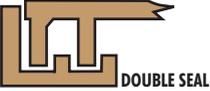


Manhole Cover/Gully Grates

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 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)