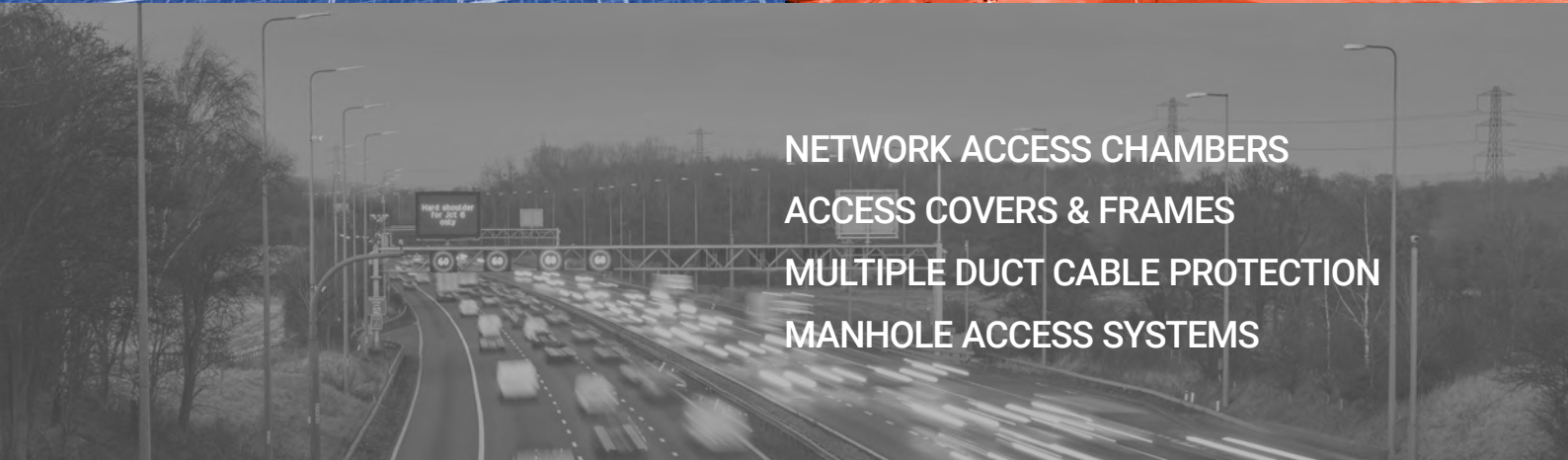




NETWORK ACCESS CHAMBERS  
ACCESS COVERS & FRAMES  
MULTIPLE DUCT CABLE PROTECTION  
MANHOLE ACCESS SYSTEMS

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# A Simple Guide to What We Offer

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Welcome to the Product Guide 25/26, your comprehensive product catalogue from Advanced Infrastructure Systems.

This guide has been created with a straightforward purpose: to serve as a clear and concise reference to our innovative product portfolio. We believe that selecting the right components for your project should be simple.

Inside, you will find detailed information on the applications and key specifications for our core product families, including EasyPIT®, ecoNOMY®, EasyGRIP®, EasyRISER®, enviro®, FORTIS®, and DURATrough®.

This brochure is a guide to what we offer. For a deeper look into our company history, project case studies, and the specific sectors we serve, please call our sales office.



## Quality & Environmental

Advanced are certified to ISO 9001:2015 and ISO 14001:2015 standards to ensure our commitment to delivering consistently high levels of quality and environmental compliance.

## Extensive Stock Holding

We hold large stocks of our utility and civil infrastructure products at our Midlands and Northern Yards. This enables us to offer rapid delivery throughout the UK and beyond.

## Pre-Built Stock

We maintain a ready supply of pre-built products in stock, ensuring immediate availability for urgent requirements. This allows us to reduce project lead times significantly and support our customers in meeting tight deadlines with confidence.

## On-Site Training and Lunch & Learn Sessions

We offer comprehensive on-site training and engaging “Lunch & Learn” sessions designed to upskill your teams. Our experts deliver practical product demonstrations and share best practices, ensuring safe, effective, and compliant use of our solutions on every project.

## Fast Delivery & Quote Turnaround

Our efficient logistics network enables us to dispatch products in full loads, part loads, or single pallets using a variety of delivery options—including curtain sided trailers, flat-beds, and crane-off services—while maintaining FORS accreditation when required. This ensures you receive the right products, on time, every time.



# Sectors

## Highways

### Keeping the UK Connected

Working with Local Authorities, Councils, and their Term Maintenance Contractors, we provide fast, strong, and lightweight access products for the UK's vital highway network.

Traffic Signal & Lighting, Motorway Communications, Highway Drainage.



## Renewables

### Supporting a Net-Zero Future

As a key supply chain partner supporting the UK's 2035 net-zero target, we deliver critical infrastructure products to the renewable energy sector.

HV/LV Chambers, Bespoke Cable Draw Pits, Multi-leaf Access Covers.



## Defence

### Security & Compliance

We provide MoD-approved access solutions for the UK's extensive defence infrastructure, fully compliant with JSP604 specifications.

Pheon Embossed Covers, Sub-cover Security Systems.





## Utilities

### Water & Wastewater

We provide critical network access solutions for the UK's water and wastewater projects. Working with leading contractors and water companies, we ensure the reliability of this essential service.

Access Chambers, Manhole Covers, Safety & Access Products



## Residential

### Building Britain's Future Homes

Partnering with developers, groundworkers, and merchants, we deliver integrated systems for the UK's growing residential civils market.

Drainage Systems, Manhole Access, Multi-utility Networks.



## Infrastructure

### Minimising Disruption on Major Projects

Collaborating with clients from design to construction, we provide a turnkey portfolio of solutions engineered to minimise disruption on large-scale infrastructure projects.

Structural Access Chambers, High-Performance Covers, Integrated Safety Systems.



# Our Brands & Table of Contents



|    |                                    |                                                                   |
|----|------------------------------------|-------------------------------------------------------------------|
| 01 | <b>Network Access<br/>Chambers</b> | EasyPIT® ULTRA EasyPIT® CONNECT B125 EasyPIT®<br>FOOTWAY ecoNOMY® |
|----|------------------------------------|-------------------------------------------------------------------|

---

|    |                      |                                                                                                                                                                                                                           |
|----|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 02 | <b>Access Covers</b> | EasyGRIP® Composite Cover and Frame<br>B125 Ductile Iron Manhole Covers and Frames D400<br>Ductile Iron Manhole Covers and Frames D400 Ductile<br>Iron Hinged Gully Gratings and Frames Fabricated<br>Steel Access Covers |
|----|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

---

|    |                       |                                                                                              |
|----|-----------------------|----------------------------------------------------------------------------------------------|
| 03 | <b>Manhole Access</b> | EasyRISER® Modular Ladder System<br>Manhole Safety Chain and Fixings GRP Manhole<br>Handrail |
|----|-----------------------|----------------------------------------------------------------------------------------------|

---

|    |               |                                                                          |
|----|---------------|--------------------------------------------------------------------------|
| 04 | <b>Enviro</b> | enviroPOST® Recycled Plastic Marker Post<br>enviroSLAB® Horseshore Gully |
|----|---------------|--------------------------------------------------------------------------|

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|    |                     |                                                               |
|----|---------------------|---------------------------------------------------------------|
| 05 | <b>Duct Systems</b> | FORTIS® Multiple Duct System<br>DURATrough® GRP Trough System |
|----|---------------------|---------------------------------------------------------------|

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# EasyPIT<sup>®</sup> ULTRA

Engineered for the demands of modern infrastructure

# Structural Integrity for Carriageway & Footway



The EasyPIT® ULTRA duct access chamber system is a quick-build, structural alternative to traditional concrete or brick-built chambers. Designed for versatility, each 150mm deep ring can be stacked to achieve any required depth, creating a completely load-bearing chamber suitable for both footway and carriageway environments. Its inherent strength often eliminates the need for a concrete surround, saving valuable time and resources on site.

## 100% Recycled

UK manufactured from highly durable polypropylene, the system is lightweight and easy to handle, reducing health and safety risks for personnel.

## Structural Design

The twin-wall design features internal support ribs that provide inherent strength, tested to BSEN124 D400 loadings.

## Superior Load Transfer

The twin-wall design provides a full bedding area for any access cover and frame, ensuring effective transfer of loads through the chamber structure.

## Versatile & Adaptable

Chambers can be easily drilled on-site for duct entries or can be ordered with pre-drilled entries. The system is ideal for use as cable drawpits, valve chambers, Rail UTX chambers, and Highway MCX chambers.

## Rapid Installation

Each 150mm deep ring can be simply stacked on top of another to complete the chamber, speeding up installation times.

## Accessories

- Ductile Iron MHC&F
- Composite MHC&F
- Fabricated Steel MHC&F
- Cable Management Equipment
- Bolt-On Step Irons
- Pre-drilled Duct Entries/Exits

# Specifications

The EasyPIT® ULTRA system is available in a vast range of industry-standard clear opening sizes to meet any project requirement.

| Reference   | Clear Opening (mm) | Depth (mm) |
|-------------|--------------------|------------|
| EPIT3030D   | 300X300            | 150        |
| EPIT4530D   | 450x300            | 150        |
| EPIT4545D   | 450x450            | 150        |
| EPIT6045D   | 600x450            | 150        |
| EPIT6060D   | 600x600            | 150        |
| EPIT7560D   | 750x600            | 150        |
| EPIT7575D   | 750x750            | 150        |
| EPIT9045D   | 900x450            | 150        |
| EPIT9060D   | 900x600            | 150        |
| EPIT9090D   | 900x900            | 150        |
| EPIT12060D  | 1200x600           | 150        |
| EPIT12067D  | 1200x675           | 150        |
| EPIT12075D  | 1200x750           | 150        |
| EPIT12090D  | 1200x900           | 150        |
| EPIT120120D | 1200x1200          | 150        |
| EPIT150150D | 1500x1500          | 150        |
| EPIT180180D | 1800x1800          | 150        |

\*A large range of other bespoke sizes are also available.



# EasyPIT<sup>®</sup> CONNECT

Strength and simplicity, connected.



# High-Strength Chambers for Ducted Networks



The EasyPIT® CONNECT system offers a high-strength, structural alternative to traditional brickbuilt chambers and rotationally moulded liners. Primarily used within the Traffic Signal and Street Lighting sectors, these chambers are designed as both a duct entry and riser section in one, simplifying ordering and on-site assembly. The innovative Clip-Connect® joining system allows chambers to be configured and assembled quickly and securely.

## Structural Design

The system is a totally structural and free-standing chamber that does not require a concrete surround for most applications.

## Efficient Assembly

The Clip-Connect® joining system allows for easy push-fit, stackable construction.

## Integrated Design

The unit is designed as both a duct entry and riser section in one, with 110mm duct entry knockouts that can be removed on-site as needed.

## High Performance

Independently tested to C250 loadings, the system can also be used for D400 applications when installed according to our guidelines.

## Durable & Eco-Friendly

Manufactured from high-strength polypropylene, these chambers are lightweight, extremely durable, and environmentally friendly





Available with a uniform depth of 150mm for modular construction.

| Product Code  | Size (mm) |
|---------------|-----------|
| EPITCON3030   | 300x300   |
| EPITCON4530   | 450x300   |
| EPITCON4545   | 450x450   |
| EPITCON6045   | 600x450   |
| EPITCON6060   | 600x600   |
| EPITCON7560   | 750x600   |
| EPITCON7575   | 750x750   |
| EPITCON9045   | 900x450   |
| EPITCON9060   | 900x600   |
| EPITCON9090   | 900x900   |
| EPITCON12060  | 1200x600  |
| EPITCON12067  | 1200x675  |
| EPITCON12075  | 1200x750  |
| EPITCON12090  | 1200x900  |
| EPITCON120120 | 1200x1200 |

\*A range of other bespoke sizes are also available; please contact us for details.

## A Key Structural Advantage

Unlike traditional rotationally moulded chambers that require a full concrete surround to achieve B125 loadings, EasyPIT® CONNECT is a totally structural, free-standing chamber. This design eliminates the need for concrete backfill in most applications, significantly reducing installation costs and times.

## Accessories



Anti Skid  
Composite  
Covers



D400 EasyPIT®  
Chambers



**EasyPIT<sup>®</sup> FOOTWAY**

# Non-Structural Access for Footway & Verge Applications



The EasyPIT® FOOTWAY chamber system is a light-duty, pre-formed access product for underground buried networks. The chamber is ingeniously designed in three interlocking panels that combine to form five different size variants, each with an effective depth of 300mm. For deeper installations, the chambers are easily stackable and feature pre-formed duct entry positions for simple connection to duct work.

## B125 Loading Capable

The chamber is suitable for B125 applications when installed with the specified concrete surround

## Recycled Material

It is injection moulded from 100% recycled polypropylene.

## Modular & Stackable

The system achieves multiple chamber sizes in 300mm depths and features an interlocking and stacking design.

## Versatile Duct Entry

Panels have pre-marked duct entry positions ranging from 63mm to 178mm.

## Superior Stability

The diamond external wall design allows concrete surround to flow into voids, adding stability and structural strength.

## System Compatibility

Chambers are completely compatible with the EasyGRIP® range of composite access covers and frames.



EasyPIT® FOOTWAY chambers are available in five standard sizes and are compatible with the corresponding EasyGRIP® access covers.

# Specifications

| Product Code | Size (mm) | EasyGRIP Ref |
|--------------|-----------|--------------|
| EPF3030N     | 300x300   | CC3030BGALV  |
| EPF4530      | 450x300   | CC4530BGALV  |
| EPF4545N     | 450x450   | CC4545BGALV  |
| EPF6045N     | 600x450   | CC6045BGALV  |
| EPF6060N     | 600x600   | CC6060BGALV  |

## Critical Installation Requirement for B125 Loading

For B125 applications, the chamber should be installed onto a compacted base specified by the client and with a 100mm C20 concrete surround. Once installed correctly, the chambers meet the Highway regulation for minimum depth of cover in footway and verge applications.



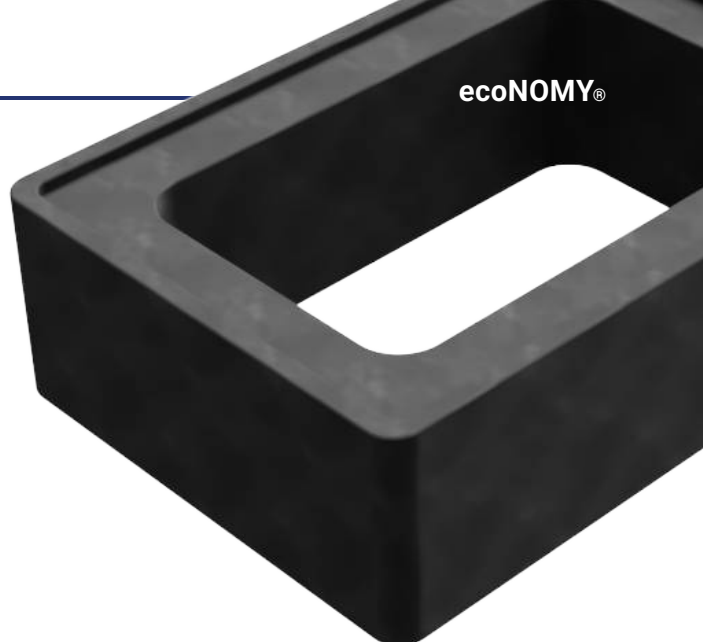


# economy<sup>®</sup>

Recycled plastic structural chambers for utility infrastructure applications



# The Eco Friendly Alternative to Concrete Chambers



The market leading ecoNOMY® chamber system is a one-piece, compression-moulded product designed to provide a durable and environmentally friendly alternative to traditional pre-cast concrete. Predominantly used by utilities for valve, hydrant, and meter chambers, this system offers unparalleled strength and resilience. Manufactured from UK sourced 100% recycled post industrial PVC processed in-house, ecoNOMY® represents a significant step forward in sustainable infrastructure solutions.

The ecoNOMY® chamber system has been independently tested to BS EN124:2015 D400 loadings and is fully compliant with BS 5834-4:2011.

## Environmentally Friendly

UK manufactured from 100% recycled post-industrial PVC that would otherwise be destined for landfill.

## Lightweight & Safe

It is far lighter than concrete, massively reducing health and safety implications for site personnel during handling and installation.

## Extremely Durable

The ecoNOMY® system **will not crack, shatter, or break** during transportation, storage, or installation, a common issue with brittle concrete alternatives. It is also frost proof to -25°

## SV Chambers

Predominantly used for sluice valves or stop tap chambers with three sizes: 150x150mm, 180x180mm and 230x230mm.

## Standard Chambers

Used for fire hydrants, washouts, air valves, and meter chambers with two main sizes used; 430x280mm and 380x230mm

## Larger Chambers

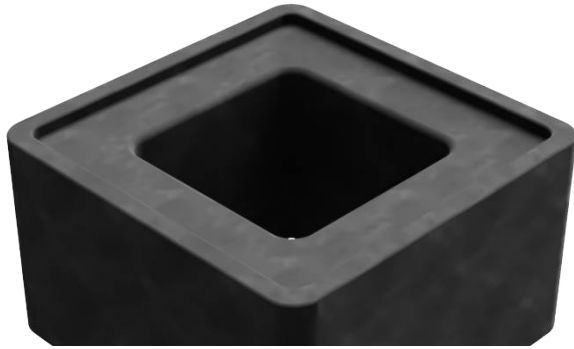
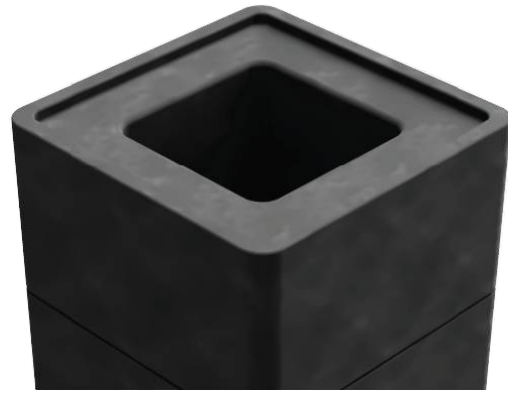
Used for larger valve applications such as air valve or pressure reducing valves where greater working space is required. These chambers are available in 600x450mm, 900x600mm, 1200x675mm, 1200x750mm and 1200x900mm.

## Application

Chambers work in conjunction with frame levelling systems. (Install Plus, Elev8 & Screwlift)

## Standards & Certifications

- ISO 9001:2015 Quality Control Process
- ISO 14001:2015 Environmental Management Accredited
- Achilles UVDB Registered



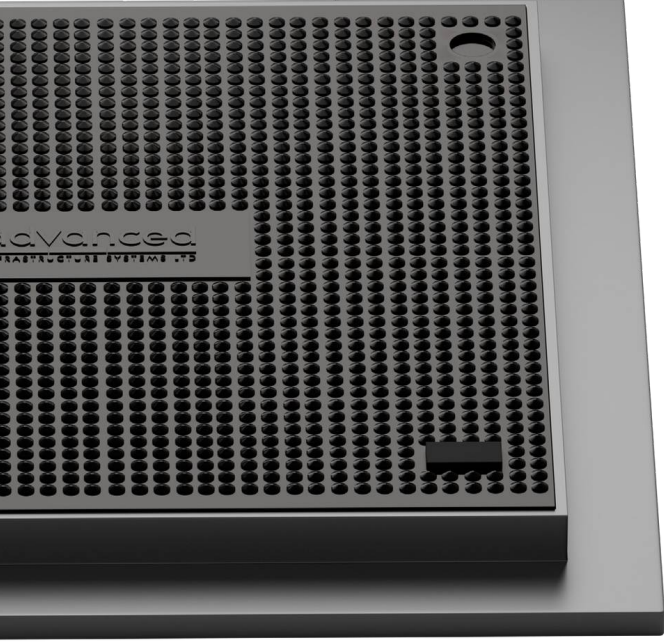
# Specifications

## Product Code Size (mm)

|          |             |
|----------|-------------|
| ECO1     | 150x150x75  |
| ECO3.2   | 180x180x25  |
| ECO3     | 180x180x75  |
| ECO5     | 230x230x75  |
| ECO16.25 | 380x230x25  |
| ECO16.5  | 380x230x50  |
| ECO16    | 380x230x75  |
| ECO7.25  | 430x280x25  |
| ECO7.5   | 430x280x50  |
| ECO7     | 430x280x75  |
| ECO8     | 430x280x150 |
| ECO9.2   | 600x450x25  |
| ECO9     | 600x450x75  |
| ECO11.2  | 900x600x25  |
| ECO11    | 900x600x75  |

## Product Code Size (mm)

|                    |                                                     |
|--------------------|-----------------------------------------------------|
| ECO12              | 900x600x150                                         |
| ECO13              | 1200x675x75                                         |
| ECO13.10           | 1200x675x100                                        |
| ECO14              | 1200x750x100                                        |
| ECO15              | 1200x900x100                                        |
| ECOBASE1           | ECONOMY BASE UNIT TO SUIT<br>150x150                |
| ECOBASE4           | ECONOMY BASE UNIT TO SUIT<br>230x230                |
|                    | ECONOMY BASE UNIT TO SUIT<br>430x280 -CENTRAL       |
| ECOBASE2<br>CENSPL | ECONOMY BASE UNIT TO SUIT<br>430x280 -CENTRAL SPLIT |
| ECOBASE2<br>OFF    | ECONOMY BASE UNIT TO SUIT<br>430x280 -OFFSET        |
| ECOBASE2<br>OFFSPL | ECONOMY BASE UNIT TO<br>SUIT 150x150                |
| ECOBASE2<br>FULL   | ECONOMY BASE UNIT TO SUIT<br>430x280 - FULL         |
| ECOBASES           | ECONOMY BASE UNIT TO SUIT<br>600x450                |
| ECOTOPHAT          | ECONOMY TOP HAT UNIT                                |
| 2TST.600           | 225x600 TWINWALL FOR<br>TOP HAT                     |



# EasyGrip®

Recycled plastic structural chambers for utility infrastructure applications

# Secure, Anti-Slip Access for Low Traffic Areas

EasyGRIP® composite anti-skid access covers are the perfect solution for footways, pedestrian areas, and all other lowtraffic applications where safety and durability are paramount. Their innovative design provides a lightweight, maintenancefree alternative to traditional covers without compromising on strength.



## Anti-Slip Finish

The surface provides exceptional skid resistance, ensuring safety for pedestrians and cyclists. Independent tests yielded a low slip potential.

## Zero Scrap Value

Unlike metal covers, the composite material has no inherent scrap value, eliminating the risk of theft.

## Lightweight yet Durable

The material is easy to handle and install yet robust enough to withstand the rigours of its environment.

## Resistant to Chemicals

The cover is resistant to chemicals, ensuring a long and maintenance-free service life.

## Secure Installation

The frame is made from galvanised steel and covers are locked with countersunk slotted screws for security.

## Ideal Applications

Traffic Signals  
Street Lighting  
Telecommunications  
CCTV  
Valve & Meter Pits  
Drainage

## Compliance & Safety

### Load Testing

All EasyGRIP® covers are tested to BSEN124 B125 loadings.



# Specifications

The EasyGRIP® access cover is available in a wide range of standard sizes both standard and extra deep “High Top” frame options.



| Product Code | Size (mm) |
|--------------|-----------|
| CC3030       | 300x300   |
| CC4530       | 450x300   |
| CC4545       | 450x450   |
| CC6045       | 600x450   |
| CC6060       | 600x600   |
| CC7575       | 750x750   |
| CC9045       | 900x450   |
| CC9060       | 900x600   |
| CC9090       | 900x900   |
| CC12045      | 1200x450  |
| CC12060      | 1200x600  |
| CC12090      | 1200x900  |
| CC120120     | 1200x1200 |
| CC15075      | 1500x750  |

\*A range of other bespoke sizes are also available; please contact us for details.

# Access Covers & Frames



# D400 Hinged & Double Triangular Covers

## Heavy-Duty Performance for Carriageways and High-Traffic Zones

Engineered for the most demanding environments, the D400 Double Triangular Manhole Covers provide safe and secure access in main roads and highways.

The double triangular design ensures a non-rock, stable fit, preventing movement under heavy and fast-moving traffic.

### Application

For use in all areas where cars and lorries have access, including main carriageways, hard shoulders, and pedestrian areas.

Capable of withstanding a 40-tonne test load.



## Specifications

| Product Code                   | Clear Opening (mm) | Over Frame (mm) | Frame Depth (mm) |
|--------------------------------|--------------------|-----------------|------------------|
| MHD454510KM                    | 450x450            | 562x562         | 100              |
| MHD604510KM                    | 600x450            | 712x562         | 100              |
| MHD606010KM                    | 600x600            | 712x712         | 100              |
| MHD606015KM                    | 600x600            | 712x712         | 150              |
| MHD676710KM                    | 675x675            | 786x786         | 100              |
| MHD676715KM                    | 675x675            | 786x786         | 150              |
| MHD757510KM                    | 750x750            | 855x855         | 100              |
| MHD906010KM (Twin Single Seal) | 900x600            | 1030x730        | 100              |
| MHD909010KM                    | 900x900            | 1030x1030       | 100              |
| MHD126710KM                    | 1220x675           | 1370x811        | 100              |
| MHD126715KM                    | 1220x675           | 1370x811        | 150              |

# B125 Solid Top Manhole Covers

## Built for Reliability in Pedestrian and Light Traffic Areas

Our B125 Solid Top Manhole Covers and Frames are engineered from high-strength ductile iron to deliver a dependable and durable access solution.

### Application

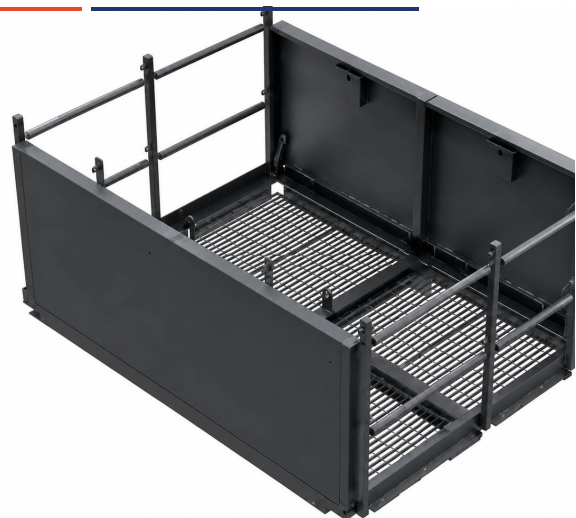
Ideal for use in car parks and pedestrian areas where occasional and slow-moving vehicle access is likely.

Capable of withstanding a 12.5-tonne test load.



| Product Code                | Clear Opening (mm) | Over Frame (mm) | Frame Depth (mm) |
|-----------------------------|--------------------|-----------------|------------------|
| MHB4545KM                   | 450x450            | 535x535         | 40               |
| MHB6045KM                   | 600x450            | 685x535         | 40               |
| MHB6060KM                   | 600x600            | 685x685         | 45               |
| MHB7560KM                   | 750x600            | 775x775         | 75               |
| MHB7575KM                   | 750x750            | 870x870         | 50               |
| MHB9060KM                   | 900x600            | 1020x720        | 75               |
| MHB9090KM                   | 900x900            | 1020x1020       | 75               |
| MHB1267KM(Twin Single Seal) | 1200x675           | 1320x775        | 50               |

# Fabricated Steel Access Covers



A full offering of fabricated mild steel access covers and bespoke solutions for domestic, commercial and utility applications. Covers are supplied galvanised to BS 1461, from pedestrian use up to heavy duty vehicle loadings (44T GPW).

## Quality Assurance

Our partners operate to a ISO:9001:2015 Quality Management System and also hold certification to ISO 45001, 18001 and BS EN 1090 along with a range of Kitemarked products.

## High Performance Material

Mild steel covers offer many advantages over other materials due to the fact that it can be manufactured to almost any size, configuration and industry loading requirement and to relatively tight timescales.

## Superior Flexibility

The design options are endless when it comes to clear openings and sizes. With solid top, recessed, hinged, locking and sealed cover products available, bespoke fabricated steel access covers can be supplied to project specific designs and deadlines.

## Options

- Solid Top
- Recessed for Blocks
- Recessed for Infil
- Deep Recessed
- Hinged
- Spring Assist Lift
- Lock & Lift
- Single Seal
- Double Seal
- Plain Seated
- Double Neoprene Seal
- Safety Grill
- Badged Options
- Locked

## Accessories



**EasyRISER®  
Manhole  
Ladders**



**Chain &  
Shackles**



**D400 and  
B125 EasyPIT®  
Chambers**

| FACTA Loading | EN124 Loading | S.M.W.L       |
|---------------|---------------|---------------|
| A             | A15           | 0.6T (5kN)    |
| AA            |               | 1.5T (15kN)   |
| AAA           |               | 2.5T (25kN)   |
| B             | B125          | 5.0T (50kN)   |
| C             | B125          | 6.5T (65kN)   |
| D             | D400          | 11.0T (108kN) |
| E             | E600          | 16.0T (158kN) |
| F             | F900          | 24.0T (237kN) |



# FORTIS<sup>®</sup> Multiple Duct System

# High-Strength, Lightweight Ducting for Buried Networks

## FORTIS® Multiple Duct System

The FORTIS® Multiple Duct System is a rigid, structural ducting solution designed for the protection of High Voltage (HV) and Low Voltage (LV) power cables, telecommunication cables, and water pipes. UK manufactured from highstrength, recycled polyethylene, FORTIS provides a durable, lightweight, and cost-effective alternative to traditional ducting methods.

Its innovative design features a simple yet highly effective push-fit joint, making it fast and easy to install while maintaining alignment and preventing silt ingress. The system's inherent strength eliminates the need for concrete backfill in most applications, delivering significant savings on installation time and material costs.

### Under Train Rails

In railways, FORTIS ducts secure and shield signaling and communication cables from vibration, impact, and moisture common to trackside environments.

### Trackside Cabling

Plastic ducts are also installed alongside train tracks to route various types of cables securely, protecting them from environmental elements and maintenance operations.

### Fast & Simple Installation

The push-fit jointing system allows for rapid assembly on-site without the need for specialist tools or equipment.

### Sustainable Solution

Manufactured from highstrength, recycled polyethylene, making it an environmentally friendly choice.

### Road and Highway

These ducts can be embedded below roadways to protect power or fiber optic cables from the weight and vibration caused by heavy traffic.

# Specifications

## Fast & Simple Installation

The push-fit jointing system allows for rapid assembly on-site without the need for specialist tools or equipment.



## Lightweight & Safe

FORTIS® is significantly lighter than traditional concrete or clay ducts, reducing transport costs and health and safety risks for site personnel.

The system is independently tested to UK Loading requirements.

| Product  | Length (mm) | Outer (mm) | Inner (mm) | Weight (kg) |
|----------|-------------|------------|------------|-------------|
| 4 Way    | 1065        | 248×248    | 206×206    | 7.3         |
| 4 Way XL | 1065        | 348×348    | 306×306    | 16.5        |
| 6 Way    | 1065        | 348×248    | 306×206    | 11          |
| 9 Way    | 1065        | 348×348    | 306×306    | 17.7        |

Dimensions from 252 - 376 mm FORTIS® combined with EasyPIT chamber systems offers the end users with a buried network solution across multiple sectors.

4 WAY

6 WAY

4 WAY XL

9 WAY





# EasyRISER<sup>®</sup>

## Modular Ladder System



# Safe, Lightweight & Corrosion-Free Ladders

Standard ladders can be supplied flat-pack for self-assembly on-site or ready-assembled to projectspecific lengths to streamline installation.

## Significant Weight Reduction

Weighing approximately 6kg per linear metre, the ladders are 70% lighter than galvanised and stainless steel alternatives, massively reducing Health & Safety risks for contractors.

The EasyRISER® modular man-hole ladder system is a UKCA CE marked solution developed to provide an “exstock” product for Storm, Foul, and Potable water ladder applications. Each module consists of two stiles, two rungs, and four rung wedges, allowing for ultimate flexibility.

## Fully Tested & Compliant

The system is fully tested to BSEN14396, ensuring it meets stringent industry safety standards.

## Economic Transport

The modular design allows for transportation over long distances far more economically than fully assembled ladders.

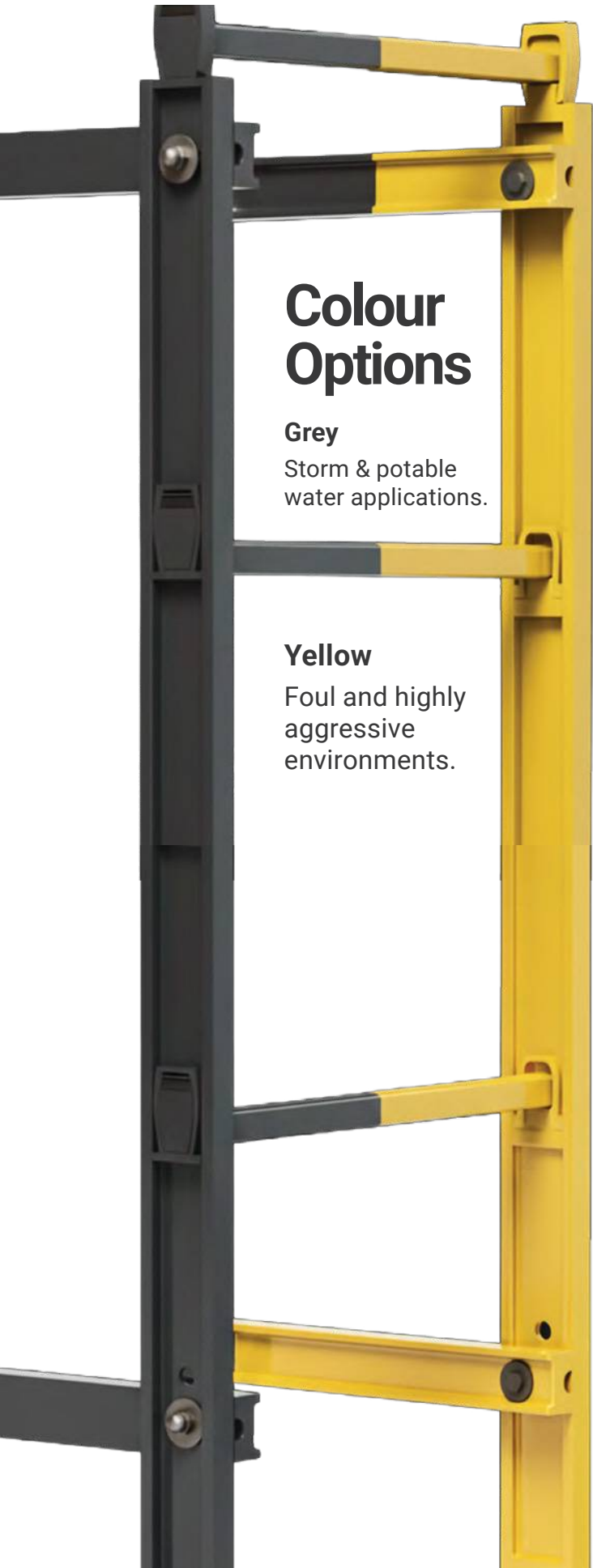
## Industry Approved

The EasyRISER® is widely used and specified throughout the UK by most water utilities, including Severn Trent Water, Scottish Water, Unite Utilities, Wessex Water, Anglian Water, Thames Water, South West Water and Northumbrian Water.

## Superior Performance

The composite material offers excellent insulation properties and superior performance compared to traditional steel alternatives.





## Colour Options

**Grey**  
Storm & potable water applications.

**Yellow**  
Foul and highly aggressive environments.

# Technicals

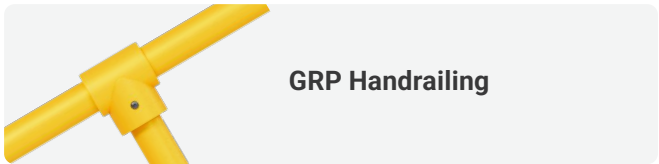
### PRODUCT DIMENSIONS

|                        |       |
|------------------------|-------|
| Stile Length           | 685mm |
| Stile Width            | 72mm  |
| Stile Thickness        | 32mm  |
| Ladder External Width  | 435mm |
| Ladder Internal Width  | 380mm |
| Rung Diameter          | 30mm  |
| Rung Spacing (centres) | 300mm |

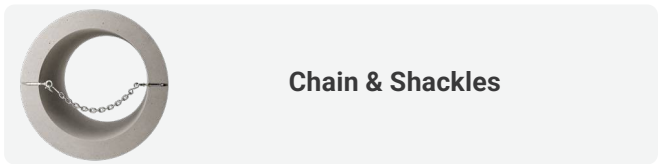
Fixing brackets supplied with standard 250mm long brackets that suit both flat and radius chamber walls.

Brackets can also be shortened to 190mm and 100mm lengths.

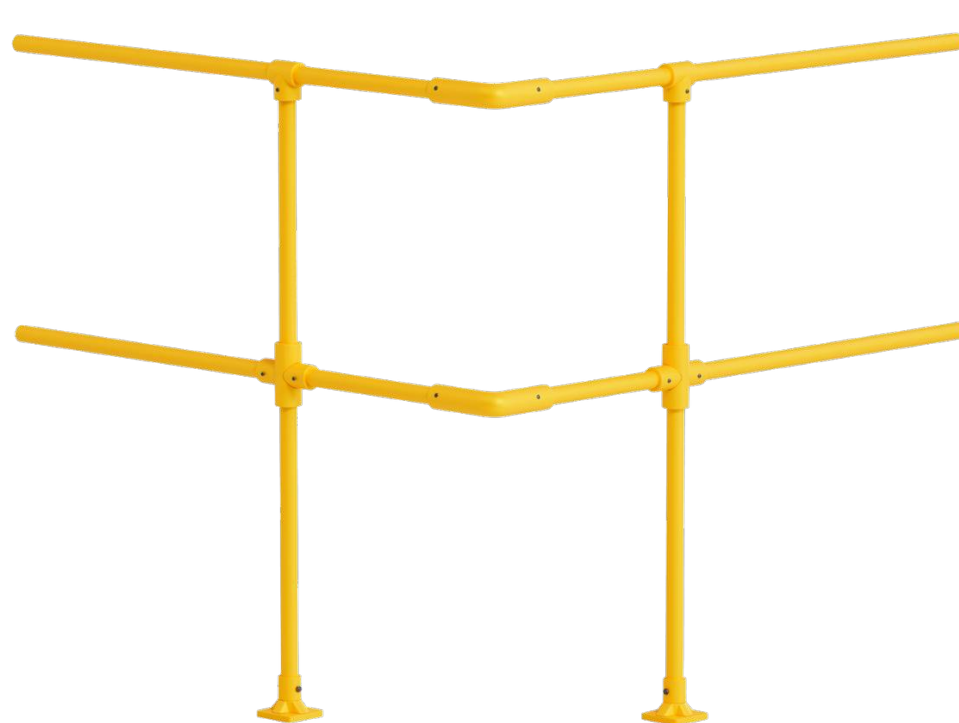
### Accessories



GRP Handrailing



Chain & Shackles



# GRP Handrails

## Modular, Safe, and Durable Guarding for Any Environment

Advanced Infrastructure's GRP (Glass Reinforced Plastic) Handrail System is a versatile and cost-effective alternative to traditional steel products.

Designed for stairways, walkways, and machinery guarding, this modular system is suitable for all industrial and commercial environments.

## Key Advantages

### Rapid Installation

Traditionally, handrails were fabricated from galvanised mild steel or stainless steel which had extended fabrication lead times. GRP modular handrail is available off the shelf and can be supplied in a matter of days.

### Independent Testing

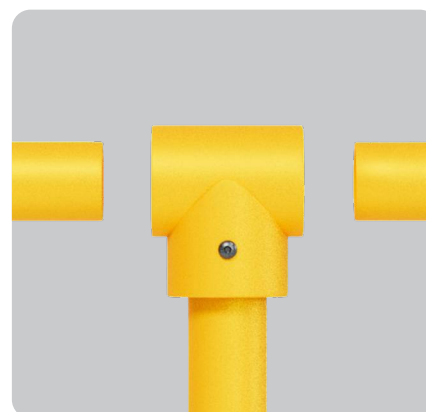
Handrail has passed independent testing and was determined to comply with BS4592:0 2006+A1 20212 Industrial flooring, stairs and handrails for general duty (0.36kN/m)

### Fittings

The sections are joined using moulded fittings which are then connected to the tube using stainless steel bolts. The wide range of connectors in our range means that handrails can be installed quickly and easily in a variety of applications.



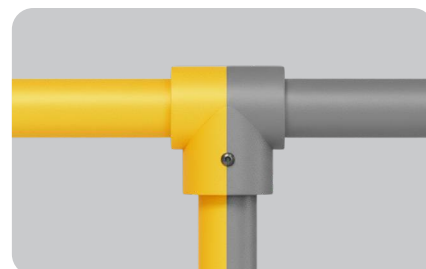
Side fitting is achieved using anti-crush tubes to prevent damage.



The system is composed of a Toprail, Midrail, Posts, and Kickplate.



'Box Feet' are available to fix the handrail down to a concrete floor.



The system is available in Grey and Yellow and is designed to comply with current safety standards.

# Manhole Safety Chains & Fixings

## A Critical Lifeline for Confined Space Safety

Manhole safety chains are an essential safety feature, predominantly used when outflow pipes are greater than 600mm. They provide a vital lifeline to a worker, should they accidentally fall into the outflow pipe while inside the chamber.

## Features & Compliance

### Industry Compliant

Fully compliant with WRc Sewers for Adoption, 7th Edition & Sewers for Scotland 3rd Edition.

### Water Industry Specification

Meets requirements set out in the Civil Engineering Specification for the Water Industry (CESWI) 7th Edition.

### Ready to Install

Supplied in an assembled “kit” form for speed of installation. Kits include a stainless steel chain, carabiner clip, eye-nuts, and M12x100mm thru-bolts.

### Operational Flexibility

Using the carabiner clip and eye-nuts, the chains can be lowered into the outflow pipe during maintenance work

### Premium Material

Manufactured from Grade 316 Stainless Steel for maximum corrosion resistance.

### Compatible Accessories

EasyRISER®  
Manhole Ladder  
Retractable Handhold  
GRP Manhole Handrail



| Pipe Diameter                 | Orientation |
|-------------------------------|-------------|
| 525mm                         | CHAIN-525   |
| 600mm                         | CHAIN-600   |
| 675mm                         | CHAIN-675   |
| 750mm                         | CHAIN-750   |
| 900mm                         | CHAIN-900   |
| 1050mm                        | CHAIN-1050  |
| 1200mm                        | CHAIN-1200  |
| 1350mm                        | CHAIN-1350  |
| 1500mm                        | CHAIN-1500  |
| 1800mm                        | CHAIN-1800  |
| *Additional lengths available |             |



# Enviro<sup>®</sup> Products

100% recycled infrastructure systems



# enviroPOST®

## The Sustainable and Durable Choice for Marking Buried Services

The enviroPOST® is an environmentally friendly alternative to traditional precast concrete marker posts, designed for utilities to clearly identify and locate buried services. Manufactured from 100% recycled plastic, it offers superior durability and eliminates the breakages commonly associated with concrete products, providing a sustainable solution without compromising on strength.

### ZERO Breakages

While precast concrete products are prone to breakages during transport and storage, the enviroPOST® provides a product that is not only inherently strong but is also highly durable and will not crack, break, or shatter.

### High-Performance Recycled Material

The enviroPOST® is manufactured from 100% recycled post-consumer plastics, including polypropylene (PP) and polyethylene (PE, LDPE & HDPE), which were ultimately destined for landfill.

### Superior Flexibility & Handling

At 1200mm in length, the enviroPOST® can be cut onsite to smaller lengths if required using a standard hand saw. Weighing just 7 kgs, it is significantly lighter than concrete alternatives, providing reduced Health & Safety implications for site personnel.

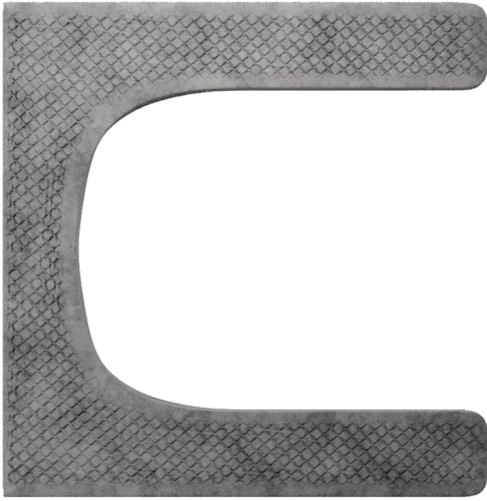
### Quality Assurance

Production takes place in an approved ISO9001 and ISO14001 manufacturing facility, ensuring the highest standards of quality.

### PRODUCT DIMENSIONS

|           |        |
|-----------|--------|
| Length    | 1200mm |
| Width     | 260mm  |
| Thickness | 95mm   |
| Weight    | 7 kgs  |





# enviroSLAB®

## 450mm Horseshoe Gully Slab

### The Strong, Sustainable, and Safe Gully Cover Solution

The enviroSLAB® is a 100% recycled plastic gully cover slab designed for use on top of 450mm diameter gullies. As an environmentally friendly alternative to traditional concrete or brickwork, the enviroSLAB® is manufactured from post-industrial PVC that was destined for landfill. It offers a lightweight yet robust solution that is tested to D400 loading requirements, making it suitable for highway applications.

## Benefits of enviroSLAB®

### Superior Strength

Tested to BSEN124 D400 loading requirements and exceeds BS 5911-6 loading requirements.

### Improved Adhesion

Features a crosshatch surface area for greater mortar adhesion between the frame and the gully slab.

### Enhanced Stability

The slab sits flush with the kerb for greater grating stability.



### PRODUCT DIMENSIONS

|           |       |
|-----------|-------|
| Length    | 600mm |
| Width     | 650mm |
| Thickness | 100mm |
| Hole Size | 450mm |

# Standard & Certifications

## Understanding BS EN 124 Load Ratings

In the UK, the applicable British Standard for access covers and gully grates is BS EN 124:1994. This standard provides a clear framework by dividing access covers and gully grates into a number of classes based on their static test load.

It also categorises the various places where they may be installed into installation “Groups,” from the least demanding (Group 1) to the most demanding (Group 6), and provides guidance on the minimum class to be used for each installation group.

| Class | Test Load   | Group   | Application / Use Area                                                                                             |
|-------|-------------|---------|--------------------------------------------------------------------------------------------------------------------|
| A15   | 1.5 tonnes  | group 1 | for use in areas where only pedestrians and cyclists have access.                                                  |
| B125  | 12.5 tonnes | group 2 | for use in car parks and pedestrian areas where occasional vehicle access is likely.                               |
| C250  | 25 tonnes   | group 3 | for use in kerbside channels of roads, not extending more than 500mm into the carriageway.                         |
| D400  | 40 tonnes   | group 4 | for use in areas where cars and lorries have access, including carriageways, hard shoulders, and pedestrian areas. |
| E600  | 60 tonnes   | group 5 | for use in areas where heavy wheel loads are imposed, such as loading areas, docks, or aircraft pavements.         |
| F900  | 90 tonnes   | group 6 | for use in areas where very heavy wheel loads are imposed, such as aircraft pavements.                             |

## What is BSEN14396

This standard applies to permanently fixed ladders in manholes. It specifies the performance criteria for the mechanical stability and resistance providing protection against falling and used within Sewers for Adoption and CESWI regulations.

The ladders specified in this European Standard are suitable for use in sewage, rainwater, surface water and, subject to the requirements of national regulations, potable water environments.

## Who are FACTA

The Fabricated Access Covers Trade Association (FACTA), is a UK-based group for manufacturers. The FACTA standard is an industry specification for covers made from a variety of materials, which is often used for pedestrian areas, driveways, and slow-moving vehicle areas.

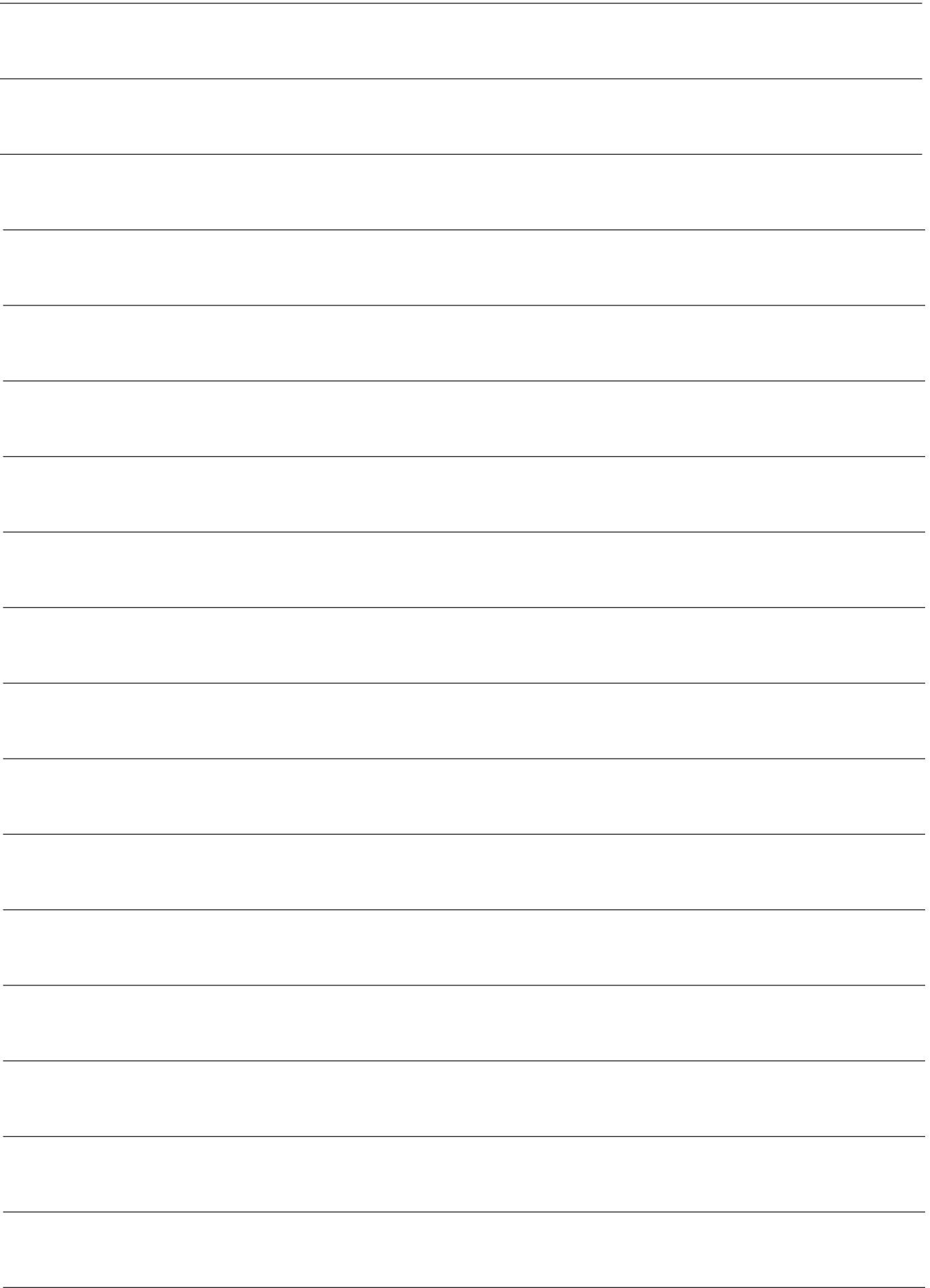
These covers offer more flexible designs and often have stricter testing requirements for deflection and fatigue than the older BS EN 124 standard.



## ISO Management

We are fully certified to ISO 9001 Quality Management and ISO 14001 Environmental Management systems.

We operate a policy of continuous improvement for customers, employees and our environmental practices. In addition, where required, our products are fully compliant with both the new UK Conformity Assessment (UKCA) mark, and Conformité Européenne (CE) mark.





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## CONTACT US

Advanced Infrastructure Systems Ltd  
Shropshire House, Hortonwood 1  
Telford, Shropshire, TF1 7GN  
United Kingdom

Tel: +44 (0) 1952 504288

Email: [sales@advancedinfrastructure.com](mailto:sales@advancedinfrastructure.com)

Since 2007, we have been supplying network access chamber systems, access covers & frames, manhole ladders and recycled plastic drainage products to the global infrastructure industry.

Working alongside national and independent merchant groups, Distribution Partners, Tier 1 and sub-contract civil engineers to end users and asset owners, we provide high performance product solutions to improve on traditional installation methods and materials.

Combining a vast industry knowledge, a continuous product R&D programme and ISO9001:2015 and ISO14001:2015 certification, ensures we deliver the correct products to an increasingly demanding marketplace.

Our socially responsible business ethics and excellent customer service continue to define us as a market leading supplier with a global reach.