ALUMINUM TRENCH SHIELDS

TRENCH SHORING COMPANY

TrenchShoring.com

Steel Framed Aluminum Panel Shields (APS)

Trench Shoring Company and Speed Shore® Aluminum Panel Shields (APS) are now available with a rugged steel frame, creating the only true aluminum-wall "drag box" in the industry. Weighing in at approximately half the weight of comparable steel trench shields. Our steel-framed APS is specifically designed for contractors, utilities, plumbers, and municipalities who prefer the use of a rubber-tired backhoe or light excavator, yet desire a durable, high-capacity, lightweight shield to pull along the trench as work progresses.

The Aluminum-Wall "Drag Box" That's Built to Last

- 2-1/2" aluminum double-wall panels for exceptional strength-to-weight ratios and superior corrosion resistance.
- Exclusive welded steel frame offers the strength and durability that allows this APS to be pulled along the trench as work progresses.
- Foam-filled smooth walls prevent accumulation of water, dirt and debris.
- Thru-wall spreader sockets penetrate end vertical supports for added strength.
- Heavy-duty lifting rings provide for rapid four-point lifting of units.

Steel-Framed APS

MODEL	DIM. (FT)		PIPE CLEARANCE (IN)	WEIGHT (LBS)	SHIELD CAPACITY (PSF)	ALLOWABLE DEPTH (FT) BY SOIL TYPE*			
	H	L				A	B	C(60)	C
APS-SF-0410	4	10	22	1380	1165	46	26	20	16
APS-SF-0412	4	12	22	1584	795	31	18	14	11
APS-SF-0610	6	10	36	1720	777	31	19	15	12
APS-SF-0612	6	12	36	1980	648	26	16	13	10
APS-SF-0810	8	10	43	2060	690	29	18	14	12
APS-SF-0812	8	12	43	2374	575	24	15	12	10

*Prior to use, refer to OSHA's 29 CFR, Part 1926 (subpart P) and Manufacturer's Tabulated Data for detailed explanation of soil types and product application. Type A soil not to exceed 25 PSF per foot of depth; Type B soil not to exceed 45 PSF per foot of depth; Type C(60) soil not to exceed 60 PSF per foot of depth; Type C soil not to exceed 80 PSF per foot of depth. (PSF = Pounds per square foot)

AEX Aluminum Framed Trench Shields

The AEX Trench Shields developed by GME are static walled aluminum trench shields designed from aircraft grade aluminum. Our AEX Trench Shields are manufactured from extruded aluminum panels to provide protection for a wide range of depths and projects.

Available in 2AEX (2" Thick wall) and 4AEX (4" Thick wall) models, the AEX series are ideal for rubber tired back hoes and small excavators.

Ideal for Today's Lighter Excavators

- Rugged collar adaptors for 5"x 5" tube steel spreaders
- Lifting eyes
- Optional "no-knife edge" with heavy-duty skid plate
- Standard lengths to 18 feet
- Custom lengths on request
- Certified by a registered professional engineer to meet OSHA standards

AEX Aluminum Frame Trench Shields

MODEL	SIZE			WEIGHT	PIPE	MAXIMUM DEPTH PER SOIL TYPE (FT.)**			
	H	L	W	(LBS)	CLEARANCE	A	B	C-60	C-80
4AEX-410	4'	10'	4"	1150	22"	72	41	31	23
4AEX-610	6'	10'	4"	1710	36"	72	41	31	23
4AEX-810	8'	10'	4"	2200	48"	55	31	24	18
4AEX-412	4'	12'	4"	1450	22"	49	28	21	16
4AEX-612	6'	12'	4"	2100	36"	49	28	21	16
4AEX-812	8'	12'	4"	2650	48"	45	26	20	15
4AEX-416	4'	16'	4"	1750	22"	30	17	14	11
4AEX-616	6'	16'	4"	2450	36"	26	15	12	9
4AEX-816	8'	16'	4"	3200	48"	26	15	12	9
4AEX-418	4'	18'	4"	2300	22"	21	13	10	8
4AEX-618	6'	18'	4"	2860	36"	22	14	11	9
4AEX-818	8'	18'	4"	3450	48"	23	15	12	10

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Modular Aluminum Panel Trench Shields (MAPS)

Modular Aluminum Panel Shields (MAPS) trench shield system is engineered for high strength, ultra-low weight, and ease of handling. Modular panels, end-members, and adjustable spreaders are light enough for transport by pickup, and can be quickly configured for 2, 3 or 4-sided applications. A two-man crew can readily assemble the system by hand for rapid placement in the trench by a rubber-tired backhoe.

- Aluminum Alloy Construction for extremely high strength-to-weight ratios and superior corrosion resistance.
- Narrow Double-Wall Panels minimize excavation width while maximizing interior work space.
- Adjustable Spreaders allow for rapid field modification of shield width.
- Lightweight Modular Components afford easy handling and options of 2, 3, or 4-sided shield configurations.
- Dual-Purpose End Members connect both panels and spreaders in multiple configurations.
- Foam-Filled Smooth Walls prevent accumulation of water, dirt and debris.

Modular Aluminum Panels

MODEL	DIM. (FT)		WEIGHT (LBS)	SHIELD CAPACITY (PSF)	ALLOWABLE DEPTH (FT) BY SOIL TYPE**			
	H	L			A	B	C(60)	C
MAPS-0203	2	3	37	12000	50	50	50	50
MAPS-0204	2	4	51	6400	50	50	50	50
MAPS-0205	2	5	62	4500	50	50	50	50
MAPS-0206	2	6	79	2700	50	50	45	34
MAPS-0208	2	8	106	1500	50	33	25	19
MAPS-0210	2	10	134	960	36	21	16	12
MAPS-0212	2	12	162	660	24	14	11	8
MAPS-0214	2	14	180	570	21	12	9	7

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Adjustable Spreaders* (Telescoping)

MODEL	OPPERATING RANGE (IN)	WEIGHT (LBS)
MAPS-SPR-036	27 - 36	38
MAPS-SPR-048	35 - 48	50
MAPS-SPR-060	40 - 60	56
MAPS-SPR-084	52 - 84	74
MAPS-SPR-096	60 - 96	91

*Four pins and keepers are included with each spreader.

Adjustable Spreaders* (Screw Jack)

MODEL	OPPERATING RANGE (IN)	WEIGHT (LBS)
MAPS-SJ-042	30 - 42	25
MAPS-SJ-060	36 - 60	29
MAPS-SJ-084	60 - 84	43
MAPS-SJ-108	84 - 108	59

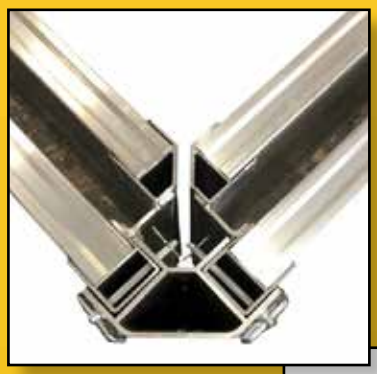
*Four pins and keepers are included with each spreader.

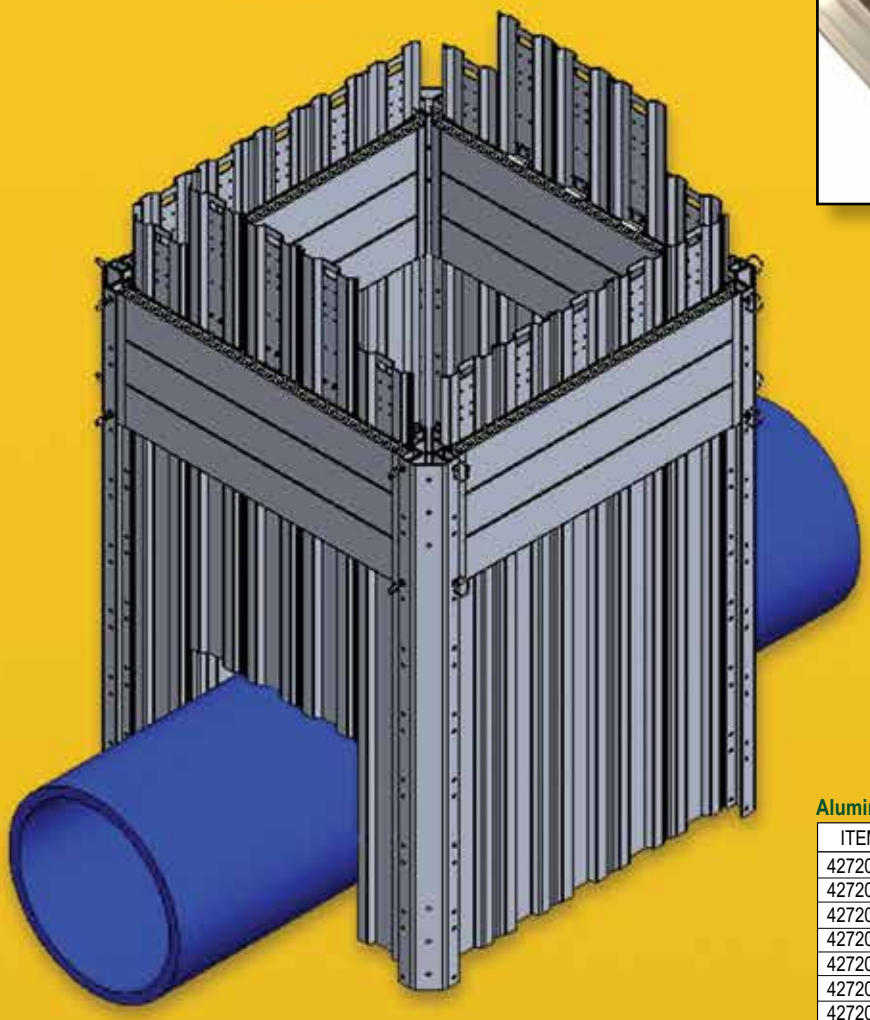
End Members

MODEL	LENGTH (FT)	WEIGHT (LBS)
MAPS-E-02	2	14
MAPS-E-04	4	28
MAPS-E-06	6	42
MAPS-E-08	8	56
MAPS-E-10	10	70

Modular Aluminum Panel (MAPS) Sheeting Guide System

The Modular Aluminum Panel Sheeting Guide (MAPS) is an aluminum sheet pile guide system that fits in place of one of the modular aluminum panels. This allows a line of sheet piles to be placed up to and over obstructions such as cross trench lines. The guide frame may be used at one or multiple wall lines. The sheeting can be installed by hand and may be skipped or overlapped provided there is no sloughing or raveling through the cracks.





Aluminum Corrugated Sheeting

ITEM NO.	DESCRIPTION
4272000004	ALUMINUM SHEETING 4’
4272000005	ALUMINUM SHEETING 5’
4272000006	ALUMINUM SHEETING 6’
4272000007	ALUMINUM SHEETING 7’
4272000008	ALUMINUM SHEETING 8’
42720000010	ALUMINUM SHEETING 10’
42720000012	ALUMINUM SHEETING 12’

Panels

ITEM NO.	DESCRIPTION	MAX # OF SHEETS
4210000306	MAPS 2’ x 6’ SHEETING GUIDE PANEL	6
4210000306	MAPS 2’ x 8’ SHEETING GUIDE PANEL	7
4210000306	MAPS 2’ x 10’ SHEETING GUIDE PANEL	9

Aluminum Hydraulic Shields & End Shores

The Rugged, Lightweight Shoring Solution

Speed Shore's® innovative, patented Shoring Shields* combine the benefits of aluminum hydraulic shoring with the solid-wall security of a static shield. Constructed of high-strength aluminum alloys, Shoring Shields are ideal for municipal maintenance and repair, cable splices, pipeline bellholes, vault placements, trenchless technology pits and light utility installations. The solid-sheeted exterior provides for optimum personnel protection while their lightweight design insures ease of handling with a rubber-tired backhoe.

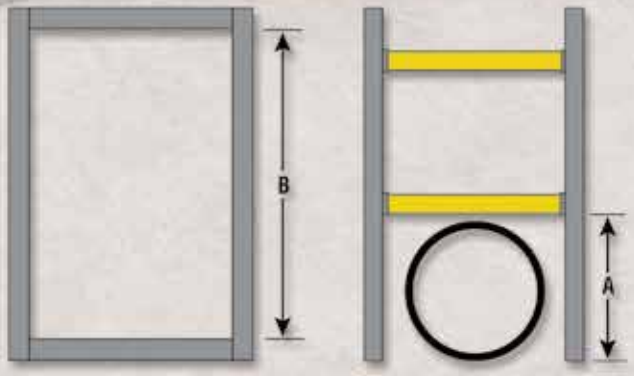
- 100% above-ground installation allows complete installation and removal safely from outside the trench.
- High-yield aluminum alloy construction for exceptional strength and lightweight portability.
- Patented hydraulic manifold assures precise control of all cylinders.
- Heavy-gauge sheeting caps and skids for protection of sheeting sidewalls.
- Certification plate on all shields denotes P.E. Certified capacity and operating guidelines.
- Available in either a lightweight corrugated sheeting or the exclusive smooth-wall aluminum panel exterior.

Exclusive Hydraulic Manifold

An exclusive patented hydraulic manifold** allows precise control of each hydraulic cylinder within the Speed Strut from a convenient topside location, which guarantees the safety of the operator until the Shoring Shield has securely shored the trench. The patented protection plate guards the valves and fitting from damage during installation and removal. And the central located supply and bleed valves facilitate rapid installation and removal of the Shoring Shield from the trench, also allowing complete fluid recovery.

Pipe Clearance

Top View **Side View**



Aluminum Hydraulic Shields

MODEL	DIM. (FT)		PIPE CLEARANCE A (IN) B		WEIGHT (LBS)	SHIELD CAPACITY (PSF)	ALLOWABLE DEPTH (FT) BY SOIL TYPE***			
	H	L					A	B	C(60)	C
SS-0608-H	6	8	22	81	1238	1700	25	25	25	16
SS-0610-H	6	10	22	105	1534	1400	25	25	25	16
SS-0612-H	6	12	22	129	1702	1100	25	25	21	12
SS-0808-H	8	8	22	81	1374	1400	25	25	25	16
SS-0810-H	8	10	22	105	1686	1100	25	25	21	15
SS-0812-H	8	12	22	129	1913	900	25	23	17	9

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*U.S. Patent 5096334 ** U.S. Patent 5209606

Aluminum End Panels

End Shore with Panel

End Shore

Aluminum End Panels

Pre-engineered “end-panels” may be quickly attached to any Shoring Shield for 3 or 4-sided shielding.

End panel brackets simply slide over the end of each wale and are secured by the same quick-connect pins as the Speed Struts®. End panel sizes correspond directly with each Speed Strut size, so that the sheeting guides telescope over the full operating width of the Shoring Shield.

The sheeting guides may be adjusted at the bottom wales to either: (1) prevent the sheeting from passing beyond the bottom wall for pipe clearance, or (2) allow the sheeting to extend to the bottom of the trench for full end closure.

End Shore

End Shores come with innovative Speed Struts and are available with optional End Shore Panels. End Shore Panels are also available separately for use with your current inventory of Speed Struts.

End Shore*
Rail Lengths: 2’ – 1 Ram / 5’, 6’ 7’ 8’ – 2 Ram

MODEL NO.	TRENCH WIDTH MIN – MAX	MODEL NO.	TRENCH WIDTH MIN – MAX
2640	2’ 5” – 3’ 7”	73109	6’ 4” – 9’ 4”
3250	2’ 11” – 4’ 5”	79115	6’ 10” – 9’ 10”
3859	3’ 5” – 5’ 2”	94130	8’ 1” – 11’ 1”
4468	3’ 11” – 5’ 11”	108144	9’ 3” – 12’ 0”
5692	4’ 11” – 7’ 11”		

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Speed Struts®

Shoring Shields feature the exclusive Speed Struts, which incorporate hydraulic cylinders and return springs within rugged telescoping steel sleeves. They allow for 3 and 4-sided trench support, while providing increased protection to critical components. Quick-connect pins and hydraulic fittings permit rapid assembly/disassembly, and changeover to larger or smaller Speed Struts. Speed Struts allow for end-loading capability while providing critical protection for the hydraulic cylinder and spring enclosed within.

Speed Struts

MODEL	STROKE	CYLINDER RANGE	WEIGHT
SS-100-40	14”	26”– 40”	62 LBS
SS-100-50	18”	32”– 50”	76 LBS
SS-100-59	21”	38”– 59”	95 LBS
SS-100-68	24”	44”– 68”	115 LBS
SS-100-92	36”	56”– 92”	137 LBS
SS-100-112	36”	73”– 109”	162 LBS
SS-100-130	36”	94”– 130”	182 LBS
SS-100-144	36”	108”– 144”	192 LBS

Your toughest jobs demand experienced professionals, backed by the largest inventory. Trench Shoring Company will be there to service your most challenging job requirements.

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