

Durey Castings Limited has been established since 1975 as specialist manufacturers, stockists and distributors of all types of manhole covers and frames, gully gratings and duct covers in cast iron, ductile iron and steel. Our products include Manhole Covers, Gully Grates, Bedding Mortars, Shimpac Ironwork Raising Planks, Kerb Drainage, Street Furniture (including tree grids, bollards and tree guards), Linear Drainage and Channel Drainage, Composite Chambers and Box Furniture (including step irons, cable bearers, cable brackets, anchor irons and bolts), Flap Valves, Stop Tap Boxes and Service Boxes (including Fire Hydrant, Gas, Traffic Control, Street Lighting and Meter uses), Manhole Sealing Grease and Releasing Grease, Lifting Equipment (including BS and non-BS manhole keys, gully hook keys, BT type lifting keys and powerful hydraulic lifters), and small tools.

Most items will be in stock ready for a typical 2 or 3 day delivery service throughout the country. Other products may require manufacture or special sourcing. These products will be of the same high standard, but will necessarily mean slightly longer delivery periods.

Our products are used in all areas of the construction industry - including major housing projects, major roads, motorways, tunnels, bridges, docks, airports, petrol stations, schools, hospitals and shopping centres.

We are proud to have been associated with the following Major Projects:

Transport for London's network; Trafalgar Square Refurbishment; London Underground Refit; The Channel Tunnel; The Channel Tunnel Rail Link; The Beautification Project in Gibraltar; Telephone Networks throughout the UK and Europe for BT, Cable & Wireless, COLT, Global Crossing, Level 3, Virgin Media, Thus, Torch, Interoute, euNetworks, Verizon, etc; the new Wembley Stadium; Arsenal FC's Emirates Stadium; Bluewater and Lakeside shopping centres; Belmarsh, Chelmsford, Rochester, and other prisons; the M1, M2, M4, M11, M25 and A2 emergency communication networks; Traffic Signal and Street Lighting networks throughout the South.

Visit our website on www.dureycastings.co.uk.

You will be able to download specification sheets, product pictures, detailed line drawings, loading certificates, Health and Safety data (COSHH) and Quality Assurance documents. Check the 'Latest News' page for up to date information.

Working hand in hand with architects, designers, specifiers and contractors we aim to provide a friendly, efficient and professional service - and of course all products come with "**DureyService**TM", a very different kind of service for today's manhole cover industry.



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THE REFERENCE BOOK OF ACCESS COVERS & GRATINGS

Coral Edition



BSEN ISO 9001:2008 CERT No. 00403

DureyService®

This is a very different kind of service for the manhole cover and grating industry. It gives buyers peace of mind. It means your order has been processed, manufactured or sourced, and delivered by professional and caring people. **Professional** in that they are fully trained, qualified and experienced in the trade and have all the equipment or instruments needed to perform these tasks. **Caring**, because they want you to receive the correct goods **first** time, and **on** time. This may mean we ask a few more questions of the proposed usage of the products and clarify if you need any special accessories such as lifting keys.

This passion runs from start to finish. Your call will be answered quickly and efficiently. We know our products and all relevant information regarding any item will be at hand. Many staff have over 20 years experience each.

Our order processing system is the most **flexible** in the industry. Changes can be accommodated right up to actual delivery. We now have a dedicated delivery/site liaison manager to ensure the smooth running of your delivery. Any outside transport we use are only added to our approved list after extensive assessment and testing.

The products you require will mostly be in stock due to the success of our unique stock-usage monitoring system. This results in quicker delivery times. Last year we recorded 97% of deliveries **on time**. All products are delivered in a manner that ensures damage is unlikely. Driver offload is available at an extra cost.

You will receive our invoices on time and in a format that suits you. We can invoice electronically if this is your preferred method. We accept Payment Cards (with electronic submission of VAT data if required), all major credit cards, cleared cheques or cash. Our credit facilities are very generous. All we ask is that you conduct your credit account professionally and keep your payments up to date.

After delivery we are still with you. Maybe you require one more item that must match the original order, or maybe you now require more lifting keys or replacement locking screws. Maybe you miscounted the number of units required (it happens!) or your client changes the specification at the last minute. We treat your small orders with the same **respect** and vigour as your large orders.

So there you have it: Professionalism, Care, Flexibility, On-time, Respect.

Try **DureyService®** for yourself. It comes free with every order!

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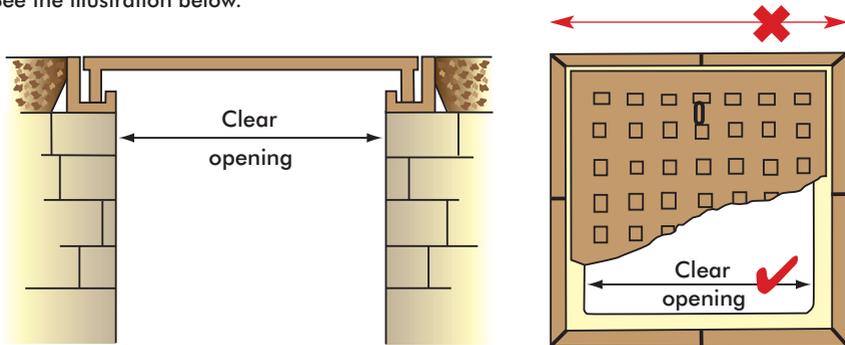
Ordering Manhole Covers & Frames

When ordering manhole covers and frames it is essential that you give us all the information we will need to ensure that the right cover for the right job is supplied.

We will need to know the following.

- The **clear opening size**, ie the actual size of the chamber, (this is the dimension of the opening inside the brickwork or chamber, this will be the same size as the opening inside of the frame that we supply) **NOT** the size over the top of the existing frame or the frame size as these differ.

See the illustration below.



- The **loading class** (see page 2) we will want to know what will be passing over it, pedestrian only? Cyclists? Light cars, heavy vehicles etc. If there is a chance a heavy vehicle may pass over it, for example in a shopping precinct which is used by pedestrians but may need vehicular access from an ambulance or fire engine a heavy weight cover must be chosen.
- The **location** - If there is traffic, will it be fast moving, (ie a road) or slow moving (ie a goods yard)?
- Is it to be used **internally or externally**? Will it need to be double sealed (gas and air tight)?
- Is it **recessed**, for example to take a screed (internal) or block paving (external)?
- In certain applications it may be better to utilise galvanised steel as opposed to ductile/cast iron.
Are there any restrictions to what material is used?
- Finally, let us know about any restrictions you may have concerning depth of frame, overall frame size etc

British Standard EN 124 for gully tops and manhole tops for vehicular and pedestrian areas.

Place of installation / loading class.

The appropriate class of manhole top or gully top to be used depends upon the place of installation.

The various places of installations have been divided into groups numbered 1 to 6, as listed below

The selection of the appropriate class is the responsibility of the designer.

WHERE THERE IS ANY DOUBT THE STRONGER CLASS SHOULD BE SELECTED.

A15		Group 1 Class A15	Pedestrians & Cyclists Only
B125		Group 2 Class B125	Footways, pedestrian areas, car parks, car parking decks, private driveways
C250		Group 3 Class C250	General parking areas, goods vehicles, slow moving traffic
D400		Group 4 Class D400	Carriageway of roads, hard shoulders, parking areas for all types of road vehicles
E600		Group 5 Class E600	Areas imposing high wheel loads ie docks, aircraft pavements
F900		Group 6 Class F900	Areas imposing particularly high wheel loads ie aircraft runways etc.

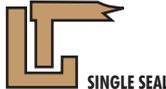
All dimensions and weights quoted in this catalogue are given for guidance only and should be checked at time of order if any detail is critical.

Note: steel cover loadings are determined by **FACTA**, please see page 19 for details

Manhole Cover/Gully Grates

GLOSSARY

Bearer Bar	Used in pairs on ducts and channel gratings
Captive Hinge	Integral hinge which prevents total removal of cover or grating
Cast Iron	Traditional material for manhole covers and gully grates. Heavier than ductile iron and thus more stable insitu.
Chequer Plate	Raised pattern on top surface of covers, normally associated with galvanised mild steel covers
Clear Opening	The nominal unobstructed access opening in a frame
Double Seal	Double vertical tongue-in-groove relationship between cover with double rim and frame with double groove. Allows double grease seal against egress of odour. Limits ingress of water
	DOUBLE SEAL
Double Triangular	Covers comprising two triangular sections providing stable seating under load and non-rock performance
Ductile Iron	A unique form of iron which, prior to the metal casting process receives a treatment with magnesium to produce a strong, impact resistant metal. Popular alternative to grey cast iron because of its ease of use and light qualities (in some cases up to 50% lighter).
End Hinged	Hinge at 90° to kerb (left or right hand opening).
Galvanising	Protective hot dip zinc coating applied to steel products
GRP Seal Plate	Non metallic plate acts as a protective barrier against sewer gases
Kerb Hinged	Hinge located parallel and adjacent to the kerb
Keyways (closed)	Sealed lifting holes in covers for lifting keys which prevent ingress of dirt and water
Keyways (open)	Lifting holes in covers for lifting keys. Not capped beneath.
Lokanlift	Easy to operate turn buckle locking system requires simple key
Locking	Either screwed down or fitted with a turnbuckle system to deter unauthorised lifting. Or as a complete security system ie HOA (Home Office Approved) locks that require a special key to access.
Loosely Coupled	The two half covers/gratings of double triangular units are connected together loosely by pins and clips. This helps prevent the covers/gratings being dropped in the shaft during lifting and, being a loose connection, still allows the two half covers/gratings to operate independently and retain their non-rock facility.
MSG Seal Plate	Usually 'bolt down'. Mild steel galvanised plate for fixing inside manhole frame and capable of withstanding 0.5 bar back pressure.

Non-Rock	Cover/Grating and frame design which gives stable seating i.e. double triangular
Peephole	A secondary access cover within the main access cover (usually required for inspection purposes)
Pressure Tight	Cover and frame which can withstand internal pressure as in surcharged drain systems. Obtained by use of bolt-down MSG sealplate or units with sealing rings and bolt-down covers
Prising Slot	Slot in cover edge or occasionally on inside of frame that allows the use of a crow bar to loosen covers before removal.
Recessed Cover	Top of cover recessed to allow infilling with a chosen material, concrete, quarry tiles etc. usually to match surrounding area.
Safety Grid	A fabricated galvanised mild steel grid, which normally drop-fits onto the frame below the cover to prevent covers and other objects being dropped into the shaft.
Securing Bolts	Provision is made in the frame of certain units for the insertion of bolts for positive fixing to the chamber (bolts not supplied).
Sealed	Covers and frames which are sealed in some way to at least prevent the egress of odours from the sewer. There are different methods of sealing and these give varying standards of performance. i.e. double seal/single seal/seal plates and pressure tight
	SINGLE SEAL
Single Piece	Cover/grating comprises one piece
Support Beam	A member used to support the adjacent unsupported edges of a twin/multiple/linear access cover
Support Beam Pockets	A 'pocket' or bracket designed to support and fix the support beam to the chamber/supporting wall
Slide Out	Cover removed by lifting one end then sliding out rather than direct vertical lift. Reduces the effort needed for removal.
Torsion Spring	Fitted to the unit to assist in the opening/closing of the cover.
Ventilated	Openings within cover allowing free circulation of air within the shaft and prevent pressure build up.
Watertight	Protection against the passage of surface water of a minimal depth and at atmospheric pressure.
Waterway area	Free area of grating which allows the passage of water (i.e. total area of slots)

Preparation

Excavate ironwork

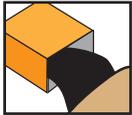
Remove old ironwork ensuring that all cracked asphalt is removed from the surrounding area.

Clear and repair brickwork

Clear brickwork of all debris and old bedding material. Check the access chamber for loose brickwork and crumbling mortar. Replace any loose bricks and repoint as necessary. Check that the access frame will seat evenly. When installing access covers with a 100mm deep frame, rebuild the brickwork chamber to a minimum level of 115mm below the carriageway surface using at least Class B engineering bricks (165mm below surface using 150mm deep frame). Any bricks used should have a comprehensive strength of not less than 20N/mm². Shimpac planks can be used to improve or raise the chamber seating area.

Installation

Mix Material



Material is pre-blended in controlled quantities, mix as per instructions on pack. If using a resin mortar pour the liquid polyester resin into a suitable container followed by the hardener component. Using a mechanical mixer ensure that the material is thoroughly mixed (wetted).

Bedding Layer



Place layer of bedding mortar on brickwork approximately 25mm to 40mm in depth. Ensure that enough coverage is available to make contact with the entire flange of the casting. Use Shimpac planks if necessary

Seat Casting



Position casting frame over the access chamber and tamp down to ensure that the mortar keys to the casting. For optimum performance units are designed to be supported under the entire flange area, up to the edge of the clear opening. Failure to provide bedding over this area will detrimentally affect the performance and longevity of the unit.

Level Casting



Ensure that the casting is level with the road surface by placing a straight edge across the corners of the casting onto the road. The frame can be made level by tamping the frame into the bedding material.

Check gaps under flange

Ensure that there are no visible gaps under the flange and smooth bedding material with trowel both inside and outside of chamber.

Envelope flange



Use the remaining mortar to envelope the flange, paying particular attention to the corner areas. Smooth out the mortar with a trowel to ensure good bonding with the casting and to avoid any initial cracks in the bedding mortar.

Backfill



Check that the bedding material has hardened, then backfill with concrete/tarmac. Ensure that tarmac is properly compacted

Light Duty Cast Iron Cover & Frame

A15



DU14A



DU10B

Code	Clear Opening	Frame Depth	Description
DU10A	450 x 450	30	
DU10B	600 x 450	35	
DU20A	600 x 450	45	Double Grease Seal & Locked 2 screws
DU10C	600 x 600	35	
DU20B	600 x 600	45	Double Grease Seal & Locked 2 screws
DU14A	450 dia	35	Circular /Cast Iron Top With Plastic Frame, Locked

Suitable for light duty application areas inaccessible to vehicles. Eg garden paths, footpaths etc.

Locking screws (2) can be fitted if required

Airtight single seal when filled with grease

Supplied as single seal as standard (neoprene 2nd seal can be fitted)

Closed keyways

Can be vented

Can be badged with brass badge and two rivets, ie CATV, GAS, etc

LIFTING KEYS

See page 45
for full selection



Medium Duty Ductile Cover & Frame

B125



Code	Clear Opening	Frame Depth	Description
DUH036	450 x 450	40	
DUH041	600 x 450	40	
DUH041PLATE	600 x 450	50	Galvanised sealing plate, inner plate bolted. Pressure tight to 0.5 bar, 5 metre head of water
DUH042	600 x 600	40	
DUH043	750 x 600	50	
DUH045	675 x 675	50	
DUH047	750 x 750	50	
DUH050	900 x 600	50	
DUH055	1000 x 675	50	Twin
DUH060	1220 x 675	50	Twin
DUH090	900 x 900	50	
DU64	600 dia	80	Circular cover /Square Base
DU14B	450 dia	50	Circular/Carbon re-inforced Resin & Polypropylene Frame

Suitable for medium duty applications
ie driveways, car parks etc

Locking screws (2) can be fitted if
required

Can be supplied single seal or plan
seated slide out

Airtight single seal when filled with
grease

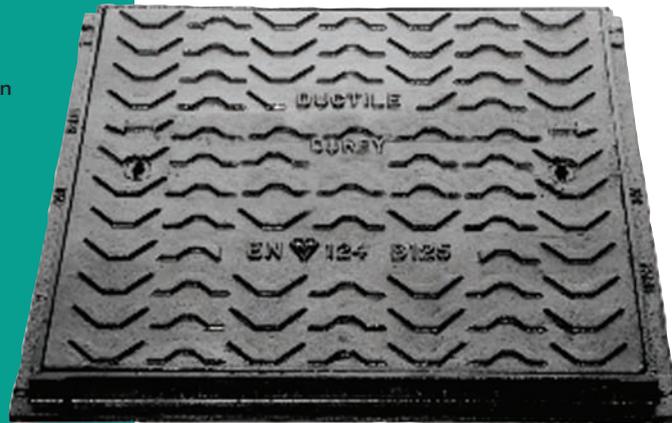
Closed keyways

Can be vented

Can be badged with brass badge
and two rivets eg CATV, GAS,
ELECTRICITY etc

See page 31 for TFL cast range
of ductile covers

Shallower depth than our 'DU11' range
makes this cover ideal for pavements,
footways etc



Medium Duty Ductile 75mm Deep Cover & Frame

B125



Suitable for medium duty applications
ie driveways, car parks etc

Locking screws (2) can be fitted if required

Airtight single seal when filled with grease

Supplied as single seal as standard
(neoprene 2nd seal can be fitted)

Closed keyways

Can be vented

Can be badged with brass badge and two rivets
eg CATV, GAS, ELECTRICITY etc



Code	Clear Opening	Frame Depth	Description
DU11A	450 x 450	75	
DU11B	600 x 450	75	
DU11BPLATE	600 x 450	80	Galvanised sealing plate, inner plate bolted. Pressure tight to 0.5 bar, 5 metre head of water
DU11C	600 x 600	75	
DU11D	750 x 600	75	

Heavy Duty Ductile Cover & Frame

C250



Suitable for heavy traffic, eg goods yards, ambulance stations etc, where slow moving traffic applies

Locking screws (2) can be fitted if required

Airtight single seal when filled with grease

Supplied as single seal as standard (neoprene 2nd seal can be fitted)

Can be vented

Closed keyways

Can be badged with brass badge and two rivets eg CATV, GAS, ELECTRICITY etc

RANGE OF GEOTEXTILES AVAILABLE



Ductile Double Triangular 100mm Deep Cover & Frame

D400



For use in carriageways, hard shoulders, parking areas where heavy vehicular traffic is expected

Double triangular 'non rock' covers - loosely bolted in centre

Can be locked 2 screws

Can be badged with brass badge and 2 rivets eg CATV, GAS, ELECTRICITY etc

Can be ventilated with 20mm holes

Also available in 150mm deep see page 11

Hinged version also available

Code	Clear Opening	Frame Depth	Description
DUHB16	430 x 280	100	
DU35	450 x 450	100	
DU35A	600 x 450	100	
DU35CA	600 x 600	100	
DU35CALOCKED	600 x 600	100	Locking - Fitted 2 screws
DU35CAPLATE	600 x 600	100	Galvanised sealing plate, inner plate bolted. Pressure tight to 0.5 bar, 5 metre head of water
DU35CATFL	600 x 600	100	Cast 'TFL' in cover See page 31 for further details
DU35CATW	600 x 600	100	Cast 'Thames Water' in cover See page 16 for further details
DU61	600 dia	100	Circular cover 850 x 850 square base
DU61PAMREX	600 dia	100	Circular, Infiltration seal & plugs, hinged, pressure escape facility
DU35DA	675 x 675	100	
DU35E	750 x 600	100	
DU35H	750 x 750	100	
DU35HPLATE	750 x 750	100	Galvanised sealing plate, inner plate bolted. Pressure tight to 0.5 bar, 5 metre head of water
DU35F	900 x 600	100	
DU35G	900 x 900	100	

Ductile Double Triangular 150mm Deep Cover & Frame

D400



Code	Clear Opening	Frame Depth	Description
DU35C	600 x 600	150	
DU35CLOCKED	600 x 600	150	Fitted 2 screws/Allen Key Head
DU35CPLATE	600 x 600	150	Galvanised sealing plate, inner plate bolted. Pressure tight to 0.5 bar, 5 metre head of water
DU35CCATV	600 x 600	150	Hinged Opt-Emax type Cast CATV
DU35CTW	600 x 600	150	Cast Thames Water
DU35D	675 x 675	150	
DU35DPLATE	675 x 675	150	Galvanised sealing plate, inner plate bolted. Pressure tight to 0.5 bar, 5 metre head of water
DU35E/6	750 x 600	150	
DU35H/6	750 x 750	150	
DU35H/6PLATE	750 x 750	150	Galvanised sealing plate, inner plate bolted. Pressure tight to 0.5 bar, 5 metre head of water
DU35F/6	900 x 600	150	
DU35G/6	900 x 900	125	125mm deep

For use in carriageways, hard shoulders, parking areas where heavy vehicular traffic is expected. Also known as CW1 - Carriageway 1.

Double triangular 'non rock' covers - loosely bolted in centre

Can be locked 2 screws

Can be badged with brass badge and 2 rivets eg CATV, GAS, ELECTRICITY etc

Can be ventilated with 20mm holes

Also available in 100mm deep see page 10

Hinged version also available



Grey Cast Iron Double Triangular Cover & Frame

D400



Grey iron is the traditional material for road castings, it is economical, heavy, stable, long lasting and has first class strength in comparison with other materials

For use in carriageways, hard shoulders, parking areas where heavy vehicular traffic is expected

Double triangular 'non rock' covers - loosely bolted in centre

Can be badged with brass badge and 2 rivets eg CATV, GAS, ELECTRICITY etc

Can be ventilated with 20mm holes

Code	Clear Opening	Frame Depth
DU65CA	600 x 600	100
DU65C	600 x 600	150



Ductile Multiple Double Triangular Cover & Frame

D400



See page 16 for special cast covers

Twin or triple units for large access areas
Also known as CW2 (Twin) and CW3 (Triple) (carriageway boxes)

Can be fitted with locking screws

Can be brass badged with 2 rivets, CATV, GAS, ELECTRICITY etc

Other badging available

Can be supplied hinged

Can also be supplied with lockable security covers for fitting underneath cover either new build or retro fit types

Code	Clear Opening	Frame Depth	Loading	Covers	
DU235A	1220 x 675	100	D400	twin	
DU235B	1220 x 675	150	D400	twin	
DUH2DNCATV	1220 x 685	150	D400	twin	Hinged Opt-Emax type Cast CATV
DU235CA	1800 x 675	100	D400	triple	
DU235C	1800 x 675	150	D400	triple	
DU235D	1200 x 900	150	D400	twin	
DUH3DNCATV	1830 x 685	150	D400	triple	Hinged Opt-Emax type Cast CATV



Ductile Double Triangular Cover & Frame

E600



Also known as CW2 (Twin) and CW3 (Triple) (carriageway boxes)

Extra heavy loading for dock yards or any other high intensity loading applications

Twin or triple units for large access areas

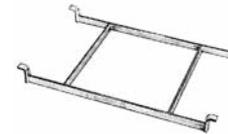
Can be fitted with locking screws

Can be brass badged with 2 rivets, CATV, GAS, ELECTRICITY etc

Can be supplied hinged

Can also be supplied with lockable security covers for fitting underneath cover either new build or retro fit type

Safety Grid available



F900



Code	Clear Opening	Depth	Covers	Description
DU70C	600 x 600	150		
DU70D	675 x 675	150		
DU70E	750 x 600	150		
DUH2CJ76	1220 x 685	150	twin	
DUH3DN	1825 x 685	150	triple	
DUH2DN	1220 x 685	150	twin	Cast Verizon
DUH2DNMETRO	1220 x 685	150	twin	Cast Metromedia Fiber Network
DUH3DNMETRO	1825 x 685	150	triple	Cast Metromedia Fiber Network
DUH2DNCO	1220 x 685	150	twin	Cast Colt
DUH3DNCO	1825 x 685	150	triple	Cast Colt



Code	Clear Opening	Depth	Covers
DU71C	600 x 600	150	
DU71D	675 x 675	150	
DU71E	750 x 750	150	
DUH2DNF900	1220 X 685	150	twin

Small Surface Boxes

Small surface boxes, plain and badged, hinged and unhinged, can all be brass badged

WATER STOP TAP BOX

Code	Clear Opening	Depth	Loading	Material	Description	Marked
DU150A	114 x 114	75	Foot Traffic	Cast Iron	Hinged Water Stoptap Box	W
DU150B	150 x 150	75	Foot Traffic	Cast Iron	Hinged Water Stoptap Box	WATER
DU150B	150 x 150	75	Foot Traffic	Cast Iron	LOCKING Hinged Water Stoptap Box	W
DU150C	229 x 229	75	Foot Traffic	Cast Iron	Hinged Water Stoptap Box	WATER
DU161A/W	150 x 150	100	D400	Ductile	Double Triangular Surface Box	W
DU161B/W	225 x 225	100	D400	Ductile	Double Triangular Surface Box	W
DU161C/W	300 x 300	100	D400	Ductile	Double Triangular Surface Box	WATER
DU151	150 x 127	75	Foot Traffic	Cast Iron	Hinged Rectangular Stop Tap Box	W
DU152	150 x 150	95	Medium	Cast Iron	Lift & Turn Medium Duty Stop Tap Box	W

GAS STOP TAP BOX

Code	Clear Opening	Depth	Loading	Material	Description	Marked
DU151G	150 x 127	75	Foot Traffic	Cast Iron	GAS Hinged Rectangular Stop Tap Box	GAS
DU161A/G	150 x 150	100	D400	Ductile	Double Triangular Surface Box	GAS
DU161B/G	225 x 225	100	D400	Ductile	Double Triangular Surface Box	GAS

FIRE HYDRANT BOX

Code	Clear Opening	Depth	Loading	Material	Description	Marked
DU158A	380 x 230	125	Heavy	Ductile	FIRE HYDRANT cover & frame	FH

SMALL SURFACE BOXES - UNBADGED/PLAIN

Code	Clear Opening	Depth	Loading	Material	Description
DU158APLAIN	380 x 230	125	Heavy	Ductile	PLAIN cover & frame
DUHB16	430 x 280	100	D400	Ductile	PLAIN cover & frame
DU160A	150 x 150	150	D400	Cast Iron	Double Triangular Box
DU160B	225 x 225	150	D400	Cast Iron	Double Triangular Box
DU161A	150 x 150	100	D400	Ductile	Double Triangular Surface Box
DU161B	225 x 225	100	D400	Ductile	Double Triangular Surface Box
DU161C	300 x 300	100	D400	Ductile	Double Triangular Surface Box

GALVANISED JUNCTION BOX

Code	Clear Opening	Depth	Loading	Material	Description
DU170	450 x 300	35	AAA	Galvanised Steel	Single Seal Solid Top Junction Box Cover



Special Cast Covers

Logos are cast into covers (not 'badged').



Code	Clear Opening	Depth	Covers	Loading	Description
DU35CATFL	600 x 600	100		D400	Cast TFL See page 31 for further details
DU35CATW	600 x 600	100		D400	Cast Thames Water
DU35CTW	600 x 600	150		D400	Cast Thames Water
H2DN	1220 x 685	150	twin	E600	Cast Verizon
H2DNMETRO	1220 x 685	150	twin	E600	Cast Metromedia Fibre Network
H3DNMETRO	1825 x 685	150	triple	E600	Cast Metromedia Fibre Network
H2DNCO	1220 x 685	150	twin	E600	Cast Colt
H3DNCO	1825 x 685	150	triple	E600	Cast Colt
H2DNCATV	1220 x 685	150	twin	D400	Hinged Opt-Emax type Cast CATV
H3DNCATV	1830 x 685	150	triple	D400	Hinged Opt-Emax type Cast CATV

Other options available to order, CCTV covers, Water Authorities etc.

Please call our sales office for further details.

BRASS BADGES

Fixing with 2 rivets



**LARGE SELECTION
AVAILABLE**

GRIPTOP™

Ductile iron and mineral technology for extra safety

Use GripTop for crucial locations;

- Roundabouts - Traffic Lights - Rural Roads -
- Pedestrian Crossings - Bends - Gradients -
- Highways - Accident Blackspots



PAM UK

and

DUREY CASTINGS LTD
Partnership

www.Griptop.co.uk



Creating a safer road infrastructure is seen by local authorities, consultants etc. as a priority for reducing accidents caused by skidding. GripTop has been designed to add extra safety to our roads, particularly designed for those areas where two-wheeled users risk loss of control if manhole covers with inadequate skid resistance are in place.

GripTop is a high safety version of the Saint Gobain Inter-Ax, Opt-Emax and Ult-Emax ranges. It has a specific top surface made of aggregate and bonding agents applied to a recessed ductile iron cover.

- High Skid resistance
- High friction factor, similar to the surrounding areas
- High durability of aggregates and bonding agents
- Fully appropriate for installation in dangerous zones

Code (Inter-Ax2 type)	Clear Opening	Frame Depth
GRIPTOP60/60/100	600 x 600	100
GRIPTOP60/60/150	600 x 600	150
GRIPTOP675/100	675 x 675	100
GRIPTOP675/150	675 x 675	150
GRIPTOP120/60/100	1220 x 685	100
GRIPTOP120/60/150	1220 x 685	150

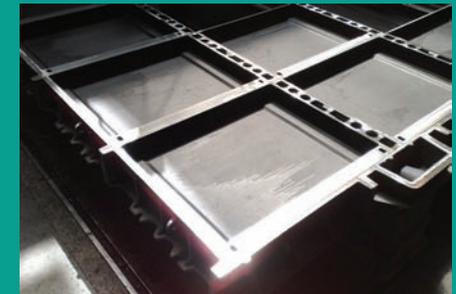


Large Span Ductile Covers

Working closely with specialist suppliers, Durey Castings are able to arrange site inspections and detailed drawings for chambers that require either extra heavy loading covers or large span duct runs.

Such conditions may include airports, dock areas and goods yards with particularly heavy vehicles.

Please call our sales office for further information.



 is a registered trademark of NORINCO®

Durey Castings Limited's stock includes a wide variety of galvanised steel covers including light and heavy duty, single seal and double sealed/locking as well as recessed block paving and screed covers and frames. In addition because of the versatility of steel, bespoke items can be manufactured to your specific requirements (See pages 25 & 26).

Galvanised covers have a similar rating/loading system to ductile/iron products and are manufactured to FACTA standards.

DUREY CASTINGS LIMITED ARE ASSOCIATE MEMBERS OF FACTA

The Fabricated Access Cover Trade Association (FACTA) standard is recognised throughout the industry as the only standard to promote steel and composite access covers and frames.

The FACTA standard enables the customer to confidently specify fabricated access covers to their most suited load requirements with the assurance that the products are fit for their purpose, being designed and tested in accordance with strict European guide lines.

Fabricated access covers complying with the requirements of this specification shall be graded as follows:

FACTA Class	GLW Gross Laden Vehicle Weight (slow moving)	Wheel Loads		Typical Applications	
		Wheel Loads ** (slow moving) Pneumatic	Wheel Loads ** (slow moving) Solid	Pneumatic Tyres	Solid Tyres
A 	Pedestrian duty	0.6 tonne (5kN)	N/A	Internal and external areas which can only be used by pedestrians or cycles i.e. toilets, changing rooms, footways and cycle tracks	
AA 	5 tonne	1.5 tonne (15kN)	N/A	Very light industrial areas, where small trolleys and private cars/vans can manoeuvre i.e. Domestic driveways, trolley parks, hospital wards.	
AAA 	10 tonne	2.5 tonne (25kN)	0.5 tonne	Delivery/service areas, shopping malls, light industrial areas	Light industrial areas, where trolleys and light pallet trucks operate.
B 	Up to 44 tonne *	5.0 tonne (50kN)	0.75 tonne	Pedestrian precincts, forecourts, commercial delivery/parking areas.	Factories, industrial plants, where pick-up trucks and small pallet trucks operate.
C 	Up to 44 tonne but under special conditions *	6.5 tonne (65kN)	1.0 tonne	Factories, industrial plants, special axle loads, kerb side drainage	Industrial areas where pallet and small fork-lift trucks operate
D 	Up to 44 tonne but under special conditions *	11.0 tonne (108kN)	3.0 tonne	Heavy duty plant areas carriageways and industrial service roads where fast moving HGVs reach speeds of 20mph max.	Heavy duty industrial areas where medium duty fork-lift trucks operate
E 	Special application vehicles	16.0 tonne (158kN)	5.0 tonne	Dockside and container storage areas where heavy transporters operate	Very heavy industrial areas where large heavy duty fork-lift trucks operate.
F 	Special application vehicles	24.0 tonne (237kN)	N/A	Civil and military airfield aprons, where particularly heavy wheel loads are imposed by aircraft and towing vehicles.	

* Under the "Road Vehicles (Authorised Weight) Regulations

Axle weights for the UK are limited to 11.5 tonnes maximum *Refer to 'Acceptance Test for maximum design load/load bearing capacity)

** Slow moving wheel loads are deemed to be speeds no greater than 20mph.

*** These comparisons are for guidance only and are not intended to be exact



Associate Member

Galvanising

All fabricated steel products are hot dipped galvanised to BS EN ISO 1461.

'Galvanising' involves immersing the product completely in a molten zinc compound. Corrosion rates for zinc are very low and the finished product ensures a tough, high corrosion resistant finish. A 30-40 year product life is commonplace with 50 years within a rural atmosphere.

FACTA AA



Manufactured from mild steel and galvanised to BS EN ISO 1461

Chequer plate top finish

5 tonne gross vehicle weight - slow moving

For use in domestic driveways, very light industrial areas

Suitable for areas where traffic does not exceed 20 mph

See page 21 for double seal & locking options

See page 25 & 26 for special options including peep hole, hinged, etc

FACTA D



Manufactured from mild steel and galvanised to BS EN ISO 1461

Chequer plate top finish

44 tonne gross vehicle weight - slow moving

For use in heavy duty plant areas and industrial service roads

Suitable for areas where traffic does not exceed 20 mph

See page 21 for double seal & locking options

See page 25 & 26 for special options including peep hole, hinged, etc

ALL THESE COVERS CAN BE LOCKED

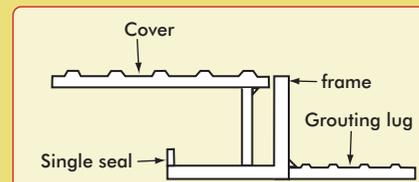
GALVANISED STEEL / CHEQUER PLATE TOP / SINGLE SEAL

Code	Clear Opening	Frame Depth
DU171AXG	300 x 300	35
DU171AG	450 x 450	35
DU171BG	600 x 450	35
DU171CG	600 x 600	35
DU171DG	750 x 600	35
DU171EG	750 x 750	35
DU171FG	900 x 600	35
DU171GG	900 x 750	35
DU171HG	900 x 900	35



GALVANISED STEEL / CHEQUER PLATE TOP / SINGLE SEAL

Code	Clear Opening	Frame Depth
DU174AXG	300 x 300	35
DU174AG	450 x 450	35
DU174BG	600 x 450	35
DU174CG	600 x 600	35
DU174DG	750 x 600	35
DU174EG	750 x 750	35
DU174FG	900 x 600	35
DU174GG	900 x 750	35
DU174HG	900 x 900	35



SINGLE SEAL

FACTA AA

Manufactured from mild steel and galvanised to BS EN ISO 1461

Chequer plate top finish

Locked 4 screws

Neoprene seal - gas & air tight

5 tonne gross vehicle weight - slow moving

For use in domestic driveways, very light industrial areas

Suitable for areas where traffic does not exceed 20 mph

See page 20 for single seal options

See page 25 & 26 for special options including peep hole, hinged, etc

FACTA D

Manufactured from mild steel and galvanised to BS EN ISO 1461

Chequer plate top finish

Locked 4 screws

Neoprene seal - gas & air tight

44 tonne gross vehicle weight - slow moving

For use in heavy duty plant areas and industrial service roads

Suitable for areas where traffic does not exceed 20 mph

See page 20 for single seal options

See page 25 & 26 for special options including peep hole, hinged, etc.

DO NOT GREASE SEAL IF THE COVER HAS A NEOPRENE SEAL AS THIS WILL AFFECT THE PERFORMANCE

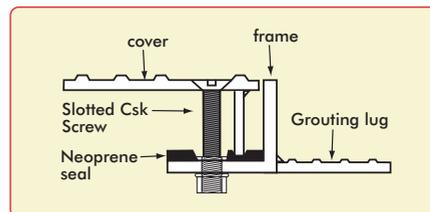
GALVANISED STEEL / CHEQUER PLATE TOP / DOUBLE SEAL / LOCKED 4 SCREWS

Code	Clear Opening	Frame Depth
DU271AX	300 x 300	40
DU271A	450 x 450	40
DU271B	600 x 450	40
DU271C	600 x 600	40
DU271D	750 x 600	40
DU271E	750 x 750	40
DU271F	900 x 600	40
DU271H	900 x 750	40
DU271G	900 x 900	40



GALVANISED STEEL / CHEQUER PLATE TOP / DOUBLE SEAL / LOCKED 4 SCREWS

Code	Clear Opening	Frame Depth
DU274AX	300 x 300	40
DU274A	450 x 450	40
DU274B	600 x 450	40
DU274C	600 x 600	40
DU274D	750 x 600	40
DU274E	750 x 750	40
DU274F	900 x 600	40
DU274G	900 x 900	40



DOUBLE SEAL

FACTA AA

Heavier loadings available on request

Hinged and Stay bar

Locking (turnbuckle lock)

Single Seal



OPTIONAL EXTRA - CONCEALED PADLOCK BOX

GALVANISED STEEL COVER & FRAME HINGED & LOCKING

Code	Clear Opening	Frame Depth
DU175A	300 x 300	40
DU175B	450 x 450	40
DU175C	600 x 450	40
DU175D	600 x 600	40
DU175E	750 x 600	40
DU175F	900 x 600	40

**TURNBUCKLE KEY**

DURSTRESS

Internal recessed cover and frame



Brass edge



Stainless steel edge

RECESSED COVERS RELY ON THE CONCRETE INFILL TO ACHIEVE THE RATED LOAD BEARING PERFORMANCE AND USE OF THE APPROPRIATE GRADE OF CONCRETE IS ESSENTIAL



FACTA AAA



Manufactured from mild steel and galvanised to BS EN ISO 1461

10 tonne gross vehicle weight - slow moving

Recessed for filling on site enabling surrounding floor finish to be maintained ie tiles, carpet, vinyl etc

All double neoprene seal

Gas & airtight under normal atmospheric conditions - suitable for internal applications

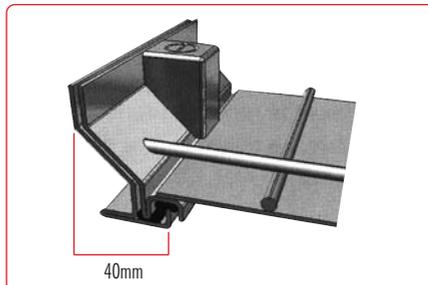
Galvanised edge as standard

All sizes available in this style with Stainless Steel or Brass Edge for aesthetic/enhanced value

Non standard sizes can be manufactured to order

Aluminium recessed covers also available - see page 26

Code	Clear Opening	Frame Depth	approx RECESS Depth	Size over top of frame
DU1350A	300 x 300	61	40	375 x 375
DU1350B	450 x 450	61	40	525 x 525
DU1350C	600 x 450	61	40	675 x 525
DU1350D	600 x 600	61	40	675 x 675
DU1350F	750 x 600	61	40	825 x 675
DU1350G	750 x 750	61	40	825 x 825
DU1350J	900 x 600	61	40	975 x 675
DU1350K	900 x 750	61	40	975 x 825
DU1350L	900 x 900	61	40	975 x 975



40mm

NEOPRENE DOUBLE SEAL

BLOCKER/Standard - Block Paving Recessed Cover & Frame



Recess Depth = 100mm

Clear Opening	Frame Depth	FACTA AA Code	FACTA AAA Code	FACTA D Code	Description
300 x 300	110	DU130		DU132	Either 80mm or 100mm Recess
450 x 450	110	DU130A	DU131A	DU132A	
600 x 450	110	DU130B*	DU131B	DU132B	130B*/80mm recess
600 x 600	110	DU130C	DU131C	DU132C	
750 x 600	110		DU131D/2		TwinTrays/Slide Out Unit
750 x 600	110	DU130D	DU131D	DU132D	
750 x 750	110	DU130E	DU131E	DU132E	
900 x 600	110	DU130F	DU131F	DU132F	
900 x 900	110		DU131G		Twin
1220 x 675	110			DU132H	Twin



Manufactured from mild steel and galvanised to BS EN ISO 1461

Stocked in three different loadings - non standard sizes / loadings can be manufactured

Recessed for block/slab/tactile infill - allows for aggregate base

Recessed 100mm unless indicated - other recess sizes available to order

Ensures appearance of paved areas are maintained

Fully flanged frame for stability under load

Can accommodate neoprene seals

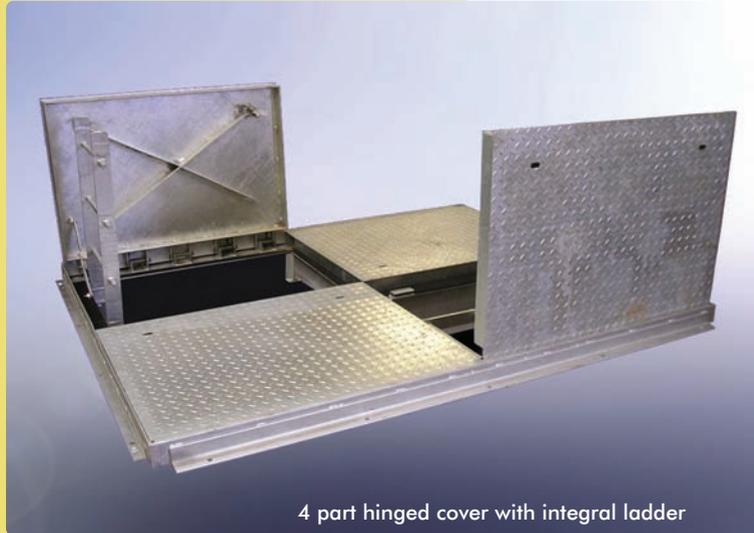
Can be stamped - CATV, WATER etc if required

Multiple leaf and continuous duct runs also available



For BT / Communication covers see page 28

The Durey Bespoke Steel Service



4 part hinged cover with integral ladder



Bollards

A relatively new concept in the manufacturer of covers is to incorporate an anti slip finish – ideal for external applications especially hazardous slip areas.

The Durey range of manhole ladders are manufactured to BS4211:2005 and available in galvanised mild steel, stainless steel and aluminium. Ladders come complete with wall brackets and fixing bolts.

The bespoke range of covers all come with the exclusive **DureyService®**



Anti slip cover

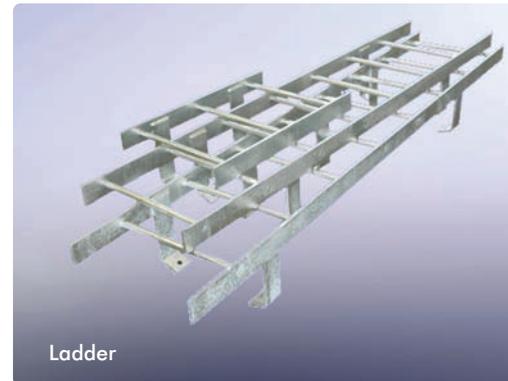
As well as our extensive stock of galvanised steel products we also provide a bespoke manufacturing service using materials such as stainless steel and aluminium.

Working very closely with architects and designers to produce exact requirements, it is possible to have virtually any combination of extras within a single design project.

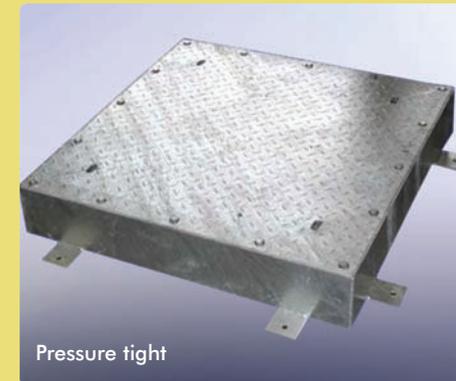
For example covers can be manufactured from heavy gauge plate to produce pressure and water tight benefits complete with neoprene sealing gaskets and corrosion resistant bolts.

Solid tops can be fabricated with a number of covers in the frame to reduce the bulk of large covers and units can be supplied in a number of combinations including continuous duct runs. Heavy weight covers are supplied with removable beams and bolt on wall pockets.

Special facilities can be incorporated within the covers themselves whether that be 'peep holes', inner sealing plates, padlock facilities or safety grills.



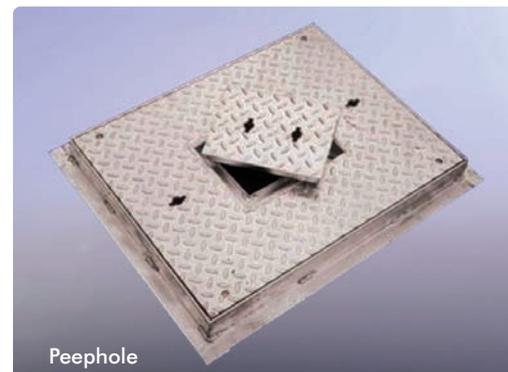
Ladder



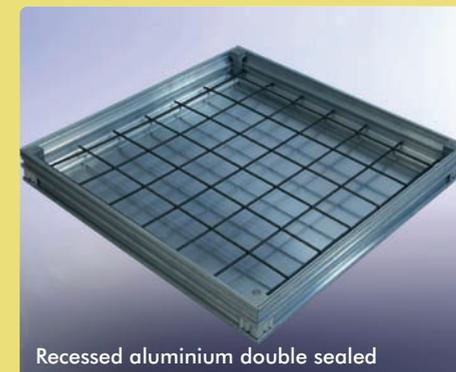
Pressure tight



Torsion spring assist lift solid top with a hinged open mesh safety grille



Peephole



Recessed aluminium double sealed

Telecom/Utility Cover & Frame

(Concrete Infilled Solid Top)

B125



Code	Clear Opening (mm)	Frame Depth	Over Top of Frame
DU885	380 x 230	52	467 x 316
DU881	550 x 315	52	640 x 410
DU867	600 x 450	52	680 x 540
DU865	613 x 613	52	695 x 695
DU862	725 x 255	52	810 x 335
DU863	730 x 460	52	810 x 560
DU868	750 x 600	52	840 x 680
DU864	916 x 446	52	1000 x 530
DU869	900 x 600	52	1000 x 700
DU866	1308 x 613	52	1400 x 700
DU871	1705 x 713	52	1800 x 800
DU870	2319 x 742	52	2410 x 830



Full range of Security Covers available

Telecom/Utility Recessed Block Paving Cover & Frame

70mm Recess

B125



Galvanised to BS EN ISO 1461
BT approved recessed covers - in accordance with BT specification

Suitable for up to 65mm tactiles

All multipart covers have removable support beams

Suitable for all communication applications and other utility services where a recessed cover is specified

Kitemarked in accordance with BS EN 124 Class B125

Mesh formation at cover base for keying epoxy mortar - see page 47 for mortar

Design allows for slide out removal

Can be stamped to customers requirements eg CATV, ELEC, CCTV etc

Security plates available new build or retrofit types

Code	BT Code	Clear Opening (mm)	Frame Depth	No. of Covers	Over Top of Frame
DUBT630	2	725 x 255	81	1	825 x 355
DUBT631	4	915 x 445	81	3	1015 x 545
DUBT632	5	610 x 610	81	2	710 x 710
DUBT633	6	1310 x 610	81	4	1400 x 700
DUBT634	10	2285 x 710	81	6	2385 x 810
DUBT635	11	1690 x 710	81	5	1790 x 810
DUBT636	JC1	960 x 610	81	3	1060 x 710





Quad

Manufactured from foamed high density polyethylene (HDPE)

The QUAD is approved for use on British Telecoms' national network. It is available in BT's standard joint box sizes 2,4 and 6 and is supplied in complete 150mm deep ring sections with internal cable management slots for fitting BT cable management brackets.



Quadbox is supplied in the following 5 sizes:
 (Ref Q7) 300x300mm x150mm deep
 (Ref Q1) 600x450mm x150mm deep
 (Ref Q2) 725x325mm x150mm deep *
 (Ref Q4) 914x455mm x150mm deep *
 (Ref Q6) 1308x610mmx150mm deep **

* usually 4x150 deep segments to form chamber
 ** usually 5x150 deep segments to form chamber

Preformed Access Chambers

Modula

Manufactured from talc filled polypropylene.

The Modula is mostly utilised for footway installations but due to its excellent vertical load capability it can also be installed in trafficked areas

Solid rings are the most popular component ring sizes moulded in a single solid piece. Mainly used as draw pits and inspection units.



Wedge Box

Manufactured from foamed high density polyethylene (HDPE).

The single wall design product can be used in conjunction with concrete solid top communication covers.



- FW1** (footway 1) use Wedge 1 chamber and Durey code DU885 (380 x 230mm clear opening)
- FW2** (footway 2) use Wedge 2 chamber and Durey code DU881 (550 x 315mm clear opening) or DU867 (600 x 450mm clear opening)
- FW3** (footway 3) use Wedge 3 chamber and Durey code DU868 (750 x 600mm clear opening) or DU863 (730 x 460mm clear opening)

See page 27 for the range of BT Concrete Solid Top Cover & Frames. A complete range of chambers available on request.

Step Irons

BS 13101 galvanised malleable BOLT ON type step iron

Durey Code DU57 2 no. 19mm dia fixing holes
 overall length = 135mm
 overall width = 150mm
 tread length = 125mm



BS 13101 galvanised malleable BUILT IN type step iron

Durey Code DU58A length width tread
 117mm tail (4.5") 250 150 125
Durey Code DU58B length width tread
 225mm tail (9") 375 150 125



Plastic Coated Step Irons



For Brickwork
 Steps fit neatly into the mortar gap between the bricks or into a small drilled hole



For Concrete
 Single and double steps for fitting into precast or existing concrete structures

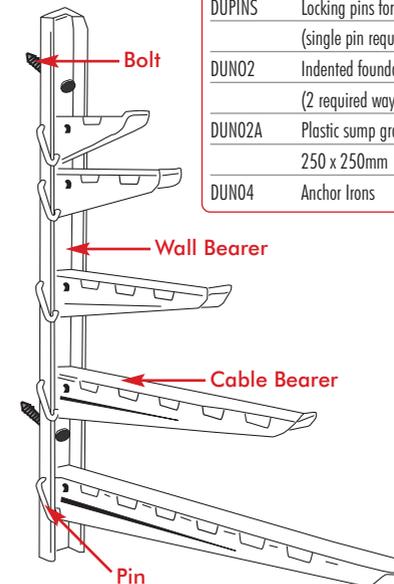
Available to order

Chamber Furniture for Brick/Concrete Chambers BT approved chamber furniture to fit BT chambers.

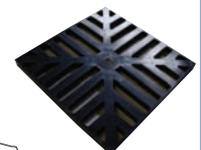
Wall Bearers Code	Length (mm)	Hole Positions	No.per pack
WBNo1	178	1	10
WBNo2	278	2	10
WBNo3	508	5	10
WBNo5	813	9	8
WBNo8	1270	15	6
WBNo10	1575	19	4
WBNo12	1880	23	4

Cable Bearers Code	Length (mm)	No per pack
CBNo3	115	40
CBNo5	165	30
CBNo8	242	25
CBNo12	343	10
CBNo18	495	6
CBNo24	648	6

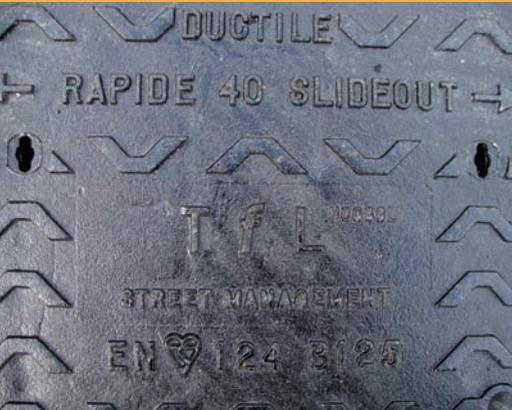
Accessories Code	Description	No per pack
DUPINS	Locking pins for cable bearer (single pin required to lock)	200
DUNO2	Indented foundation bolt No.2 (2 required way per bearer)	100
DUNO2A	Plastic sump grating 250 x 250mm	30
DUNO4	Anchor Irons	5



Anchor Iron



Sump Grate



TFL Ductile Cover & Frame

B125



Code	Clear Opening	Frame Depth	Description
DUH036T	450 x 450	40	Single cover / Slide-out
DUH041T	600 x 450	40	Single cover / Slide-out
DUH042T	600 x 600	40	Single cover / Slide-out
DUH050T	900 x 600	50	Twin cover / Slide-out
DUH060T	1300 x 610	50	Twin cover / Slide-out

Durey Castings stock both TFL ductile covers and TFL recessed covers

All these TFL covers are BS EN124, B125 rating

The covers are cast 'TFL'

All covers are slide out

The twin covers are self supporting and do not incorporate a centre bar

TFL Ductile Cover & Frame - Heavy Duty

D400



Code	Clear Opening	Frame Depth	Description
DU35CATFL	600 x 600	100	Double triangular, D400 carriageway cover cast 'TFL'



See pages 47 and 48 for full range of aggregates - including PY4 polyester fast setting resin



TFL & EDF Energy Recessed Covers

B125



Durey Castings stock both TFL ductile covers and TFL recessed covers

All TFL & EDF paviors are to incorporate slide-out multipart as standard

Recessed for block/slab/tactile infill - allows for aggregate base

Ensures appearance of paved areas are maintained

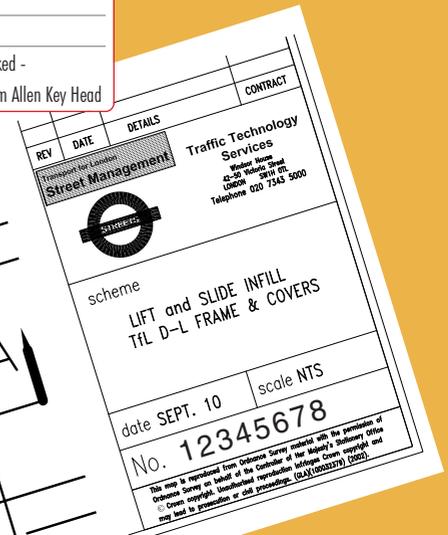
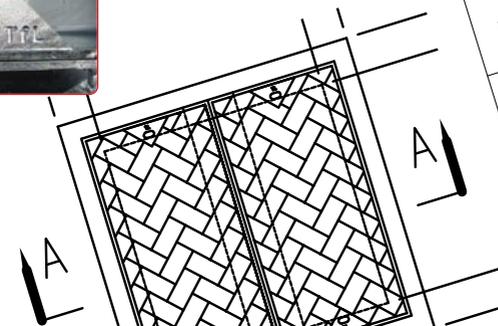
Manufactured from galvanised mild steel

Fully flanged frame for stability under load



Code	Clear Opening (mm)	Recess Depth	Frame No. of Covers	No. of Loading	Description
TFL454570	450 x 450	70	81	1	B125 / Pavement
TFL604570	600 x 450	70	81	1	B125 / Pavement
TFL6045100	600 x 450	100	110	1	FACTA C - Heavy Duty
TFL606070	600 x 600	70	81	2	B125 / Pavement
TFL6060100	600 x 600	100	110	2	FACTA C - Heavy Duty
TFL6060100L	600 x 600	100	110	2	FACTA C - Heavy Duty Locked - 6mm Allen Key Head
TFL906070	900 x 600	70	81	3	B125 / Pavement
TFL9060100	900 x 600	100	110	3	FACTA C - Heavy Duty
TFL9060100L	900 x 600	100	110	3	FACTA C - Heavy Duty Locked - 6mm Allen Key Head
TFL1206070	1200 x 600	70	81	4	B125 / Pavement
TFL12060100	1200 x 600	100	110	4	FACTA C - Heavy Duty
TFL12060100L	1200 x 600	100	110	4	FACTA C - Heavy Duty Locked - 6mm Allen Key Head

Code	Clear Opening (mm)	Recess Depth	Frame No. of Covers	Description
DU131A/EDF	450 x 450	70	81	1
DU131B/EDF	600 x 450	70	81	2
DU632/EDF	610 x 610	70	81	2
DU131D/2/EDF	750 x 600	70	81	2
DU636/EDF	960 x 610	70	81	3
DU633/EDF	1300 x 610	70	81	4



Gully Grates

D400



GREY CAST IRON DOUBLE TRIANGULAR GULLY GRATES

Code	Over Grate/ Clear Opening	Depth	Flanges
DU382B	450 x 450	100	3
DU382C	450 x 450	150	3

DUCTILE IRON DOUBLE TRIANGULAR GULLY GRATES

Code	Over Grate/ Clear Opening	Depth	Flanges
DU482B	450 x 450	100	3
DU482C	450 x 450	150	3
DU482D	600 x 600	100	3 or 4
DU482D/6	600 x 600	150	4

E600



DUCTILE DOUBLE TRIANGULAR GULLY GRATES

Code	Over Grate/ Clear Opening	Depth	Flanges
DU382D	480 x 480	150	3



Grey Cast Iron

Pattern may vary according to manufacturer



Ductile Iron

Pattern may vary according to manufacturer

Available in either traditional grey cast iron or ductile

Non rock type - for stability and silent operation

Suitable for use in carriageways and main roads with fast moving traffic

Loosely bolted lids

3 flanges allowing frame to butt up to kerbstones in the carriageway

Grey Cast Iron Gully Grates

Manufactured from grey cast iron making the gullies very stable insitu

D400



C250



Medium & Heavy duty flat top captive hinged gully grate and frame

HINGED - FLAT TOP

Code	Over Grate/ Clear Opening	Depth	Loading	Description
DU380AF	225 x 225	65	C250	Captive Hinged / Anti Theft
DU380BF	300 x 300	65	C250	Captive Hinged / Anti Theft
DU388A	400 x 350	100	D400	Captive Hinged / Anti Theft
DU388B	500 x 350	100	D400	Captive Hinged / Anti Theft
DU388C	450 x 450	100	D400	Captive Hinged / Anti Theft
DU389B	500 x 350	150	D400	Captive Hinged / Anti Theft

C250



Dished for the quick removal of water from the road/path surface.

Captive hinge for security

HINGED - DISHED

Code	Over Grate/ Clear Opening	Depth	Loading	Description
DU380A	225 x 225	65	C250	Captive Hinged / Anti Theft
DU380B	300 x 300	65	C250	Captive Hinged / Anti Theft
DU380E	400 x 350	125	C250	Captive Hinged / Anti Theft
DU380F	500 x 350	125	C250	Captive Hinged / Anti Theft
DU380G	750 x 450	150	D400	Ductile Captive Hinged / Anti Theft



Pattern may vary according to manufacturer



Pattern may vary according to manufacturer

Multiple Double Triangular Gully Grates

D400



Code	Over Grate/ Clear Opening	Depth	Covers
DU2382A	900 x 420	100	twin
DU2382B	1000 x 450	150	twin
DU2382C	1210 x 685	100	twin
DU2382D	1825 x 685	100	triple

Large heavy duty twin gully grates either twin or triple

FOR A FULL RANGE OF AGGREGATE PRODUCTS FROM INSTARMAC SEE PAGES 47 & 48



Ductile Iron Hinged Gully Grate & Frame

Fixed captive hinges help to reduce grating theft

C250



Kerb hinge

Pattern may vary according to manufacturer

Code	Over Grate/ Clear Opening	Depth	Loading	Hinged	Description
DU488A	380 x 320	75	C250	END	Captive Hinged/Anti Theft Design
DU893	380 x 320	100	D400	END	Hinged & PEDESTRIANISED grate



Captive hinge

D400



End hinge

Code	Over Grate/ Clear Opening	Depth	Loading	Hinged	Description
DU488B	360 x 310	100	D400	END	Captive Hinged/Anti Theft Design
DU488C	500 x 350	100	D400	END	Captive Hinged/Anti Theft Design
DU488E	430 x 370	100	D400	END	Captive Hinged/Anti Theft Design
DU488E/6	430 x 370	150	D400	END	Captive Hinged/Anti Theft Design
DU488F	600 x 450	100	D400	END	Captive Hinged/Anti Theft Design
DU482D/M	600 x 600	100	D400	4 FLANGE	CAPTIVE Hinged & PEDESTRIANISED grate
DUHR865	430 x 370	100	D400	KERB	Captive Hinged/Anti Theft Design 'Watershed' Design
DU386	600 dia	100	D400		Circular Top - Square Base



Hidden hinge - extra security against theft

Code	Over Grate/ Clear Opening	Depth	Loading	Hinged	Description
DUBY34	450 x 450	100	D400	KERB	Hidden Hinge', Snap Lock Front - Extra Security
DUBY35	450 x 450	150	D400	KERB	Hidden Hinge', Snap Lock Front - Extra Security

Pedestrianised Ductile Iron Hinged Gully Grate & Frame

D400



Code	Over Grate/ Clear Opening	Depth	Loading	Description
DU5801M	440 x 440	100	D400	Square Mesh Pedestrian/Cycle Friendly Captive Hinged/Anti Theft Gully Grate & Frame

Small square holes make this grating perfect for pedestrian/cyclists whilst still giving a large waterway and a full D400 loading

Captive hinge for security

Hole size 38 x 30mm

Also available Code DU893 (see page 36)
380 x 320 x 100, D400 with holes 17 x 22mm

and

Code DU482D/M (See page 36)
600 x 600 x 100, D400 with holes 140 x 30mm



Kerb Type Gully Covers & Accessories

	Code	Over Base	Depth	Loading	Description
	DU200A	555 x 400	150	 D400	Half Battered Cover & Frame. To suit kerb profile. Hinged & Locking
200A Half Battered	DU200B	555 x 400	150	 D400	45 degree splay gully kerb
	DUSUB		40		40mm Sub Frame Increases 200A and 200B to 190mm deep. Easy to use with incorporated locating grooves.
	DUHK02	562 x 465	205	 D400	Half Battered Cover & Frame. Popular with local authorities because of the very large waterway. This unit has full depth teeth along the front to prevent bottles and cans entering the drain.
	DU204	width x depth x height 375 x 180 x 285			Easy flow kerb drainage outlet or offset. Half battered as standard but also available in 45 degree kerb profile. 150mm rear outlet as standard. Spigot length 90mm.
	DU207	width x depth x height 570 x 450 x 200			Gully chute connector. 150mm outlet. Can be used with many types of gratings & kerb covers



* Key to suit 200A / 200B
Code DULK200

Cast Iron Hinged & Locking Grate & Frame

Grate & frame fitted with a non-ferrous turnbuckle lock

Circular



PEDESTRIAN DUTY



Rectangular



PEDESTRIAN DUTY



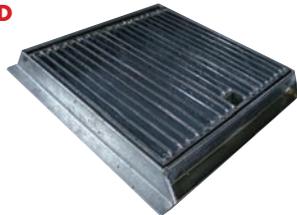
Code	Size (dia) over grate mm	Depth mm	Inches
DU42A	140	25	5½
DU42B	197	25	7¾
DU42C	273	35	10¾
DU42D	368	35	14½

Code	Size over grate mm	Depth mm	Inches
DU43A	152 x 152	25	6 x 6
DU43B	229 x 229	25	9 x 9
DU43D	254 x 254	40	10 x 10
DU43E	305 x 305	40	12 x 12

Steel Hinged & Locking Grate & Frame



FACTA D



FACTA D

Heelguard type / pedestrian friendly - very popular for pedestrian shopping areas, playgrounds, public areas,

This is a galvanised (silver finish) steel grate with very narrow (8mm) gaps between the bars.

FACTA D loading with a shallow frame

They are aesthetically pleasing and because of the loading can be used in goods yards etc.

Code	Size over grate mm	Depth mm	Description
DU507B	230 x 230	40	Antitheft Design/Facta D
DU507C	300 x 300	40	Antitheft Design/Facta D
DU507D	450 x 450	40	Antitheft Design/Facta D

Cast Iron Flat Grating

Cast iron flat grating suitable for replacement grid where security is not a problem

Circular



PEDESTRIAN DUTY



Rectangular



PEDESTRIAN DUTY



Code	Size (dia) over grate mm	Depth mm	Inches
DU46A	102	9	4
DU46B	114	9	4½
DU46C	152	9	6
DU46D	229	13	9
DU46E	267	25	10½
DU46F	286	25	11¼
DU46G	305	25	12
DU46J	380	25	15

Code	Size over grate mm	Depth mm	Inches
DU47A	102 x 102	9	4 x 4
DU47B	152 x 152	9	6 x 6
DU47SP	152 x 152	25	6 x 6
DU47C	229 x 229	13	9 x 9
DU47D	254 x 152	13	10 x 6
DU47E	254 x 254	13	10 x 10
DU47F	305 x 305	13	12 x 12

Cast Iron Dished Grating

Cast iron dished grating suitable for replacement grid where security is not a problem

Cobweb



**PEDESTRIAN
DUTY**



Code	Size (dia) over grate		Depth	
	mm	Inches	mm	Inches
DU44A	114	4½	9	9
DU44B	127	5	9	9
DU44C	140	5½	9	9
DU44D	152	6	9	9
DU44E	191	7½	9	9
DU44F	203	8	9	9
DU44G	229	9	9	9
DU44J	285	11¼	9	9
DU44K	368	14½	16	16
DU44L	381	15	16	16

Square



**PEDESTRIAN
DUTY**



Code	Size over grate		Depth		Description
	mm	Inches	mm	Inches	
DU45A	102 x 102	4 x 4	9	9	
DU45B	127 x 127	5 x 5	9	9	
DU45C	152 x 152	6 x 6	9	9	
DU45D	203 x 203	8 x 8	13	13	
DU45E	229 x 229	9 x 9	13	13	
DU45P	150 x 150	6 x 6	10	10	Black Plastic Dished

Cast Iron Sealing Plate Locked 2 Screws

Cast iron sealing plate and frame complete with 2 locking screws

Circular



**PEDESTRIAN
DUTY**



Rectangular



**PEDESTRIAN
DUTY**



Code	Size (dia) over cover		Depth	
	mm	Inches	mm	Inches
DU40B	140	5½	25	25
DU40C	191	7½	25	25
DU40D	273	10¾	25	25
DU40E	368	14½	25	25

Code	Size over cover		Depth	
	mm	Inches	mm	Inches
DU41A	152 x 152	6 x 6	25	25
DU41B	203 x 203	8 x 8	25	25
DU41C	229 x 229	9 x 9	25	25
DU41D	254 x 152	10 x 6	25	25
DU41E	254 x 254	10 x 10	25	25
DU41F	305 x 305	12 x 12	25	25

Linear Drainage

Linear drainage or channel drainage is quickly becoming one of the most popular methods of drainage systems. The aesthetic value of linear drainage and its' inherent advantages makes it the ideal choice in diverse applications such as domestic patios, motorways and lorry parks.

The channels collect surface water along the length of the system, depositing it into the underground system as appropriate.

Linear systems are more efficient than traditional point drainage systems.

- No buried pipes
- Water transfer improved
- Simpler layout design
- Quicker, easier and cheaper to install
- Easy to maintain
- Risk of ponding reduced.

Stock items include polymer concrete channels, a variety of grates for different loadings, fixing bolts, end caps and outlets.

In addition we can supply sump units and a whole range of channels and grates including shallow channels, F900 grates and 'slot' drainage – a narrow, unobtrusive, aesthetic drainage system.

We are also able to provide site visits and drawings as well as offering hydraulic calculations from site take offs.



Linear Drainage

	Durey Code	Length	Description
	DULINEARCHANNEL Constant depth internal 92 height x 100 width external 127 height x 130 width	1000	Polymer concrete channel with galvanised steel edge.
	DULINEARGRATEA15	1000	A15 galvanised steel grate ideal for patios, gardens etc pedestrian use only
	DULINEARGRATEC250	500	C250 ductile iron, narrow slot, ideal for car parks, slow moving light commercial traffic
	DULINEARGRATEC250PLAS	500	C250 composite narrow slot grating complete with locking bolt and bar
	DULINEARGRATEE600	500	E600 ductile iron, heavy duty grate, ideal for slow moving HGV and forklift traffic
	DULINEARSUMP	500	Polymer concrete sump unit complete with silt bucket and knockouts. (order grating separately)
	DULINEARBOLT		Locking bolt and bar, 2 required per metre
	DULINEARENDCAP		Plain end cap
	DULINEARENDCAPOUT		Outlet end cap - 100mm outlet

500mm lengths of cast iron half round channel with either locking square mesh grating or solid chequer plate top

The channels fit together to make a longer run. Excellent for taking water away from a building across a pavement and into a drain.

Approved by all local authorities

Approximately 10 tonne loading

DU217A With locking square mesh grating

DU217B With locking solid top chequer plate top

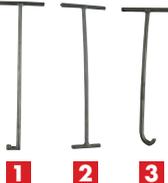
Cast Iron Drainage With Fixed Grating or Fixed Chequered Plate Top

217A



217B

Other keys available to order - please phone our sales office for details

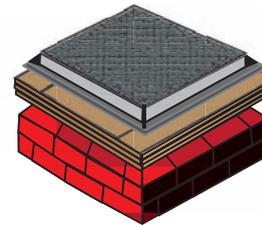
	LK53	Sold in pairs. Lifting key for tray type covers. Fits all 'Durstress' recessed covers
	LK54	Sold in pairs For light duty steel and A15 iron covers and frames
	LK55	Sold in pairs For medium duty and heavy ranges of manhole covers for some B125 and block paviors and all D400 covers
	LH55	Sold in pairs For D400 covers. Specially designed long handled lifting keys to aid lifting without strain Each key measures 550mm
	LH56	Sold each Long handled lifting keys for slideout BT type covers used as a lift & slide key to open pit covers in the pavement. Typically these will be BT/CATV concrete infilled covers. Each key measures 660mm
	LKGULLY	Sold each No. 1 gully key 750mm long with 250mm wide handle, 75mm wide 'hook' Sold each No. 2 gully key 750mm long with 250mm wide handle, 150mm wide 'T' base Sold each No.3 gully key. 650mm long, with 250m wide handle, 75mm wide 'J'
	DAUNTLESSKEY	Sold each Ductile manhole lifting key Complete with 4 different lifting keys Also available spare key wheel with the 4 different key heads Each key measures 870mm

SHIMPAC®

Shimpac planks are a combination of compressed cement (70%) and treated wood fibres (15%) and are used where final adjustment to carriageway and footpath ironwork is required. Shimpac provides a speedy, cost effective solution and can be installed using traditional, fast setting or polyester based epoxy based mortars. Shimpac can be cut with a disc cutter or tungsten tipped saw, planks up to 24mm thickness can be scored and snapped to length.

Shimpac can be used in situations where there is;

- sinking ironwork
- brittle mortar
- weak spots
- disintegrating brickwork
- no time for repair
- costly traffic management
- poor workmanship
- traffic upheaval



Shimpac;

- stays level
- high compressive strength
- compatible with all mortars
- simple and quick to install
- spreads traffic loading
- absorbs shock
- no weak spots
- minimises traffic disruption
- complies with requirements of the Highways Agency specification
- approved for use by utility companies and Highways authorities.

610mm

Code	Length x Width x Depth mm
SHIM6/100/8	610 x 100 x 8
SHIM6/100/12	610 x 100 x 12
SHIM6/100/24	610 x 100 x 24
SHIM6/100/40	610 x 100 x 36

810mm

Code	Length x Width x Depth mm
SHIM8/100/12	810 x 100 x 12
SHIM8/100/24	810 x 100 x 24
SHIM8/100/40	810 x 100 x 36

Collars

Length	Width	Depth	Cut Out Dia
250	x 200	x 12	125
250	x 200	x 24	125
250	x 250	x 12	150
250	x 250	x 24	150
300	x 300	x 12	150



Durey Castings Limited works closely with Instarmac Group Plc to provide fast setting bedding mortars and aggregates providing the complete solution to ironwork installation and reinstatements.

	Durey Code M60	Product M60	Rapid strength bedding mortar Rapid set manhole frame bedding mortar, 10-75mm depth, designed for the fast installation of street ironwork. Use for street ironwork, bonding of sets and flags, emergency repairs and bedding of kerbs. Open to traffic in 60 minutes. Coverage 400 x 400mm standard frame @ 25mm - approx
	Unit 25kg bag or 25kg tub	Pallet Quantity bag 56 or tub 40	
	Durey Code M90	Product M90	All purpose fast set mortar. General purpose rapid set mortar, 10-75mm depth for a wide variety of general construction applications. Use for bedding of street ironwork and general repairs. Open to traffic in 90 minutes. Coverage 400 x 400mm standard frame @ 25mm - approx
	Unit 25kg bag or 25kg tub	Pallet Quantity bag 56 or tub 40	
	Durey Code PY4	Product PY4	Polyester resin fast setting bedding mortar. A resin mortar specifically designed for the installation of ironwork and other street furniture in heavily trafficked locations. For depths between 5 - 50mm. Use for manhole frames, gully grates, kerbs, street furniture and ductile ironwork. Open to traffic in 40 minutes. Coverage 400 x 400mm standard frame @ 25mm - approx
	Unit 25kg tub	Pallet Quantity 30	
	Durey Code PY5	Product PY5	Polyester resin mortar. FLOWABLE. Suitable for for anchoring bolts or bars, bedding cats eyes, backfilling manholes etc. Perfect for grouting street furniture and traffic signs. PY5 is the perfect accompaniment of PY4 when bedding ironwork, its flowable texture when mixed can be poured around the frame ensuring all voids are filled. Coverage 78 tubs per cubic metre
	Unit 25kg tub	Pallet Quantity 30	
	Durey Code ENVIROBED	Product ENVIROBED	Environmentally friendly alternative to resin based mortars. For the installation of ironwork. High strength mortar for depths between 10-50mm. Can be used in wet weather conditions, opens to traffic in 60 minutes. Coverage 400 x 400mm standard frame @ 25mm - approx
	Unit 20kg bag & 2.5ltr bottle or 2x8kg bad & 2x1ltr bottle	Pallet Quantity bag 48 or tub 40	
	Durey Code QC6	Product QC6	Rapid set surfacing concrete. Designed for repairing surfaces in pedestrian areas. Quick setting to prevent accidental damage or vandalism. Can be utilised in depths between 12 - 100mm. Use for reinstatements in concrete drives and around pavement street furniture. Set time 15 minutes. Coverage approx 1m ² @ 12.5mm
	Unit 25kg bag or 25kg tub	Pallet Quantity bag 56 or tub 40	
	Durey Code QC10	Product QC10	Rapid strength concrete. Designed for thick section concrete repair, backfill of carriageway ironwork, haunching, reinstatements, post and barrier erection 20 - 250mm thick. Use for manhole frames, post erection, barrier erection and sign erection. Set time 15 minutes. Coverage approx 1m ² @ 12.5mm
	Unit 25kg bag or 25kg tub	Pallet Quantity bag 56 or tub 40	
	Durey Code Pro-Bed HS	Product Pro-Bed HS	Pro-Bed HS provides a perfect bound base for natural stone paving and cobbles, concrete paving, flags and block paving which once laid are able to accept foot traffic after 12 hours and vehicular traffic after 24 hours. Coverage 1m ² @ 12.9mm
	Unit 25kg bag	Pallet Quantity 56	

	Durey Code Flowpoint	Product Flowpoint	Rapid set grout. A rapid set grout with high fluid consistency for early trafficking. Use for rapid pointing of granite sets. Coverage 72 bags per cubic metre
	Unit 25kg bag	Pallet Quantity 56	
	Durey Code Jointfix	Product Jointfix	Joint Fix is a resin based liquid surface and sand joint sealer. Joint Fix will bond sand in the joint whilst still maintaining a degree of flexibility. Also acts as a surface sealer to reduce staining from oils and foodstuffs. Coverage (joint width 2/4mm) 1 litre per 2m ²
	Unit 25 litre metal drum		
	Durey Code Pavejoint	Product Pavejoint	Pavement jointing compound for drives and paths. Very fine sand with small amount of concrete and polymer. Pour over blocks, sweep into joints with a broom and wash down with a hosepipe. Available in Natural or Buff Coverage = 1 tub = 200 x 100 x 50mm with a 3mm joint approx 6 sq metres
	Unit 20kg tub	Pallet Quantity 40	
	Durey Code IRR 6mm	Product IRR 6mm	6mm black macadam instant road repair. Up to 60mm in depth Once compacted can be trafficked immediately. Also available in dark red. Coverage = 1 tub = 1m ² @ 15mm compacted
	Unit 25kg bag or 25kg tub	Pallet Quantity bag 56 or tub 52	
	Durey Code IRR 10mm	Product IRR 10mm	10mm black macadam instant road repair. Up to 100mm in depth 10mm is a general wearing course. Once compacted can be trafficked immediately. Coverage = 1 tub = 1m ² @ 15mm compacted
	Unit 25kg bag or 25kg tub	Pallet Quantity bag 56 or tub 52	
	Durey Code IR3B	Product PERMANENT POTHOLE REPAIR	Permanent pothole repair solution. Can be trafficked instantly in wet, freezing and hot conditions. Can be applied at depths of 20mm - 100mm (greater depths can be achieved by applying the layer on layer method) Coverage = 1 tub = 1m ² @ 15mm compacted
	Unit 25kg tub	Pallet Quantity 50	
	Durey Code SCJ	Product SCJ	Spray applied bitumen cold joint sealer. Seals vertical road edges of footway and ironwork reinstatements. Prevents water ingress instantly, no waste, simple to use.
	Unit 750ml aerosol can	Box Quantity 12	
	Durey Code ZORBIT	Product ZORBIT	Spillage absorption system. Zorbit recyclable spill absorbent is a natural recycled product that is extremely efficient in cleaning up fuel and oil spills from carriageways.
	Unit 8kg bag & 60 litre recycling unit	Pallet Quantity 50 bags recycling unit sold separately	
	Durey Code GREASE	Product MANHOLE SEALING GREASE	Soap based grease meaning it's effectiveness is not affected by the presence of water. It is a non setting grease which means it will create an effective barrier against smells. On average 1 x 3kg tin = 3 manhole covers
	Unit 3kg tin		

This Double Hinge Flap Valve is of a circular aperture design which prevents reverse flow in outfall installations. Suitable for use in surface or storm water applications. Typical installations include outfalls from treatment works & rivers, etc. All valve sizes are double hung to provide optimal sealing. For salt water application please call our sales office.

Main Features

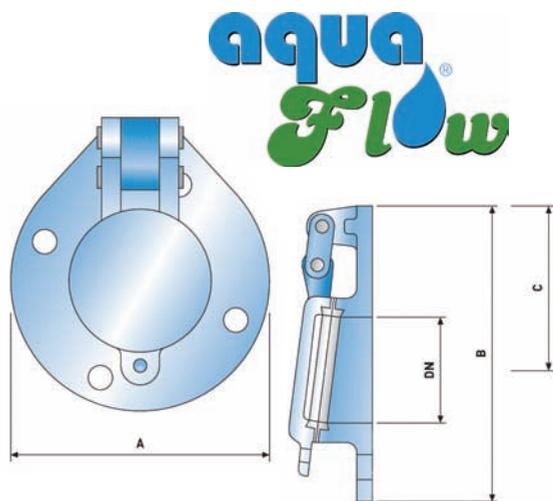
- Tamper-proof stainless steel hinge pins
- Body and flap manufactured from ductile iron
- Incorporates flap lifting eye to facilitate opening
- Superior metal seat facing machined to a high quality finish providing excellent seating characteristics
- Unique lightweight ductile iron design providing ease of handling and installation
- Single link design for sizes DN80-250 – double link design for sizes DN300 – 600
- Corrosion resistant construction coated in fusion bonded epoxy, minimum thickness 300 microns
- Drilled to suit both wall or flange mounting
- Bolt sets ordered separately depending on application – please phone our sales department for details

Code	DN	A	B	C	PCD	Bolts	hole dia	Weight kg
DU5080	80	200	225	125	160	4	18	5
DU5100	100	220	245	135	180	4	18	6
DU5150	150	285	315	172	240	4	22	11
DU5200	200	332	368	202	295	4	22	16
DU5225	225	368	404	220	324	4	18	20
DU5250	250	400	438	238	355	4	26	23
DU5300	300	454	495	268	410	4	26	32
DU5350	350	550	588	313	470	4	26	34
DU5375	375	550	588	313	495	4	25	34
DU5400	400	580	612	322	525	4	30	49
DU5450	450	585	635	360	585	4	31	56
DU5500	500	600	692	392	650	4	34	68
DU5600	600	730	815	450	770	4	37	93



Double Link

Single Link



Valves come in a wide variety of applications and sizes. Although it would be impossible to stock every combination we work very closely with dedicated suppliers to provide a speedy solution to your valve requirements. Please call our sales office at Hailsham to discuss your current and future projects.

- Gate Valves • Metal Seat Wedge Gate Valves • ISO Topped Gate Valves
 Wafer Pattern Butterfly Valves • Lugged & Tapped Butterfly Valves • Swing Check Valves
 Ball Check Valves • Wafer Check Valves • Spring Check Valves • Double Hinge Flap Valves
 • Penstocks Air Release Valves and many more.



Ball Check Valve



Metal Seat Wedge Gate Valve



Lugged & Tapped Butterfly Valve



Spring Check Valve



Metal Seat Wedge Gate Valve



Swing Check Valve



Wafer Check Valve



Air Release Valves



Backwater Valve
 Sizes Available mm (dia)
 100, 110, 125, 160, 200

Pumpfix
 Sizes Available mm (dia)
 110, 125, 160



Accommodation for control panel equipment can be provided from an extensive range of kiosks

Protection against flooding for all below ground areas
 Quick and easy pressure testing (remove plug, screw on funnel and test)
 No rust - ABS tough plastic construction
 No tools required. Unlock and remove by hand
 Stops rodents with the stainless flap that is retro-fitable
 Conforms to BSEN13564

**CALL OUR HAILSHAM DEPOT
 ON 01323 441110 FOR
 YOUR VALVE REQUIREMENTS**

RANGE (DU)	PAGE	RANGE (DU)	PAGE
10	6	BEDDING MORTAR	47 & 48
11	8	BT630 to BT636	28
12	9	BY34 & BY35	36
14	6 & 7	CB (Cable Bearer)	30
20	6	DAUNTLESS	45
35	10 & 11	ENVIROBED	47
40 & 41	42	FLOWPOINT	47
42 & 43	39	GREASE	47
44 & 45	41	GRIPTOP	17
46 & 47	40	H018 to H060	7
57 & 58	30	H2CJ76	14
61	10	H2DN	14
64	7	H3DN	13
65 (Grey Cast Iron)	12	HB16	10 & 15
70 & 71	14	HK02	38
130 to 132	24	HR865	36
150 to 152	15	IR10B	47
158	15	IR2B	47
160 & 161	15	IR3B (Pothole Repair)	47
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171 to 174	20	LH55 & LH56	45
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382 (Grey Cast Iron)	33	PY4 & PY5	47
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388 & 389 (Grey Cast Iron)	34	QUADBOX	29
482	33 & 36	SCJ	47
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507	39	SUBFRAME	38
862 to 885	27	TfL Range	31 & 32
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1350	23	WB (Wall Bearer)	30
2382	35	WEDGE BOX	29
5801M	37	ZORBIT	47

1. **1.0** Payment is due within 30 days of the date of invoice, except;
 - 1.1 Where The Company operates a monthly account with it's customer, payment will be due by the end of the month following the month of delivery.
 - 1.2 All invoices are strictly nett.

2. **2.0** Sums overdue for payment will carry interest at 15% per annum from the date they become overdue until the date of payment.
 - 2.1 The company reserves the right to stop supplies to customers in cases of overdue payment.
 - 2.2 Goods will remain the property of The Company until paid for in full. The Company reserves the right to take back goods overdue for payment.

3. **3.0** Goods are at the customer's risk following delivery to the customer.
 - 3.1 Orders delivered in part will be invoiced and due for payment in respect of goods as they are delivered.
 - 3.2 Customers must notify The Company within 3 days of delivery of any shortfall in delivery of goods or of goods damaged on delivery.
 - 3.3 The Company expects to deliver on time in accordance with estimates but delivery estimates are not guaranteed and are provided as a guide only.
 - 3.4 The Company will make a cancellation charge if orders are cancelled. Where goods are held in stock, the cancellation charge will be a minimum of 25% of the order value. In the case of goods not held in stock, the cancellation charge will be the full order value.

4. **4.0** The Company reserves the right to alter the specification of any goods, provided that the goods supplied are of no less quality.
 - 4.1 The Company's liability in respect of damaged or faulty goods is limited to the value of those goods. No claim for consequential loss or personal injury will be accepted.
 - 4.2 Where The Company provides services, it shall not be liable for any loss or damages to the premises or property of any person; or death or injury to any person.

5. **5.0** Variation of these terms will only be effective if agreed by The Company in writing. In the case of conflict between The Company's conditions and the customer's trading conditions, these conditions will prevail unless expressly acknowledged otherwise in writing by The Company.