

# HydraShield

## Hydraulic Aluminum Trench Shield

**Advantages:** Efficiency's HydraShield™ is an extremely versatile aluminum trench shield that supports trench walls and structures and adapts to on-the-spot requirements by using hydraulic cylinders for spreaders to accommodate varying trench widths.

- It is easily handled with a rubber-tired backhoe and is ideal for municipal maintenance and repair work, fiber optic and cable installations, side sewer installations, water and gas connections, and any utility installations.
- A multi-valve manifold provides control of all cylinders with only one hose connection from a pump can.
- A retraction spring returns the cylinder to its contracted position for easy removal from the trench.
- Smooth walls prevent dirt build-up and reduce friction when positioning in the trench and extra-strength pulling and lifting lugs make handling the HydraShield™ fast, easy, and safe.
- The walls are constructed of foam-filled 6061-T6 extrusions.
- Optional Enclosed Spreaders cover the cylinders & springs and protect them from damaging accidental impact and dirt build-up.
- Optional telescoping steel spreaders may be substituted in order to use the HydraShield™ in a static mode.
- Stack Pocket sets allow the HydraShield™ to be stacked on top of another HydraShield, an XLAP, or an Efficiency Build-A-Box™ modular aluminum trench shield when used in the static mode.
- Optional End Panels convert the HydraShield™ into a 3 and 4 sided shield.

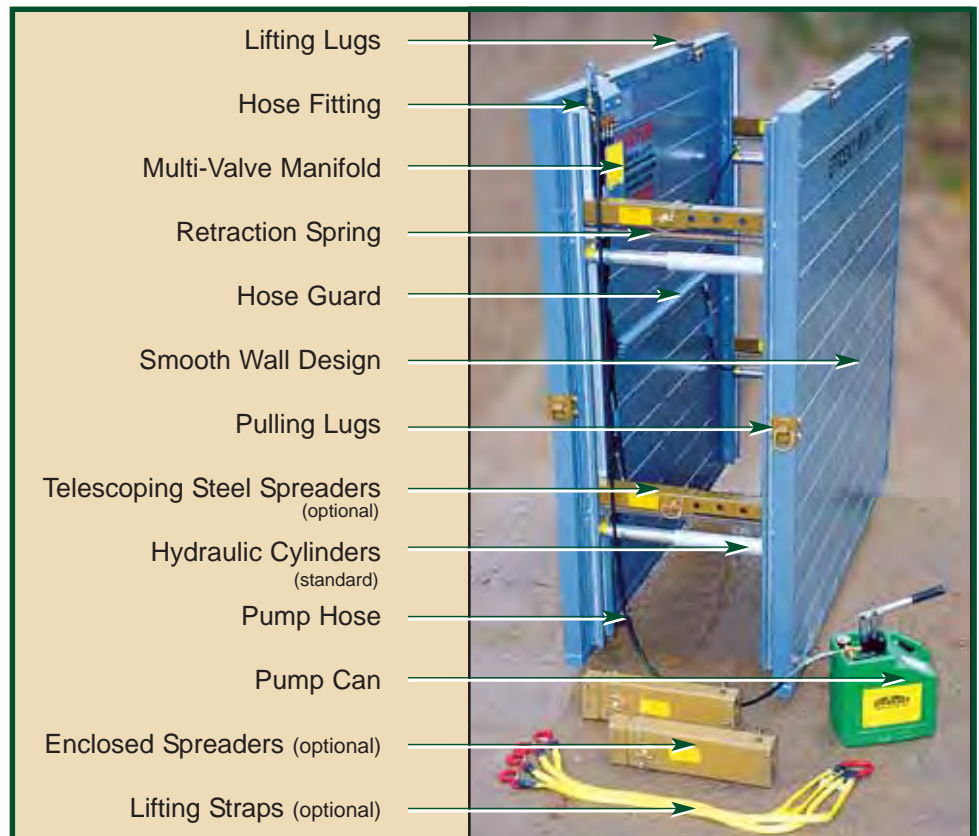
*\*Hydraulic mode offers greater shield capacity than the static mode.*



Carried by rubber-tired backhoe



Pumps to various widths



ph: 800-552-8800  
 ph: 517-676-8800  
 Fx: 517.676.0373  
 www.epi-shields.com  
 685 Hull Rd. Mason, MI. 48854

**PROTECTION, PRODUCTION, PROFITS.**

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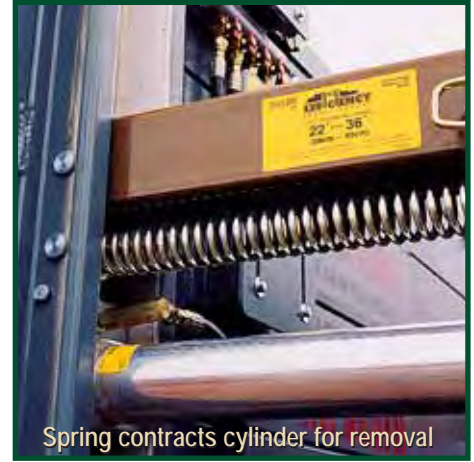
## Hydraulic Aluminum Trench Shield



Pump can hose connection to manifold



Multi-valve manifold



Spring contracts cylinder for removal

HydraShield Sidewalls Hydraulic Aluminum Trench Shield													
Model (Ht x Lg) (ft.)	Weight (lbs.)	Shield Capacity		Depth of Cut (ft.)			Pipe Clearance (in.)	Shield Capacity		Depth of Cut (ft.)			Pipe Clearance (in.)
		Hydraulic Mode (psf)	Static Mode (psf)	A	B	C		Hydraulic Mode (psf)	Static Mode (psf)	A	B	C	
46 HS	520	1,500	1,500	25	25	25	16.25	1,500	1,500	30	30	25	22
48 HS	640	1,500	1,500	25	25	25	16.25	1,500	1,500	30	30	25	22
410 HS	750	1,140	1,140	25	23	19	16.25	1,140	1,140	30	23	19	22
412 HS	870	840	840	25	17	14	16.25	840	840	30	17	14	22
416 HS	1100	480	480	19	10	8	16.25	480	480	19	10	8	22
66 HS	740	1,500	1,500	25	25	25	24	1,500	1,500	30	30	25	31.25
68 HS	900	1,500	1,260	25	25	25	24	1,260	1,260	30	25	21	31.25
610 HS	1070	1,200	1,020	25	25	20	24	1,020	1,020	30	20	17	31.25
612 HS	1240	780	840	25	17	13	24	840	840	30	17	14	31.25
616 HS	1570	480	480	19	10	8	24	480	480	19	10	8	31.25
86 HS	950	1,500	1,500	25	25	25	24	1,500	1,500	30	30	25	31.25
88 HS	1160	1,500	1,260	25	25	25	24	1,260	1,260	30	25	21	31.25
810 HS	1390	1,200	1,020	25	25	20	24	1,020	1,020	30	20	17	31.25
812 HS	1610	900	840	25	18	15	24	840	840	30	17	14	31.25
816 HS	2040	600	480	24	12	10	24	480	480	19	10	8	31.25



Enclosed spreaders protect cylinders

Spreader Sets		
Model (Sets of 4)	Weight (lbs.)	Inside Width (in.)
HS-4-1727	145	17-27
HS-4-2236	180	22-36
HS-4-2846	230	28-46
HS-4-3455	275	34-55
HS-4-4269	337	42-69
HS-4-5288	410	52-88

*Includes: 4 Cylinders, 4 Static Braces, Springs, Pins*

Enclosed Spreader Sets		
Model (Sets of 4)	Weight (lbs.)	Inside Width (in.)
EHS-4-1727	215	17-27
EHS-4-2236	265	22-36
EHS-4-2846	339	28-46
EHS-4-3455	395	34-55
EHS-4-4269	467	42-69
EHS-4-5288	555	52-88

*Includes: 4 Cylinders, 4 Static Braces, Springs, Pins*



foam-filled 6061-T6 extrusions

Excavations open for periods exceeding 24 hours require careful monitoring of changing soil conditions and/or dewatering systems. For instance, if the backfill changes from free draining to a water table at the top of the shield, the lateral pressures may double in magnitude. A change from "wet" to "fully saturated" may increase lateral pressures 30%. Excavations open for a period exceeding 5 days may experience "loss of cohesion" due to changes in moisture content, oxidation, tension cracks, etc. The Competent Person shall be responsible for monitoring, evaluating, reporting, and/or taking action for any adverse soil conditions that may exist as a result of changes to a construction site over time.

Competent Person or Qualified Person must refer to manufacturers tab data for proper spacing and use for site conditions. Improper use can cause injury or death.



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