



## **Optimum Versatility Aluminum Shields**

**Steel Framed Aluminum Trench Shields**



**AEX Aluminum Framed Trench Shields**



**Modular Aluminum Panel Trench Shields/MAPS**



**Ultra Shore™ Aluminum Trench Shields**



**Aluminum Hydraulic Trench Shields & End Shores**



**"Commitment To Safety & Service"  
Since 1973**



## Steel Framed Aluminum Trench Shields

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-0406	4	6	24	970	1190	45	26	20	16
APS-SF-0408	4	8	24	1176	890	34	20	15	12
APS-SF-0410	4	10	24	1380	710	27	16	12	10
APS-SF-0412	4	12	24	1584	590	22	13	10	8
APS-SF-0414	4	14	24	1790	510	19	11	9	7
APS-SF-0416	4	16	24	1994	477	17	10	8	6
APS-SF-0606	6	6	36	1202	1190	47	27	21	17
APS-SF-0608	6	8	36	1460	890	35	21	16	13
APS-SF-0610	6	10	36	1720	710	28	17	13	11
APS-SF-0612	6	12	36	1980	590	23	14	11	9
APS-SF-0614	6	14	36	2240	510	20	12	10	8
APS-SF-0616	6	16	36	2498	477	18	11	9	7
APS-SF-0806	8	6	43	1432	1190	48	28	22	18
APS-SF-0808	8	8	43	1746	890	36	22	17	14
APS-SF-0810	8	10	43	2060	710	29	18	14	12
APS-SF-0812	8	12	43	2374	590	24	15	12	10
APS-SF-0814	8	14	43	2690	510	21	13	11	9
APS-SF-0816	8	16	43	3004	477	19	12	10	8

\*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 (LBS)	PIPE CLEARANCE	MAXIMUM DEPTH PER SOIL TYPE (FT.)**				
	H	L	W			A	B	C-60	C-80	
*2AEX-48	4'	8'	2"	650	18"	37	21	17	12	
*2AEX-68	6'	8'	2"	920	30"	37	21	17	12	
*2AEX-88	8'	8'	2"	1200	36"	34	20	15	11	
<i>*2AEX Model Shields Require The Use of Lite Shield Screw Struts</i>										
4AEX-88	8'	8'	4"	1736	48"	69	39	30	23	
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	

\*\*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.

## 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	13	10	8

\*\*Prior to use, refer to OSHA's 29 CFR, Part 1926 (subpart F) 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.

### Adjustable Spreaders\* (Telescoping)

MODEL	OPERATING 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	OPERATING 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





## Ultra Shore™ Light Weight Aluminum Trench Shields

Ultra Shore is the trench shield that's light, easy to use, and a real workhorse. Ultra Shore panels are made of specially corrugated aluminum that gives protection in trenches up to 12 feet deep but weighs hundreds of pounds less than other shoring products.

- All panels can be used horizontally or vertically.
- All panels are stackable.
- Use as parallel shield panels or in “vee” or “wedge” configuration.
- Close off one or both ends with quick-release, spring-loaded end closure panels.
- One person can lower a single pair of assembled panels into an excavation.
- Two people can lower a stacked assembly of two panels into an excavation.
- Transport in the smallest pickup truck.
- Bury depth to 12 feet, even in Class “C” soils



### Ultra Shore

MODEL	SIZE			WEIGHT PAIR (LBS)	PSF RATING	BURY DEPTH (FT)*
	H	L	W			
S24-60	24"	60"	2"	74	1600	12
S24-84	24"	84"	2"	96	1600	12
S48-60	48"	60"	2"	130	1100	12
S48-84	48"	84"	2"	160	950	12
S48-120	48"	120"	2"	260	865	12
S48-144	48"	144"	2"	300	620	12

NOTE: The Ultra Shield standard panels are not meant for severe duty applications (not to exceed 75 psf) without factory modifications.

\*Soil classification in compliance with OSHA rules and regulations Part 1926 Subpart P Excavations in effect March 5, 1990. Models and specifications may change without notice.

### Spreader Options

STANDARD SPREADERS			
20"	3 LBS	48"	7 LBS
24"	3 LBS	54"	8 LBS
30"	4.5 LBS	60"	8.5 LBS
36"	5 LBS	72"	9 LBS
42"	6.5 LBS		
Custom Cut in 6" Increments, Up to 12'			

# 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

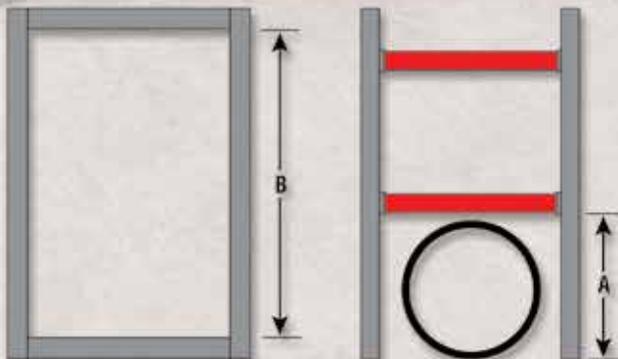
An exclusive patented hydraulic manifold\*\* allows precise control of each hydraulic cylinder within the Speed Strut from a convenient topside location, which guarantees the safety of the operator until the Shoring Shield has securely shored the trench. The patented protection plate guards the valves 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		WEIGHT (LBS)	SHIELD CAPACITY (PSF)	ALLOWABLE DEPTH (FT) BY SOIL TYPE***			
	H	L	A (IN)	B			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

\*\*\*Prior to use, refer to OSHA's 29 CFR, Part 1926 (subpart P) and Speed Shore'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)

\*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

Speed Shore’s 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

MODEL	DIM. (FT)		PIPE CLEARANCE (INCHES) A	WEIGHT (LBS)	ALLOWABLE DEPTH (FT) BY SOIL TYPE* UP TO 7'-7" WIDE				ALLOWABLE DEPTH (FT) BY SOIL TYPE* 7'-7" to 10'-10" WIDE			
	H	L			A	B	C(60)	C	A	B	C(60)	C
5x1-H-ES	5	1	22	466	25	25	21	16	20	20	12	8
6x1-H-ES	6	1	22	472	25	25	21	16	20	20	12	8
7x1-H-ES	7	1	22	479	25	25	21	16	20	20	12	8
8x1-H-ES	8	1	22	486	25	25	21	16	20	20	12	8

\*Prior to use, refer to OSHA's 29 CFR, Part 1926 (subpart P) and Speed Shore'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)

## 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-100-130	42"	88" – 130"	194 LBS

# The People. The Equipment. The Pride.

Trench Shoring Company was founded and built with a Commitment to Safety & Service. Work with Trench Shoring Company and you will experience it.

You will discover: a complete fleet of contemporary equipment; the industry's finest staff of job-experienced professionals; and the kind of pride that can come only from doing things right – right from the start.

## Take it from the Top

Trench Shoring Company provides the construction industry with the finest in shoring equipment and service starting with consultation before you begin excavation. Whether it's a small utility trench or a 10-mile sewer line, Trench Shoring Company has in stock, or will custom design, the required equipment to help you get the job done—quickly and efficiently. Trench Shoring Company's own Flex-Shield™ trench boxes, unique Z-Shore™ and Slide Rail systems, plus a variety of shoring materials and related supplies, all are available for rental or purchase.

## There's Safety in Numbers

Trench Shoring Company has the largest inventory of shoring equipment in the area, all tested for dependability and built to meet or exceed CAL-O.S.H.A. requirements. Combine that with our full-time service department and you're assured the least possible down time on the job.

## Are You Draining Away Man-Hours?

Trench Shoring Company offers same day service to Southern California, Bakersfield/Fresno, Central Coast and the Las Vegas area, saving you time and money on the job. Our radio-dispatched boom trucks deliver your equipment to the job site. Our operators do all the loading and unloading, as well as set-up, so you don't have to tie up workers or machinery.

## NUCA Competent Person Training

Trench Shoring Company provides competent person training seminars. The seminars cover CAL-O.S.H.A. Title 8, section 1540 through 1541.1 requirements pertaining to excavations, trenching and sloping techniques, productive systems and soils classification with an introduction to confined space safety.

## NUCA Confined Space Entry Training

This program, "Confined Space Entry" is intended to provide managers, foremen, competent persons, and workers with basic information regarding entry into confined spaces. It's purpose is intended to create an awareness of the hazards associated with confined space entry, to help workers understand the procedures that must be followed when entering confined spaces, and to provide managers with basic information necessary to establish a confined space entry program.



"Commitment To Safety & Service"  
Since 1973

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