

For organisations operating buried networks that require access, High Max offers a solution which can prolong surface wear and the skid resistant life of the product.



THE CLARK-DRAIN D400 HIGH MAX SERIES

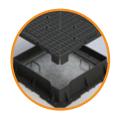
High Max provides a comprehensive range of product accessories to **enhance**, **protect and increase safety**. One frame can accommodate all five options, either factory fitted, or retrofitted to an existing High Max installation, avoiding the costly purchase of separate or replacement products.

SEALING PLATES, LOW LEAK AND SAFETY GRIDS



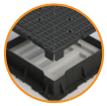
I. Drop in ductile iron low leak plate

Ingress of surface water into a sewer system can add to the problem of surging during periods of increased flows in the drainage system. The High Max low leak plate provides an additional seal to slow down/prevent the ingress of surface water in gully chamber systems.



2. Bolt-down steel sealing plate

During heavy rains and subsequent flood conditions, water surges can cause traditional manhole covers to be forced out of the ground, either becoming a hazard or simply leaving a hole in the road - having serious consequences for pedestrian and road users. High Max features a bolt-in sealing plate for added security for areas where flooding may be an issue. High Max sealing plates are specially designed to overcome problems of back pressure experienced in sewer shafts up to 0.5 bar (equivalent to pressure of five metres head of water). Mild-steel galvanised sealing plates are fixed inside the access frame and secured using screws enabling water to dissipate safely through the drain system, while ensuring that the cover doesn't become a hazard for pedestrians or motorists.



3. GRP sealing plate

Light in terms of manual handling, drop in Glass Reinforced Plastic (GRP) sealing plates act as a protective barrier against the egress of odours and the corrosive properties of sewer gases particularly in countries with hot climates.



4. Safety Grids

A specially designed galvanised stainless steel safety grid rests on the frame lip to prevent accidental man-entry into the chamber during access or maintenance.



5. Security grills (Prisons)

Fabricated medium to heavy duty high security steel hinged and locking grills and frames can be used in highly sensitive prison areas as a second level security barrier against unauthorised entry into and out of access chambers. They are designed and manufactured for all categories of HM Prison contracts with design variations to suit category A, B and C security levels.

STRENGTH COMES FROM WITHIN

Our team of design experts analyse the results of Finite Element Analysis (FEA) and 3D modelling to provide an understanding of the dispersion of dynamic loads from traffic on the cover and frame structure. High Max is purposely designed so that under heavy, dynamic loads stresses are distributed as evenly as possible on the bedding, minimising the impact on chamber top installations and reducing the risk of early failure.

Exceeds the BS EN 124 D400 loading requirement

The Cover and frame is capable of withstanding a 44 tonne test load. Made from high grade ductile iron for optimum strength and durability, High Max meets the needs of HA 104/09 (High risk areas).

Silent in use

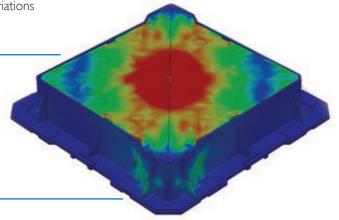
Non rock three point suspension with male and female support foot engagement directs the loading stresses for best-case frame and bedding interaction to minimise surface noise when trafficked..

Exceeds HA104/09 (High Risk Area) specification

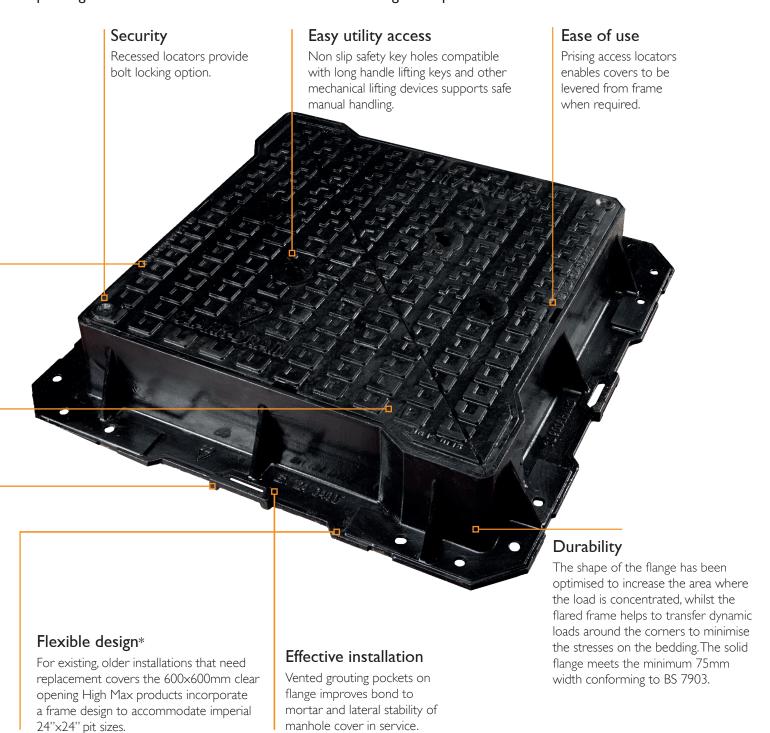
Tread pattern area has 25% more density than the minimum specified in EN 124 and 66% greater tread height, helping to prolong surface wear and the skid resistant life of the product.

Perfectly positioned seating

'Inboard' cover supports reduce the risk of cover collapse under extreme loads.



Road traffic in weight and volume has increased significantly in recent years, whilst the structural wear with each vehicle that passes increases significantly with increasing loads. Reason enough, we believe to design a tread pattern with 25% more density than the minimum specified in EN 124 and 66% more tread height, to prolong surface wear and the skid resistant life of the High Max product.



Product code	Clear opening (mm)	Loading class	Overall size (mm)	Frame depth	Overall weight (kg)
CD 901H KMD	600×600*	D400	847×847	100	104
CD 901AH KMD	600×600*	D400	851x851	150	115
CD 902H KMD	675×675	D400	915x915	100	125
CD 902AH KMD	675×675	D400	925×925	150	137



COMMITMENT TO QUALITY

HIGH MAX IS MANUFACTURED UNDER A CERTIFIED ISO 9001:2008 QUALITY MANAGEMENT SYSTEM. FURTHER ASSURANCE OF QUALITY IS GAINED FROMTHE RELEVANT EUROPEAN AND BRITISH PERFORMANCE SPECIFICATION UNDER THE PRESTIGIOUS BRITISH STANDARD KITEMARK AND COMPLIANCE WITH RELEVANT INDUSTRY SPECIFIC REGULATIONS.THE FOLLOWING STANDARDS ARE ACCREDITED TO CLARK-DRAIN:





ISO 9001:2008 All Clark-Drain

All Clark-Drain products are designed, developed and manufactured under the international quality standard, BS EN ISO9001:2008. Our whole team is committed to the principles of Total Quality Management.

BS EN 124

Our ductile iron manhole covers are covered by the BS EN 124 European standard. High Max covers and frames conform to a D400 loading class.

UVDB Verify

Clark-Drain has achieved Category A status with the UVDB Verify scheme against key criteria such as Health and Safety, Environmental controls & procedures and quality

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