



ej

Product Catalogue



Norinco UK is now EJ

Our presence in the UK dates back many years.

Originally the Norinco range of ductile iron products were distributed by Selflock Access Covers & Gratings Limited based in Doncaster, South Yorkshire. Selflock's emphasis on quality and innovation rendered them unique among access cover manufacturers in the UK, resulting in products that attained the highest British and European standards. Prestigious projects throughout the UK such as the new Wembley stadium, various RAF bases and Manchester Airport, specified the Norinco range, including the internationally acclaimed Solo range of hinged covers, the new Hinged Hatches or the Ermatic range of modular access solutions.

In January 2012 EJ Group companies; Norinco in Europe, Cavanagh in Ireland, East Jordan Iron Works in the USA, Havestock in Australia and McCoy in Canada became one brand EJ.

Our family heritage and legacy have been the cornerstones of our journey.

EJ designs, manufactures and distributes access solutions for water, sewer, drainage, telecommunications and utility networks worldwide.

EJ is not just a manufacturer, we are a solutions provider to our industry. We specialise in major civil engineering, industrial projects including Airports and Ports. We pride ourselves on our customer relationships, consultative practices and through understanding your challenges and requirements offer you a range of F900 products that is unparalleled in the market.

We create exceptional solutions to meet your needs.

EJ is a family business; safety and environmental considerations are at the core of our manufacturing process. Our commitment to you is that we will continue to create ingenious customer-orientated solutions that improve people's lives.

We will do that in ways that are smarter, greener and safer than ever before.

We look forward to working with you.

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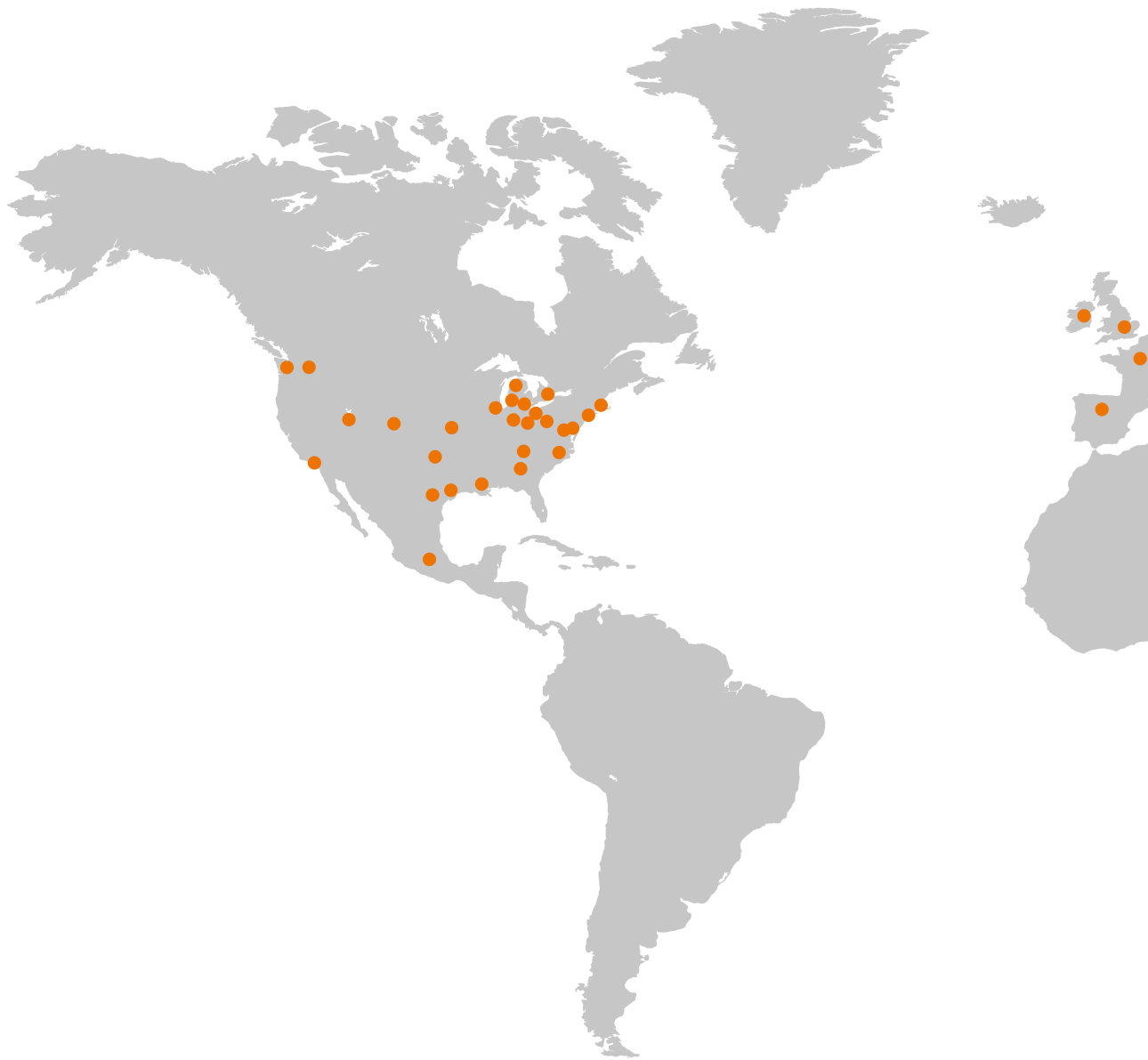


For over 125 years, we have fostered strong relationships around the world.

Ingenuity and craft.
Integrity and heart.

With ingenuity and craft, we have shaped molten iron into products that serve as the infrastructure of neighbourhoods, villages and cities. With integrity and heart, we have responded to our customers' needs and expectations and built names for ourselves: East Jordan Iron Works, Cavanagh, Norinco, McCoy, and Havestock.

Our family heritage and legacy have been the cornerstone of our journey and our inspiration to grow.



**Shared commitment.
Common bond.**

We've been on parallel paths: committed to creating the best infrastructure access solutions for our customers and backing them with unparalleled customer care. This commitment is our common bond. It melts distance, cultures and language. It's what strengthens us as a company under our new name EJ.

Together, we are the world leader in the design, manufacture and distribution of access covers and gratings for water,

sewer, drainage, telecommunications and utility networks.

**Global expertise.
Local understanding.**

As a worldwide company, we excel at serving our customers by leveraging our global and local strengths. To ensure every customer benefits from our global learning we collaborate across departments. From Design to Manufacture, Research to Customer Care · from North America to France, Australia to Ireland · we share facts, data and developments across all disciplines.



This expertise includes the intelligence we gain through in-house research, on-road testing, and through participation in standards committees around the world. Our research and collaboration give us the edge in creating the best infrastructure solutions available—solutions that lead the industry, act as best-in-class benchmarks, and satisfy the most demanding customer expectation.

Our distribution network, manufacturing facilities, and highly developed understanding of local cultures and

standards puts us in a perfect place to back our solutions with knowledgeable and responsive customer service. Our modern, regional production capabilities put inventories within quick reach of our customers. The result: Our customers have unrivalled access to innovations, inventories and service in the field.

Our people: our core strength.

Along with our distributors and agents, we take pride in what we do. We are honest and genuinely committed to creating and maintaining real, long-lasting relationships. We work where you work, we live where you live. We hire the right people, and give them superior knowledge. It is our employees' world-class knowledge and expertise that continues to keep us leading in our globally competitive industry.

We are fortunate to have a long history of attracting and retaining outstanding people. Our workforce is diverse, knowledgeable and loyal and often includes multiple generations from the same family. Our passionate and dedicated teams repeatedly earn recognition for their high degree of professionalism.



We are making good things happen.

Customer satisfaction.

Anticipating success.

Through the years, we've forged strong bonds with our customers. As a company with strong roots in family and heritage, it's no wonder that we regard our customers as part of our family as well. We call it our customer connection and we continuously strive to improve it by:

- Furnishing product design support from conception through installation
- Providing onsite assistance by our engineers and customer service personnel who know the local standards
- Hosting seminars and technical demonstrations
- Providing engineers and architects with the necessary tools (for example, drawings to aid the specification process)
- Communicating new product innovations and additions to product lines
- Delivering products quickly and smoothly worldwide

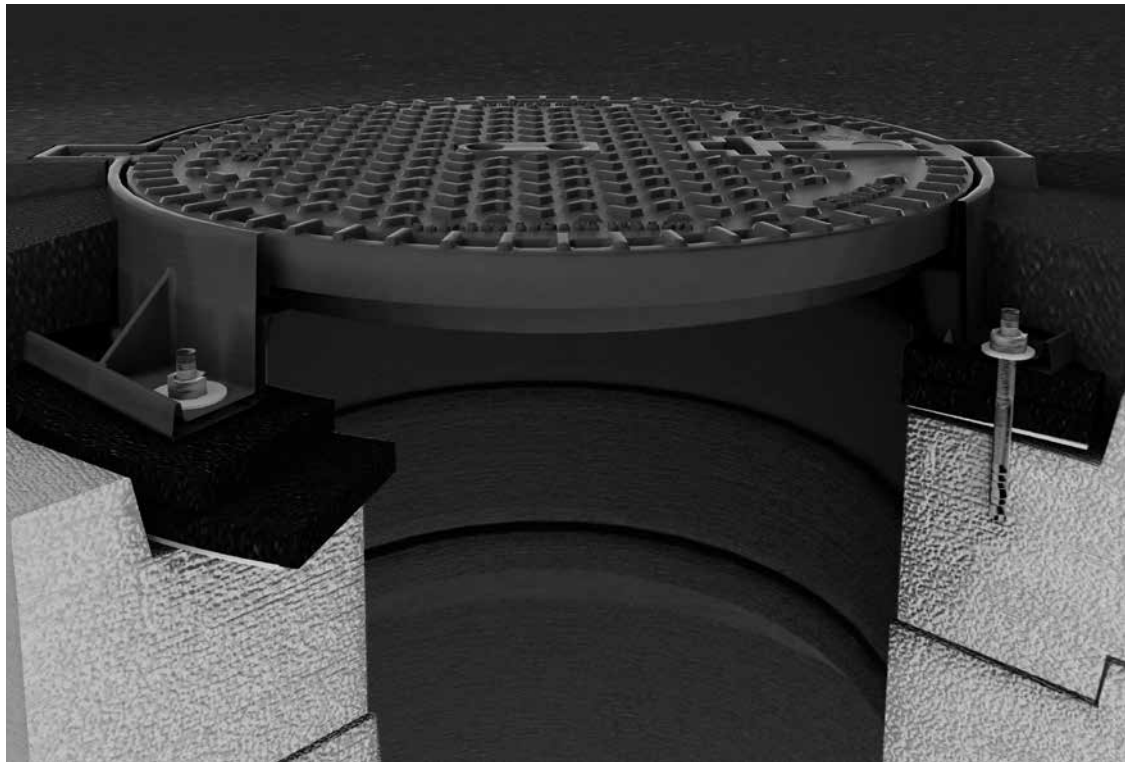


We create exceptional solutions.

Exceptional products.

Exceptional development.

We complement our extensive in-house knowledge with third-party research and input from industry experts. Our product designers use the latest software to generate designs. We also ensure that our products perform optimally through finite element analysis, in-house tests on materials, and load tests on product prototypes. We further verify that our products stand up under today's demands through our on-road testing and research. Once we are satisfied that our products will best meet customer needs, we manufacture them in best-in-class facilities and distribute them in over 140 countries.



**Customer-driven.
Constant innovation.**

Personal safety for every EJ employee is imperative. We incorporate safe practices into every process, product and service we provide · from design and manufacture, through distribution and end use.

Our highly trained and experienced in-house product development teams will provide the optimum solutions to solve our customers' challenges.

We will continue to explore the use of alternative materials for special application areas.

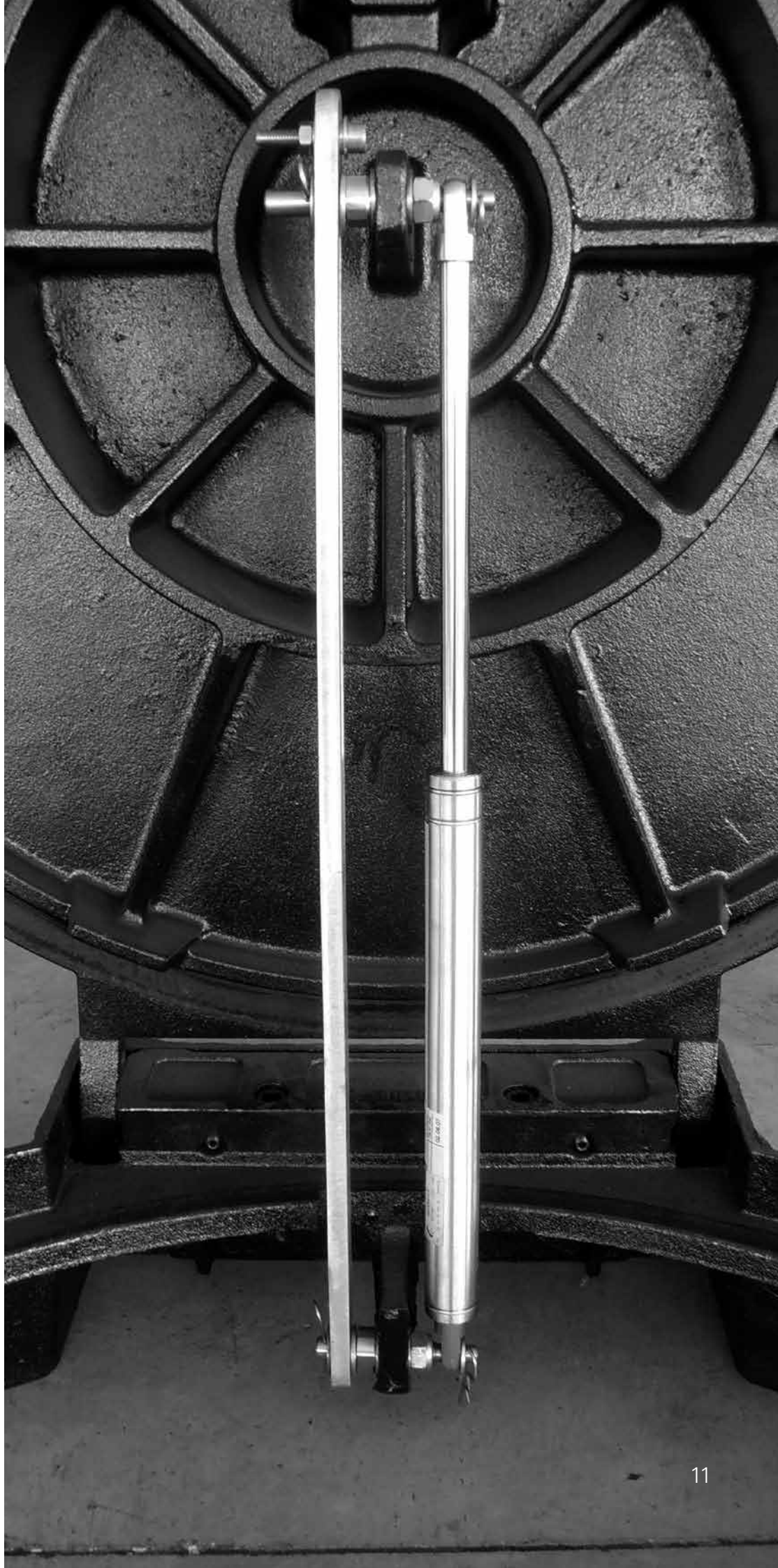
With the combined strengths of the EJ global network, no other company matches our:

- customer care
- technical expertise
- inventory levels
- product development
- product range
- manufacturing capacity
- certified quality

**Customised casting.
Optimum performance.**

We allow customers to customise many of our products with permanent messages and images. Our products are designed to provide optimum performance.

Our legacy of continuous improvement, innovation and safety will extend far into the future.



As a family-owned business, we take personal pride in our ongoing success.

Great things to come.

Our commitment to you is that we will continue to create ingenious customer-oriented solutions that improve people's lives. We will do that in ways that are smarter, greener and safer than ever before.

We look forward to working with you.



We are now a global enterprise that spans 5 continents promoting innovation, quality and a commitment to customer service. Our commercial presence worldwide includes 50 sales offices, 10 manufacturing facilities and multiple research and development centres.



Our facility located in Birr, Ireland includes a foundry manufacturing ductile iron castings, a fabricated steel facility and a distribution centre. Management system certification includes ISO 9001, ISO 14001 and OHSAS 18001 for quality management, environment, health and safety.



Our largest manufacturing facility in the USA is located in Ardmore, Oklahoma. A world-class production facility, utilising the best horizontal parted molding line for the manufacture of municipal castings and features the best environmental control technology available today. It is certified to ISO 9001.

Customer driven. Constant innovation.

We are a family run business centered around delivering customer satisfaction. We do not consider ourselves as simply manufacturers of product, we are solution providers. We pride ourselves on our after sales support and we have supported our clients in a host of ways from installation guidance to after sales training on products for maintenance purposes. Additionally on major projects such as airports, ports and exhibition halls our Design Engineers will visit site to discuss your project requirements and assess and offer the most cost effective solutions.

Research and development.

EJ has an unprecedented research and design team, with over 16 Design Engineers. We have product specific designers responsible for our entire range. We are able to provide Finite Elements analysis on existing products and also potential new designs. We are renowned globally for achieving design solutions for some of the most challenging of projects and we design and manufacture on average 60 new products a year, at least 1 new product every week.

Environmentally and socially responsible.

EJ is committed to providing a safe and healthy work environment for all our employees. Employees follow all safety rules and work proactively to reduce the risk of injury to themselves and their colleagues. No task is so important that it needs to be preformed in an unsafe manner.

We strive to operate in compliance with environmental legislation and approved codes of practice. We are proactive in educating our employees about environmental responsibility. We are shrinking our carbon footprint—reducing waste, recycling inputs and using resources efficiently.

All **EJ** facilities worldwide strive for continuous environmental improvement and use production processes and controls that minimise the impact to the environment.

We work to achieve long-standing partnerships with our supply chain and our customers. Our worldwide experiences are shared across our businesses ensuring we achieve best practice in our service and as a product provider.



Picardie foundry and distribution in France, employing 600 people and a capacity to manufacture up to 100,000 tonnes on a 42 hectare site. Management system certification includes ISO 9001, ISO 14001 with OHSAS 18001 for quality management, environment, health and safety.

Our fabrication facility located in the Ardennes, contains the most advanced technology such as plasma cutting and welding robots. Providing high volume capacity as well as tailor made solutions to the marketplace. Management system certification includes ISO 9001, ISO 14001 and OHSAS 18001 for quality management, environment, health and safety.



European Standard EN 124: 1994

The European Standard EN124 1994 applies to gully tops and manhole covers with a clear opening of less than 1,000mm, for installation in areas subject to pedestrian and/or vehicular traffic.

EN124 divides Manhole Covers and Drainage Gratings into six classes as follows:

A15, B125, C250, D400, E600, F900.

The classification denotes the test load expressed in kN. For example Class D400 denotes a product that complies with a test load of 400 kN.

The markings of a Third Party Certification Body must appear on the product in order to conform to EN124: 1994



MPA NRW



COPRO



GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6
MINIMUM CLASS A15	MINIMUM CLASS B125	MINIMUM CLASS C250	MINIMUM CLASS D400	MINIMUM CLASS E600	CLASS F900

Areas which can only be used by pedestrians and pedal cyclists.

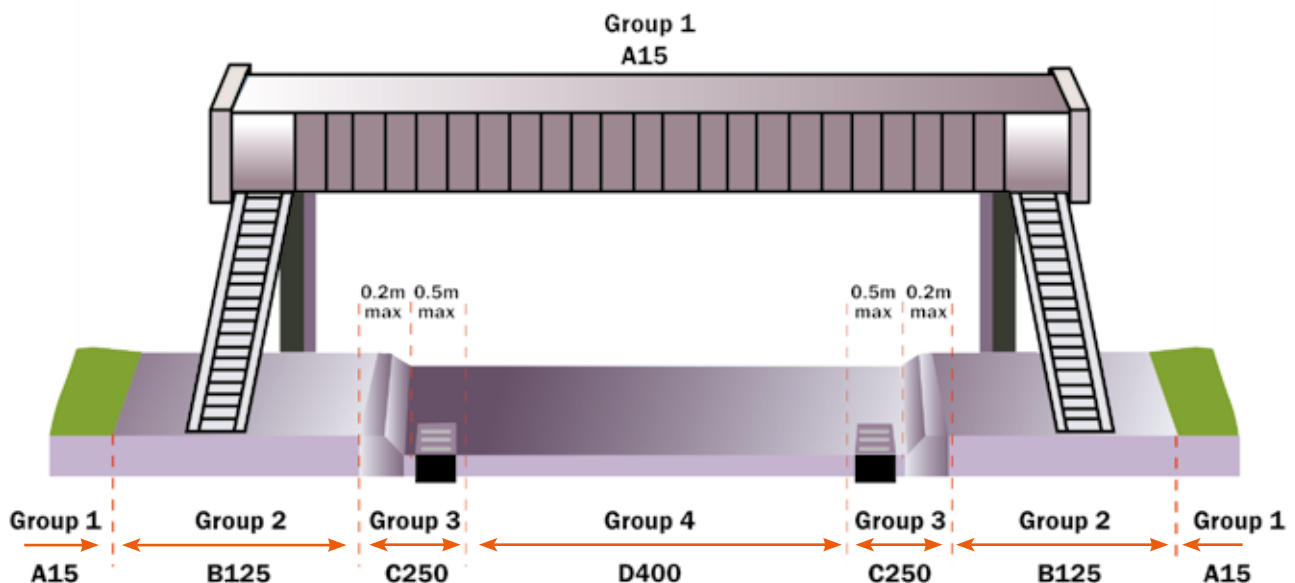
Footways, pedestrian and comparable areas, car parks or car parking decks.

For gully tops installed in the area of kerbside channels of roads which when measured from the kerb edge, extend a maximum of 0,5m into the carriageway and a maximum of 0,2m into the footway.

Carriageways of roads (including pedestrian streets), hard shoulders and parking areas, for all types of road vehicles.

Areas imposing high wheel loads, e.g. docks, aircraft pavements.

Areas imposing particularly high wheel loads, e.g. aircraft pavements.



Typical highway cross-section showing the location of some installation groups.

Product Markings

In order for products to comply with EN124 and to be third party certified the following markings must appear on the products.



- 1 Identification of manufacturer and production site
- 2 Reference of standard
- 3 Mark of third party certification body
- 4 Load class

Note: EN124 is the minimum performance specification, if there is any doubt, a higher category cover and frame should be selected. Our Sales Team are available for any assistance on product selection.

The project designer must also determine the product size required in addition to the appropriate class. Please refer to the relevant datasheet when specifying product.

For guidance on product installation please refer to the Highways Agency's Design Manual for Roads and Bridges HA 104/09, which outlines the requirements for chamber tops.

In areas of extreme traffic volumes (in excess of 1,500 vehicles per day) they recommend the use of higher loading class products e.g. E600 or F900 loading class.

The general requirements of HA 104/09 are the standard BS EN124 and it outlines the minimum load class for chamber tops and gully gratings installed in areas of trunk roads and motorways.

“For safety critical products such as manhole tops and gully tops, your decisions cannot be made lightly. You are responsible for the whole life performance of an installation, which in turn will influence on-going public safety. When you specify something as important as this, you have only one chance to get it right.”

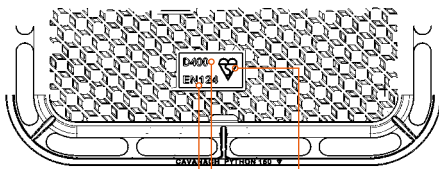
·BSI Certification Scheme.

- 1 Drawings, photographs and weighs are given as an indication only and without any contractual value.
Our policy is one of continuous product improvement, we reserve the right to modify product specifications without prior notice.
- 2 Products not certified according to EN 124 have been developed in compliance with particular operators' specifications.
The products' characteristics are guaranteed only when installation and maintainance best practices are adhered to.
- 3 Places of installation are indicated according to the standard EN 124.
EJ shall not under any circumstances be held responsible for having suggested a place of installation throughout this document.
- 4 Recessed cover: Recessed products are certified only when the product is infilled by the manufacturer.

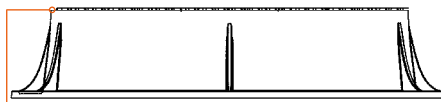
Guidelines on Product Specification

Outlined below is a guide to aid you the specifier on how to specify Municipal Castings as part of your tender process. In turn you can specify a product that meets your expectations. The points 1- 21 listed below are key to the correct selection of product and please refer to EN124 Product Selection for the appropriate class of product. To obtain a copy of our **Product Specification for Tender Purposes** which outlines examples of how to specify product please contact the Business Development Team.

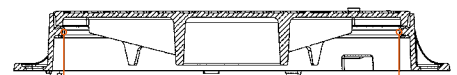
1. Product standard.
2. Loading classification.
3. Certification by 3rd Party.
4. Overall frame size.
5. Frame depth.
6. Frame bearing area/bedding width.
7. Clear opening.
8. Sealed cover.
9. Round frame/square frame.
10. Seating.
11. Depth of insertion.
12. Ventilated cover.
13. Filled flange.
14. Slot orientation on grating.
15. Ergonomic design – to allow for ease of opening.
16. Ergonomic feature e.g. gas strut assist and safety bar to prevent covers from freely closing.
17. Requirements for hinged cover.
18. Locking devices – mass per unit area, specific design features, materials, stainless steel, means for repair/replacement.
19. Requirements for markings i.e. company name/logo, identification of underground service, local authority's coat of arms and customised or commissioned artwork.
20. Painting of casting.
21. Anti-slip height 3 to 8mm.



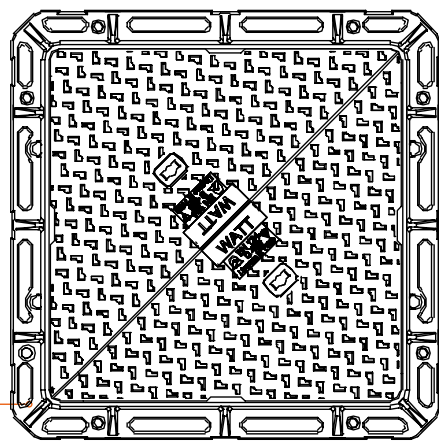
1. Product standard
2. Loading classification
3. Certification by 3rd Party



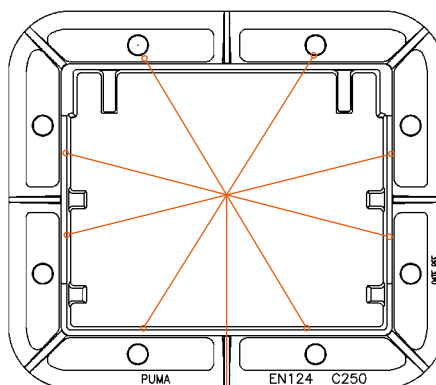
5. Frame depth.



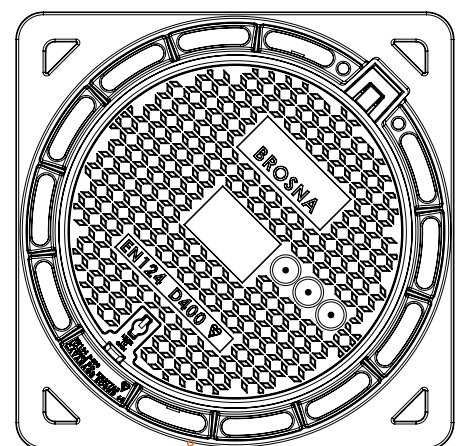
7. Clear opening.



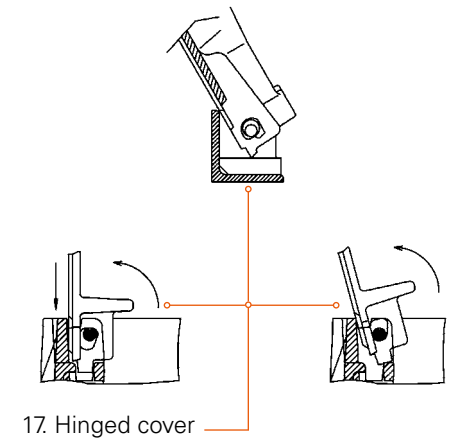
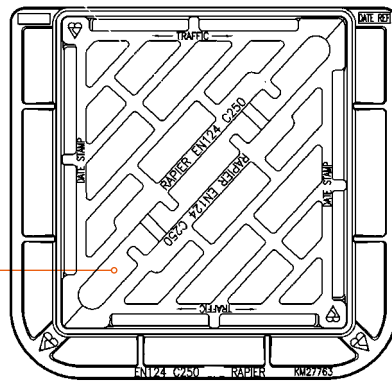
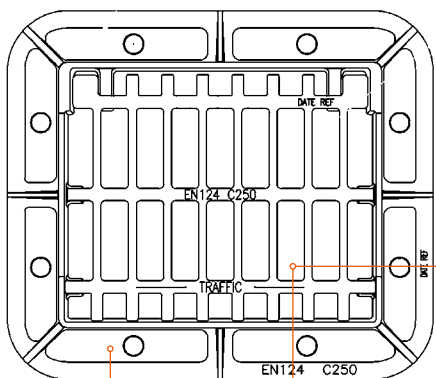
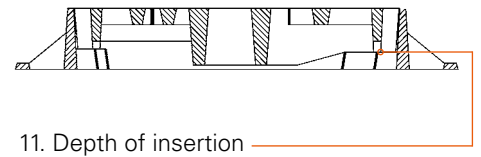
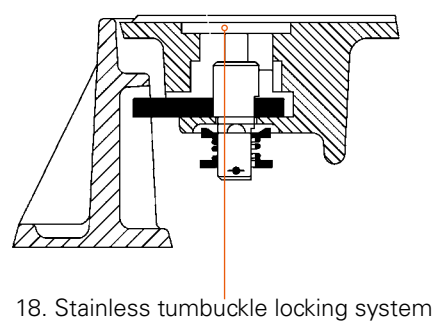
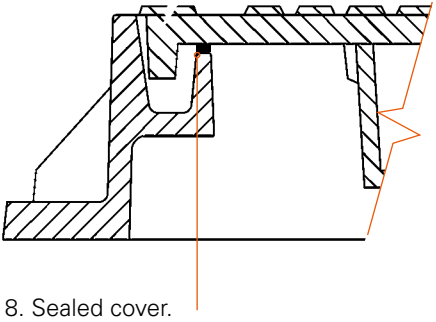
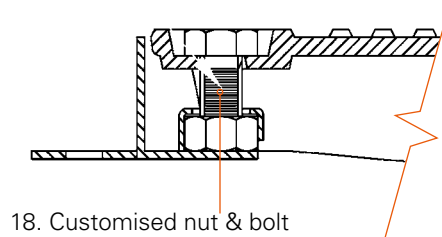
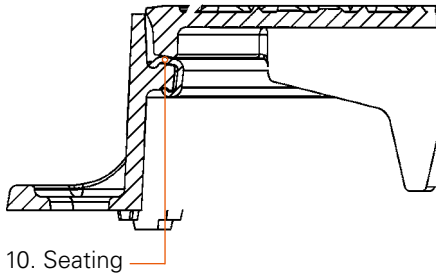
4. Overall frame size
9. Square frame



6. Frame bearing area



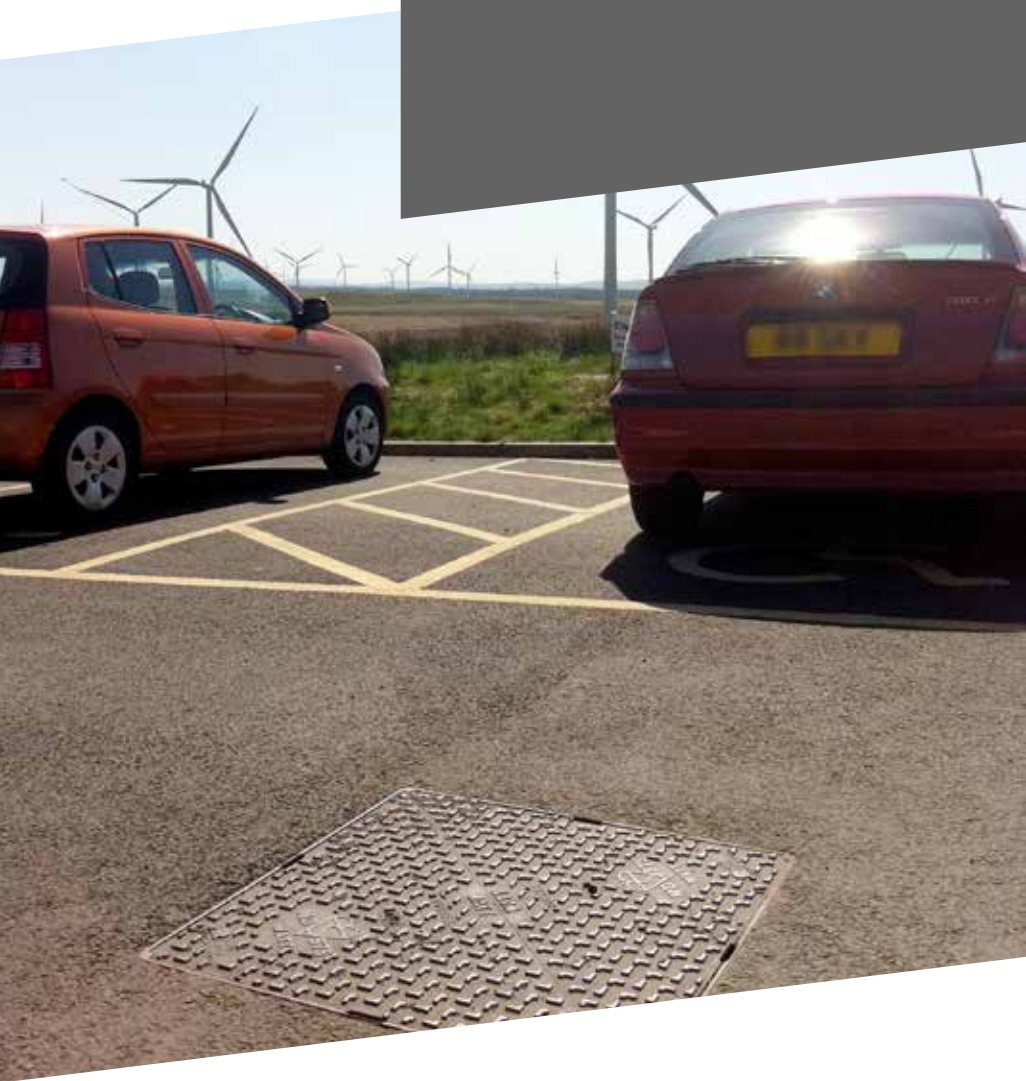
9. Square frame, circular cover
12. Ventilated cover
19. Customised markings



Quick Guide to Access Covers

class	clear opening (mm)	product range	features	3rd party certification body	page
F900					
	750 · 2250	TI 9S DT 9S	Hinged, Gas strut Hinged, Removable covers	AFNOR NF AFNOR NF	A2 A2
	Ø800	LSPBS	Slide out, Cushioning insert	AFNOR NF	A2
	Ø600	SOLO F	Hinged, Cushioning insert	AFNOR NF	A2
	400	DT9S	Slide out	AFNOR NF	A2
E600					
	750 x 750 1220 x 685	DT6S DT6S	Hinged, 120 mm frame Hinged, 150 mm frame	AFNOR NF BSI KM	A3 A3
	1070 x 750	DT6S	Slide out, 150 mm frame	BSI KM	A3
	1070 x 650	DT6S	Slide out, 125 mm frame	BSI KM	A3
	750 x 600	DT6S	Slide out, 150 mm frame	BSI KM	A4
	600 x 600	SCORPION	Double triangular 150 mm frame	BSI KM	A4
D400					
	Ø800	MAXIMO C MAXIMO V LSPB LSPBE	Hinged, Gas strut Hinged, Gas strut, Pressure tight Slide out, Cushioning insert Locked, Pressure tight	AFNOR NF AFNOR NF AFNOR NF AFNOR NF	A4 A4 A5 A5
	Ø700	SRL 100 SOLO 7 BRIO 7	Hinged, 2 covers Hinged, Cushioning insert Hinged, Lifting handle	AFNOR NF AFNOR NF AFNOR NF	A4 A4 A5
	Ø600	SOLO SELF SOLO SELF SRL C SRL SABET SOLO C VEO SC BRIO C BROSNA GBRE V6	Hinged, Guide frame Hinged, 100mm frame Hinged, 2 covers Hinged, recessed covers Hinged, Cushioning insert Hinged, Security locking Hinged, Lifting handle Hinged, Cushioning insert Locked, Pressure tight	AFNOR NF AFNOR NF AFNOR NF AFNOR NF AFNOR NF AFNOR NF AFNOR NF BSI KM AFNOR NF	A6 A6 A6 A7 A7 A7 A7 A8 A8
	600 x 600	DOUBLE TRIANGULAR	100 or 150 mm frame	BSI KM	A8
	740 x 590	MURDOCH	Slide out, Cushioning insert	BSI KM	A9
	300 to 700	TRUCK	Slide out, Cushioning insert	BSI KM	A9
	600 · 1300	TI4S MULTILEAF	Hinged, Locked	BSI KM or AFNOR NF	A9
C250					
	Ø600	COUGAR TP800	Slide out, Single seal Slide out, 75 mm frame	BSI KM AFNOR NF	A9
B125					
	Ø550 200 · 900	TIGER QUATTRO MACADAM EIFFEL RACoon TELFORD	Slide out, 60 mm frame Slide out, Single seal	BSI KM BSI KM	A10 A10

Access Covers



- A2** F900/E600
- A4** D400
 - A4 Clear Opening 800 mm
 - A5 Clear Opening 700 mm
 - A6 Clear Opening 600 mm
- A8** D400
 - Double triangular covers
- A9** C250
- A10** B125
- A11** Customised covers

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Access Covers

F900	features How to specify product	product code	reference	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (kg)
TI 9S EN124 F900 	Hinged ductile iron cover and frame, F900 to EN124:1994, 1000x1000mm clear opening, Square frame, Non rock covers by means of three point suspension, Locked (key not supplied), Ergonomic operation with a gas strut. The cover is safety blocked at 90°, Custom badging available, Third party certified with AFNOR NF mark.	526007	TI9S100100AVH11 NF	1000 x 1000	1245 x 1235	180	385
		514260	TI KEY				
LSPBS F EN124 F900 	Ductile iron cover and frame, F900 to EN124:1994, 800mm dia. clear opening, Circular frame, 2 BS closed keyways, Non rock by means of polychloroprene cushioning insert, Slide out operation, Third party certified with AFNOR NF mark. Options: square frame, Selflevel frame	518361	LSPBS 8R.1F	Ø800	Ø970	127	127
		518362	LSPBS8R.1F VENT	Ø800	Ø970	127	127
		511793	BS KEY				
DT 9S EN124 F900 	Hinged ductile iron cover and frame, F900 to EN124:1994, Non rock covers by means of three point suspension, The covers interlock, Hinged cover allows for easy opening, Rest at 105°, block at 90° and are removable from the horizontal position (after removal of hinge pins), Custom badging available, Third party certified with AFNOR NF mark. Option: gas strut assistance	518857	DT9S075075AVOTC	750 x 750	910 x 950	120	198
		520796	DT9S150075AVOTC	1500 x 750	1660 x 950	150	396
		534684	DT9S225075AVOTC	2225 x 750	2416 x 950	150	641
		514827 522998	OTC LOCKING KEY ERGONOMIC LIFTING ARMS				
SOLO F EN124 F900 	Hinged ductile iron cover and frame, F900 to EN124:1994, 600mm dia. clear opening, Square or circular frame, 1 Closed keyway for use with crowbar or hook, Non rock by means of polychloroprene cushioning insert glued to the cover, Hinged cover allows for easy opening, Third party certified with AFNOR NF mark. Options: locking (OTC), Vented cover, Cover safety blocking, Selflevel frame, exists in non-hinged version (DUO cover)	510773	SOLO FC	Ø600	850 x 850	100	110
		526685	SOLO FC VOTC	Ø600	850 x 850	100	110
		514827	OTC KEY				

Access Covers

F900	features How to specify product	product code	reference	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (kg)
DT 9S EN124 F900 	Ductile iron cover and frame, F900 to EN124:1994, 400x400mm clear opening, Square 100mm deep frame, 2 Closed keyways, Non rock covers by means of three point suspension, Custom badging available, Third party certified with AFNOR NF mark.	538117	DT9S040040	400X400	550X550	100	66
E600							
DT 6S EN124 E600 	Ductile iron cover and frame, E600 to EN124:1994, 1070x750mm clear opening, 150mm deep frame, 4 Keyways, non rock covers by means of three point suspension, Special seating to avoid lateral movement, Handling by means of special clamp lifting keys (ordered separately: 522298), Custom badging available, Third party certified by BSI KM.	522649 522298	DT6S107075 ERGONOMIC LIFTING ARMS	1070x750	1220x950	150	314
DT 6S EN124 E600 	Hinged ductile iron cover and frame, E600 to EN124:1994, 750x750mm clear opening, 120mm deep frame, 2 Closed keyways per triangular cover, Non rock covers by means of three point suspension, Locked, Ergonomic design with hinged covers, Custom badging available, Third party certified with AFNOR NF mark.	534680 517082	DT6S075075AV11 ERGONOMIC LIFTING ARMS	750x750	910x950	120	199
DT 6S EN124 E600 	Hinged ductile iron cover and frame, E600 to EN124:1994, 1220X685mm clear opening, 150mm deep frame, 2 BS closed keyways per triangular cover, Non rock covers by means of three point suspension, Locked (OTC head · key not supplied), Ergonomic design with hinged covers, Covers block at 90° for safety, Custom badging available, Third party certified by BSI KM.	524874 511793	DT6S122068AVOTC BS KEY	1220x685	1400x915	150	265
DT 6S EN124 E600 	Ductile iron cover and frame, E600 to EN124:1994, 1070x650mm clear opening, 125mm deep frame, 4 keyways, Non rock covers by means of three point suspension, Special seating to avoid lateral movement, Handling by means of special clamp lifting keys (ordered separately: 522298), Custom badging available, Third party certified by BSI KM.	522648 522298	DT6S107065 ERGONOMIC LIFTING ARMS	1070x650	1220x850	125	247

Access Covers

E600	features How to specify product	product code	reference	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (kg)
DT 6S EN124 E600 	Ductile iron cover and frame, E600 to EN124:1994, 750x600mm clear opening, 150mm deep frame, 2 keyways, Non rock covers by means of three point suspension, Special seating to avoid lateral movement, handling by means of special clamp lifting keys (ordered separately: 522298), Custom badging available, Third party certified by BSI KM.	520504 522298	DT6S075060 ERGONOMIC LIFTING ARMS	750x600	900x800	150	197
SCORPION 150 E600 EN124 E600 	Ductile iron cover and frame, E600 to EN124:1994, 600 X 600mm clear opening, 150mm deep frame, 2 BS closed keyways, Non rock covers by means of three point suspension, Third party certified by BSI KM. Options: vented cover, dust sealing plate, locking (patented), circular opening, selection of mass per unit area.	710013 511793	SCORPION 150 E600 BS KEY	600x600	830x830	150	127
D400							
Clear Opening Ø800mm MAXIMO EN124 D400 	Hinged ductile iron cover and frame, D400 to EN124:1994, 800mm dia. clear opening, Square 155mm deep frame, 1 closed keyway for use with crowbar or hook, Non rock by means of polychloroprene cushioning insert glued to the cover, Assisted ergonomic opening by means of a gas strut. Covers block at 90° for safety, Third party certified with AFNOR NF mark. Options: circular frame, Stainless steel gas strut for unassisted opening, Selflevel frame, Vented cover, High security horizontal locking (VOR)	526741 514827	MAXIMO C VOTC OTC LOCKING KEY	Ø800	1000x1000	155	155
MAXIMO V EN124 D400 	Hinged ductile iron cover and frame, D400 to EN124:1994, 800mm dia. clear opening, 155mm deep frame, 1 closed keyway for use with crowbar or hook, Non rock by means of polychloroprene cushioning insert glued to the cover, Ergonomic operation with a gas strut. Covers block at 90° for safety, Pressure tight (1 bar), Third party certified with AFNOR NF mark. Options: circular frame, Stainless steel gas strut Unassisted opening, Pressure tight (1/2 bar)	528174	MAXIMO C V5	Ø800	1000x1000	155	155

Access Covers

D400	features How to specify product	product code	reference	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (kg)
LSPB EN124 D400 	Ductile iron cover and frame, D400 to EN124:1994, 800mm dia. clear opening, Square 100mm deep frame, 2 BS closed keyways, Non rock by means of polychloroprene cushioning insert glued to the cover, Slide out operation, Third party certified with AFNOR NF mark. Options: circular frame, Locking (OTC), Vented cover	510609 511793	LSPBS C BS KEY	Ø776	1020x1020	92	160
LSPBE EN124 D400 	Ductile iron cover and frame, D400 to EN124:1994, 800mm dia. Clear opening, Circular 100mm deep frame, 2 BS closed keyways, Non rock by means of polychloroprene cushioning insert glued to the cover, locked with 6 x M12 stainless steel bolts, slide out operation, Pressure tight (1 bar), Third party certified with AFNOR NF mark.	514251 511793	LSPBE R V6 BS KEY	Ø800	Ø1000	102	118
Clear Opening Ø700mm SRL 100 EN124 D400 	Hinged ductile iron cover and frame, D400 to EN124:1994, 700mm dia. clear opening, Square 100mm deep frame, 2 closed keyways, Non rock covers by means of three point suspension and wedged seating, Hinged cover allows for easy opening, Rest at 90° and are removable from the vertical position, Third party certified with AFNOR NF mark. Options: square exposed frame to be precast	510607	SRL 100 C	Ø700	1000x1000	100	175
SOLO 7 	Hinged ductile iron cover and frame, D400 to EN124:1994, 700mm dia. clear opening, Square 100mm deep frame, 1 closed keyway for use with crowbar or hook, Non rock by means of polychloroprene cushioning insert glued to the cover, Hinged cover allows for easy opening, Rests at 115° and blocks at 90°, Third party certified with AFNOR NF mark. Options: vented cover, Locking, Extra large over base frame dimensions.	528452 528465 528467 528469 534044 534045 534446	SOLO7SC950 SOLO7SC950 VENT SOLO7SC950 VOTC SOLO7SC950 VOTC VENT SOLO7SC1020 SOLO7SC1020 VENT SOLO7SC1020 VOTC	Ø 714 Ø 714 Ø 714 Ø 714 Ø 712 Ø 712 Ø 712	950x950 950x950 950x950 950x950 1020x1020 1020x1020 1020x1020	102 102 102 102 102 102 102	121 121 121 121 131 131 131

Access Covers

D400	features How to specify product	product code	reference	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (kg)
BRIO 7 EN124 D400 	Hinged ductile iron cover and frame, D400 to EN124:1994, 700mm dia. clear opening, Square 100mm deep frame, Non rock by means of polyethylene cushioning insert fixed to the frame. Five centering guides to minimise cover lateral movement, 1 integrated and retractable handle for ease of handling, Third party certified with AFNOR NF mark. Options: locking (OTC), Cover safety blocking, Octagonal frame.	516550	BRIO 7 C	Ø700	950x950	100	87
		516757	Locked BRIO 7 CL	Ø700	950x950	100	87
Clear Opening Ø600mm SOLO SELFLEVEL EN124 D400 	Hinged ductile iron cover and frame, D400 to EN124:1994, 600mm dia. clear opening, Circular selflevel 240mm deep frame, With guide frame, 1 Closed keyway for use with crowbar or hook, Non rock by means of polychloroprene cushioning insert glued to the cover, Hinged cover allows for easy opening, Rests at 115° and blocks at 90°, Third party certified with AFNOR NF mark. Options: locking (OTC), Vented cover, Water resistant (product reference SV3E)	532500	SOLO SELF S ENC CG	Ø600	Ø810	240	139
SOLO SELFLEVEL EN124 D400 	Hinged ductile iron cover and frame, D400 to EN124:1994, 600mm dia. Clear opening, Circular selflevel 100mm deep frame, With guide frame, 1 closed keyway for use with crowbar or hook, Non rock by means of polychloroprene cushioning insert glued to the cover, Hinged cover allows for easy opening, Rests at 115° and blocks at 90°, Third party certified with AFNOR NF mark. Options: locking (OTC), Vented cover	532811	SOLOCC SELF615-120	Ø600	Ø810	100	98
SRL C EN124 D400 	Hinged ductile iron cover and frame, D400 to EN124:1994, 600mm dia. clear opening, Square 100mm deep frame, 2 closed keyways, Non rock covers by means of three point suspension and wedged seating, Hinged cover allows for easy opening, Rest at 90° and are removable from the vertical position, Third party certified with AFNOR NF mark. Options: circular frame	503042	SRL C	Ø600	850x850	100	106

Access Covers

D400	features How to specify product	product code	reference	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (kg)
SRL R SABET EN124 D400 	Hinged ductile iron recessed cover and frame, D400 to EN124:1994, 600mm dia. clear opening, Square 100mm deep frame, 2 closed keyways, Non rock covers by means of three point suspension and wedged seating, Hinged cover allows for easy opening, Rest at 90° and are removable from the vertical position, Third party certified with AFNOR NF mark.	526738	SRL R SA BET	Ø600	Ø850	100	130
SOLO C EN124 D400 	Hinged ductile iron cover and frame, D400 to EN124:1994, 600mm dia. clear opening, Square 100mm deep frame, 1 closed keyway for use with crowbar or hook, Non rock by means of polychloroprene cushioning insert glued to the cover, Hinged cover allows for easy opening, Rests at 115° and blocks at 90°, Third party certified with AFNOR NF mark. Options: locking (OTC), Selflevel frame, circular frame	532491 532493 532612 514827 534977	SOLO C S SOLO C S VOTC LOCKEO OTCI KEY VOR KEY FOR LOCKEO	Ø600 Ø600 Ø600	850x850 850x850 Ø850	100 100 100	99 100 100
VEO SC VOR5 EN124 D400 	Hinged ductile iron cover and frame, D400 to EN124:1994, 600mm dia. clear opening, Square 100mm deep frame, 1 closed keyway for use with crowbar or hook, Non rock by means of polyethylene cushioning insert fixed to the frame. Five centering guides to minimise cover lateral movement, High security locking with horizontally positioned and concealed system (uses VOR 5 key - not supplied), The cover is safety blocked at 90°, Third party certified with AFNOR NF mark. Options: customised coded key	526960 522233	VEO SC VOR5 VOR5 KEY	Ø600	850x850	100	65
BRIO C EN124 D400 	Hinged ductile iron cover and frame, D400 to EN124:1994, 600mm dia. clear opening, Square 100mm deep frame, Non rock by means of polyethylene cushioning insert fixed to the frame. Five centering guides to minimise cover lateral movement, 1 integrated and retractable handle for ease of handling, Third party certified with AFNOR NF mark. Options: locking (OTC), Cover safety blocking, Octagonal frame, vented cover	520519 01 522486 522351 711107 512740 515485	BRIO C BRIO SC BRIO SC VENT BRIO SC VOTC OTC KEY (DUCTILE IRON) OTCN KEY (STAINLESS STEEL)	Ø600 Ø600 Ø600 Ø600	850x850 850x850 850x850 850x850	100 100 100 100	71 71 71 71

Access Covers

D400	features How to specify product	product code	reference	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (kg)
BROSNA EN124 D400 	Hinged ductile iron cover and frame, D400 to EN124:1994, 600mm dia. clear opening, 100mm deep frame, 1 closed BS keyway, Non rock by means of polyethylene cushioning insert fixed to the frame. Six centering guides to minimise cover lateral movement, Snap lock system, Cover is removable at 90° angle, Third party certified with BSI KM mark. Options: locking (OTC), Circular frame, Vented cover	710041 511793	BROSNA BS KEY	Ø600	800x800	100	72
GBRE V6 DECOR EN124 D400 	Ductile iron cover and frame, D400 to EN124:1994, 600mm dia. clear opening, Circular 100mm deep frame, 2 BS closed keyways, Non rock by means of polychloroprene cushioning insert glued to the frame, Locked with 6 x M12 stainless steel bolts, slide out operation, Pressure tight (2 bar), Third party certified with AFNOR NF mark.	514303 511793	GBRE V6 BS KEY	Ø600	Ø850	100	85
D400 Double triangular covers EN124 D400 	Ductile iron cover and frame, D400 to EN124:1994, 100 or 150mm deep frame, 2 BS closed keyways, Non rock covers by means of three point suspension, Covers loosely coupled, Third party certified by BSI KM. (NF for TI4S) Options: SW and FW and custom badges *LKD refers to locked product	532667 534364 518727 710001 512466 512467 710021 710019 710028 534744 710035 710080 710029 522084 710011 518728 520938 511793	HUDSON 150 HUDSON 100 WATT 150 SCORPION 675 WHITTLE SINCLAIR SCORPION 150 SCORPION 150 SCORPION 150 LKD BRUNEL 150 PYTHON 150 SCORPION 100 SCORPION 100 LKD BRUNEL 100 PYTHON 100 BAZALGETTE TI4S045045 BS KEY	1220x675 1220x675 675x675 675x675 900x600 750x600 600x600 600x600 600x600 600x600 600x600 600x600 600x600 600x600 600x600 600x450 450x450	1365x830 1365x830 840x840 830x830 1060x760 910x760 830x830 780x780 780x780 748x748 750x750 760x760 760x760 748x748 750x750 765x615 590x590	150 100 150 100 100 100 150 150 150 150 150 100 100 100 100 100 75	220 213 104 115 137 113 122 117 117 115 77 99 99 85 77 60 49

Access Covers

D400	features How to specify product	product code	reference	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (kg)
MURDOCH EN124 D400 	Ductile iron cover and frame, D400 to EN124:1994, 740x590mm clear opening, Rectangular 100mm deep frame. Special frame design to seat a GRP plate, 2 BS closed keyways, Polychloroprene cushioning insert fixed to the cover, Slide out operation, Custom badging available, Third party certified by BSI KM	542094 511793	MURDOCH D GRP BS KEY	740 x 590	932 x 742	100	102
TRUCK EN124 D400 	Ductile iron cover and frame, D400 to EN124:1994, Special frame design to allow adjacent paviour blocks, 1 or 2 closed BS keyway, Polyethylene cushioning insert fixed to the frame, Slide out operation, Custom badging available, Third party certified by BSI KM Options: Custom badging, gratings	524784 524785 524786 524787 526572 526573 511793	TRUCK 300 TRUCK 400 TRUCK 500 TRUCK 600 TRUCK 700 TRUCK 7050 BS KEY	300 x 300 400 x 400 500 x 500 600 x 600 700 x 700 700 x 500	440 x 440 540 x 540 640 x 640 740 x 740 840 x 840 840 x 640	76 102 102 102 102 102	27 40 53 68 90 73
MULTILEAF EN124 D400 	Material · ductile iron cover and frame Double triangular (2 or 4) hinged covers with mono-block frame, Safety blocking to prevent accidental cover closure, Cover parts hinge back to 110° and lock at 90° which prevent it from freely closing Covers are removable from the frame vertically, Non-rock covers by means of 3 point suspension. Covers interlock with the last cover being locked by a stainless steel turnbuckle locking mechanism (codes key supplied separately) Opening effort < 30 daN (except 518967) Can be opened by one operator Options: Unique locking and handling keys for specific requirements Custom badging	518967 522485 522484 538452 528750 522478 534643 536129 532415 522598 514260	T14S090090AV T14S130080AV T14S120075AV11 T14S106070.1AV T14S080070AV T14S120060.1AV T14S090060AV11 T14S060060.1AV T14S075045AV11 T14S060045AV11 TI KEY	900 x 900 1300 x 800 1200 x 750 1060 x 700 800 x 700 1200 x 600 900 x 600 600 x 600 750 x 450 600 x 450	1084 x 1100 1500 x 980 1400 x 930 1255 x 884 945 x 872 1400 x 780 1102 x 764 745 x 770 914 x 614 745 x 600	150 100 120 100 100 100 100 100 100 100	208 247 260 192 130 162 135 85 94 73
C250							
COUGAR EN124 C250 	Ductile iron cover and frame, C250 to EN124:1994, 600mm dia. clear opening, Square 75mm deep frame, 2 BS closed keyways, Single seal, Custom badging available, Third party certified by BSI KM. Options: vented covers, B125 load reference	710057 511793	COUGAR BS KEY	Ø600	750 x 750	75	45

Access Covers

C250	features How to specify product	product code	reference	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (kg)
TP800 EN124 C250 	Ductile iron cover and frame, C250 to EN124:1994, 600mm dia. clear opening, Square 75mm deep frame, Non rock by means of polyethylene cushioning insert fixed to the frame. Five centering guides to minimise cover lateral movement and a positioning lug, Custom badging available, Third party certified with AFNOR NF mark. Options: pressure tight (1 bar), Captive hinge version.	528669	TP 800 C	Ø600	815x815	75	54
B125							
TIGER EN124 B125 	Ductile iron cover and frame, B125 to EN124:1994, 550mm dia. clear opening, square 60mm deep frame, 2 BS closed keyways, Custom badging available, Third party certified by BSI KM. Options: locking	710052 710054	TIGER TIGER LOCKED	Ø550 Ø550	670x670 670x670	60 60	43 43
SINGLE SEAL EN124 B125 	Ductile iron cover and frame, B125 to EN124:1994, Closed keyways, 4 rubber cushioning inserts fixed to the frame for stability and to minimise noise (except MACADAM). Slide out operation, Single seal, Custom badging available, Third party certified by BSI KM. Option: special high security OTC coded key (for QUATTRO 400 · 500 · 600 and 700)	536146 522069 536145 522068 522066 522065	QUATTRO 700 BS QUATTRO 600 MACADAM QUATTRO 500 QUATTRO 400 QUATTRO 300	600x600 500x500 600x450 400x400 300x300 200x200	700x700 600x600 700x550 400x400 400x400 300x300	42 40 42 40 40 39	42 28 32 19 13 8
SLIDE OUT EN124 B125 	Ductile iron cover and frame, B125 to EN124:1994, 2 BS closed keyways, Slide out operation, Single seal, Custom badging available, Third party certified by BSI KM.	512422 710062 512425 511793	EIFFEL RACoon TELFORD BS KEY	900x600 600x600 600x450	1050x790 700x700 750x600	75 34 75	110 41 61

Strengthen Your Identity

To further promote your identity you can customise your castings. Customised covers are gaining in popularity and they can feature a logo, crest, mascot or popular characteristic. We currently provide custom logo and lettered covers for many local authorities and utility providers in a multitude of cover designs.

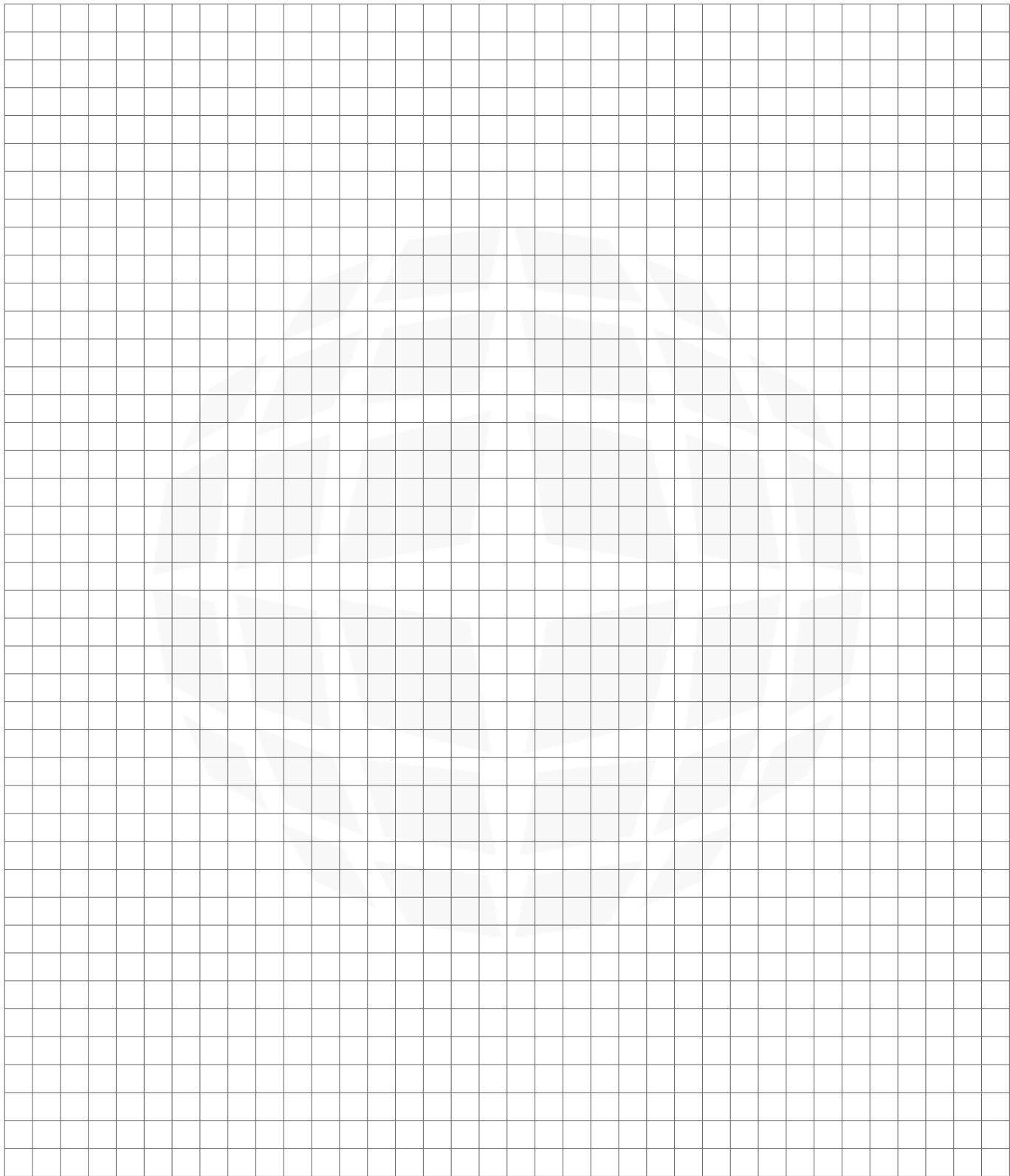
Customising your covers lets you specify the city, corporation and type of structure beneath the cover and are available on a wide selection of manhole covers.

For further information on personalised cover markings please contact our Sales Team.



Drawings, photographs and weights are given as an indication only without any contractual value. Our policy is one of continuous product improvement, we reserve the right to modify product specifications without prior notice.

Notes

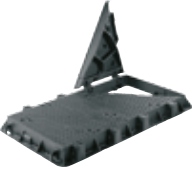



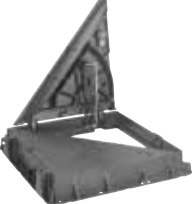





Cable, Utilities and Various Network Solutions



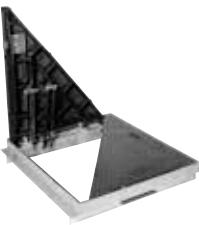



- B2** Access Covers
F900
- B3** Modular Access Covers
600kN
400kN
D400
C250
- B4** Pit covers
C250
- B6** Traffic
B125
- B7** Public Lighting
D400
B125
- B7** CCTV
D400
- B8** GAS
D400
B125
- B9** Waterworks
D400
B125
- B10** Ermatic Range
F900
E600
D400
C250
B125

Network Solutions

Access covers	features How to specify product	product code	reference	covers qty	position	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (kg)
F900									
DT9S A F900 	F900 hinged access covers One piece monoblock construction as cast Blocking at 90° for safety 3-point suspension Monoblock construction frame Options : - OTCI Turnbuckle locking system - Assisted opening by gas strut	522623	DT9S 075075 A	1		750 x 750	950 x 950	120	195
		520599	DT9S 150075 A	2		1500 x 750	1660 x 950	150	396
		528976	DT9S 225075 A	3		2250 x 750	2410 x 950	150	576
		OPTION LOCKING SYSTEM REF V : OPTION OPENING ASSISTANCE AND LOCKING SYSTEM REF VH							
T19S AVH F900 	F900 hinged access covers Blocking at 90° for safety 3-point suspension One piece monoblock construction as cast TI locking system Assisted opening by gas strut Options: Lifting Arms Locking key Ergonomic hooked double handle (per pair) Heavy duty TI locking key	526007	T19S 100 100 AVH11	1		1000 x 1000	1200 x 1160	180	385
		517082	ERGONOMIC LIFTING ARMS						
		514260	TI KEY						
8190 HINGED HATCH 900 kN 	900kN hinged manhole cover and frame Cover blocking at 90° for safety Square cover with neoprene cushioning insert Monobloc top flange frame as cast Covers are locked with hexagonal bolts Assisted opening with stainless steel mechanical spring struts as standard Options: Lifting Keys Frame top or bottom flange for single covers	819581B 01	8195			610 x 610	840 x 840	127	147
		819680B 01	8196			762 x 762	1003 x 1003	127	215
		819681B03	8196 DOUBLE			762 x 1574	1003 x 1820	127	468
		819761B 01	8197			915 x 915	1146 x 1146	127	308
		819760B 01	8197 DOUBLE			915 x 1880	1146 x 2115	127	649
		819760B 02	8198			1219 x 1219	1461 x 1429	152	444
SE9S AV F900 	F900 hinged cover and frame with covers blocking at 90° for security Triangular seating Monobloc frame Covers are locked with HM12 hexagonal head Options: Lifting Keys	544123	S9S070070AV			700 x 700	960 x 985	150	184
		536761	S9S140070AV			1400 x 700	1680 x 985	150	336

Network Solutions

Modular access covers	features How to specify product	product code	reference	covers qty	position	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (kg)
600kN CT6S 075 A 600kN 	600 kN hinged access covers Blocking at 90° for safety 3 -point suspension Galvanised steel frame Hinged cast iron covers Blocking at 90° for safety Options: TI locking system Assisted opening by gas strut Fall protection safety grid	61760020	CT6S 075 076 A	1		750 x 760	960 x 950	152	194
		61760021	CT6S 150 076 A	2		1502 x 760	960 x 1702	152	354
		61760023	CT6S 225 076 A	3		2255 x 760	960 x 2455	152	512
		61760065	CT6S 150 163 A	4		1502 x 1635	1652 x 1825	290	898
D400 MILESIO D400 	D400 hinged access covers One piece monoblock construction as cast Blocking at 90° for safety 3 -point suspension Monoblock construction frame with shuttering skirt TI security locking with slam lock Assisted opening with gas strut Key supplied	536279	DT4S100100 AVPCH	1		1000 x 1000	1150 x 1210	200	293
400kN CT4S 100 AVPCH 400kN 	400 kN hinged access covers Blocking at 90° for safety 3 -point suspension Galvanised steel frame Hinged cast iron covers Blocking at 90° for safety MTV Turnbuckle locking system Assisted opening by gas strut TI key provided separately Options : Fall protection grids	61760023	CT4 S 100 100 AHVPC	1		1000 x 1000	1140 x 1140	190	293
		61760008	CT4 S 200 100 AHVPC	2		2000 x 1000	2140 x 1140	190	512
		61760069	CT4 S 300 100 AHVPC	3		3000 x 1000	3140 x 1140	190	785
		61760035	CT4 S 200 215 AHVPC	4		2000 x 2155	2151 x 2289	290	1408
		61760066	CT4 S 300 213 AHVPC	6		3000 x 2139	3151 x 2289	290	2044
		61760036	CT4 S 200 441 AHVPC	8		2000 x 4417	2151 x 4417	290	2860
			CT4 S 300 327 AHVPC	9		3000 x 3278	3151 x 3428	290	3097
CT4S 075 A 400kN 	400 kN hinged access covers Blocking at 90° for safety 3 -point suspension Galvanised steel frame Hinged cast iron covers Blocking at 90° for safety Options: TI locking system Assisted opening by gas strut Fall protection safety grid	61760001	CT4S 075 076 A	1		750 x 760	960 x 950	152	183
		61760003	CT4S 150 076 A	2		1502 x 760	960 x 1702	152	334
		61760009	CT4S 225 076 A	3		2255 x 760	960 x 2455	152	482
		61760054	CT4S 150 163 A	4		1502 x 1635	1652 x 1825	290	845
		61760045	CT4S 225 163 A	6		1635 x 2255	1825 x 2405	290	1230
		61760051	CT4S 150 251 A	6		1502 x 2510	1652 x 2700	290	1271
		61760082	CT4S 150 338 A	8		1502 x 3380	1652 x 3570	290	1695
			CT4S 225 251 A	9		2255 x 2510	2405 x 2700	290	1882

We can propose galvanised steel or stainless steel security equipment.
Contact our Sales Team.

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Modular access solutions	features	product code	reference	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (kg)
HINGED HATCH 400 kN 	400kN hinged manhole cover and frame Cover blocking at 90° for safety Square cover with neoprene cushioning insert Monobloc top flange frame as cast Covers are locked with hexagonal bolts Assisted opening with stainless steel mechanical spring struts as standard Options: Lifting Keys Frame top or bottom flange for single covers	821541B 01	8215	610 x 610	840 x 840	127	146
		821641B 01	8216	762 x 762	1003 x 1003	127	176
		821641B03	8216 DOUBLE	762 x 1574	1003 x 1820	127	632
		821721B 01	8217	915 x 915	1146 x 1146	127	244
		821721B 01	8217 DOUBLE	915 x 1880	1146 x 2115	127	522
		821821B 02	8218	1220 x 1220	1429 x 1460	152	456
		Dimensions available on demand. Contact our Sales team.					
D400 CT4B D400 	400kN modular access covers 3-point suspension concrete filled on site galvanised steel frame Fitted with a rubber bush to minimise lateral movement						
C250 PQ 750 C250 	C250 NF duct cover 0,75 m long Installation angle iron 30 x 30 x 3 mm or on cast iron frame (see page D9)	502484	PQ 752 B	140	750 x 250	27	20,6
		502485	PQ 753	240	750 x 300	27	27,7
		502486	PQ 754	340	750 x 400	27	32,6
		502487	PQ 755	440	750 x 500	27	39,5
		513150	PQ 756	540	750 x 600	27	51,5
		502490	PQ 757	640	750 x 700	27	56,6
3T C250 	C250 NF Cover and frame Cover and removable plug provided with a polychloroprene seal fitted in peripheral «U» shape to prevent ingress of surface water Film of grease to the machined contact faces of the cover and frame renders the cover waterproof under normal conditions Ø250 mm removable plug EM handling key sold as an accessory Options : Locking bolts either CHC or OTCN	540127	3T 060060	600 x 600	710 x 800	80	111
		540145	3T 090090	900 x 900	1010 x 1100	80	185
		502402	Ermatic lifting arms				
HCIP TJ C250 	C250 NF hinged access cover and frame Cover and plug provided with a polychloroprene seal fitted in peripheral «U» shape to prevent ingress of surface water Ø 258 mm removable plug	515761	HCIP 800 TJ	700 x 700	920 x 892	75	105

Network Solutions

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B125 Traffic	features How to specify product	product code	description	clear opening (mm)	overall dimensions (mm)	height (mm)	total (kg)
JB4 TRAFFIC EN124 B125 	Material - ductile iron cover in a galvanised steel frame Sealed keyways Single cover Locking arrangement (patented design) Options: Available in multiple units Can be supplied unlocked	710916	JB4 TRAFFIC	915 x 445	1110 x 640	52	59
JB2 TRAFFIC EN124 B125 	Material - ductile iron cover in a galvanised steel frame Sealed keyways Single cover Locking arrangement (patented design) Options: Can be supplied unlocked	710093	JB2 TRAFFIC	730 x 260	920 x 455	52	27
JB1 TRAFFIC EN124 B125 	Material - ductile iron cover in a galvanised steel frame Sealed keyways Single cover Locking arrangement (patented design) Options: Can be supplied unlocked	710092 719801	JB1 TRAFFIC 18 X 18	385 x 260 450 x 450	590 x 455 610 x 610	52 52	16 26
D400							
SCORPION CATV EN124 D400 	Material - ductile iron cover and frame Double triangular covers loosely connected for non-rock performance Unique seating to limit lateral cover movement Sealed keyways Options: Locked Extra deep 150mm frame for added rigidity	710015	SCORPION CATV	600 x 600	760 x 760	100	98
CHEETAH CATV EN124 D400 	Material - ductile iron cover and frame Double triangular covers loosely connected for non-rock performance Open Keyways Both covers badged CATV Options: Security chain available Stainless steel coupling bolts	710420	CHEETAH CATV	445 x 280	645 x 480	100	42

Network Solutions

B125	features How to specify product	product code	description	clear opening (mm)	overall dimensions (mm)	height (mm)	total (kg)
LEOPARD CATV EN124 B125 	Material - ductile iron cover and frame Single cover marked CATV Open keyways Options: Security chain available	710150	LEOPARD CATV	445 x 275	575 x 410	65	21
Public Lighting							
PYTHON Public Lighting EN124 D400 	Material - ductile iron cover and frame Double triangular covers loosely connected for non-rock performance Unique seating to limit lateral movement and wear Extra deep 150mm frame for added rigidity Sealed keyways Options: Ventilated cover available	719520	Square Frame Opening PYTHON PUBLIC LIGHTING	600 x 600	750 x 750	150	85
FJ 60/45 Public Lighting EN124 B125 	Material - ductile iron cover in a galvanised steel frame Sealed keyways Locking arrangement (patented design) Options: HDPE Box available Can be supplied unlocked Available unbadged	710438	FJ 60/45	562 x 412	775 x 625	52	31
Python							
PYTHON CCTV EN124 D400 	Material - ductile iron cover and frame Double triangular covers loosely connected for non-rock performance Unique seating to limit lateral movement and wear Sealed keyways Options: Ventilated cover available Extra deep 150mm frame for added rigidity	719519	Square Frame Opening PYTHON CCTV	600 x 600	750 x 750	100	85

Utilities

Gas B125	features How to specify product	product code	description	clear opening (mm)	overall dimensions (mm)	height (mm)	total (kg)
STOPCOCK EN124 B125 	Material – ductile iron cover and frame Hinged cover with precision drilled holes and spring hinge pins	710605	STOPCOCK GAS	125 x 120	200 x 190	50	4
D400							
MINK GAS EN124 D400 	Material – ductile iron cover and frame Locked by rotating cover Options: Security chain available Yellow coated cover available	513897	MINK GAS	Ø188	Ø340	130	13
CHEETAH GAS EN124 D400 	Material – ductile iron cover and frame Double triangular covers loosely connected for non-rock performance Open keyways Options: Security chain available Available in Yellow	710600	CHEETAH GAS	445 x 280	645 x 480	100	43

Waterworks Covers

B125	features How to specify product	product code	reference	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (kg)
STOPCOCK EN124 B125 	Material – ductile iron Hinged cover with precision drilled holes and spring hinge pins in accordance with BS EN 28752	710371	STOPCOCK WATER	125 x 120	200 x 190	50	4
LEOPARD FH, SV, AV, M EN124 B125 	Material – ductile iron Open keyways Single drop in cover Black coated Options: Security chain available Available in yellow or blue Additional mass per unit area available as per customer requirements	710300 710391 710340 710320	LEOPARD FH LEOPARD SV LEOPARD AV LEOPARD M	444 x 250 444 x 250 444 x 250 444 x 250	605 x 390 605 x 390 605 x 390 605 x 390	67 67 67 67	29 29 29 29
BS5834 SV Grade A 	Material – ductile iron cover and frame Double triangular covers for non rock performance Coupling of the covers by bolt Open keyways Anti-slip surface with 4L trademark registered design	534156	BS5834 SV	163 x 163	247 x 247	100	8
FJ1730 EN124 B125 	Material – ductile iron cover Sealed keyways Options: Locked in galvanised steel frame HDPE Box available	710441	FJ1730	725 x 455	790 x 520	50	45
BS5834 WATERMETER Grade B 	Material - ductile iron Badged W, BS5834 Grade B Locked with 2 x M16 stainless steel nuts and bolts Locking bolt caps (2no) 164 kN design load Capable of bearing a wheel load up to 16 tonnes Chamber sealed by sealing ring in cover Concrete collar surround available	713060	WATER METER BS5834	Ø180	300 x 300	76	15
WATERMETER EN124 B125 	Material - ductile iron Badged Water Meter Capable of bearing a wheel load up to 12,5 tonnes Concrete collar surround available Option: Locked with a M16 Stainless Steel nut and bolt	713010	WATER METER	186 x 186	250 x 250	106	10

Independently verified as suitable for Automatic Meter Reading

Network Solutions



Network Solutions

ERMATIC® MODULAR RANGE



Ermatic is a comprehensive and highly specified range of access covers for diverse underground services

Sewerage: inspection pits, access shafts for large openings.

Telecommunications: cable joint chambers.

Electricity: lighting, signals, transformer pits, cable joint boxes.

Water Industry: valve chambers, manifold chambers and meter chambers.

In the following applications:

Airports and ports

Railways

Power stations

Water treatment and purification plants

Manufacturing plants

Stadiums, Exhibition centres, Tunnels, etc.

Modular units

The use of modular elements allow for a vast range of sizes:

Frame elements (side frames and end plates) are assembled using bolts and aluminum joints to provide linear openings for even the longest ducts.

Above clear opening spans of 1200 mm, Ermatic units use removable beams supported in boxes. This allows units to be built to suit large chambers.

The horizontal and vertical faces of the cover and frame are machined to give metal-to-metal contact between the seating faces, within a tolerance of 0.2 mm.

Stability and Sealing

Stability: when correctly installed, Ermatic products are non-rocking, silent under traffic and prevent the ingress of dust and debris.

Sealing: the addition of a film of grease to the machined contact faces of the cover and frame renders the Ermatic cover system surface watertight under normal rainwater conditions.

Types of Surface Finish

Designed for a wide range of applications, the Ermatic range offers a choice of covers to suit every specification of performance and/or appearance.

Solid top cover with anti-slip surface

This cover offers equal performance whilst being lighter than recessed covers of a comparable size when filled with concrete. Installation costs are reduced and the performance is not compromised by the quality of the concrete infill.

Cover recessed for concrete infill

In classes B 125 and C 250, the ribs are positioned below the surface of the cover to permit the installation of thin paving.

This type of cover is particularly suited to large openings where aesthetic consideration is a priority. Concrete infill shall be undertaken in accordance with the requirements of EN 124: 1994 and with the specifications detailed in the main Ermatic Catalogue.

Ease of Handling

Ease of handling: Covers slide in and out of the frame along greased, machined seating, requiring no vertical lift.

Ermatic key: ergonomically designed to assist with safety. Further reduces the effort required to remove and replace the covers.

Universal keyways:

For use with many different types of common lifting keys.

Fitted with polyethylene blanking plugs to prevent the entry of debris or concrete.

Ribs extend below the underside of the cover

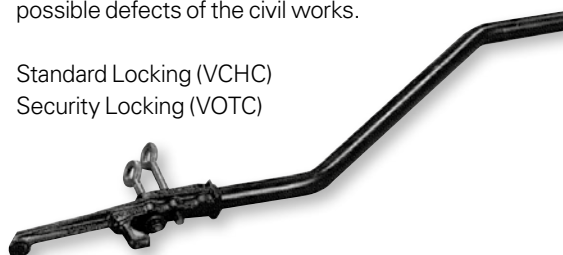
To protect the machined seating, the reinforcing webs are deeper than the cover. This also prevents any greased surfaces coming into contact with the floor (except for some B 125 recessed covers).

Locking of the covers

In order to ensure an easier and more optimised installation of our Ermatic systems, it has been decided to supply all the products in D400 systematically locked. For E600 and F900 products locking is recommended.

To facilitate the levelling of the Ermatic systems, adjusting bolts are supplied with the products. These bolts will allow, if necessary, you to adjust the height of the system to the final level and correct any possible defects of the civil works.

Standard Locking (VCHC)
Security Locking (VOTC)



Ermatic type lifting arms
502402

OTC locking key
514827

Network Solutions

B125

clear opening axb (mm)	frame overall dimensions length x width x height (mm)	number of covers	Recessed covers for paviour infill				Solid top with removable plugs			
			reference	weight (kg)			reference	weight (kg)		
300 x 300	410 x 500 x 80	■					ER 2S 030 030	48		
620 x 300	730 x 500 x 80	■ ■					ER 2S 062 030	85		
750 x 300	860 x 500 x 80	■	ER 2R 075 030	69						
1520 x 300	630 x 500 x 80	■ ■ ■	ER 2R 152 030	129						
2290 x 300	2400 x 500 x 80	■ ■ ■ ■	ER 2R 229 030	180						
450 x 450	560 x 650 x 80	■	ER 2R 045 045	59			ER 2S 045 045	67		
600 x 450	710 x 650 x 80	■	ER 2R 060 045	77						
900 x 450	1010 x 650 x 80	■	ER 2R 090 045	99						
920 x 450	1030 x 650 x 80	■ ■	ER 2R 092 045	111			ER 2S 092 045	122		
1070 x 450	1180 x 650 x 80	■ ■	ER 2R 107 045	120						
1220 x 450	1330 x 650 x 80	■ ■ ■	ER 2R 122 045	141						
1390 x 450	1500 x 650 x 80	■ ■ ■ ■	ER 2R 139 045	160			ER 2S 139 045	173		
1820 x 450	1930 x 650 x 80	■ ■ ■	ER 2R 182 045	179						
1840 x 450	1950 x 650 x 80	■ ■ ■ ■	ER 2R 184 045	196						
600 x 600	710 x 800 x 80	■	ER 2R 060 060	87			ER 2S 060 060	102		
750 x 600	860 x 800 x 80	■	ER 2R 075 060	101			ER 2S 075 060	110		
900 x 600	1010 x 800 x 80	■	ER 2R 090 060	117						
1220 x 600	1330 x 800 x 80	■ ■	ER 2R 122 060	158			ER 2S 122 060	188		
1370 x 600	1480 x 800 x 80	■ ■	ER 2R 137 060	172						
1520 x 600	1630 x 800 x 80	■ ■	ER 2R 152 060	187			ER 2S 152 060	204		
1670 x 600	1780 x 800 x 80	■ ■	ER 2R 167 060	203						
1820 x 600	1930 x 800 x 80	■ ■	ER 2R 182 060	219						
1840 x 600	1950 x 800 x 80	■ ■ ■	ER 2R 184 060	229			ER 2S 184 060	274		
1990 x 600	2100 x 800 x 80	■ ■ ■	ER 2R 199 060	243						
2140 x 600	2250 x 800 x 80	■ ■ ■ ■	ER 2R 214 060	258						
2290 x 600	2400 x 800 x 80	■ ■ ■ ■	ER 2R 229 060	273			ER 2S 229 060	298		
2440 x 600	2550 x 800 x 80	■ ■ ■ ■	ER 2R 244 060	288						
2590 x 600	2700 x 800 x 80	■ ■ ■ ■	ER 2R 259 060	304						
2740 x 600	2850 x 800 x 80	■ ■ ■ ■	ER 2R 274 060	320						
600 x 750	710 x 950 x 80	■	ER 2R 060 075	101						
750 x 750	860 x 950 x 80	■	ER 2R 075 075	116			ER 2S 075 075	139		
1220 x 750	1330 x 950 x 80	■ ■	ER 2R 122 075	182						
1370 x 750	1480 x 950 x 80	■ ■	ER 2R 137 075	198						
1520 x 750	1630 x 950 x 80	■ ■	ER 2R 152 075	213			ER 2S 152 075	259		
1840 x 750	1950 x 950 x 80	■ ■ ■	ER 2R 184 075	264						
1990 x 750	2100 x 950 x 80	■ ■ ■	ER 2R 199 075	279						
2140 x 750	2250 x 950 x 80	■ ■ ■ ■	ER 2R 214 075	294						
2290 x 750	2400 x 950 x 80	■ ■ ■ ■	ER 2R 229 075	309			ER 2S 229 075	379		
600 x 900	710 x 1100 x 80	■	ER 2R 060 090	116			ER 2S 060 090	130		
750 x 900	860 x 1100 x 80	■	ER 2R 075 090	134			ER 2S 075 090	138		
900 x 900	1010 x 1100 x 80	■					ER 2S 090 090	190		
1220 x 900	1330 x 1100 x 80	■ ■	ER 2R 122 090	209			ER 2S 122 090	237		
1370 x 900	1480 x 1100 x 80	■ ■	ER 2R 137 090	227			ER 2S 137 090	247		
1520 x 900	1630 x 1100 x 80	■ ■	ER 2R 152 090	245			ER 2S 152 090	254		
1670 x 900	1780 x 1100 x 80	■ ■					ER 2S 167 090	307		
1820 x 900	1930 x 1100 x 80	■ ■					ER 2S 182 090	357		
1840 x 900	1950 x 1100 x 80	■ ■ ■	ER 2R 184 090	303			ER 2S 184 090	346		
1990 x 900	2100 x 1100 x 80	■ ■ ■	ER 2R 199 090	320			ER 2S 199 090	355		
2140 x 900	2250 x 1100 x 80	■ ■ ■ ■	ER 2R 214 090	338			ER 2S 214 090	362		
2290 x 900	2400 x 1100 x 80	■ ■ ■ ■	ER 2R 229 090	356			ER 2S 229 090	367		
2440 x 900	2550 x 1100 x 80	■ ■ ■ ■					ER 2S 244 090	466		
2590 x 900	2700 x 1100 x 80	■ ■ ■ ■					ER 2S 259 090	473		
2740 x 900	2850 x 1100 x 80	■ ■ ■ ■					ER 2S 274 090	529		
500 x 1000	680 x 1200 x 80	■	ER 2R 050 100	138						
1020 x 1000	1200 x 1200 x 80	■ ■	ER 2R 102 100	246						
1540 x 1000	1720 x 1200 x 80	■ ■ ■	ER 2R 154 100	357						
2060 x 1000	2240 x 1200 x 80	■ ■ ■ ■	ER 2R 206 100	467						

*VCHC locking system

Network Solutions

C250

clear opening axb (mm)	frame overall dimensions length x width x height (mm)	number of covers	Recessed covers				Solid top covers			
			reference	weight (kg)			reference	weight (kg)		
300 x 300	410 x 500 x 80	■					ER 3S 030 030	48		
750 x 300	860 x 500 x 80	■	ER 3R 075 030	69						
940 x 300	1050 x 500 x 80	■ ■ ■					ER 3S 094 030	123		
1520 x 300	1630 x 500 x 80	■ ■	ER 3R 152 030	129						
2290 x 300	2400 x 500 x 80	■ ■ ■	ER 3R 229 030	188						
450 x 450	560 x 650 x 80	■	ER 3R 045 045	69			ER 3S 045 045	67		
600 x 450	710 x 650 x 80	■	ER 3R 060 045	77						
900 x 450	1010 x 650 x 80	■	ER 3R 090 045	100						
920 x 450	1030 x 650 x 80	■ ■	ER 3R 092 045	125			ER 3S 092 045	122		
1070 x 450	1180 x 650 x 80	■ ■	ER 3R 107 045	133						
1220 x 450	1330 x 650 x 80	■ ■	ER 3R 122 045	141						
1390 x 450	1500 x 650 x 80	■ ■ ■	ER 3R 139 045	182			ER 3S 139 045	176		
1520 x 450	1630 x 650 x 80	■ ■	ER 3R 152 045	164						
1540 x 450	1650 x 650 x 80	■	ER 3R 154 045	190						
1820 x 450	1930 x 650 x 80	■ ■ ■	ER 3R 182 045	187						
1840 x 450	1950 x 650 x 80	■ ■ ■	ER 3R 184 045	205						
2140 x 450	2250 x 650 x 80	■ ■ ■	ER 3R 214 045	228						
2440 x 450	2550 x 650 x 80	■ ■ ■	ER 3R 244 045	251						
2740 x 450	2850 x 650 x 80	■ ■ ■	ER 3R 274 045	278						
600 x 600	710 x 800 x 80	■	ER 3R 060 060	96			ER 3S 060 060	102		
750 x 600	860 x 800 x 80	■	ER 3R 075 060	112						
900 x 600	1010 x 800 x 80	■	ER 3R 090 060	120						
1220 x 600	1330 x 800 x 80	■ ■	ER 3R 122 060	176			ER 3S 122 060	188		
1370 x 600	1480 x 800 x 80	■ ■	ER 3R 137 060	192						
1520 x 600	1630 x 800 x 80	■ ■	ER 3R 152 060	209						
1670 x 600	1780 x 800 x 80	■ ■	ER 3R 167 060	217						
1820 x 600	1930 x 800 x 80	■ ■	ER 3R 182 060	209						
1840 x 600	1950 x 800 x 80	■ ■ ■	ER 3R 184 060	257			ER 3S 184 060	274		
1990 x 600	2100 x 800 x 80	■ ■ ■	ER 3R 199 060	273						
2140 x 600	2250 x 800 x 80	■ ■ ■	ER 3R 214 060	289						
2290 x 600	2400 x 800 x 80	■ ■ ■	ER 3R 229 060	305						
2440 x 600	2550 x 800 x 80	■ ■ ■	ER 3R 244 060	313						
2590 x 600	2700 x 800 x 80	■ ■ ■	ER 3R 259 060	322						
2740 x 600	2850 x 800 x 80	■ ■ ■	ER 3R 274 060	330						
600 x 750	710 x 950 x 80	■	ER 3R 060 075	112						
750 x 750	860 x 950 x 80	■	ER 3R 075 075	128			ER 3S 075 075	139		
1220 x 750	1330 x 950 x 80	■ ■	ER 3R 122 075	205						
1370 x 750	1480 x 950 x 80	■ ■	ER 3R 137 075	221						
1520 x 750	1630 x 950 x 80	■ ■	ER 3R 152 075	236			ER 3S 152 075	259		
1840 x 750	1950 x 950 x 80	■ ■ ■	ER 3R 184 075	298						
1990 x 750	2100 x 950 x 80	■ ■ ■	ER 3R 199 075	314						
2140 x 750	2250 x 950 x 80	■ ■ ■	ER 3R 214 075	330						
2290 x 750	2400 x 950 x 80	■ ■ ■	ER 3R 229 075	346			ER 3S 229 075	379		
600 x 900	710 x 1100 x 80	■	ER 3R 060 090	135			ER 3S 060 090	130		
750 x 900	860 x 1100 x 80	■	ER 3R 075 090	154			ER 3S 075 090	138		
900 x 900	1010 x 1100 x 80	■					ER 3S 090 090	190		
1220 x 900	1330 x 1100 x 80	■ ■	ER 3R 122 090	248			ER 3S 122 090	237		
1370 x 900	1480 x 1100 x 80	■ ■	ER 3R 137 090	267			ER 3S 137 090	247		
1520 x 900	1630 x 1100 x 80	■ ■	ER 3R 152 090	286			ER 3S 152 090	254		
1670 x 900	1780 x 1100 x 80	■ ■					ER 3S 167 090	307		
1820 x 900	1930 x 1100 x 80	■ ■					ER 3S 182 090	357		
1840 x 900	1950 x 1100 x 80	■ ■ ■	ER 3R 184 090	360			ER 3S 184 090	345		
1990 x 900	2100 x 1100 x 80	■ ■ ■	ER 3R 199 090	380			ER 3S 199 090	354		
2140 x 900	2250 x 1100 x 80	■ ■ ■	ER 3R 214 090	398			ER 3S 214 090	362		
2290 x 900	2400 x 1100 x 80	■ ■ ■	ER 3R 229 090	417			ER 3S 229 090	367		
2440 x 900	2550 x 1100 x 80	■ ■ ■					ER 3S 244 090	466		
2590 x 900	2700 x 1100 x 80	■ ■ ■					ER 3S 259 090	473		
2740 x 900	2850 x 1100 x 80	■ ■ ■					ER 3S 274 090	524		
500 x 1000	680 x 1200 x 80	■	ER 3R 050 100	136						
1020 x 1000	1200 x 1200 x 80	■ ■	ER 3R 102 100	246						
1540 x 1000	1720 x 1200 x 80	■ ■ ■ ■	ER 3R 154 100	357						
2060 x 1000	2240 x 1200 x 80	■	ER 3R 206 100	467						
750 x 1200	860 x 1400 x 80	■	ER 3R 075 120	189						
1520 x 1200	1630 x 1400 x 80	■ ■	ER 3R 152 120	347						
2290 x 1200	2400 x 1400 x 80	■ ■ ■	ER 3R 229 120	506						

*VCHC locking system

Network Solutions

C250

clear opening axb (mm)	frame overall dimensions length x width x height (mm)	number of covers	Recessed covers			Solid top covers			
			reference	weight (kg)		reference	weight (kg)		
600 x 600	710 x 800 x 80	■	ER 3P 060 060	100		ER 3T 060 060	108		
1220 x 600	1330 x 800 x 80	■ ■	ER 3P 122 060	184		ER 3T 122 060	195		
1840 x 600	1950 x 800 x 80	■ ■ ■	ER 3P 184 060	268		ER 3T 184 060	287		
900 x 900	1010 x 1100 x 80	■				ER 3T 090 090	197		
1820 x 900	1930 x 1100 x 80	■ ■				ER 3T 182 090	365		
2740 x 900	2850 x 1100 x 80	■ ■ ■				ER 3T 274 090	537		

one removable plug per unit

D400

clear opening axb (mm)	frame overall dimensions length x width x height (mm)	number of covers	Recessed covers			Solid top covers			
			reference	weight (kg)		reference	weight (kg)		
450 x 450	620 x 630 x 125	■				ER 4S 045 045 VCHC	86		
920 x 450	1090 x 630 x 125	■ ■				ER 4S 092 045 VCHC	152		
1390 x 450	1560 x 630 x 125	■ ■ ■				ER 4S 139 045 VCHC	217		
600 x 600	770 x 780 x 125	■				ER 4S 060 060 VCHC	124		
600 x 600	770 x 820 x 150	■	ER 5R 060 060 VCHC	142					
750 x 600	920 x 820 x 150	■	ER 5R 075 060 VCHC	157					
1220 x 600	1390 x 780 x 125	■ ■				ER 4S 122 060 VCHC	220		
1220 x 600	1390 x 820 x 150	■ ■	ER 5R 122 060 VCHC	253					
1370 x 600	1540 x 820 x 150	■ ■	ER 5R 137 060 VCHC	268					
1520 x 600	1690 x 820 x 150	■ ■	ER 5R 152 060 VCHC	282					
1840 x 600	2010 x 780 x 125	■ ■ ■				ER 4S 184 060 VCHC	317		
1840 x 600	2010 x 820 x 150	■ ■ ■	ER 5R 184 060 VCHC	364					
1990 x 600	2160 x 820 x 150	■ ■ ■	ER 5R 199 060 VCHC	378					
2140 x 600	2310 x 820 x 150	■ ■ ■	ER 5R 214 060 VCHC	393					
2290 x 600	2460 x 820 x 150	■ ■ ■	ER 5R 229 060 VCHC	408					
600 x 750	770 x 970 x 150	■	ER 5R 060 075 VCHC	160					
750 x 750	920 x 930 x 125	■	ER 4R 075 075 VCHC	154		ER 4S 075 075 VCHC	171		
750 x 750	920 x 970 x 150	■	ER 5R 075 075 VCHC	186					
1220 x 750	1390 x 970 x 150	■ ■	ER 5R 122 075 VCHC	286					
1370 x 750	1540 x 970 x 150	■ ■	ER 5R 137 075 VCHC	312					
1520 x 750	1690 x 970 x 150	■ ■	ER 5R 152 075 VCHC	339					
1520 x 750	1690 x 930 x 125	■ ■	ER 4R 152 075 VCHC	277					
1520 x 750	1690 x 930 x 125	■ ■				ER 4S 152 075 VCHC	311		
1840 x 750	2010 x 970 x 150	■ ■ ■	ER 5R 184 075 VCHC	411					
1990 x 750	2160 x 970 x 150	■ ■ ■	ER 5R 199 075 VCHC	438					
2140 x 750	2310 x 970 x 150	■ ■ ■	ER 5R 214 075 VCHC	464					
2290 x 750	2460 x 930 x 125	■ ■ ■	ER 4R 229 075 VCHC	401		ER 4S 229 075 VCHC	452		
2290 x 750	2460 x 970 x 150	■ ■ ■	ER 5R 229 075 VCHC	491					
800 x 800	970 x 980 x 125	■	ER 4R 080 080 VCHC	185		ER4S 080 080 VCHC	192		
1620 x 800	1790 x 980 x 125	■ ■	ER 4R 162 080 VCHC	345		ER4S 162 080 VCHC	356		
2440 x 800	2610 x 980 x 125	■ ■ ■	ER 4R 244 080 VCHC	503		ER4S 244 080 VCHC	519		
600 x 900	770 x 1080 x 125	■				ER 4S 060 090 VCHC	174		
600 x 900	770 x 1120 x 150	■	ER 5R 060 090 VCHC	200					
750 x 900	920 x 1120 x 150	■	ER 5R 075 090 VCHC	221					
900 x 900	1070 x 1080 x 125	■	ER 4R 090 090 VCHC	224		ER 4S 090 090 VCHC	215		
1220 x 900	1390 x 1080 x 125	■ ■				ER 4S 122 090 VCHC	315		
1220 x 900	1390 x 1120 x 150	■ ■	ER 5R 122 090 VCHC	359					
1370 x 900	1540 x 1120 x 150	■ ■	ER 5R 137 090 VCHC	381					
1520 x 900	1690 x 1080 x 125	■ ■				ER 4S 152 090 VCHC	356		
1520 x 900	1690 x 1120 x 150	■ ■	ER 5R 152 090 VCHC	402					
1820 x 900	1990 x 1080 x 125	■ ■	ER 4R 182 090 VCHC	414		ER 4S 182 090 VCHC	396		
1840 x 900	2010 x 1080 x 125	■ ■ ■				ER 4S 184 090 VCHC	456		
1840 x 900	2010 x 1120 x 150	■ ■ ■	ER 5R 184 090 VCHC	518					
1990 x 900	2160 x 1120 x 150	■ ■ ■	ER 5R 199 090 VCHC	541					
2140 x 900	2310 x 1080 x 125	■ ■ ■				ER 4S 214 090 VCHC	497,4		
2140 x 900	2310 x 1120 x 150	■ ■ ■	ER 5R 214 090 VCHC	563					
2290 x 900	2460 x 1120 x 150	■ ■ ■	ER 5R 229 090 VCHC	584					
2440 x 900	2610 x 1080 x 125	■ ■ ■				ER 4S 244 090 VCHC	538		
2740 x 900	2910 x 1080 x 125	■ ■ ■	ER 4R 274 090 VCHC	604		ER 4S 274 090 VCHC	578		
500 x 1000	600 x 1220 x 150	■	ER 5R 050 100 VCHC	205					
1000 x 1000	1170 x 1180 x 125	■				ER 4S 100 100 VCHC	273		
1020 x 1000	1190 x 1220 x 150	■ ■	ER 5R 102 100 VCHC	363					
1540 x 1000	1710 x 1220 x 150	■ ■ ■	ER 5R 154 100 VCHC	520					
2020 x 1000	2190 x 1180 x 125	■ ■				ER 4S 202 100 VCHC	508,2		
2060 x 1000	2230 x 1220 x 150	■ ■ ■ ■	ER 5R 206 100 VCHC	676					
3040 x 1000	3210 x 1180 x 125	■ ■ ■				ER 4S 304 100 VCHC	743,3		
750 X 1200	950 x 1380 x 125	■	ER 4R 075 120 VCHC	263					
1520 X 1200	1720 x 1380 x 125	■ ■	ER 4R 152 120 VCHC	464					
2290 X 1200	2490 x 1380 x 125	■ ■ ■	ER 4R 229 120 VCHC	666					

Network Solutions

E600			Recessed covers			Solid top covers		
clear opening axb (mm)	frame overall dimensions length x width x height (mm)	number of covers	reference	weight (kg)		reference	weight (kg)	
600 x 600	770 x 820 x 150	■	ER 6R 060 060	142		ER 6S 060 060	163	
750 x 600	920 x 820 x 150	■ ■	ER 6R 075 060	157		ER 6S 075 060	185	
1220 x 600	1390 x 820 x 150	■ ■	ER 6R 122 060	253		ER 6S 122 060	295	
1370 x 600	1540 x 820 x 150	■ ■	ER 6R 137 060	268		ER 6S 137 060	314	
1520 x 600	1690 x 820 x 150	■ ■	ER 6R 152 060	282		ER 6S 152 060	341	
1840 x 600	2010 x 820 x 150	■ ■ ■	ER 6R 184 060	364		ER 6S 184 060	415	
1990 x 600	2160 x 820 x 150	■ ■ ■	ER 6R 199 060	379		ER 6S 199 060	443	
2140 x 600	2310 x 820 x 150	■ ■ ■	ER 6R 214 060	393		ER 6S 214 060	470	
2290 x 600	2460 x 820 x 150	■ ■ ■	ER 6R 229 060	408		ER 6S 229 060	497	
600 x 750	770 x 970 x 150	■	ER 6R 060 075	160		ER 6S 060 075	191	
750 x 750	920 x 970 x 150	■	ER 6R 075 075	186		ER 6S 075 075	231	
1220 x 750	1390 x 970 x 150	■ ■	ER 6R 122 075	286		ER 6S 122 075	361	
1370 x 750	1540 x 970 x 150	■ ■	ER 6R 137 075	312		ER 6S 137 075	383	
1520 x 750	1690 x 970 x 150	■ ■	ER 6R 152 075	339		ER 6S 152 075	429	
1840 x 750	2010 x 970 x 150	■ ■ ■	ER 6R 184 075	411		ER 6S 184 075	509	
1990 x 750	2160 x 970 x 150	■ ■ ■	ER 6R 199 075	438		ER 6S 199 075	543	
2140 x 750	2310 x 970 x 150	■ ■ ■	ER 6R 214 075	464		ER 6S 214 075	576	
2290 x 750	2460 x 970 x 150	■ ■ ■	ER 6R 229 075	491		ER 6S 229 075	628	
600 x 900	770 x 1120 x 150	■	ER 6R 060 090	200		ER 6S 060 090	234	
750 x 900	920 x 1120 x 150	■	ER 6R 075 090	217		ER 6S 075 090	255	
900 x 900	1070 x 1120 x 150	■				ER 6S 090 090	304	
1220 x 900	1390 x 1120 x 150	■ ■	ER 6R 122 090	359		ER 6S 122 090	429	
1370 x 900	1540 x 1120 x 150	■ ■	ER 6R 137 090	372		ER 6S 137 090	449	
1520 x 900	1690 x 1120 x 150	■ ■	ER 6R 152 090	397		ER 6S 152 090	456	
1670 x 900	1840 x 1120 x 150	■ ■				ER 6S 167 090	504	
1820 x 900	1990 x 1120 x 150	■ ■				ER 6S 182 090	568	
1840 x 900	2010 x 1120 x 150	■	ER 6R 184 090	518		ER 6S 184 090	606	
1990 x 900	2160 x 1120 x 150	■ ■ ■	ER 6R 199 090	526		ER 6S 199 090	645	
2140 x 900	2310 x 1120 x 150	■ ■ ■	ER 6R 214 090	552		ER 6S 214 090	645	
2290 x 900	2460 x 1120 x 150	■ ■ ■	ER 6R 229 090	578		ER 6S 229 090	665	
2440 x 900	2610 x 1120 x 150	■ ■ ■				ER 6S 244 090	713	
2590 x 900	2760 x 1120 x 150	■ ■ ■				ER 6S 259 090	760	
2740 x 900	2910 x 1120 x 150	■ ■ ■				ER 6S 274 090	808	
500 x 1000	670 x 1220 x 150	■	ER 6R 050 100	197				
1020 x 1000	1190 x 1220 x 150	■ ■	ER 6R 102 100	363				
1540 x 1000	1710 x 1220 x 150	■ ■ ■	ER 6R 154 100	499				
2060 x 1000	2230 x 1220 x 150	■ ■ ■ ■	ER 6R 206 100	676				
750 X 1200	950 x 1380 x 125	■	ER 6R 075 120	263				
1520 X 1200	1720 x 1380 x 125	■ ■	ER 6R 152 120	464				
2290 X 1200	2490 x 1380 x 125	■ ■ ■	ER 6R 229 120	666				

*VCHC locking system

Network Solutions

F900			Recessed covers			Solid top covers		
clear opening axb (mm)	frame overall dimensions length x width x height (mm)	number of covers	reference	weight (kg)		reference	weight (kg)	
600 x 600	770 x 820 x 150	■	ER 9R 060 060	142		ER 9S 060 060	158	
750 x 600	920 x 820 x 150	■	ER 9R 075 060	157		ER 9S 075 060	191	
1220 x 600	1390 x 820 x 150	■ ■	ER 9R 122 060	253		ER 9S 122 060	286	
1370 x 600	1540 x 820 x 150	■ ■	ER 9R 137 060	268		ER 9S 137 060	314	
1520 x 600	1690 x 820 x 150	■ ■	ER 9R 152 060	282		ER 9S 152 060	352	
1840 x 600	2010 x 820 x 150	■ ■ ■	ER 9R 184 060	334		ER 9S 184 060	415	
1990 x 600	2160 x 820 x 150	■ ■ ■	ER 9R 199 060	378		ER 9S 199 060	443	
2140 x 600	2310 x 820 x 150	■ ■ ■	ER 9R 214 060	393		ER 9S 214 060	470	
2290 x 600	2460 x 820 x 150	■ ■ ■	ER 9R 229 060	408		ER 9S 229 060	513	
600 x 750	770 x 970 x 150	■	ER 9R 060 075	160		ER 9S 060 075	191	
750 x 750	920 x 970 x 150	■	ER 9R 075 075	186		ER 9S 075 075	231	
1220 x 750	1390 x 970 x 150	■ ■	ER 9R 122 075	286		ER 9S 122 075	361	
1370 x 750	1540 x 970 x 150	■ ■	ER 9R 137 075	312		ER 9S 137 075	383	
1520 x 750	1690 x 970 x 150	■ ■	ER 9R 152 075	339		ER 9S 152 075	430	
1840 x 750	2010 x 970 x 150	■ ■ ■	ER 9R 184 075	411		ER 9S 184 075	509	
1990 x 750	2160 x 970 x 150	■ ■ ■	ER 9R 199 075	438		ER 9S 199 075	543	
2140 x 750	2310 x 970 x 150	■ ■ ■	ER 9R 214 075	464		ER 9S 214 075	594	
2290 x 750	2460 x 970 x 150	■ ■ ■	ER 9R 229 075	491		ER 9S 229 075	628	
600 x 900	770 x 1120 x 150	■	ER 9R 060 090	200		ER 9S 060 090	234	
750 x 900	920 x 1120 x 150	■	ER 9R 075 090	217		ER 9S 075 090	217	
900 x 900	1070 x 1120 x 150	■				ER 9S 090 090	303	
1220 x 900	1390 x 1120 x 150	■ ■	ER 9R 122 090	359		ER 9S 122 090	429	
1370 x 900	1540 x 1120 x 150	■ ■	ER 9R 137 090	372		ER 9S 137 090	436	
1520 x 900	1690 x 1120 x 150	■ ■	ER 9R 152 090	397		ER 9S 152 090	456	
1670 x 900	1840 x 1120 x 150	■ ■				ER 9S 167 090	504	
1820 x 900	1990 x 1120 x 150	■ ■				ER 9S 182 090	568	
1840 x 900	2010 x 1120 x 150	■ ■ ■	ER 9R 184 090	518		ER 9S 184 090	606	
1990 x 900	2160 x 1120 x 150	■ ■ ■	ER 9R 199 090	526		ER 9S 199 090	626	
2140 x 900	2310 x 1120 x 150	■ ■ ■	ER 9R 214 090	552		ER 9S 214 090	645	
2290 x 900	2460 x 1120 x 150	■ ■ ■	ER 9R 229 090	584		ER 9S 229 090	665	
2440 x 900	2610 x 1120 x 150	■ ■ ■				ER 9S 244 090	713	
2590 x 900	2760 x 1120 x 150	■ ■ ■				ER 9S 259 090	760	
2740 x 900	2910 x 1120 x 150	■ ■ ■				ER 9S 274 090	808	
500 x 1000	670 x 1220 x 150	■	ER 9R 050 100	197				
1020 x 1000	1190 x 1220 x 150	■ ■	ER 9R 102 100	362				
1540 x 1000	1710 x 1220 x 150	■ ■ ■	ER 9R 154 100	519				
2060 x 1000	2230 x 1220 x 150	■ ■ ■ ■	ER 9R 206 100	676				

*VCHC locking system

F900 solid top cover with removable plug

clear opening axb (mm)	frame overall dimensions length x width x height (mm)	number of covers	reference	weight (kg)	
750 x 750	920 x 970 x 150	■	ER 9T 075 075	238	
1520 x 750	1690 x 970 x 150	■ ■	ER 9T 152 075	444	
2290 x 750	2460 x 970 x 150	■ ■ ■	ER 9T 229 075	651	

* VCHC locking system

Hinged cover with removable plug
(central, clear opening: 380 x 230 mm)

For more information on ERMATIC® duct covers, ERMATIC® multiple units with removable beams: please contact our Sales Team

Network Solutions

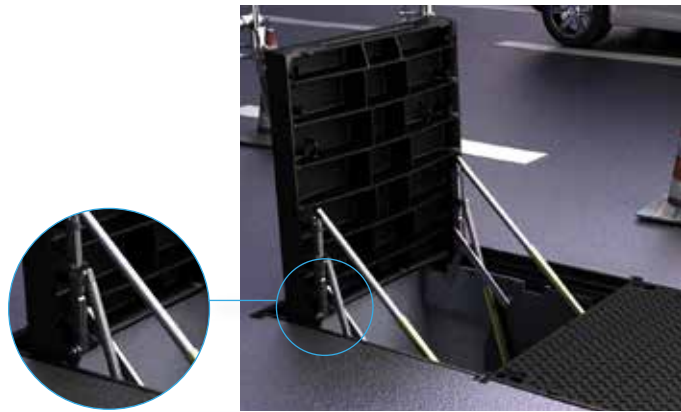
Hinged and assisted opening on the covers

Hinged and assisted opening system on the covers

All solid top Ermatic covers (from Class B125 to class F900) are available with a hinge and lift assist opening system.

Please enquire.

Note: for duct and beam multiple covers, technical assistance is provided on site.



Options

Where appropriate: choice of coil spring or gas struts (standard or stainless steel)

Please consult us for more details.

Operation

Opening of hinged covers

Hinged covers always open in sequence as marked on the covers.





Telecommunication Solutions

- C2 E600
- C2 D400
- C2 B125
- C4 B125/C250
- C5 Accessories

Telecommunications Solutions





E600	features How to specify product	product code	description	clear opening (mm)	overall (mm)	height (mm)	weight (kg)
DT6S EN124 E600 	Material- ductile iron cover and frame Double triangular covers loosely connected for non-rock performance Open keyways Solid bedding flange with six bolt down holes Monoblock frame, no welded joints, no bolted joints Four frame sling points	522648 520504 522649	DT6S 107.065 DT6S 075.060 DT6S 107.075	1070 x 650 750 x 600 1070 x 750	1220 x 850 900 x 800 1220 x 950	125 150 150	247 196 314
DT6S AV EN124 E600 	Material- ductile iron cover and frame Hinged and lockable cover and frame with covers blocking at 90° for security Triangular seating Monobloc frame Options: Locking Key	524875 524874 514827	DT6S183068AVOTC DT6S122068AVOTC HEAVY DUTY OTCI LOCKING KEY	1830 x 680 1220 x 680	2017 x 915 1400 x 915	150 150	
D400							
DT4S AV EN124 D400 	Material ductile iron cover and frame Hinged and lockable cover and frame with covers blocking at 90° for security and resting at 105° Triangular seating Monobloc frame Options: Locking Key	518869 518922 514827	DT4S183068AVOTC DT4S122068AVOTC HEAVY DUTY OTCI LOCK-ING KEY	1830 x 680 1220 x 680	2017 x 915 1400 x 915	150 150	381 263
BT4S AV EN124 D400 	Material- ductile iron cover and frame Hinged and lockable cover and frame with covers blocking at 90° for security and resting at 105° Triangular seating Monobloc frame with internal hinges When open: one large side protected access Options: Locking Key	520667 532435	BT4S122068AV BT4S061061AV	1220 x 680 612 x 612	1400 x 915 902 x 902	150 150	321 176
B125							
JB1 EN124 B125 	Material- ductile iron cover in a galvanised steel frame Sealed keyways Single cover Locking arrangement (patented design)	710085	JB1 BLANK	385 x 260	590 x 445	52	16

Telecommunications Solutions

B125	features How to specify product	product code	description	clear open- ing (mm)	overall (mm)	height (mm)	weight (kg)
JB2 EN124 B125 	Material- ductile iron cover in a galvanised steel frame Sealed keyways Single cover Locking arrangement (patented design) Options: Can be supplied unlocked	710093	JB2 BLANK	730 x 260	920 x 455	52	27
JB4 EN124 B125 	Material- ductile iron cover in a galvanised steel frame Single cover Locking arrangement (patented design) Options: Also available in multiple units, refer to table Wide selection of badging available	710908 710909 710910 710911	JB4 BLANK JB4A BLANK JB4B BLANK JB4C BLANK	915 x 445 975 x 915 1500 x 915 2030 x 915	1110 x 640 1170 x 1110 1710 x 1110 2330 x 1110	52 52 56 56	59 116 190 253
JB5 EN124 B125 	Material- ductile iron cover in a galvanised steel frame Sealed keyways Single cover Locking arrangement (patented design) Options: Wide selection of badging available	710097	JB5 BLANK	615 x 615	705 x 705	52	44
JB6 EN124 B125 	Material- ductile iron cover in a galvanised steel frame Sealed keyways Single cover Locking arrangement (patented design)	710098	JB6 BLANK	1310 x 615	1401 x 705	52	97
CFS EN124 B125 	Material- ductile iron cover and frame Hinged and lockable cover and frame with covers blocking at 90° for security and resting at 105° Lifting effort < 30 daN Monobloc frame Options: Locking Key	528489 528486 514827	CF2S122068AV CF2S058068AV OTC KEY	1220 x 685 689 x 586	1350 x 871 856 x 742	75 75	140 74

Please note: Overall dimensions of the JB covers include the grouting bars.

Telecommunications Solutions

C250/B125	features How to specify product	product code	description	chamber type	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (mm)
TI MODULO C250 	Ductile iron access chamber and cover with locking system TI turnbuckle locking system with coded key	51838301	TI MODULO		376 x 376	480 x 480	268	59
Accessories GS30D 	Individually hinged jail bar safety grid	Various sizes available, please contact the Sales Team.						
HANDLING HOOKS 	Handling hooks with handle Galvanised steel handling hooks with two handles for telecom covers	517082	HANDLING HOOKS WITH HANDLE					2,3
GP 	Grid with safety blocking Galvanised steel Captive hinge to be grouted to wall chamber Lockable on request (padlock not supplied) Resistance : 150 kg	Various sizes available, please contact the Sales Team.						

Product locking and customisation

The telecommunication product specialist, **EJ** provides major telecom operators with customised products and specific locking systems throughout Europe. Numerous utility providers have engaged with us to design bespoke product solutions. Please contact our Sales Team for further information on customised products.

Global Crossing



Kingston



Eircom



Increased Security Protection Horizontal locking system - 20' resistance against vandalism*

*according to CNPP laboratories



Locking key
customisable
key head



Invisible locking
device.
Protected
from weather
elements.



Self-cleaning

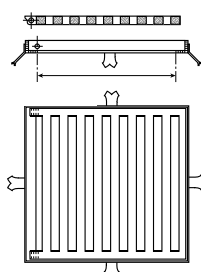
Telecommunications Solutions

Accessories	features How to specify product	product code	reference	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (kg)
Ductile iron grating GV 30	Sump grating	501816	A15 STANDARD GPC30	255 x 300	305 x 350	25	4,8
		501815	HINGED GPA30	255 x 300	305 x 350	25	4,8
	Hinged ventilation grating	501859	250KN HINGED GV 30 A	255 x 300	305 x 350	25	10,6
		501860	HINGED LOCKED GV 30 AV	255 x 300	305 x 350	25	11

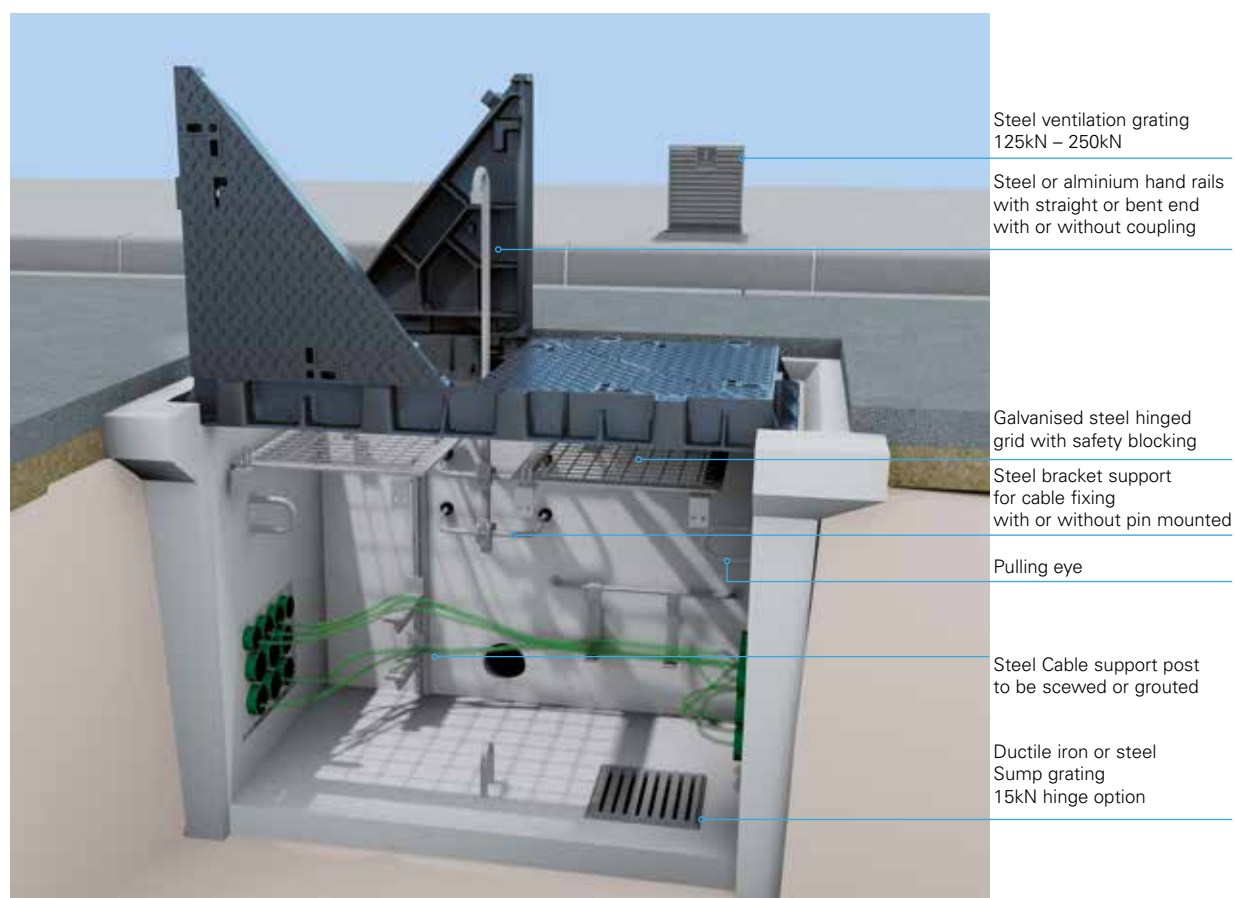
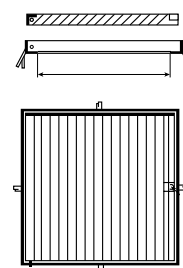


Steel grating GALVANISED STEEL GRATING

61800002
Sump grating 15kN
Opening from 60° to 80°
Dim. : 360 x 360
Weight : 5 kg

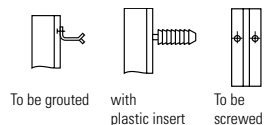
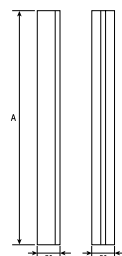
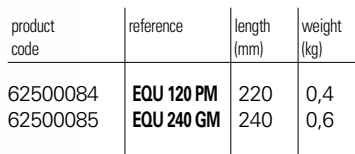


61800001
Ventilation grating
Locked 125kN
Lockable with key
Dim.: 400 x 400
Weight : 13 kg



ACCESSORIES

Galvanised steel post on 50 x 50 x 5 - T profile



height (mm)	weight (kg)
800	4,0
990	4,7
1750	8,0

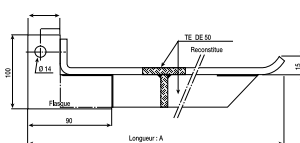
A diagram of a U-shaped member. The horizontal base consists of two rectangular feet, each with a width of 20. The vertical distance between the inner faces of these two feet is 60. The member is formed by a single continuous curved line connecting the top inner corners of the two feet.

product code	Ø	height (mm)	weight (kg)
62500240	20	210	1,3

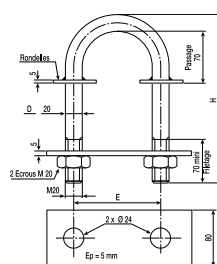
Other dimensions, please enquire

with plate

product code	length (mm)	weight (kg)
62500067	350	2,2
62500069	450	3
62500071	550	3,3
62500072	650	3,8
62500073	750	4,3

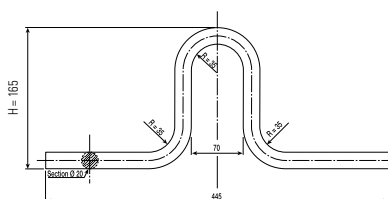


Other dimensions,
please enquire



product code	Ø	height (mm)	spacing	weight (kg)
62500075	20	235	100	2,2
62500074	20	265	90	1,8
62500076	20	265	100	1,8

product code	Ø	weight (kg)
62500083	20	2

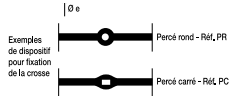
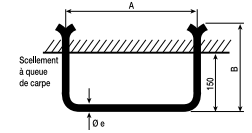


Other dimensions, please enquire
2 references

Telecommunications Solutions

Chamber and manhole step iron

GALVANISED STEEL STEP IRON

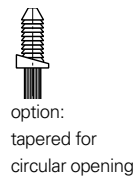
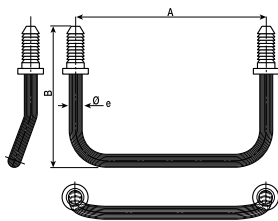


Galvanised steel
«fishtail» end
round drilled or square
drilled
for steel
hand rail

62500088
62500086
62500087

reference	dimensions (mm)				weight (kg)
	A	C	B	e	
ECHACI3021	300		210	22	2,6
ECHACI3021 PC	300		210	22	2,6
ECHACI3021 PR	300		210	22	2,6

ALUMINIUM STEP IRON



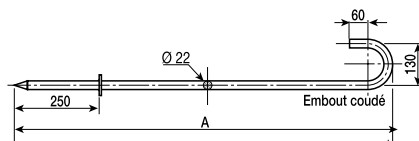
Anti-slip
aluminium steps
PE Coupling
injected
patented

Aluminium step for straight wall
62500089
62500091
62500090
62500092
Aluminium step for circular wall
62500094
62500096
62500095

ECHALU3019	300		190	21	0,3
ECHALU3022	300		220	21	0,3
ECHALU3319	330		190	21	0,3
ECHALU3322	330		220	21	0,4
ECHALU3019 R	300		190	21	0,3
ECHALU3022 R	300		220	21	0,4
ECHALU3319 R	330		190	21	0,3

Hand rails

STEEL HAND RAIL



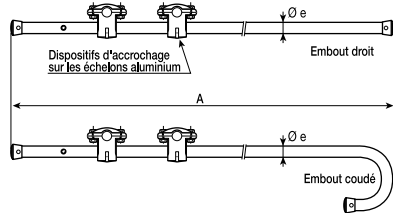
Galvanised steel
bent handle rail
with stop ring
To be fixed on ladder or
step iron

Bent handle rail

62500112
62500130

CRO1200C ACIER	1200			22	4
CRO1750C ACIER	1750			22	5

ALUMINIUM HAND RAIL



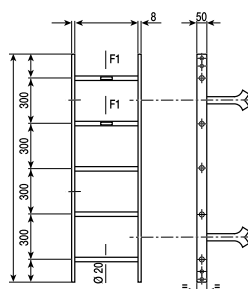
Aluminium
Manchon
plastique
To be fixed on ladder or
step iron
Patented

Aluminium straight handle rail
62500118
62500236
62500219
Aluminium angled hand rail
62500115
62500116
62500117

CRO1000D ALU	1000			25	1,6
CRO1200D ALU	1200			25	2,4
CRO1500D ALU	1500			25	2,6
CRO1000C ALU	1000			25	2
CRO1200C ALU	1200			25	2,4
CRO1500C ALU	1500			25	3

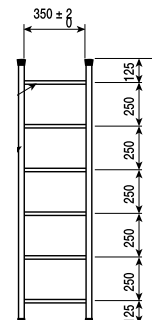
Ladders

LADDERS



GALVANISED STEEL LADDER 350728

Galvanised steel ladder
To be screwed
Length on demand
Multiple of 300 mm
Weight per meter : 11 kg

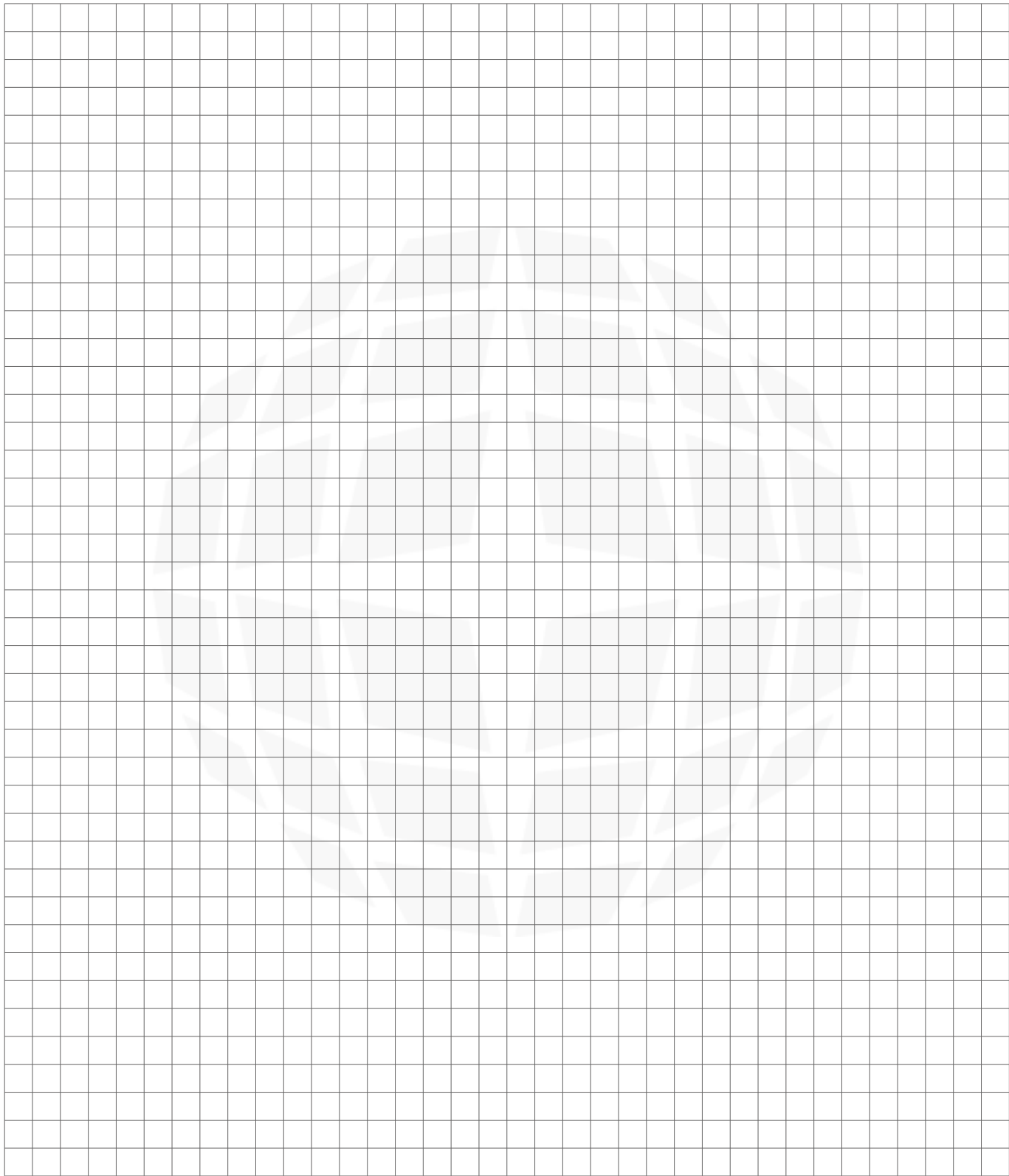


ALUMINIUM LADDER

350741 with coupling to be screwed
350922 to be grouted

Aluminium ladder
Anti-slip
Length on demand
Multiple of 250 mm
Weight per meter : 3,5 kg

Notes



Drainage Gratings



- D2** Gully Gratings
F900/E600
D400
- D6** Trapped Gullys
- D6** Gully Gratings
C250 Flat
- D7** Kerbside Entry Gratings
- D7** Linear Gratings
F900
D400
C250
125kN
- D9** Accessories

Drainage Gratings

Gully Gratings	features How to specify product	product code	reference	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (kg)	waterway area (cm2)
F900								
<div>SOLO FGC</div> <div>EN124 F900</div> <div></div>	<div>Hinged ductile iron grating and frame F900 to EN124:1994 650mm dia. over grate dimension Square 100mm deep frame Non rock by means of polychloroprene cushioning insert glued to the cover Hinged grating allows for easy opening Grating is safety blocked at 90° and rests at 115° Third party certified with AFNOR NF mark.</div> <div>Options: Selflevel frame, circular frame</div>	<div>528457</div> <div>528473</div>	<div>SOLO SFGC</div> <div>SOLO SFGC</div> <div>VOTC</div>	<div>Ø600</div> <div>Ø600</div>	<div>850 x 850</div> <div>850 x 850</div>	<div>100</div> <div>100</div>	<div>113</div> <div>113</div>	<div>1010</div> <div>1010</div>
<div>GF5050AVT12 SELF</div> <div>EN124 F900</div> <div></div>	<div>Hinged ductile iron grating and frame F900 to EN124:1994 500x500mm over grate dimension Square Selflevel 245mm deep frame Non rock covers by means of three point suspension Locked with stainless steel HM12 turnbuckle Hinged grating allows for easy opening Third party certified with AFNOR NF mark</div>	<div>532120</div>	<div>GF5050AVT12 SELF</div>	<div>342 x 342</div>	<div>645 x 645</div>	<div>245</div>	<div>96</div>	<div>740</div>
<div>ER9G100045</div> <div>EN124 F900</div> <div></div>	<div>Ductile iron grating and frame F900 to EN124:1994 900x550mm over grate dimension Rectangular 125mm deep frame Non rock covers by means of machined seatings</div>	<div>513157</div>	<div>ER9G100045</div>	<div>900 x 450</div>	<div>1000 x 650</div>	<div>125</div>	<div>170</div>	<div>2038</div>
E600								
<div>GE2450EH CALDER</div> <div>EN124 E600</div> <div></div>	<div>Captive hinged ductile iron grating and frame E600 to EN124:1994 446x443mm over grate dimension Square 100mm deep frame Non rock</div> <div>Option: reversible hinge to suit traffic direction</div>	<div>512706</div>	<div>GE2450EH CALDER</div>	<div>396 x 348</div>	<div>592 x 530</div>	<div>100</div>	<div>54</div>	<div>925</div>
D400								
<div>SOLO GRATING</div> <div>EN124 D400</div> <div></div>	<div>Hinged ductile iron grating and frame, D400 to EN124:1994, 650mm dia. over grate dimension, 105mm deep frame, Non rock by means of polychloroprene cushioning insert glued to the grating, Hinged grating allows for easy opening Third party certified with AFNOR NF mark.</div> <div>Options: selflevel frame, square frame</div>	<div>512939</div> <div>514810</div>	<div>SOLO SGC</div> <div>SOLO SGC VOTC</div>	<div>Ø600</div> <div>Ø600</div>	<div>850 x 850</div> <div>850 x 850</div>	<div>105</div> <div>105</div>	<div>71</div> <div>71</div>	<div>1010</div> <div>1010</div>





Drainage Gratings

Gully Gratings	features How to specify product	product code	reference	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (kg)	waterway area (cm2)
BRIO GRATING EN124 D400	Hinged ductile iron grating and frame, D400 to EN124:1994, 650mm dia. over grate dimension, 100mm deep frame, Non rock by means of polyethylene cushioning insert fixed to the frame. 5 centering guides to minimise cover lateral movement, 1 integrated and retractable handle for ease of handling, Third party certified with AFNOR NF mark. Options: square frame, locking (OTC)	515529 515532	BRIO GC BRIO SGC	Ø600 Ø600	850 x 850 850 x 850	100 100	71 71	1020 1020
Double triangular gully gratings								
TAMAR EN124 D400	Ductile iron grating and frame, D400 to EN124:1994, 610x610mm over grate dimension, 100mm deep, Four sided frame, Non rock by means of three point suspension, Third party certified by BSI KM. Options: locking	512428 512593 520459 524097	TAMAR TAMAR 150 GD 50 50 MEDWAY	600 x 600 600 x 600 450 x 450 600 x 600	758 x 758 758 x 758 650 x 650 748 x 748	100 150 100 100	99 119 61 82	2000 2000 1000 1470
RAPIER 100 EN124 D400	Ductile iron grating and frame, D400 to EN124:1994, 545X525mm over grate dimension, 100mm deep, three sided frame, Non rock covers by means of three point suspension, Third party certified by BSI KM. Options: C250 version available	710198	RAPIER 100	430 x 390	545 x 525	100	42	1060
SELFLEVEL GRATING EN124 D400	Ductile iron grating and frame, D400 to EN124:1994, 500X500mm over grate dimension, 235mm deep, four sided frame, Non rock by means of three point suspension, Third party certified by AFNOR NF.	522789	GD 5050 SELFLEVEL	Ø 340	645 x 606	235	71	1000
HUMBER EN124 D400	Ductile iron grating and frame, D400 to EN124:1994, 440x440mm over grate dimension, Non rock by means of three point suspension, 3 sided frame Third party certified by BSI KM. Options: locking	512429 532947	HUMBER 100 HUMBER 150	372 x 372 372 x 372	600 x 530 600 x 530	100 150	43 52	1012 1012

Drainage Gratings

Gully Gratings

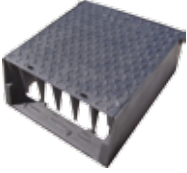
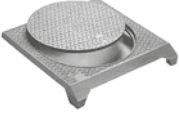


Drainage Gratings

Gully Gratings	features How to specify product	product code	reference	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (kg)	waterway area (cm2)
BISON 100 EN124 D400 	End hinged ductile iron grating and frame, D400 to EN124:1994, 495x345 over grate dimension, 100mm deep, three sided frame, Non rock, Third party certified by BSI KM. Options: locking, reversible hinge to suit traffic direction	710155	BISON 100	495 x 345	645 x 440	100	43	1140
		710157	Locked BISON 100 LKD	495 x 345	645 x 440	100	43	1140
BUFFALO 100 EN124 D400 	End hinged ductile iron grating and frame, D400 to EN124:1994, 430x375mm over grate dimension, 100mm deep, three sided frame, Non rock, Third party certified by BSI KM. Options: locking, reversible hinge to suit traffic direction	710190	BUFFALO 100	430 x 375	525 x 525	100	35	1140
		710191	Locked BUFFALO 100 LKD	430 x 375	525 x 525	100	35	1140
JAGUAR 100 EN124 D400 	Kerb hinged ductile iron grating and frame, D400 to EN124:1994, 430x370mm over grate dimension, 100mm deep, three sided frame, Non rock, Third party certified by BSI KM. Options: locking	710159	JAGUAR 100	430 x 370	525 x 520	100	37	1070
		710160	Locked JAGUAR 100 LKD	430 x 370	525 x 520	100	37	1070
LION 100 EN124 D400 	End hinged ductile iron grating and frame, D400 to EN124:1994, 510x410mm over grate dimension, 100mm deep, three sided frame, Non rock, Third party certified by BSI KM. Options: locking, reversible hinge to suit traffic direction	710124	LION 100	360 x 310	510 x 400	100	31	745
		710125	Locked LION 100 LKD	360 x 310	510 x 400	100	31	745
400 kN								

Drainage Gratings

Trapped Gully Gratings	features How to specify product	product code	reference	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (kg)	waterway area (cm2)
AQUERA 400kN 	Ductile iron grating and galvanised steel frame, 400kN, 140mm deep frame, Non rock covers by means of three point suspension, Pedestrianised slots Options: can be assembled to form a channel or a beam multiple unit	61760073	FC4G062047	620 x 476	780 x 736	430		1470
		61760088	VOTC LR	1854 x 476	2014 X 736	430		4410
		61760072	FC4G185048	1237 x 1106	1397 x 1366	430		2940
		61760070	VCHC LR FC4G123110 VCHC LR FC4G185173 VOTC LR	1854 x 1736	2014 x 1996	430		4410
AV 450/AV 660 EN124 D400 	Integrated kerb gully with captive hinged grating, Ductile iron grating and frame, D400 to EN124:1994, 220X730mm over grate dimension, 450 or 660mm deep frame, Non rock covers by means of three point suspension, Dual function: siphon and settling of solids. Front connecting drain port for DN160 pipes, Third party certified with AENOR NF mark.	528886	AV450 SH160	730 x 220	750 x 290	450	114	680
		528888	AV660 SH160	730 X 220	750 X 290	660	136	680
C250								
LION EN124 C250 	End hinged ductile iron grating and frame, C250 to EN124:1994, 75mm deep, Three sided frame, Third party certified by BSI KM. Options: locking	710112	LION 75	365 x 310	515 x 400	75	23	679
		710118	Locked LION 75 LKD	365 x 310	515 x 400	75	23	674
		710119	Pedestrianised LION STAR LKD	365 x 310	515 x 400	75	24	606
PV EN124 C250 	Ductile iron grating and frame, C250 to EN124:1994, Selflocking by means of spring bars, Third party certified with AFNOR NF mark.	510618	P 400 V	350 x 350	422 x 422	35	17	780
		510619	P 500 V	450 x 450	523 x 523	35	27	1200
		510620	P 600 V	550 x 550	624 x 624	40	43	1700
		511132	P 700 V	650 x 650	725 x 725	40	67	2000
		511133	P 800 V	745 x 745	826 x 826	40	88	2780
PV LR EN124 C250 	Ductile iron grating and frame, C250 to EN124:1994, 450x450mm over grate dimension, Selflocking by means of spring bars, Third party certified with AFNOR NF mark.	538328	P400V LR	350 x 350	450 x 450	50	21	940
		538329	P500V LR	450 x 450	550 x 550	50	32	1450
		538330	P600V LR	550 x 550	650 x 650	60	52	2050

Drainage Gratings

Kerbside entry Gratings	features How to specify product	product code	reference	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (kg)	waterway area (cm2)
SAHARA KERBSIDE EN124 B125/C250 	Gully captive hinged cover ductile iron cover and frame, C250 to EN124:1994, 512x578mm overall frame dimension, 220mm deep frame, 2 BS closed keyways, Hinged grating allows for easy opening Third party certified by BSI KM.	522912	SAHARA	480 x 480	512 x 578	220	66	960
PR3 EN124 C250 	Kerb gully ductile iron cover and frame, C250 to EN124:1994, 800x830mm overall dimensions, 610mm dia. cover clear opening, 70mm deep frame, Third party certified with AFNOR NF mark. Options: custom badging available	502512	PR3	Ø610	830 x 800	200	70	520
TEMPO 500 EN124 C250 	Kerb gully ductile iron cover and frame, C250 to EN124:1994, Selflocking by means of spring bars, Hinged grating allows for easy opening Third party certified with AFNOR NF mark. Options: custom badging available	518698 528035	TEMPO 500 A TEMPO 500 T	Ø370 Ø370	610 x 620 610 x 620	125 205	44 47	700 700
TEMPOPLUS LR EN124 C250 	Kerb gully with hinged grating and top ductile iron cover, grating and frame, C250 to EN124:1994, Selflocking by means of spring bars, The cover and grating open easily with the hinges, Rest at 100° and are removable from the vertical position, Pedestrianised gratings slots, Third party certified with AFNOR NF mark. Options: custom badging available	538353 538333 538334	TEMPO PLUS DROIT LR TEMPO PLUS A LR TEMPO PLUS T LR	680 x 420 680 x 500 680 x 500	800 x 659 800 x 659 800 x 659	70-180 60-80 100-180	85 80 90	475 475 475

Drainage Gratings

Linear Drainage	features How to specify product	product code	reference	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (kg)	waterway area (cm2)
F900								
<div>CA 1040 FVLV CA 1055 FLV EN124 F900</div> <div></div>	Linear trench ductile iron grating and frame, F900 to EN124:1994, 100mm deep frame with locating lugs, Non rock, Selflocking by means of spring bars and stainless steel bolts, Third party certified with AFNOR NF Options: end bars (pair), frame levelling kit	532105 528251	CA 1040 FVLV CA 1055 FLV	1000 x 305 1000 x 450	1000 X 400 1000 X 555	100 100	97 128	1860 2545
<div>CA 1070 FLV CA 1085 FVL EN124 F900</div> <div></div>	Linear trench ductile iron grating and frame, F900 to EN124:1994, 100mm deep frame with locating lugs, Non rock, Selflocking by means of spring bars and stainless steel bolts, Third party certified with AFNOR NF Options: end bars (pair), frame levelling kit	522289 538074	CA1070 FLV CA1085 FVL	1000 x 610 1000 x 760	1000 x 700 1000 x 1028	100 100	180 215	2434 3000
D400								
<div>CA 10.. DVL EN124 D400</div> <div></div>	Linear trench ductile iron grating and frame, D400 to EN124:1994, 100mm deep frame with locating lugs, Non rock, Selflocking by means of spring bars and stainless steel bolts, Third party certified with AFNOR NF Options: end bars (pair), frame levelling kit	522823 01 522824 522825 522826 01 528919	CA1030DVL CA1040DVL CA1050DVL CA1060DVL CA 05110 DVL	1000 X 210 1000 X 310 1000 X 410 1000 X 510 500 x 1000	1000 X 300 1000 X 400 1000 X 500 1000 X 600 650 x 1270	100 100 100 100 103	56 67 84 100 100	1023 1563 1871 2443 2514
C250								
<div>CA 75.. EN124 C250</div> <div></div>	Linear trench ductile iron grating, C250 to EN124:1994, Channel grating to be placed on 30x30x3 steel angles or ductile iron frame, Third party certified with AFNOR NF Options: C7 frame	500575 500576 500577 500578 500580 500586 500587 500588	CA752 CA752B CA753 CA753B CA754 CA755 CA756 CA757	750 X 140 750 X 210 750 X 240 750 X 310 750 X 340 750 X 440 750 X 540 750 X 640	750 X 200 750 X 250 750 X 300 750 X 350 750 X 400 750 X 500 750 X 600 750 X 700	27 27 27 27 27 27 27 27	14 15 20 21 25 36 46 56	900 760 900 1100 1300 1590 1900 2100
<div>CA750 LR EN124 C250</div> <div></div>	Linear trench ductile iron grating, C250 to EN124:1994, 750x300mm over grate dimension, Channel grating to be placed on 30x30x3mm steel angles or ductile iron frame, Pedestrianised gratings slots, Third party certified with AFNOR NF Options: C7 frame	520538 538331 01 538332 01	CA 753 LR CA 754 LR CA 755 LR	750 X 240 750 X 340 750 X 440	750 X 300 750 X 400 750 X 500	27 27 27	24 27 38	720 924 1129
125 kN								
<div>LE 500 125kN</div> <div></div>	Material-ductile iron with galvanised frame Channel grating (500 mm lengths) may be placed on 30 x 30 x 3 mm steel angle iron frames Diamond shaped slots on grating suitable for cyclists	502233 502234 502235	LE 502 LE 502 B LE 503	500 X 140 500 X 190 500 X 260	500 X 200 500 X 250 500 X 300	27 27 27	9 9 12	420 580 700

Drainage Gratings

Accessories	features How to specify product	product code	reference	clear opening (mm)	overall dimensions (mm)	height (mm)	weight (kg)
C 750 C250 	Steel frame, to suit CA75x grating series, 37mm deep frame.	501051	C752	710 x 160	790 x 230	37	9
		501052	C752B	710 x 210	790 x 280	37	9
		501054	C753	710 x 260	790 x 330	37	10
		501055	C753B	710 x 310	790 x 380	37	10
		501058	C754	710 x 360	790 x 430	37	11
		501059	C755	710 x 460	790 x 530	37	11
		501060 02	C756	710 x 560	790 x 630	37	13
		501064	C757	710 x 660	790 x 730	37	13
FRAME BARS C250 	Ductile iron rails Fully compatible with the range of grating ductile iron components which do not bend to ensure a level finish	510957	C10001 FRAMEBAR G. 1M				7
		510958	C10001 FRAMEBAR D. 1M				7
		502244	LG075 FRAMEBAR				3
ANGLE IRON C250 	2 m long steel angle iron with anchor bolts		ANGLE IRON 30 X 30 X 3 MM				3
END PLATES 	Pair of cast iron end plates for even finish Protects the ends of the gratings	528572	PEDF3003.04	CA1030			10
		528706 01	PEDF4003.04	CA1040			12
		528573	PEDF5003.04	CA1050			15
		528574	PEDF5503.04	CA1055			16
		528575	PEDF6003.04	CA1060			18
		528920	PEDF11003.04	CA05110			26
LUGS For CA750 GRATING 	Lugs in galvanised steel to align the CA 750 range of grating	350199	CLAVET 1	CA752/753/753B/755			0,2
		350200	CLAVET 2	CA752B/754			0,2
		350201	CLAVET 3	CA756/757			0,2
		350202	CLAVET CALR	CA750 LR			0,2

Drawings, photographs and weights are given as an indication only and without any contractual value.

Our policy is one of continuous product improvement, we reserve the right to modify product specifications without prior notice.

Manufacturing sites of welded galvanised steel products, Ardennes, France and Birr, Ireland.



At EJ our advanced product design capabilities enable us to bring further innovations to the market place. Our range of Fabricated steel products are available in drop-in and hinged formats and include provision for spring and gas assistance for easier handling. The covers also feature options to provide fall protection and a range of locking variants. Available in single, double, triple and multiple leaf variants they are designed to meet the load conditions found in utility environments today. You can choose between galvanised steel, stainless steel or aluminium finishes.

We are making good things happen

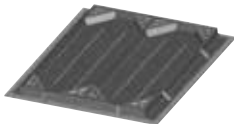



Fabricated Steel Products


- E2** Telecom
- E4** Public Lighting
- E4** Water Supply / Sanitation
- E6** Sewerage Networks
- E8** Flush Floor Range
- E10** Upstand Covers
- E12** Safety Grids



Fabricated Steel

Telecom	features How to specify product	product code	reference	clear opening (mm)	overall (mm)	height (mm)	weight (mm)
KC TR4R 400KN 	Recessed cover and frame 400 kN Galvanised cover and frame Depth of recess 48 mm 4 open keyholes per cover to aid lifting Locked by OTC bolt	61300064	K1C TR4R R48V	750 x 750	870 x 870	195	98
		61300065	K2C TR4R R48V	750 x 1500	870 x 1620	195	220
		61300076	K3C TR4R R48V	750 x 2250	870 x 2370	195	324
ANTI SKID COVER 125KN 400KN 	Single cover to fit angled frame 60 x 60 x 5 mm Anti skid chequer plate finish 4 open keyholes per cover to aid lifting	125 kN					
		62200006	B 050 032 ACIER		485 x 316	54	11
		62200176	B 063 050 ACIER		633 x 495	54	26
		62200009	B 099 063 ACIER		990 x 633	54	42
		250 kN					
		62200008	C 063 050 ACIER		633 x 495	54	26
		62200010	C 099 063 ACIER		990 x 633	54	49

Fabricated Steel

Telecom	features How to specify product	product code	reference	clear opening (mm)	overall (mm)	height (mm)	weight (mm)
LT LY3R R48 KC LY4R R48 250kN 400kN 	250kN Hinged cover and frame to 250 kN Galvanised steel cover and frame Depth of recess 48 mm 2 open keyholes per cover to aid lifting Assisted opening Gas Spring Struts Covers with OTC locking system	61600014	L1T LY3R AVH R48	527 x 389	647 x 509	255	65
	400kN Hinged cover and frame to 400 kN Galvanised steel cover and frame Depth of recess 48 mm 2 open keyholes per cover to aid lifting Assisted opening Gas Spring Struts Covers with OTC locking system	61600111 61600089 61600153	K1C LY4R AVH R48 K2C LY4R AVH R48 K3C LY4R AVH R48	750 x 750 750 x 1500 750 x 2250	870 x 870 870 x 1620 870 x 2370	292 292 292	140 242 350
	250kN Hinged cover and frame to 250 kN Galvanised steel cover and frame Depth of recess 90 mm 2 open keyholes per cover to aid lifting Assisted opening Gas Spring Struts Covers with OTC locking system	Please contact our Sales team for a range of dimensions					
	400kN Hinged cover and frame to 400 kN Galvanised steel cover and frame Depth of recess 90 mm 2 open keyholes per cover to aid lifting Assisted opening Gas Spring Struts Covers with OTC locking system	61600122 61600146 61600077	K1C LY4R AVH R90 K2C LY4R AVH R90 K3C LY4R AVH R90	750 x 750 750 x 1500 750 x 2250	940 x 940 940 x 1690 940 x 2440	330 330 330	171 298 436

Fabricated Steel

Public Lighting	features How to specify product	product code	reference	clear opening (mm)	overall (mm)	height (mm)	weight (mm)
<div>EP TS3S GP</div> <div>250KN</div> <div></div>	Cover and frame to 250 kN Galvanised steel cover and frame Anti Skid chequer plate finish 2 open keyholes per cover to aid lifting Safety protection grid capable of holding up to 150kg	61100002 61100004 61100006 61100008	EP60 TS3S GP EP80 TS3S GP EP100 TS3S GP EP120 TS3S GP	580 x 580 780 x 780 780 x 980 780 x 1180	700 x 700 900 x 900 900 x 1100 900 x 1300	60 60 60 60	55 86 102 115
<div>EP TS3S A GP</div> <div></div>	Hinged cover and frame to 250 kN Galvanised steel cover and frame Anti skid chequer plate finish 2 open keyholes per cover to aid lifting Safety protection grid capable of holding up to 150kg	61100086 61100087 61100088 61100089	EP60 TS3S A GP EP80 TS3S A GP EP100 TS3S A GP EP120 TS3S A GP	600 x 600 780 x 780 980 x 780 1180 x 780	720 x 720 900 x 900 1100 x 900 1300 x 900	200 200 200 200	57 112 122 136
Water supply							
<div>PDC</div> <div></div>	Hinged cover and frame Galvanised steel cover and frame Anti skid chequer plate finish 1 retractable lifting handle	62400002 62400004	PDC 860R PDC 1060R	780 x 780 980 x 980	860 x 860 1060 x 1060	25 25	32 50
Sanitation							
<div>AS TL3R</div> <div>250KN/M²</div> <div></div>	Recessed cover and frame Galvanised steel cover and frame Suitable for concrete infill to 250 kN /m2 Depth of recess 80mm 2 opening holes per cover to aid lifting	61200446 61200447 61200448	AS40 TL3R R80 AS50 TL3R R80 AS60 TL3R R80	400 X 400 500 x 500 600 x 600	460 X 460 560 x 560 660 x 660	86 86 86	14 18 23

Fabricated Steel

Sanitation	features How to specify product	product code	reference	clear opening (mm)	overall (mm)	height (mm)	weight (mm)
FF3S AV 250KN 	Hinged cover and frame to 250 kN Galvanised steel cover and frame Stainless steel ancillary parts Anti skid chequer plate finish Assisted opening by stainless steel struts Covers with OTC locking system	61200613	FF3S090090AHVOTC	900x900	1216x1277	100	160
		61200614	FF3S100100AHVOTC	1000x1000	1377x1316	100	188
		61200615	FF3S120120AHVOTC	1200x1200	1577x1571	100	270
		61200616	FF3S150150AHVOTC	1500x1500	1850x1866	419	457
		61200617	FF3S200100AHVOTC	2000x1000	2377x1316	100	316
		61200618	FF3S200200AHVOTC	2000x2000	2381x2501	497	880
AS TR3R 250KN 	Recessed cover and frame to 250kN Galvanised steel cover and frame Depth of recess 48 mm 2 open keyholes per cover to aid lifting	61200060	AS70 TR3R R48	700 x 700	820 x 820	60	66
		61200068	AS80 TR3R R48	800 x 800	920 x 920	60	79
		61200078	AS100 TR3R R48	1000 x 1000	1120 x 1120	60	140
AS LY3R 250KN 	Depth of recess 48 mm Recessed cover and frame to 250kN Galvanised steel cover and frame Hinged cover with depth of recess 48 mm Assisted opening Gas Spring Struts Covers with OTC locking system	61600024	AS60 LY3R AVH R48	600 x 600	720 x 720	255	75
		61600064	AS70 LY3R AVH R48	700 x 700	820 x 820	255	100
		61600068	AS80 LY3R AVH R48	800 x 800	920 x 920	255	117
		61600031	AS100 LY3R AVH R48	1000 x 1000	1120 x 1120	255	175
	Depth of recess 90 mm Recessed cover and frame to 250kN Galvanised steel cover and frame Hinged cover with depth of recess 90 mm Assisted opening Gas Spring Struts Covers with OTC locking system	61600109	AS60 LY3R AVH R90	600 x 600	720 x 720	295	85
		61600067	AS70 LY3R AVH R90	700 x 700	820 x 820	295	105
		61600023	AS80 LY3R AVH R90	800 x 800	920 x 920	295	140
		61600070	AS100 LY3R AVH R90	1000 x 1000	1120 x 1120	295	193

Modular, hinged covers and frames in galvanised steel

SW

AREA OF INSTALLATION

SW1S 15kN:

Footways, pedestrian and cycle areas.

SW2S 125kN:

Footways, pedestrian areas, car parks.

SW3S 250kN:

Slow moving, occasionally trafficked areas, parking areas.



How to specify product. Please refer to the table below as a guide to correctly select your product features and size.

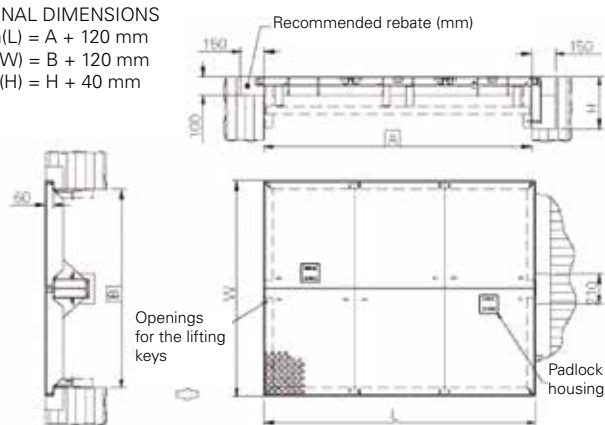
range	loading	surface finish	clear opening (A)	clear opening (B)	hinged	Padlock	locking type	seal	safety grid
SW	2	S	120	060	A	V	VOTC	J	GS...
	15kN = 1 125kN = 2 250kN = 3	solid top = S	1200	600	hinged = A	Padlock = V Locking devices options	VAF	Seal = J	Safety Grid See E12

EXTERNAL DIMENSIONS

Length(L) = A + 120 mm

Width(W) = B + 120 mm

Height(H) = H + 40 mm



SW dimensions without beam

Dimensions of openings (mm)	Width of opening B (mm)					
	0450	0600				
0600			0675			
0675				0750		
0750					0900	
0900						1000
1000						
1200						
1400						
1500						
1600						
1700						
1800						
2000						

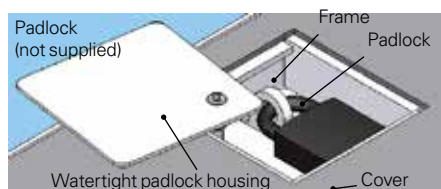
SW dimensions with beam

Dimensions of openings (mm)	Width of opening B (mm)					
	1200	1400	1500	1700	1800	2000
1200						
1400						
1500						
1600						
1700						
1800						
1900						
2000						
2200						
2400						
2500						
2600						
2800						
3000						

Please consult our Sales Team for more options

OPTIONS

Locking devices

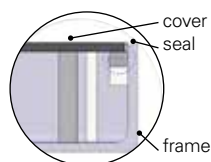


VOTC: standard security turnbuckle, OTC locking head. The key is used to lift and lock/unlock covers

VAF: high security turnbuckle with a sliding mesh system and specific locking head. The key is used to lift and lock/unlock cover

Seal - reference J

(fixed to the underside of the cover to limit odour escape)



Badging

(loading class, company name etc) stamped on the frame or on the padlock casing plate

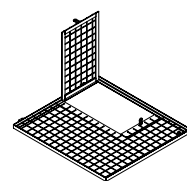
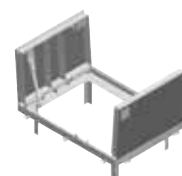


Opening of the covers

- opposite side opening
- in line opening

Specific Safety Grids for various access strategies

Seal on padlock housing (to prevent odour escape and water/ice accumulation)



Modular, hinged covers and frames in galvanised steel

FLUSH FLOOR

AREA OF INSTALLATION

FF1S 15kN:

Footways, pedestrian and cycle areas.

FF2S 125kN:

Footways, pedestrian areas, car parks.

FF3S 250kN:

Slow moving, occasionally trafficked areas, parking areas.

Innovation

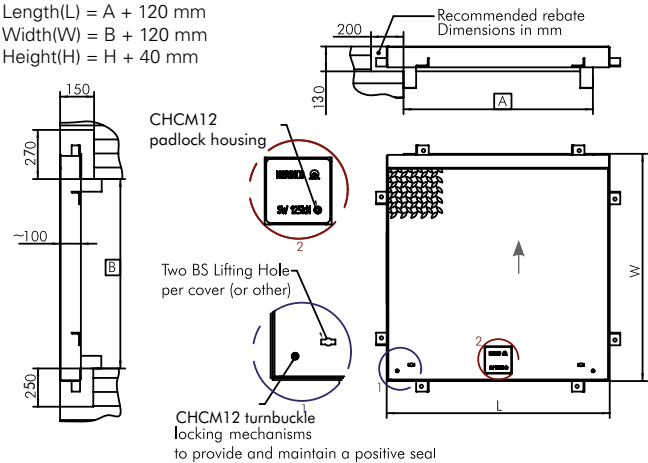
Torsion spring assisted opening
(lifting effort less than 25 kg)



How to specify product. Please refer to the table below as a guide to correctly select your product features and size.

range	loading	surface finish	clear opening (A)	clear opening (B)	hinged	Padlock	locking type	seal	safety grid
FF	2	S	120	060	A	V	VOTC	J	GS...
	15kN = 1 125kN = 2 250kN = 3	solid top = S	1200	600	hinged = A	Padlock = V Locking devices options	VAF	Seal = J	Safety Grid See E12

EXTERNAL DIMENSIONS
Length(L) = A + 120 mm
Width(W) = B + 120 mm
Height(H) = H + 40 mm



FF dimensions without beam

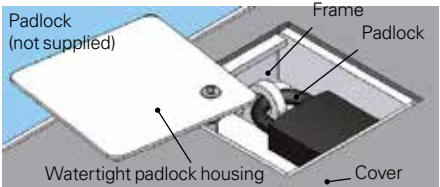
Dimensions of openings (mm)		Width of opening B (mm)					
		0450	0600		FF1S FF2S FF3S	FF1S FF2S	FF3S
Length of opening A (mm) Direction of the joint and beam	0600			0675			
	0675				0750		
	0900					0900	
	1000					1000	
	1200						1200
	1400						
	1500						
	1600						
	1700						
	1800						
	2000						
	2200						
	2400						
	2500						
	2600						
	2800						
	3000						

FF dimensions with beam

Dimensions of openings (mm)		Width of opening B (mm)					
		1200				FF1S FF2S	FF1S
Length of opening A (mm) Direction of the joint and beam	1200		1400				
	1400			1500			
	1500				1700		
	1600					1800	
	1700						2000
	1800						2400
	1900						
	2000						
	2200						
	2400						
	2500						
	2600						
	2800						
	3000						

OPTIONS

Locking devices

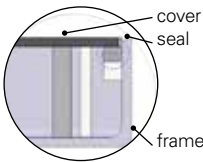


VOTC: standard security turnbuckle, OTC locking head. The key is used to lift and lock/unlock covers

VAF: high security turnbuckle with a sliding mesh system and specific locking head. The key is used to lift and lock/unlock cover

Seal - reference J

(fixed to the underside of the cover to limit odour escape)



Badging

(loading class, company name etc) stamped on the frame or on the padlock casing plate

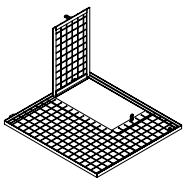


Opening of the covers

- opposite side opening
- in line opening

Specific Safety Grids for various access strategies

Seal on padlock housing
(to prevent odour escape and water/ice accumulation)



Modular, hinged covers and frames in galvanised steel

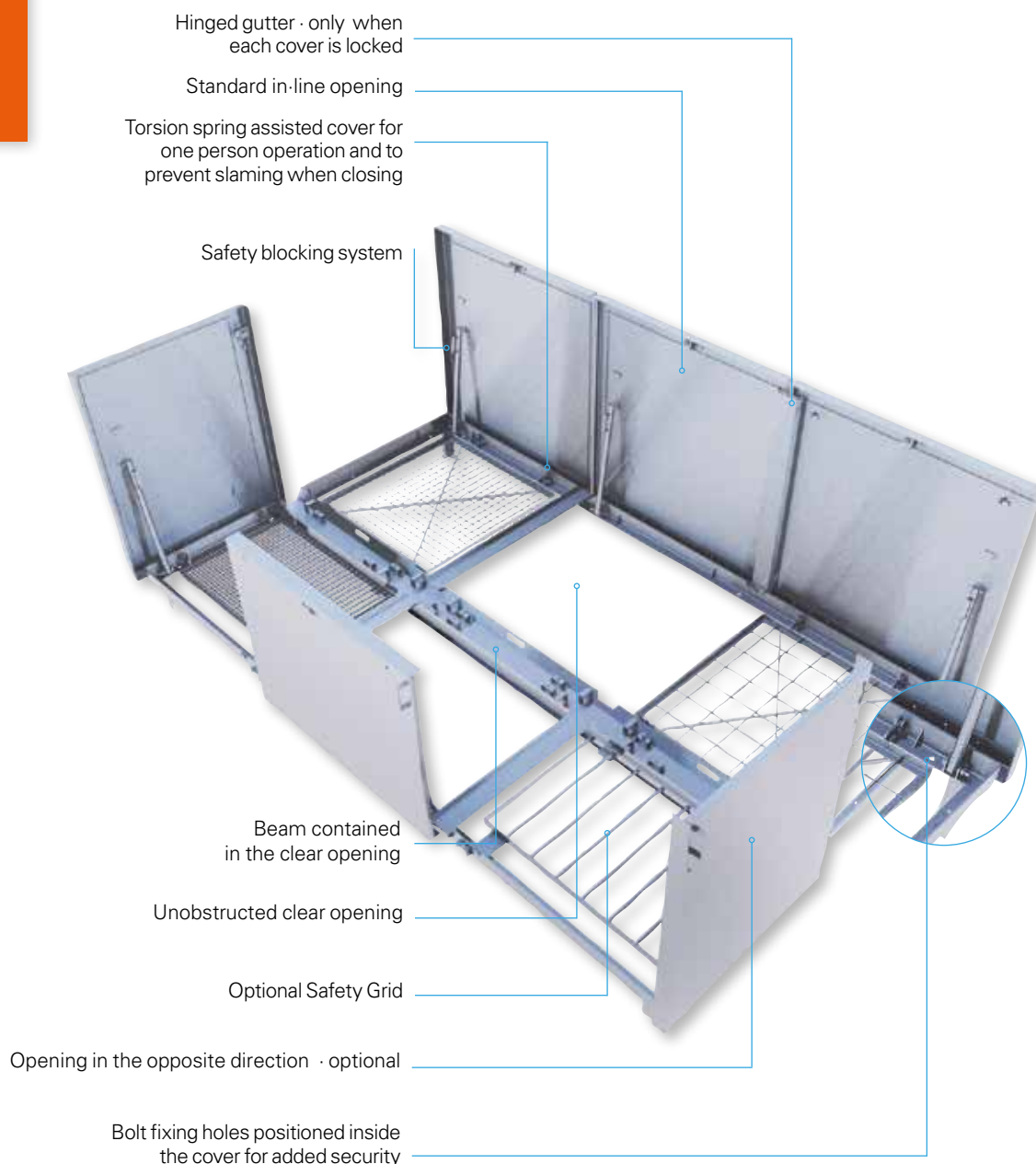
UPSTAND

AREA OF INSTALLATION

Non trafficked areas

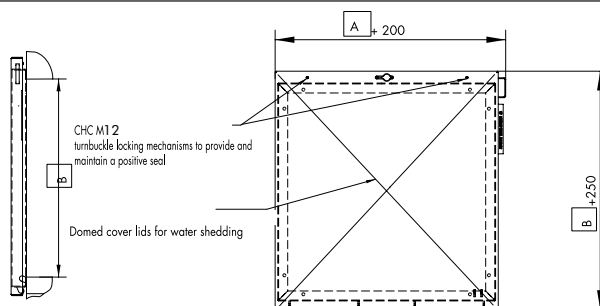
Innovation

Torsion spring assisted opening
(lifting effort less than 25 kg)



How to specify product. Please refer to the table below as a guide to correctly select your product features and size.

range	loading	surface finish	clear opening (A)	clear opening (B)	hinged	Padlock	locking type	seal	safety grid
AG	1	S	150	150	A	V	VOTC	J	GS...
	15kN = 1	solid top = S	1500	1500	hinged = A	Padlock = V Locking devices options	VAF	Seal = J	Safety Grid See E12



AG Upstand dimensions without beam

Dimensions of openings (mm)	Width of opening B (mm)											
	0300											
0300		0400										
0400			0500									
0500				0600								
0600					0700							
0700						0800						
0800							0900					
0900								1000				
1000									1100			
1100										1200		
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2800												
2900												
3000												
3100												
3200												
3300												
3400												
3500												
3600												

AG Upstand dimensions with beam

Dimensions of openings (mm)	Width of opening B (mm)				
	1500				
1500		1750			
1750			2000		
2000				2250	
2250					2500
2500					
2750					
3000					
3250					
3500					
3750					
4000					
4250					
4500					
4750					
5000					
5250					
5500					
5750					
6000					

Please consult our Sales Team for more options

	2 covers
	4 covers
	6 covers
	8 covers
	10 covers

	1 cover
	2 covers
	3 covers

OPTIONS

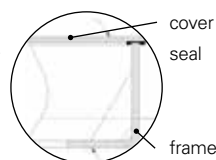
Locking devices



VOTC: standard security turnbuckle, OTC locking head. The key is used to lift and lock/unlock covers

VAF: high security turnbuckle with a sliding mesh system and specific locking head. The key is used to lift and lock/unlock cover.

Seal - reference J
(fixed to the underside of the cover to limit odour escape)



Badging
(loading class, company name etc) stamped on the frame or on the padlock casing plate

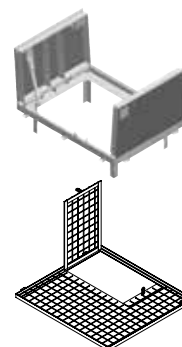


Opening of the covers

- opposite side opening
- in line opening

Specific Safety Grids for various access strategies
Seal on padlock housing

(to prevent odour escape and water/ice accumulation)



Galvanised steel safety grids

Padlocked, removable, safety railings

Load bearing

- 150 kg.....ref. GP15
- 300 kg.....ref. GS30

Grid / Rung type

- Welded mesh 50 x 50 mm.....ref. M05
- Rungs/Slats 10 cm.....ref. J
- Pedestrian.....ref. W
- Individual rungs

Other grid options

- Monobloc
- In 2 parts facing each other to allow for the movement of equipment.....ref. 2

Opening

- standard
- blocking at 90°

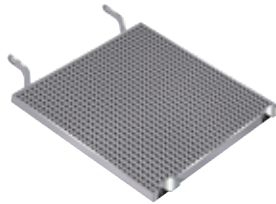
Installation

- On support legs
- Included in a cover assembly: please consult our Sales team

It is important to check the underground facilities when specifying the safety grid to ensure that the grid can be correctly installed.



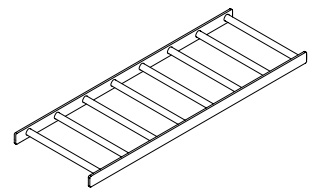
Grid bars safety blocking



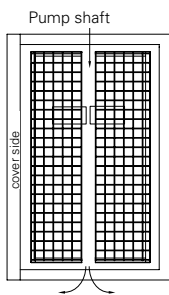
Walk on grid



Self-locking grid can be installed below the steel cover



Spacing on the grid bars to allow for equipment to pass through



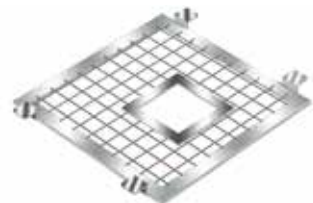
Two part grating for pump removal



Individual hinged rung with automatic closure



Safety railings
Please consult us



Grate with secondary hatch
Allows access to an equipment

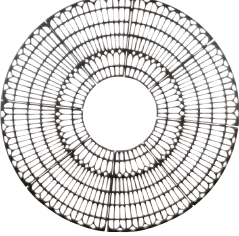
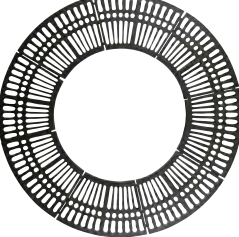
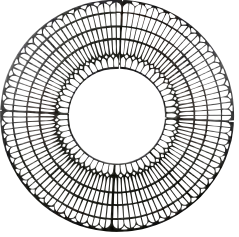
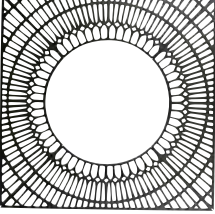

Load bearing		Structure			Safety blocking at 90°		Number of parts		Clear Opening			Secondary access		
150 kg	300 Kg	Welded mesh	Rungs	Walk on	No	Yes			Dimensions O x O			Opening access P x P'		
GP15	GS30	M05	J	W	NB	B	1	2	O	xxx mm	xxx mm	P	xxx mm	xxx mm

Street Furniture

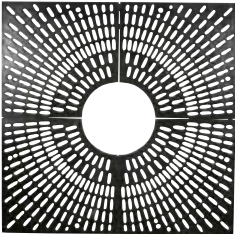
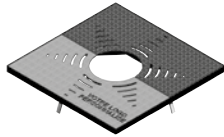
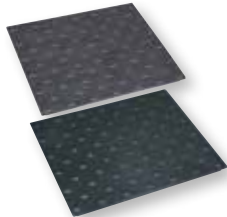


- F2** Tree Grates
- F3** Detectable Warning Tactile Plates
- F4** Recessed Pavement Covers
- F5** Paving Covers
- F5** Bollard

Street Furniture

Tree Grates	features How to specify products	product code	reference	clear opening (mm)	overall (mm)	height (mm)	weight (kg)
GA  	Tree protection grates Composed of 8 pieces cast Black finish -water based paint Option: - Epoxy paint finish		GA 4	Ø 400	Ø 1070		53
			GA 5	Ø 500	Ø 1200		66
			GA 6	Ø 600	Ø 1300		74
			GA 7	Ø 700	Ø 1400		78
			GA 8	Ø 800	Ø 1500		86
			GA 25	Ø 500	Ø 2000		167
			GA 26	Ø 600	Ø 2000		161
			GA 27	Ø 700	Ø 2000		152
			GA 28	Ø 800	Ø 2000		146
			GA 29	Ø 900	Ø 2000		140
			GA 30	Ø 1000	Ø 2000		137
GAVP CIRCULAR 	Tree protection grates Composed of 4 pieces cast Black finish -water based paint Options: - Facility to integrate lights - Epoxy paint finish		GAVP 426	Ø 600	Ø 2000		148
			GAVP 428	Ø 800	Ø 2000		140
			GAVP 429	Ø 900	Ø 2000		132
			GAVP 430	Ø 1000	Ø 2000		128
GAVP SQUARE 	Tree protection grates Composed of 4 pieces cast Black finish -water based paint Options: - Facility to integrate lights - Epoxy paint finish		GAVP 416 SC	Ø 600	1414 x 1414		26
			GAVP 418 SC	Ø 800	1414 x 1414		21
			GAVP 419 SC	Ø 900	1414 x 1414		19
			GAVP 430 SC	Ø 1000	1414 x 1414		18
7K039 	Four grilles per assembly Galvanised Steel frame 2 piece unit optional extra	7K039	STANDARD TREE GRILLE	Ø 503	1205 x 1205	40	110
		7K030	STANDARD TREE GRILLE	Ø 450	1000 x 1000	25	110

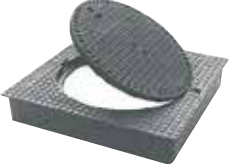
Street Furniture

Tree Grilles	features How to specify products	product code	reference	clear opening (mm)	overall (mm)	height (mm)	weight (kg)
<div>GAVL</div> <div></div>	<div>Tree protection grates Composed of 4 pieces cast Space between bars 20 mm (for reduced mobility access) Grates finished in epoxy paint Black RAL 9007</div> <div>Option: - Choice of RAL colour</div>		GAVL 897	Ø 550	1800 x 1800		
<div>STEEL TREE GRATES</div> <div></div>	<div>Bespoke galvanized steel tree grate Angle iron frame in 30 x 30 x 30 mm Checker plate or smooth finish. Customized openings or logos available on request. Galvanizing coating other than zinc: contact our Sales Team Strength of resistance is by resting on concrete or ground underneath.</div>	<div>Dimensions are available on request. Please consult our Sales Team.</div>					
Urban safety equipment (Visually impaired)							
<div>DETECTABLE WARNING PLATES</div> <div></div>	<div>Detectable warning plates</div> <div>Cast iron plates Non slip blistered texture surface Integral lugs on the base of plate secure the plates into the concrete</div> <div>Option: Choice of RAL colour</div>	<div>522822 522821</div>	<div>PODS 542 PODC 542</div>	<div>490 x 415 x 20 490 x 415 x 20</div>			<div>15 16</div>

Street Furniture

Recessed Pavior Covers	features	product code	reference	clear opening (mm)	overall (mm)	height (mm)	weight (kg)
SOLO PAV 400kN 	Hinged recessed unit 400kN In fill height of 80 mm Sitting on neoprene seal Suitable for 70 mm paving blocks	536751	Circular frame SOLO O PAV	Ø 600	Ø 850	100	74
		536523	Square frame SOLO C PAV	Ø 600	850 x 850	100	85
Ti 600 P D400 	Material-ductile iron Recessed covers for pavior infill Machined contact surfaces Assembled components bolted together	515278	TI 600 P	625 x 600	770 x 820	125	115
		515734	TI 1200 P	1245 x 600	1390 x 820	125	205
RRC 250kN 	Recessed unit 250kN Infill depth of 75 mm + 10mm Frame incorporates a cushioning insert to prevent noise and vibration Square frame, square opening Option: Cover infilled with concrete- certified NF	510812	RRC 350	300 x 300	420 x 420	95	35
		510813	RRC 500	450 x 450	600 x 600	95	58
		510814	RRC 650	600 x 600	750 x 750	95	83
3P C250 	Recessed unit C250 Infill depth of 100 mm +25mm Film of grease renders product waterproof under normal conditions Lifting key-EM sold as an accessory Option: Locked with an OTC or CHC bolt	514512	3P 060 060	600 x 600	710 x 800	80	100
EURO PAVE 400kN 	Recessed unit 400kN Infill depth of 80 mm + 10mm Concrete frame	501451	D 610 RP	Ø 610	Ø 780	160	141

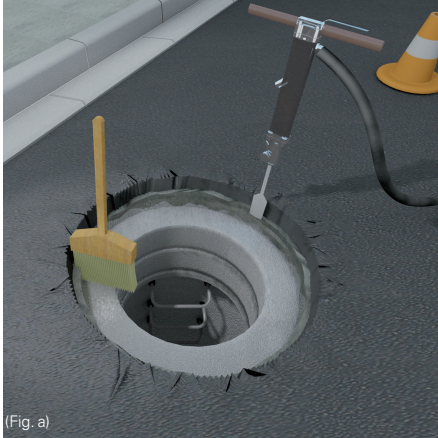
Street Furniture

Paving Covers	features How to specify product	product code	reference	clear opening (mm)	overall (mm)	height (mm)	weight (kg)
SOLO PAVE D400 	Hinged solid top unit D400 Suitable for paved areas Neoprene seal Safety blocking at 90° Options: - OTC locking - Vented cover	536745	SOLO CC P S	Ø 600	850 x 850	150	178
SOLO 7 SP D400 	Hinged solid top unit D400 Suitable for paved areas Neoprene seal Safety blocking at 95° Options: - OTC locking - Vented cover	522781	SOLO 7 CC SP	Ø 714	900 x 900	125	123
Bollard							
7K041 	Ductile iron / Steel bollard Customised badging available (Local Authority crest)	7K041	ORNATE BOLLARD	76		1255	35



Installation guidelines

These instructions are intended to assist the work of the company responsible for an installation. They are supplied for general information and apply to situations that present no particular difficulties.



(Fig. a)

Rebate (Fig. a)

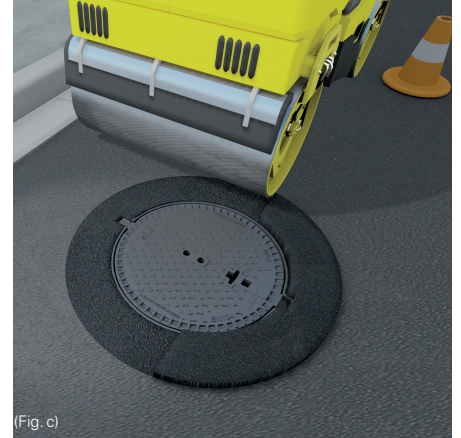
- Prepare a rebate corresponding to the dimensions (200 -250 mm approx) shown in figure a
- Prepare down to the concrete where there are no cracks.
- Clean the rebate surfaces to eliminate any dust, mud or grease



(Fig. b)

Frame installation, levelling, and shuttering (Fig. b)

- Lower frame into the rebate
- Correctly position the frame over the clear opening of the chamber (the frame should not protrude over the clear opening).
- Place the frame at the correct level using appropriate wedges (e.g. suspend with a beam).
- Shutter the gap.
- For large, light-weight frames (e.g. mild steel welded construction, Class B 125, C 250 or access covers with machined surfaces) install the covers, check they fit properly and do not rock. If necessary, correct the fitting and leave in place whilst fixing.



(Fig. c)

Fixing (Fig. c)

- Prepare the fixing material according to the suppliers' specifications. A quick-setting non shrinking mortar is recommended if normal curing time for standard mortar cannot be secured. (Minimum 7 days).
- Pack up the mortar under frame (mortar must come up along the shuttering). In order to ensure an even distribution of traffic load and to avoid rocking, the frame must have 100% contact with the fixing material.
- Fill the rebate unless a layer of asphalt is specified, in which case a 20 mm depth must be left unfilled.
- Cover filled rebate with wet canvas or tarpaulin and allow mortar to cure before re-opening to traffic.

Finishing and re-opening to traffic

- Remove shuttering.
- Render the chamber wall with mortar (if necessary).
- Place cover in the frame, ensuring it sits squarely (clean contact surfaces as necessary).
- Pour asphalt finishing layer where applicable.
- Re-open to traffic.

Important: Gas struts

Safety rule for removal of gas cylinders

- Never remove a pressurised gas strut
- If dismantling is required: ensure that the end caps of the cylinder slide freely on their fixing pins. If this is not the case, the cylinder must be completely neutralised.

Neutralisation procedure for cylinders.

- The gas springs have a pressure between 20 and 180 bars, you must therefore neutralise these devices before removal. For reasons of safety, always follow the procedure below:
- Lightly tighten the tube
- Slit tube perpendicular to the axis in an area between 30 and 35 mm from the bottom of the tube.

To carry out this operation:

- Safety glasses must be worn
- Use a hacksaw to cut.
- Place a cloth on the blade.
- When you hear a whistle sound, stop sawing.

Degassing is complete when the rod can be easily manipulated by hand.

The company responsible for installing access covers and frames may make changes or improvements as necessary.

EJ advises that these instructions are provided for general information. The company carrying out the installation should amend as necessary as they would be responsible in the case of an accident.



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Norinco in France, Cavanagh in Ireland, East Jordan Iron Works in the USA, Havestock in Australia and McCoy in Canada are pleased to announce that we all are conducting business under one brand, **EJ**.

As **EJ**, we will continue to provide the same quality products and excellent service that our customers have come to expect.

One global name and brand will unify the company and support our vision to be the global leader in infrastructure access solutions.

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Product Catalogue - June 2013