TrenchFormer[®]



Heavy Duty Trench Drain Forming Systems



Heavy Duty Applications



Innovative Non-Rigid Retention Systems



Municipal Roads & Highways

www.abtdrains.com Today's Hydraulic Solutions





The MHD[™] Technology

ABT, Inc.'s **MHD** family of trench drains provides the complete assembly of parts needed to handle applications found in municipalities, roadways, the industrial marketplace and other various heavy duty applications. The **MHD** system goes far beyond a heavy duty grate with its components and features that were designed to offer the best cost of ownership available.

MHD System Components

1 MHD Heavy Duty Ductile Iron Grates

The MHD's advanced grate design is engineered to provide both performance and appearance. The attractive design provides lighter weight for ease of maintenance and greater inflow area with no sacrifice in strength.

2 MHD Four Corner Non-Rigid Grate Retainer System

Utilizing the "Pin Lock System", both longitudinal and vertical retention are achieved. The non-rigid "Pin Lock System" eliminates the thermal induced stresses in the typical bolt down assemblies that cause concrete cracking. The pins do not become loose and back out as bolts do. Although four pins are used for retention, only one pin per grate must be removed for maintenance.

3 MHD Frame Design

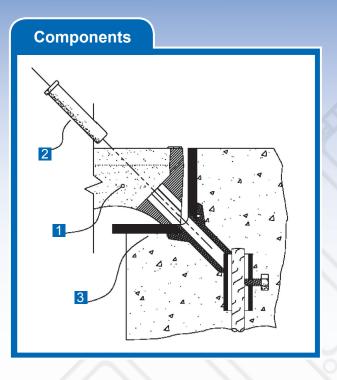
The MHD system's ASTM A-36 Structural Steel frame maximizes strength and load transference into the encapsulation concrete. MHD does not utilize liners that create the failure liability by being sandwiched between the frame and concrete... Such liner systems propagate failures by their low compressive strength, creep, and thermal expansion properties.

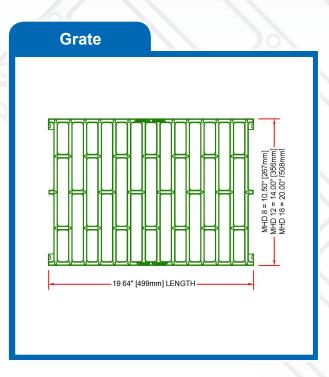
Design Flexibility

The MHD system's Expanded Poly Styrene (EPS) formers can be configured for the designer's special flow and depth requirements. A large range of trench depths, slopes, profiles and configurations provides the designer with greater flexibility for challenging projects. Additionally, the system is pre-engineered and factory fabricated reducing the potential for construction error in the field.

Inspectability & Constructability

The MHD systems are easily inspected after concrete placement. Prior to service, inspection for voids below the frame can be observed and repaired. Such voids are concealed by other systems and will eventually lead to frame collapse. The MHD system installs easily and quickly as compared to traditional cast-in-place trenches.

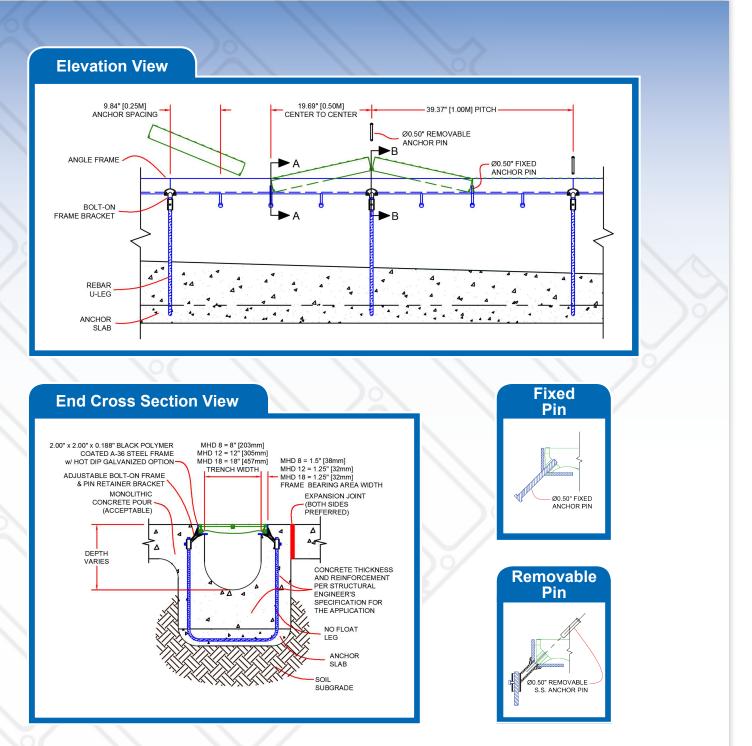




The MHD[™] Technical Data

- Grate Proof Strength H-20 & H-25+, exceeds all AASHTO M306-10 regulations.
- Vertical Grate Restraint 2,000 lbs.
- Longitudinal Grate Restraint 10,000 lbs.
- Frames are ASTM A-36 Structural Steel

- All parts are made in USA and comply FHWA's "Buy America" policies
- For hydraulic capacity for specific conditions, drawings, specifications, and other information go to www.abtdrains.com



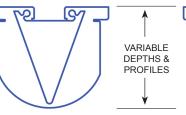
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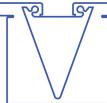
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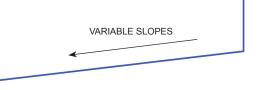
Heavy Duty Trench Drain Forming Systems

Designed Right, Engineering that Saves... Life Safety, Life Cycle...

Pre-Engineered EPS Forms







MHD's EPS foam former design flexibility allows the designer to select various system slopes, depths and section profiles to meet their specific requirements, site restrictions and hydraulics.

Design Notes:

- Typical frame sections are 6.56' (2M). Frames are also available in 3.28' (1M) & 1.64' (0.5M).
- Auxiliary frames are available to facilitate "T's", "L's", intersections, radii and joints.
- All MHD system grates are 19.64" (0.5M) in length. Widths vary per system.

** Call or E-mail us today for more information and design tools, go to www.abtdrains.com.

- Hydraulic Design Guide
- ACAD Drawings & Details
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