Fix External Flexi Corner



Key Features:

- Available from stock
- Cost effective
- Highly versatile
- Optional high visibility powder coating
- Load tested barriers available (BS EN 1991-1-1:2002)



Our in-house Galvanizing Plant allows us to not only streamline our manufacturing process, but also to offer an external Galvanizing service. To standards of the highest quality, we can Galvanize a complete array of different sized and shaped steel items. From sculptures, to structural steel, our Galvanizing plant has the ability to Galvanize on short leads times whilst also offering a collection and delivery service (charges may apply).

THE GALVANIZING PROCESS

Cleaning

The metal is dipped into large tanks containing an alkaline solution to clean and degrease the steel. Following this, an acid clean takes place, in tanks containing hydrochloric acid, ensuring the steel is stripped right back to its raw state.



DEGREASE

RINSE

ACID CLEAN

RINSE



Fluxing

To complete the cleaning process, the steel is dipped into a heated flux solution. This process removes any remaining traces of oxide and prepares the steel to go into the Galvanizing bath.

FLUX

DRY

Galvanizing

Once clean and dry, the steel is dipped into a bath of molten zinc, where zinc atoms chemically bond with the steel atoms, creating a durable, corrosion resistant finish, designed to withstand the test of time and environments.

IMMERSE IN
MOLTEN ZINC



PASSIVATION

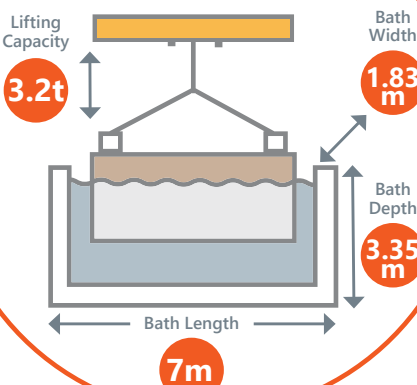
COOL

Post-treatment

Finally, the steel is dipped into a passivation tank, designed to help protect the newly Galvanized steel against water stains and rapidly cool it for safe handling.



GALVANIZING CAPACITIES



Combining competitive rates with short lead times, we are here to support your fabrications, ensuring they have the very best lifespan.

Contact us today on:

Tel: +44 (0)1782 339 320 or Email: galvanizing@iae.co.uk

Corrosion of Galvanized Steel

All IAE Hot Dip Galvanized products are Galvanized to the highest standards, conforming to BS EN ISO 1461. However, depending upon the environment and location the equipment is within, there is always a possibility of Galvanized steel corroding in the medium to long-term, particularly in aggressive environments.

What is Galvanizing?

Hot Dip Galvanizing is a surface treatment used to protect mild steel from corrosion. The process involves dipping chemically clean steel into a bath of molten zinc which causes a metallurgically bonded coating of zinc to form on the surface of the steel.

Zinc, like stainless steel or aluminium does not rust like mild steel. An oxide layer on its surface is created on exposure to air, which resists further corrosion. Zinc is used in Galvanizing as it bonds well to mild steel.

How does Galvanizing prevent corrosion?

Galvanizing prevents oxygen and water from reaching the steel beneath using this zinc oxide layer on its surface. When there's moisture present this turns into zinc carbonate. This gives the metal a dull grey patina that's insoluble in water and stops any further chemical changes. In certain circumstances the Galvanizing will offer cathodic protection, where the zinc corrodes preferentially to the steel.

What degrades the Zinc coating?

Typical environments or chemicals that accelerate corrosion of Galvanized steel are:

- Acids or ammonia's found in animal feeds (e.g. silage) and excretion
- Strong alkalis such as cement, (especially Portland cement,) as these contain chlorides and sulphates
- Sodium Chloride (salt) in water or air (marine or coastal environments)
- Situations where coatings are wet or soaked

Present within some of the above are corrosive gasses which catalyse the corrosion of the zinc coating through the formation of carbonic and sulphuric acid respectively. These acids modify the zinc coating causing its properties to change and therefore reduce the protection against corrosion. As a result of this, ferric and ferrous oxides occur in the form of rust. Marine and salty environments lower the lifetime of Galvanized steel because the high electrical conductivity of sea or air increases the rate of corrosion, primarily through converting the solid zinc to soluble zinc chloride which is then washed away.

What can be done to increase a Galvanized items lifespan?

Applying a secondary layer of protection to a Galvanized item that is particularly susceptible to corrosion is the primary method of increasing corrosion resistance. This is known as a "duplex system".

Coating the lower section of posts with bituminous paint prior to installing into concrete is a recognised method of increasing a posts lifespan, protecting it from acids and ammonias present in animal excretion. Coating feed to water troughs with food safe paint or resin is also common practice. Where additional coatings cannot be practically applied, ensuring products are washed down frequently where exposed to aggressive environments, and keeping products dry where possible will both increase longevity.

For more information visit www.iae.co.uk/corrosion



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TERMS AND CONDITIONS

1. INTERPRETATION

1.1 Definitions:

"Acknowledgment": the written confirmation of order issued by the Supplier confirming the Customer's Order.

"Affiliate": means any entity that directly or indirectly Controls, is Controlled by or is under common Control with another entity.

"Approval Drawings": means drawings produced by the Supplier for specific approval by the Customer.

"Bespoke Goods": means any engineered to order Goods which are made to a Customer's Specification.

"Business Day": a day (other than a Saturday, Sunday or public holiday) when the banks in London are open for business.

"Cancellation Fee": means a fee which is equivalent to the costs incurred by the Supplier in manufacturing MTO Goods or Bespoke Goods (where no deposit has been paid) which may include, without limitation, the raw material, labour, design and manufacturing costs incurred by the Supplier as at the date of cancellation.

"Conditions": the terms and conditions set out in this document as amended from time to time in accordance with clause 11.4.

"Contract": the contract between the Supplier and the Customer for the sale and purchase of the Goods in accordance with these Conditions.

"Control": means the beneficial ownership of more than 50% of the issued share capital of a company or the legal power to direct or cause the direction of the management of the company;

"Customer": the person, firm, organisation or other entity who purchases the Goods from the Supplier either as End User or on behalf of an End User (including for the avoidance of doubt, any dealer or agent).

"Delivery Location": the location to which the Goods are to be delivered as set out in the Order or as otherwise agreed by the Supplier in accordance with these Conditions.

"Deposit": a sum of up to 50% of the price as set out in the Acknowledgment, which is non-refundable.

"End User": means, where applicable, any person or persons to whom the Customer sells on or hands over the Goods.

"Force Majeure Event": an event or circumstance beyond a party's reasonable control.

"Goods": the goods (or any part of them) set out in the Order.

"MTO Goods": standard Goods which are made to order for a specific Customer.

"Order": the Customer's order for the Goods as confirmed by the Supplier's written Acknowledgement.

"Specification": any specification for the Goods, including any related plans and drawings that are agreed in writing by the Customer and the Supplier.

"Supplier": F.Klucznik & Son Ltd trading as IAE (registered in England and Wales with company number 01448116).

1.2 Interpretation:

1.2 a reference to a statute or statutory provision is a reference to such statute or provision as amended or re-enacted. A reference to a statute or statutory provision includes any subordinate legislation made under that statute or statutory provision, as amended or re-enacted.

1.2.2 any phrase introduced by the terms including, include, in particular or any similar expression shall be construed as illustrative and shall not limit the sense of the words preceding those terms. a reference to writing or written includes emails but not faxes.

2 BASIS OF CONTRACT

2.1 These Conditions apply to the Contract to the exclusion of any other terms that the Customer seeks to impose or incorporate, or which are implied by trade, custom, practice or course of dealing.

2.2 The Order constitutes an offer by the Customer to purchase the Goods in accordance with these Conditions. The Customer is responsible for ensuring that the terms of the Order and any applicable Specification submitted by the Customer are complete and accurate.

2.3 The Order shall be deemed to be accepted by the Supplier on the earlier of:

2.3.1 the date upon which the Supplier commences any work in relation to the Customer's order for Bespoke Goods (including, without limitation any drawing or preparation of manufacturing documents) or MTO Goods; 2.3.2 the date upon which the Supplier issues an Acknowledgment and, if requested by the Supplier, the Customer has paid in cleared funds the Deposit at which point the Contract shall come into existence. The Supplier may accept or reject an Order at its discretion at any time prior to acceptance.

2.4 The Customer waives any right it might otherwise have to rely on any term endorsed upon, delivered with or contained in any documents of the Customer that is inconsistent with these Conditions.

2.5 Any samples, drawings, descriptive matter or advertising produced by the Supplier (other than Approval Drawings) and any descriptions or illustrations contained in the Supplier's catalogues or brochures are produced for the sole purpose of giving an approximate idea of the Goods referred to in them. They shall not form part of the Contract nor have any contractual force.

2.6 A quotation for the Goods given by the Supplier is an invitation to treat only and shall not constitute an offer and are incapable of being accepted by the Customer. A quotation shall only be valid for a period of 14 days from its date of issue unless otherwise stated.

3 GOODS AND CANCELLATION

3.1 The Goods are described in the Supplier's catalogue as modified by any applicable Specification.

3.2 Where Goods are manufactured to a Customer's Specification, the Customer takes full responsibility for that Specification and any related plans and drawings made by the Supplier based upon that Specification which are accepted by the Customer prior to manufacture of the Goods.

3.3 To the extent that the Goods are to be manufactured in accordance with a Specification supplied by the Customer, the Customer shall indemnify the Supplier against all liabilities, costs, expenses, damages and losses (including any direct, indirect or consequential losses, loss of profit, loss of reputation and all interest, penalties and legal and other reasonable professional costs and expenses) suffered or incurred by the Supplier in connection with any claim made against the Supplier for actual or alleged infringement of a third party's intellectual property rights arising out of or in connection with the Supplier's use of the Specification. This clause 3.3 shall survive termination of the Contract.

3.4 The Supplier reserves the right to amend the Specification of the Goods if required by any applicable statutory or regulatory requirements.

3.5 The Supplier retains all intellectual property rights in all drawings (including, without limitation, Approval Drawings), designs and plans prepared in connection with the Goods and in the design of the Goods themselves.

4 DELIVERY

4.1 The Supplier shall ensure that each delivery of the Goods is accompanied by a delivery note that shows the date of the Order, all relevant Customer and Supplier reference numbers, the type and quantity of the Goods (including the code number of the Goods, where applicable), the number of pallets used in packing the Goods special storage instructions (if any).

4.2 If the Supplier requires the Customer to return any packaging materials to the Supplier, including pallets, this shall be stated on the delivery note or notified to the Customer in writing. Returns of packaging material by the Customer in accordance with this clause 4.2 shall be at the Supplier's expense. Where the Customer is required to return any packaging materials these must be returned to the Supplier within 8 weeks of delivery. Packaging materials which are not returned by the Customer to the Supplier shall be disposed of by the Customer responsibly and in accordance with all applicable regulations regarding waste disposal.

4.3 Where packaging materials are to be collected by the Supplier, the Customer shall make any such packaging materials available for collection at such times as the Supplier shall reasonably request. The Supplier shall be responsible for the costs of collecting packaging materials save where the Supplier is required to collect packaging materials left at a location other than the delivery address stated on the delivery note in which case the Customer shall be responsible for the costs of collection.

4.4 The Supplier may deliver the Goods by separate instalments and, save where Goods are

delivered in separate instalments but all relate to the same Order, each separate instalment shall be treated as a separate contract and shall be invoiced and paid for separately. Any delay in delivery or defect in an instalment shall not entitle the Customer to cancel any other instalment.

4.5 Any costs of delivery payable by the Customer shall be set out in the Acknowledgment and the Supplier has the right to pass on to the Customer any unforeseen additional costs they incur in delivering the Goods.

4.6 The Supplier shall deliver the Goods to the Delivery Location at any time after the Supplier notifies the Customer that the Goods are ready. Any changes to the delivery address must be notified to the Supplier at least two weeks prior to the scheduled delivery date and the Supplier reserves the right to charge additional delivery costs if the delivery address is changed at any time after the Order is accepted or the original address provided by the Customer is incorrect.

4.7 Delivery is completed on the completion of unloading of the Goods at the Delivery Location.

4.8 Any times and dates quoted for delivery are approximate only, and the time of delivery is not of the essence. The Supplier shall not be liable for any delay in delivery of the Goods that is caused by a Force Majeure Event or the Customer's failure (i) to make the Delivery Location available (ii) to provide the Supplier with adequate delivery instructions or any other instructions that are relevant to the supply of the Goods, or (iii) to prepare the Delivery Location as required for the Goods.

4.9 If the Supplier fails to deliver the Goods in their entirety, its liability shall be limited to the actual cost incurred by the Customer in obtaining replacement goods of similar description and quality in the cheapest market available, less the price of the Goods. The Supplier shall have no liability for any failure to deliver the Goods to the extent that such failure is caused by a Force Majeure Event or the Customer's failure to provide the Supplier with adequate delivery instructions or any other instructions that are relevant to the supply of the Goods.

4.10 It is the Customer's responsibility to check that all Goods have been delivered and to notify the Supplier within three Business Days if any Goods have not been delivered. If the Supplier delivers some but not all of the Goods which are due to be delivered in any instalment or delivery the Customer may not reject them or cancel the order, but shall notify the Supplier in accordance with this clause and on receipt of such notice from the Customer, the Supplier shall deliver the missing Goods within a reasonable time. If the Supplier is unable to do this, a pro rata adjustment shall be made to the Order invoice. Where the Supplier has delivered Goods in excess of those stated on the Order, the Supplier shall have a reasonable time within which to collect the Goods and the Customer shall store the excess Goods safely until they are collected.

4.11 The Customer is advised not to make any arrangements for the installation for the Goods until the Goods have been delivered and the Customer is satisfied that the Goods have been delivered in full. The Supplier shall not be responsible for any costs or expenses incurred by the Customer in relation to the installation or planned installation of the Goods.

4.12 If the Customer fails to take delivery of or collect the Goods within three Business Days of the Supplier notifying the Customer that the Goods are ready, then, except where such failure or delay is caused by a Force Majeure Event or the Supplier's failure to comply with its obligations under the Contract:

4.12.1 delivery of the Goods shall be deemed to have been completed at 9.00 am on the third Business Day after the day on which the Supplier notified the Customer that the Goods were ready; and

4.12.2 the Supplier shall store the Goods at the Customer's risk until delivery takes place, and charge the Customer for all related costs and expenses (including insurance).

4.13 If ten Business Days after the day on which the Supplier notified the Customer that the Goods were ready for delivery or collection the Customer has not taken delivery of them or collected them, the Order shall be treated as cancelled and the Supplier may resell or otherwise dispose of part or all of the Goods and may charge the Customer for any re-stocking fee (in the case of standard stock products), retain any Deposit paid by the Customer in relation to Bespoke Goods or charge a Cancellation Fee in accordance with clause 5.1.

In relation to Goods sold by the Supplier to any Customer for delivery outside England, mainland Scotland and Wales shipping and insurance shall be payable by the Customer unless otherwise agreed with the Supplier. The Customer shall be responsible, at its own expense for obtaining any licence and complying with any export regulations in force within the UK and any country to which the Goods are to be delivered.

5 CANCELLATION

5.1 If following the acceptance of the Order under clause 2.3, the Customer wishes to cancel the Order then the Customer must give Supplier at least five Business Days' written notice. If the Order relates to Bespoke Goods or MTO Goods and the Supplier has commenced work on the Order (including time spent upon drawings and designs) then the Supplier is entitled to retain any Deposit to cover the costs incurred and, if no Deposit has been paid, is entitled to charge the Customer a Cancellation Fee which shall be invoiced to the Customer following the date of cancellation.

5.2 Should the Customer cancel or return an Order for or fail to take delivery of standard stock items, the Supplier reserves the right to charge a restocking fee which will be an amount equivalent to 20% of the price payable by the Customer in respect of the returned Goods or cancelled Order.

5.3 Where Goods are delivered in instalments, each instalment shall be a separate contract and cancellation of any one contract relating to an instalment shall not entitle the Customer to repudiate or cancel any other contract or instalment.

6 QUALITY

6.1 The Supplier warrants that on delivery, and for a period of 12 months from the date of delivery ("warranty period"), the Goods shall:

6.1.1 conform in all material respects with their description and any applicable Specification; and

6.1.2 be free from material defects in design, material and workmanship; and

6.1.3 be of satisfactory quality (within the meaning of the Sale of Goods Act 1979); and

6.1.4 be fit for any purpose held out by the Supplier.

6.2 Subject to clause 6.3, if:

6.2.1 the Customer gives notice in writing to the Supplier within three Business Days of discovery that some or all of the Goods do not comply with the warranty set out in clause 6.1;

6.2.2 provides to the Supplier a valid proof of purchase for the Goods;

6.2.3 the Supplier is given a reasonable opportunity of examining such Goods; and

6.2.4 the Customer (if asked to do so by the Supplier) returns such Goods to the Supplier's place of business at the Customer's cost,

the Supplier shall, at its option, repair or replace the defective Goods, or refund the price of the defective Goods in full. The warranty set out in clause 6.1 is not transferable other than from a Customer to an End-User when the Goods are also transferred to that End-User.

6.3 The Supplier shall not be liable for the Goods failure to comply with the warranty set out in clause 6.1 in any of the following events:

6.3.1 the Customer makes any further use of such Goods after giving notice in accordance with clause 6.2;

6.3.2 the defect arises because the Customer failed to follow the Supplier's oral or written instructions as to the storage, commissioning, installation, use and maintenance of the Goods or (if there are none) good trade practice regarding the same;

6.3.3 the defect arises as a result of the Supplier following any drawing, design or Specification supplied by the Customer and agreed by the Supplier with the Customer;

6.3.4 the Customer alters or repairs such Goods without the written consent of the Supplier;

6.3.5 the defect arises as a result of fair wear and tear, wilful damage, negligence, or abnormal storage or working conditions; or

6.3.6 the Goods differ from their description as a result of changes made to ensure they comply with applicable statutory or regulatory requirements.

6.4 Except as provided in this clause 6, the Supplier shall have no liability to the Customer in respect of the Goods' failure to comply with the warranty set out in clause 6.1.

6.5 The terms implied by sections 13 to 15 of the Sale of Goods Act 1979 are, to the fullest extent permitted by law, excluded from the Contract.

7 TITLE AND RISK

7.1 The risk in the Goods shall pass to the Customer on completion of delivery or deemed completion of delivery under clause 4.12.1, or on the date when the Supplier confirms to the Customer that the Goods are ready for collection.

7.2 Title to the Goods shall not pass to the Customer until the earlier of:

7.2.1 the Supplier receiving payment in full (in cash or cleared funds) for the Goods and any other goods that the Supplier has supplied to the Customer in respect of which payment has become due, in

which case title to the 7.2 Goods shall pass at the time of payment of all such sums; and 7.2.2 the Customer resells the Goods, in which case title to the Goods shall pass to the Customer at the time specified in clause 7.4.

7.3 Until title to the Goods has passed to the Customer, the Customer shall:

7.3.1 store the Goods separately from all other goods held by the Customer so that they remain readily identifiable as the Supplier's property;
7.3.2 not remove, deface or obscure any identifying mark or packaging on or relating to the Goods;
7.3.3 maintain the Goods in satisfactory condition and keep them insured against all risks for their full price from the date of delivery;
7.3.4 notify the Supplier immediately if it becomes subject to any of the events listed in clauses 9.1.2 to 9.1.5; and
7.3.5 give the Supplier such information relating to the Goods as the Supplier may require from time to time; and
7.3.6 on reasonable notice permit the Supplier to inspect the Goods during the Customer's normal business hours.

7.4 Subject to clause 7.5, the Customer may resell or use the Goods in the ordinary course of its business (but not otherwise) until such time as it becomes aware or ought reasonably to have become aware than an event specified in clauses 9.1.2 to 9.1.5 has occurred or is likely to occur before the Supplier receives payment for the Goods. However, if the Customer resells the Goods before that time:

7.4.1 it does so as principal and not as the Supplier's agent; and
7.4.2 title to the Goods shall pass from the Supplier to the Customer immediately before the time at which resale by the Customer occurs.
7.5 If before title to the Goods passes to the Customer the Customer becomes subject to any of the events listed in clause 9.1.2 to 9.1.5, then, without limiting any other right or remedy the Supplier may have:

7.5.1 the Customer's right to resell the Goods or use them in the ordinary course of its business ceases immediately; and
7.5.2 the Supplier may at any time:
7.5.2.1 require the Customer to deliver up all Goods in its possession that have not been resold, or irrevocably incorporated into another product; and
7.5.2.2 if the Customer fails to do so promptly, enter any premises of the Customer or of any End User where the Goods are stored in order to recover them.

7.6 In relation to Goods sold by the Supplier to Customers outside England, mainland Scotland and Wales, risk in the Goods shall pass to the Customer at the point at which the Goods leave the Supplier's premises.

8 PRICE AND PAYMENT

8.1 The price of the Goods and any Deposit payable shall be the price set out in the Supplier's quotation and confirmed in the Acknowledgment.

8.2 The Supplier may, by giving notice to the Customer at any time before delivery, increase the price of the Goods to reflect any increase in the cost of the Goods that is due to:

8.2.1 any factor beyond the Supplier's control (including foreign exchange fluctuations, increases in taxes and duties, and increases in labour, materials and other manufacturing costs);
8.2.2 any request by the Customer to change the delivery date(s), Delivery Location, quantities or types of Goods ordered, or the Specification; or
8.2.3 any delay caused by any instructions of the Customer or failure of the Customer to give the Supplier adequate or accurate information or instructions.
8.3 The price of the Goods:

8.3.1 excludes amounts in respect of value added tax (VAT), which the Customer shall additionally be liable to pay to the Supplier at the prevailing rate, subject to the receipt of a valid VAT invoice; and
8.3.2 (unless otherwise stated in the Supplier's quotation or Acknowledgment), excludes the costs and charges of packaging, insurance and transport of the Goods, which shall be invoiced to the Customer.

8.4 The Supplier may at any time after the date of the Acknowledgment, invoice the Customer for the amount of the Deposit or the full price of the Goods.

8.5 The Customer must pay the invoice for the Deposit (or the full price if requested in the Acknowledgment as the case may be) in full and in cleared funds before delivery or collection of the Goods is permitted. If payment in full is not required prior to delivery or collection, the Supplier shall invoice the Customer for the Goods either:

8.5.1 if Goods are being delivered, once the Goods have been despatched to the Customer; or
8.5.2 in the case of Goods which are being collected, at any time after the date upon which the Customer has been notified that the Goods are ready for collection.
8.6 The Deposit shall be non-refundable and where Orders are cancelled or Goods returned or rejected by a Customer, the Deposit shall belong to the Supplier who shall be entitled to apply the Deposit against its costs of manufacturing the Goods. In the case of Bespoke Goods, where the full price has been paid in advance of delivery and the Customer cancels the order or fails to accept delivery of the Goods, then the price paid shall be non-refundable and the Supplier shall be entitled to apply the price paid against any costs it has incurred in relation to the manufacturing of the Goods or any other costs it has incurred in relation to the Order. In the case of Orders for MTO Goods and Bespoke Goods where a Deposit or the price has not been paid in advance, the Supplier shall be entitled to charge a Cancellation Fee if an Order is cancelled in accordance with clause 5.1.

8.7 The Customer shall pay the invoice for the price (or the balance of the price where a Deposit has been paid) in full and in cleared funds by the earlier of the date of delivery or collection, or by the date which is 30 Business Days after the date of the invoice or as otherwise stated in the Acknowledgment. Payment shall be made to the bank account nominated in writing by the Supplier. Time for payment is of the essence.

8.8 If the Customer fails to make any payment due to the Supplier under the Contract by the due date for payment, then the Customer shall pay interest on the overdue amount at the rate of 4% per annum above Barclays Bank PLC's base rate from time to time. Such interest shall accrue on a daily basis from the due date until actual payment of the overdue amount, whether before or after judgment. The Customer shall pay the interest together with the overdue amount. The Supplier shall also be entitled to charge an administration fee of 10% of the price for the Goods (excluding VAT) if payments are late or are not made.

8.9 The Customer shall pay all amounts due under the Contract in full without any set-off, counterclaim, deduction or withholding (except for any deduction or withholding required by law) from any amounts due to the Supplier or its Affiliates. The Supplier may at any time, without limiting any other rights or remedies it may have, set off any amount owing to it by the Customer against any amount payable by the Supplier to the Customer. 8.10 In the event of a dispute regarding part of an Order, then the Customer shall only be entitled to withhold payment of an amount which relates to the disputed part of the Order and shall be obliged to pay all other amounts due to the Supplier and its Affiliates.

9 TERMINATION

9.1 Without limiting its other rights or remedies, the Supplier may terminate this Contract with immediate effect by giving written notice to the Customer if:

9.1.1 the Customer commits a material breach of any term of the Contract and (if such a breach is remediable) fails to remedy that breach within 30 days of that party being notified in writing to do so;

9.1.2 the Customer takes any step or action in connection with its entering administration, provisional liquidation or any composition or arrangement with its creditors (other than in relation to a solvent restructuring), being wound up (whether voluntarily or by order of the court, unless for the purpose of a solvent restructuring), having a receiver appointed to any of its assets or ceasing to carry on business or, if the step or action is taken in another jurisdiction, in connection with any analogous procedure in the relevant jurisdiction;

9.1.3 the Customer suspends, threatens to suspend, ceases or threatens to cease to carry on all or a substantial part of its business;

9.1.4 the Customer's financial position deteriorates to such an extent that in the Supplier's opinion the Customer's capability to adequately fulfil its obligations under the Contract has been placed in jeopardy; or

9.1.5 the Supplier has reason to believe that the Customer's credit rating has deteriorated or an event has occurred in relation to a Customer or End User (if not the Customer), which may invalidate any credit insurance policy that the Supplier may have taken out in respect of the

Customer.

9.2 Without limiting its other rights or remedies, the Supplier may suspend provision of the Goods under the Contract or any other contract between the Customer and the Supplier if the Customer becomes subject to any of the events listed in clause 9.1.2 to clause 9.1.5, or the Supplier reasonably believes that the Customer is about to become subject to any of them, or if the Customer fails to pay any amount due under this Contract on the due date for payment.

9.3 Without limiting its other rights or remedies, the Supplier may terminate the Contract with immediate effect by giving written notice to the Customer if the Customer fails to pay any amount due under the Contract on the due date for payment.

9.4 On termination of the Contract for any reason the Customer shall immediately pay to the Supplier all of the Supplier's outstanding unpaid invoices and interest.

9.5 Termination of the Contract shall not affect any of the parties' rights and remedies that have accrued as at termination, including the right to claim damages in respect of any breach of this Contract that existed at or before the date of termination.

9.6 Any provision of the Contract that expressly or by implication is intended to come into or continue in force on or after termination shall remain in full force and effect.

10 LIMITATION OF LIABILITY

10.1 Nothing in these Conditions shall limit or exclude the Supplier's liability for:

10.1.1 death or personal injury caused by its negligence, or the negligence of its employees, agents or subcontractors (as applicable);

10.1.2 fraud or fraudulent misrepresentation;

10.1.3 breach of the terms implied by section 12 of the Sale of Goods Act 1979; or

10.1.4 defective products under the Consumer Protection Act 1987; or

10.1.5 any matter in respect of which it would be unlawful for the Supplier to exclude or restrict liability.

10.2 Subject to clause 10.1:

10.2.1 the Supplier shall under no circumstances whatsoever be liable to the Customer, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, for any loss of profit, or any indirect or consequential loss arising under or in connection with the Contract; and
10.2.2 the Supplier's total liability to the Customer in respect of all other losses arising under or in connection with the Contract, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, shall in no circumstances exceed £2,000,000 (two million pounds).

11 FORCE MAJEURE

Neither party shall be in breach of this Contract nor liable for delay in performing, or failure to perform, any of its obligations under this Contract if such delay or failure result from a Force Majeure Event. If the period of delay or non-performance continues for three months, the party not affected may terminate this Contract by giving 7 days' written notice to the affected party.

12 DATA PROTECTION

Both parties shall comply with their respective obligations under all applicable data protection legislation. The Customer shall indemnify and keep indemnified the Supplier against all losses, claims, damages, liabilities, fines, sanctions, interest, penalties, costs, charges, expenses, demands and legal and other professional costs arising out of or in connection with any breach by the Customer of its obligations under this clause 12.

13 GENERAL

13.1 Assignment and other dealings.

13.1.1 The Supplier may at any time assign, transfer, mortgage, charge, subcontract or deal in any other manner with all or any of its rights or obligations under the Contract.

13.1.2 The Customer may not assign, transfer, mortgage, charge, subcontract, declare a trust over or deal in any other manner with any or all of its rights or obligations under the Contract without the prior written consent of the Supplier.

13.2 Confidentiality.

13.2.1 Each party undertakes that it shall not at any time disclose to any person any confidential information concerning the business, affairs, customers, clients or suppliers of the other party or of any member of the group to which the other party belongs, or the designs, drawings, plans or Specifications of any Goods supplied by the Supplier except as permitted by clause 13.2.2. For the purposes of this clause, "group" means, in relation to a party, that party, any subsidiary or holding company from time to time of that party, and any subsidiary from time to time of a holding company of that party.

13.2.2 Each party may disclose the other party's confidential information:

13.2.2.1 to its employees, officers, representatives or advisers who need to know such information for the purposes of exercising the party's rights or carrying out its obligations under or in connection with this Agreement. Each party shall ensure that its employees, officers, representatives or advisers to whom it discloses the other party's confidential information comply with this clause 13.2; and

13.2.2.2 as may be required by law, a court of competent jurisdiction or any governmental or regulatory authority.

13.2.3 No party shall use any other party's confidential information for any purpose other than to exercise its rights and perform its obligations under or in connection with this Agreement.

13.3 Entire agreement.

13.3.1 This Contract constitutes the entire agreement between the parties and supersedes and extinguishes all previous agreements, promises, assurances, warranties, representations and understandings between them, whether written or oral, relating to its subject matter.

13.3.2 Each party agrees that it shall have no remedies in respect of any statement, representation, assurance or warranty (whether made innocently or negligently) that is not set out in this Agreement. Each party agrees that it shall have no claim for innocent or negligent misrepresentation or negligent misstatement based on any statement in this Agreement.

13.4 Variation. No variation of this Contract shall be effective unless it is in writing and signed by the parties (or their authorised representatives).

13.5 Waiver. No failure or delay by a party to exercise any right or remedy provided under the Contract or by law shall constitute a waiver of that or any other right or remedy, nor shall it prevent or restrict the further exercise of that or any other right or remedy. No single or partial exercise of such right or remedy shall prevent or restrict the further exercise of that or any other right or remedy.

13.6 Severance. If any provision or part-provision of the Contract is or becomes invalid, illegal or unenforceable, it shall be deemed modified to the minimum extent necessary to make it valid, legal and enforceable. If such modification is not possible, the relevant provision or part-provision shall be deemed deleted. Any modification to or deletion of a provision or part-provision under this clause shall not affect the validity and enforceability of the rest of the Contract.

13.7 Notices.

13.7.1 Any notice or other communication given to a party under or in connection with the Contract shall be in writing, addressed to that party at its registered office (if it is a company) or its principal place of business (in any other case) or such other address as that party may have specified to the other party in writing in accordance with this clause, and shall be delivered personally, sent by pre-paid first class post or other next working day delivery service, commercial courier, or email to the email address stated in the Order or Acknowledgement or otherwise notified to the other party.

13.7.2 A notice or other communication shall be deemed to have been received: if delivered personally, when left at the address referred to in clause 13.7.1; if sent by pre-paid first class post or other next working day delivery service, at 9.00 am on the second Business Day after posting; if delivered by commercial courier, on the date and at the time that the courier's delivery receipt is signed; or, if sent by email, one Business Day after transmission. 13.7.3 The provisions of this clause shall not apply to the service of any proceedings or other documents in any legal action.

13.8 Third party rights. No one other than a party to this Contract shall have any right to enforce any of its terms.

13.9 Governing law. The Contract, and any dispute or claim (including non-contractual disputes or claims) arising out of or in connection with it or its subject matter or formation, shall be governed by and construed in accordance with the law of England and Wales.

13.10 Jurisdiction. Each party irrevocably agrees that the courts of England and Wales shall have exclusive jurisdiction to settle any dispute or claim (including non-contractual disputes or claims) arising out of or in connection with this Contract or its subject matter or formation.

For more information visit iae.co.uk/terms-and-conditions





Our employees make the difference between IAE being a good, performing company and the industry leading company we are today. The dedication of our workforce has shaped who we are and enabled us to unlock areas of growth and sustainability that would have not otherwise been possible. We commit ourselves to creating a positive working environment so that everyone, irrespective of role, age, gender or years of service can be proud to work for us from the offset. We want all of our employees to have a voice, be engaged with their work and to learn about the culture of IAE so that our values will unite as one.

In recent years we have realised that the finest talent comes from within. Our comprehensive Apprenticeship scheme allows us to attract and nurture our next generation of success. The scheme has been designed to equip our apprentices with all of the education and skills they require to complete their role whilst also giving them the confidence to excel both in and out of the workplace.

T: +44(0)1782 339320
sales@iae.co.uk
Mossfield Road, Adderley Green, Longton,
Stoke-on-Trent, ST3 5BW
www.iae.co.uk



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