



## Manhole Cover/Gully Grates

### GLOSSARY

<b>Bearer Bar</b>	Used in pairs on ducts and channel gratings
<b>Captive Hinge</b>	Integral hinge which prevents total removal of cover or grating
<b>Cast Iron</b>	Traditional material for manhole covers and gully grates. Heavier than ductile iron and thus more stable insitu.
<b>Chequer Plate</b>	Raised pattern on top surface of covers, normally associated with galvanised mild steel covers
<b>Clear Opening</b>	The nominal unobstructed access opening in a frame
<b>Double Seal</b>	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
	
<b>Double Triangular</b>	Covers comprising two triangular sections providing stable seating under load and non-rock performance
<b>Ductile Iron</b>	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).
<b>End Hinged</b>	Hinge at 90° to kerb (left or right hand opening).
<b>Galvanising</b>	Protective hot dip zinc coating applied to steel products
<b>GRP Seal Plate</b>	Non metallic plate acts as a protective barrier against sewer gases
<b>Kerb Hinged</b>	Hinge located parallel and adjacent to the kerb
<b>Keyways (closed)</b>	Sealed lifting holes in covers for lifting keys which prevent ingress of dirt and water
<b>Keyways (open)</b>	Lifting holes in covers for lifting keys. Not capped beneath.
<b>Lokanlift</b>	Easy to operate turn buckle locking system requires simple key
<b>Locking</b>	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.
<b>Loosely Coupled</b>	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.
<b>MSG Seal Plate</b>	Usually 'bolt down'. Mild steel galvanised plate for fixing inside manhole frame and capable of withstanding 0.5 bar back pressure.

<b>Non-Rock</b>	Cover/Grating and frame design which gives stable seating i.e. double triangular
<b>Peephole</b>	A secondary access cover within the main access cover (usually required for inspection purposes)
<b>Pressure Tight</b>	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
<b>Prising Slot</b>	Slot in cover edge or occasionally on inside of frame that allows the use of a crow bar to loosen covers before removal.
<b>Recessed Cover</b>	Top of cover recessed to allow infilling with a chosen material, concrete, quarry tiles etc. usually to match surrounding area.
<b>Safety Grid</b>	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.
<b>Securing Bolts</b>	Provision is made in the frame of certain units for the insertion of bolts for positive fixing to the chamber (bolts not supplied).
<b>Sealed</b>	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	
<b>Single Piece</b>	Cover/grating comprises one piece
<b>Support Beam</b>	A member used to support the adjacent unsupported edges of a twin/multiple/linear access cover
<b>Support Beam Pockets</b>	A 'pocket' or bracket designed to support and fix the support beam to the chamber/supporting wall
<b>Slide Out</b>	Cover removed by lifting one end then sliding out rather than direct vertical lift. Reduces the effort needed for removal.
<b>Torsion Spring</b>	Fitted to the unit to assist in the opening/closing of the cover.
<b>Ventilated</b>	Openings within cover allowing free circulation of air within the shaft and prevent pressure build up.
<b>Watertight</b>	Protection against the passage of surface water of a minimal depth and at atmospheric pressure.
<b>Waterway area</b>	Free area of grating which allows the passage of water (i.e. total area of slots)