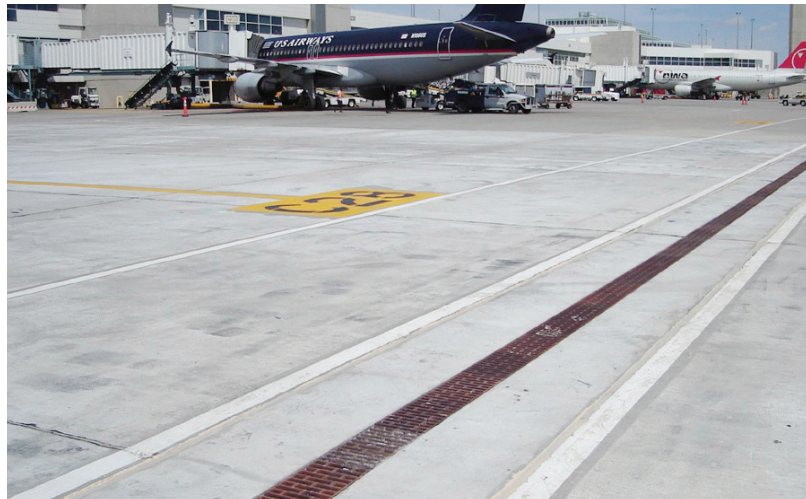
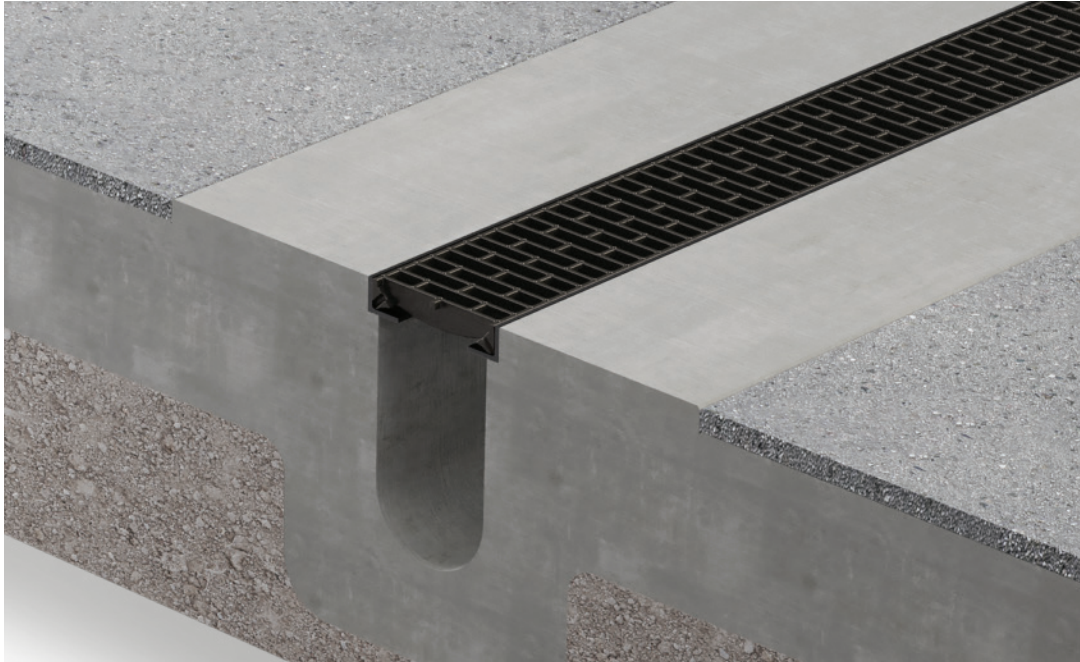


TrenchFormer® XHD™

EXACTING FORMING SYSTEMS FOR PORTS



TRENCHFORMER XHD



TrenchFormer® XHD™

TrenchFormer XHD is more than just an extremely heavy-duty grate. Every component of the XHD system is engineered to handle the exacting requirements found specifically in airports, seaports, and intermodal facilities. Our patented non-rigid pin-lock system is designed for dynamic longitudinal and vertical retention. And, robust frame design and a large bearing area maximizes load transfer and minimizes the risk of concrete shear failure below the frame.

TrenchFormer XHD Features

1. U-Leg – No-float U-legs hold formwork firmly in place allowing for concrete to be placed monolithically.

2. Adjustable Clamp – Allows the formwork to be micro-adjusted once anchoring slab is poured over the bottom of the u-legs.

3. Anchor Studs – Ensure maximum strength for the embedded rails.

4. EPS Former – Expanded Polystyrene former can be cut into any shape with the slope of the trench built in.

5. Deforming Groove – The deforming “V” enables easy deconstruction of the trench and also aids in alignment when interlocked with adjoining former sections.

6. Alignment Slot – Top alignment slot allows for insertion of 2x4 to aid in trench alignment.

7. Cross Ties – Help hold rails tight to the foam former for consistent spacing of grates.

8. Structural Rail – Unlike other manufacturers that use sheet metal for rails, ABT uses only structural steel angle for our rails.



9. Color Coded Labels – Color coded labels allow for easy matching with other system components.

10. Pin Lock Retention System – Provides longitudinal and vertical retention while, eliminating thermal induced stresses that traditionally cause concrete cracking in bold down systems.

11. XHD Grate System – Advanced grate design provides lighter weight and greater inflow with no sacrifice in strength.

The XHD system provides ultimate performance with the lowest cost of ownership.

XHD System Components

200,000+ lbs. Ductile Iron Grates – The XHD’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. XHD Four Point Non-Rigid Pin Lock Retention 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 an average of one pin per grate must be removed for maintenance.

XHD Robust Frame Design – The large load bearing area and increased edge distance combined with the grate bearing location of the XHD System’s frame maximizes load transference and reduces the probability of concrete shear failure below the frame. XHD 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 XHD 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 XHD 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 and other failures. Compared to traditional cast-in-place trenches, the XHD system installs faster and easier.



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