

# Shoring Shields®

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.

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.

An exclusive patented hydraulic manifold\*\* enables control of all cylinders from a single point outside the excavation, permitting precise regulation of cylinder pre-load in irregular, non-uniform excavations.

Shoring Shields are available in either a lightweight corrugated sheeting or the exclusive smooth-wall aluminum panel exterior.



## The Rugged, Lightweight Shoring Solution

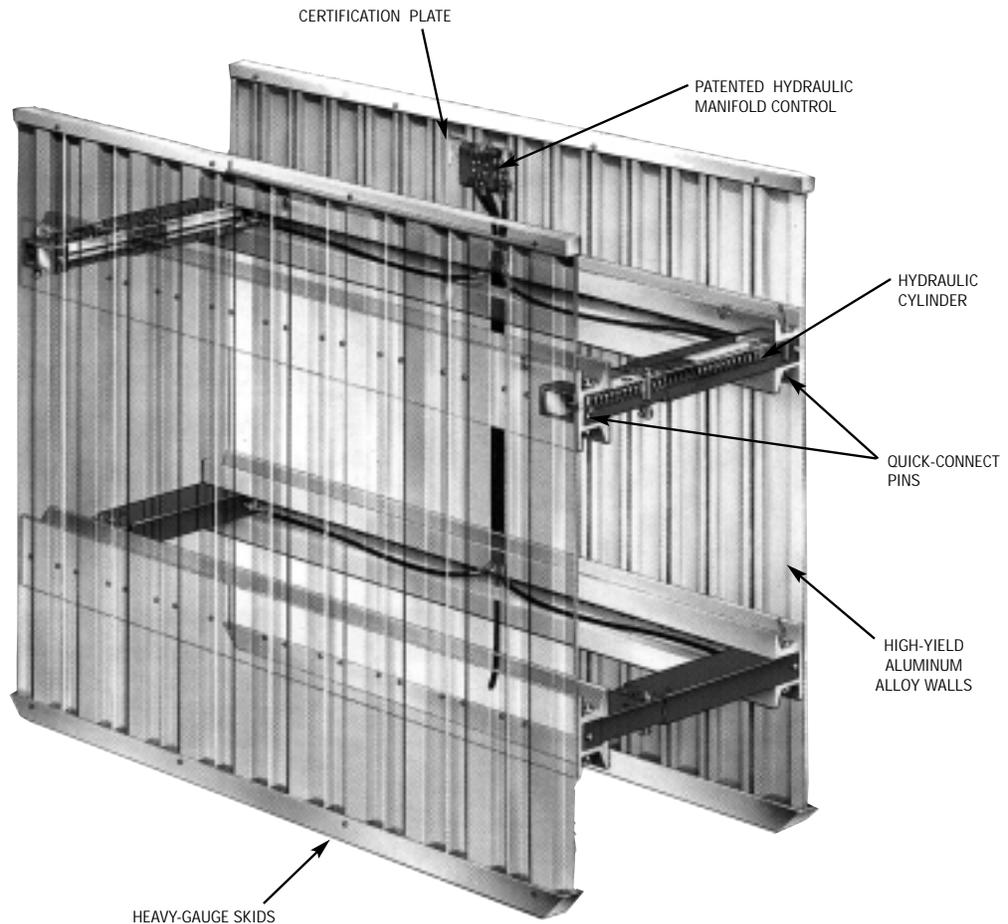
- **100% above-ground installation**  
allows complete installation and removal safely from outside the trench.
- **High-yield aluminum alloy construction**  
for exceptional strength and lightweight portability.
- **Patented hydraulic manifold**  
assures precise control of all cylinders.
- **Heavy-gauge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

\* U.S. Patent 5096334

\*\* U.S. Patent 5209606

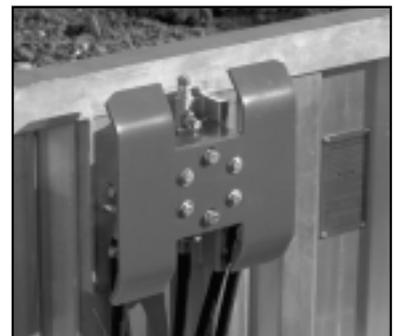
**SPEED**  **SHORE**®  
PIONEERING TRENCH SAFETY

# S tandard Shoring Shields



## Exclusive Hydraulic Manifold

The 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.



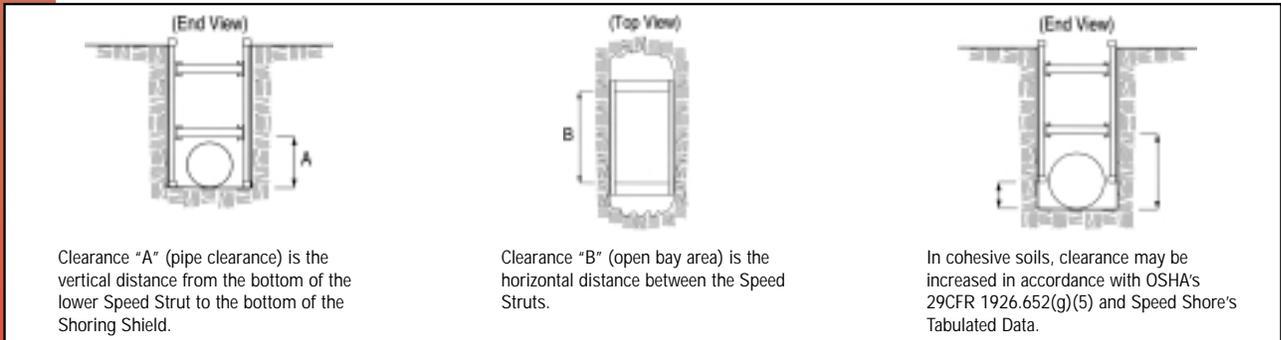
# Standard Shoring Shields



MODEL	DIMENSIONS		PIPE CLEARANCE		OPERATING RANGE (In.)	WEIGHT (Lbs.)	SHIELD CAPACITY (Psf)	ALLOWABLE DEPTH (Ft.) by soil type *			
	H (Ft.)	L	A (Ft.)	B				A	B	C(60)	C
SS-0505-40H	5	5	22	45	29 - 43	668	3000	25	25	25	16
SS-0505-50H	5	5	22	45	35 - 53	724	3000	25	25	25	16
SS-0505-59H	5	5	22	45	41 - 62	799	3000	25	25	25	16
SS-0505-68H	5	5	22	45	47 - 71	881	3000	25	25	25	16
SS-0505-92H	5	5	22	45	59 - 95	968	3000	25	25	25	16
SS-0606-40H	6	6	22	57	29 - 43	789	3000	25	25	25	16
SS-0606-50H	6	6	22	57	35 - 53	845	3000	25	25	25	16
SS-0606-59H	6	6	22	57	41 - 62	920	3000	25	25	25	16
SS-0606-68H	6	6	22	57	47 - 71	1001	3000	25	25	25	16
SS-0606-92H	6	6	22	57	59 - 95	1088	3000	25	25	25	16
SS-0608-40H	6	8	22	81	29 - 43	938	3000	25	25	25	16
SS-0608-50H	6	8	22	81	35 - 53	994	3000	25	25	25	16
SS-0608-59H	6	8	22	81	41 - 62	1070	3000	25	25	25	16
SS-0608-68H	6	8	22	81	47 - 71	1150	3000	25	25	25	16
SS-0608-92H	6	8	22	81	59 - 95	1238	3000	25	25	25	16
SS-0610-40H	6	10	22	105	29 - 43	1225	3000	25	25	25	16
SS-0610-50H	6	10	22	105	35 - 53	1281	3000	25	25	25	16
SS-0610-59H	6	10	22	105	41 - 62	1357	3000	25	25	25	16
SS-0610-68H	6	10	22	105	47 - 71	1437	3000	25	25	25	16
SS-0610-92H	6	10	22	105	59 - 95	1534	3000	25	25	25	16
SS-0612-40H	6	12	22	129	29 - 43	1402	3000	25	25	25	12
SS-0612-50H	6	12	22	129	35 - 53	1458	3000	25	25	25	12
SS-0612-59H	6	12	22	129	41 - 62	1534	3000	25	25	25	12
SS-0612-68H	6	12	22	129	47 - 71	1641	3000	25	25	25	12
SS-0612-92H	6	12	22	129	59 - 95	1702	3000	25	25	25	12
SS-0808-40H	8	8	22	81	29 - 43	1074	3000	25	25	25	16
SS-0808-50H	8	8	22	81	35 - 53	1129	3000	25	25	25	16
SS-0808-59H	8	8	22	81	41 - 62	1250	3000	25	25	25	16
SS-0808-68H	8	8	22	81	47 - 71	1285	3000	25	25	25	16
SS-0808-92H	8	8	22	81	59 - 95	1374	3000	25	25	25	16
SS-0810-40H	8	10	22	105	29 - 43	1386	1100	25	25	25	15
SS-0810-50H	8	10	22	105	35 - 53	1442	1100	25	25	25	15
SS-0810-59H	8	10	22	105	41 - 62	1518	1100	25	25	25	15
SS-0810-68H	8	10	22	105	47 - 71	1598	1100	25	25	25	15
SS-0810-92H	8	10	22	105	59 - 95	1686	1100	25	25	25	15
SS-0812-40H	8	12	22	129	29 - 43	1589	900	25	23	17	14
SS-0812-50H	8	12	22	129	35 - 53	1668	900	25	23	17	14
SS-0812-59H	8	12	22	129	41 - 62	1724	900	25	23	17	14
SS-0812-68H	8	12	22	129	47 - 71	1820	900	25	23	17	14
SS-0812-92H	8	12	22	129	59 - 95	1913	900	25	23	17	14

\*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.

Note: The models above represent our standard product offering. For other sizes, end panels, replaceable cut-outs or custom applications, contact Speed Shore or your local authorized Speed Shore distributor.



# Smooth Wall Shoring Shields



MODEL	DIMENSIONS		PIPE CLEARANCE		OPERATING RANGE (In.)	WEIGHT (Lbs.)	SHIELD CAPACITY (Psf)	ALLOWABLE DEPTH (Ft.) by soil type *			
	H (Ft.)	L	A (Ft.)	B				A	B	C(60)	C
SS-0505-40HS	5	5	22	39	31-45	766	3000	25	25	25	16
SS-0505-50HS	5	5	22	39	37-55	822	3000	25	25	25	16
SS-0505-59HS	5	5	22	39	43-64	898	3000	25	25	25	16
SS-0505-68HS	5	5	22	39	49-73	978	3000	25	25	25	16
SS-0505-92HS	5	5	22	39	61-97	1065	3000	25	25	25	16
SS-0606-40HS	6	6	32	51	31-45	936	2200	25	25	25	16
SS-0606-50HS	6	6	32	51	37-55	992	2200	25	25	25	16
SS-0606-59HS	6	6	32	51	43-64	1068	2200	25	25	25	16
SS-0606-68HS	6	6	32	51	49-73	1148	2200	25	25	25	16
SS-0606-92HS	6	6	32	51	61-97	1236	2200	25	25	25	16
SS-0608-40HS	6	8	32	75	31-45	1152	1660	25	25	25	16
SS-0608-50HS	6	8	32	75	37-55	1208	1660	25	25	25	16
SS-0608-59HS	6	8	32	75	43-64	1284	1660	25	25	25	16
SS-0608-68HS	6	8	32	75	49-73	1364	1660	25	25	25	16
SS-0608-92HS	6	8	32	75	61-97	1452	1660	25	25	25	16
SS-0610-40HS	6	10	32	99	31-45	1366	1330	25	25	25	16
SS-0610-50HS	6	10	32	99	37-55	1422	1330	25	25	25	16
SS-0610-59HS	6	10	32	99	43-64	1498	1330	25	25	25	16
SS-0610-68HS	6	10	32	99	49-73	1578	1330	25	25	25	16
SS-0610-92HS	6	10	32	99	61-97	1666	1330	25	25	25	16
SS-0612-40HS	6	12	32	123	31-45	1582	1106	25	25	21	16
SS-0612-50HS	6	12	32	123	37-55	1638	1106	25	25	21	16
SS-0612-59HS	6	12	32	123	43-64	1714	1106	25	25	21	16
SS-0612-68HS	6	12	32	123	49-73	1794	1106	25	25	21	16
SS-0612-92HS	6	12	32	123	61-97	1882	1106	25	25	21	16
SS-0808-40HS	8	8	47	75	31-45	1346	1250	25	25	25	16
SS-0808-50HS	8	8	47	75	37-55	1402	1250	25	25	25	16
SS-0808-59HS	8	8	47	75	43-64	1478	1250	25	25	25	16
SS-0808-68HS	8	8	47	75	49-73	1558	1250	25	25	25	16
SS-0808-92HS	8	8	47	75	61-97	1646	1250	25	25	25	16
SS-0810-40HS	8	10	47	99	31-45	1606	1000	25	19	21	16
SS-0810-50HS	8	10	47	99	37-55	1672	1000	25	19	21	16
SS-0810-59HS	8	10	47	99	43-64	1738	1000	25	19	21	16
SS-0810-68HS	8	10	47	99	49-73	1818	1000	25	19	21	16
SS-0810-92HS	8	10	47	99	61-97	1906	1000	25	19	21	16
SS-0812-40HS	8	12	47	123	31-45	1868	820	25	25	17	13
SS-0812-50HS	8	12	47	123	37-55	1924	820	25	25	17	13
SS-0812-59HS	8	12	47	123	43-64	2000	820	25	25	17	13
SS-0812-68HS	8	12	47	123	49-73	2080	820	25	25	17	13
SS-0812-92HS	8	12	47	123	61-97	2168	820	25	25	17	13

\*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.

Note: The models above represent our standard product offering. For other sizes, end panels, replaceable cut-outs or custom applications, contact Speed Shore or your local authorized Speed Shore distributor.

## Quick-connect pins

The Quick-connect pins allow rapid assembly and disassembly of the Shoring Shield and Speed Strut® components. No special tools or additional hardware is needed, making the Speed Shore Shoring Shield one of the most transportable and versatile Trench Shoring Systems in the world.



Speed Shore's Shoring Shields can be assembled and disassembled in a matter of minutes, with no special tools required. The quick-connect pins and hydraulic fittings allow for rapid changeover of Speed Struts (for varying trench widths) and the swift addition of end panels.



Place sidewalls, Speed Struts and connecting pins on relatively flat ground. The sidewall with manifold should be on the bottom.



Position Speed Struts into sidewall wales. Slide the quick-connect pins into place.



Attach hydraulic quick-connects to each Speed Strut. Lift top sidewall into position. Note: Machine assistance may be required on larger models.



Lightweight aluminum construction allows for transport in light-duty trucks. Systems may be transported fully assembled, or in "component form" when space is limited.

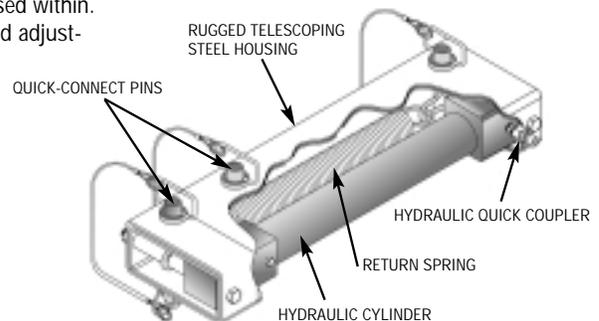


Unique end-loading capability allows for 3 and 4-sided protection.

## Speed Struts®

A cut-away of Speed Shore's innovative Speed Strut® reveals the hydraulic cylinder and return-spring enclosure within the rugged telescoping steel sleeves. Speed Struts® allow for end-loading capability while providing critical protection for the hydraulic cylinder and spring enclosed within. Quick-connect pins allow for rapid assembly, disassembly and adjustment of Speed Struts.

MODEL	STROKE (In.)	CYLINDER RANGE (In.)	WEIGHT (Lbs.)
SS-100-40	14	26 - 40	62
SS-100-50	18	32 - 50	76
SS-100-59	21	38 - 59	95
SS-100-68	24	44 - 68	115
SS-100-92	36	56 - 92	137



# Options & Accessories



**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.



**Replaceable Cut-Outs:** Shoring Shield "replaceable cut-outs" are a popular option which allow the user to straddle crossing utilities or make lateral connections while working safely within the system. They are particularly useful when making line taps, tie-ins, and spot repairs.

The cut-outs are secured to the shield by simple bolted connections and may be readily removed or replaced in minutes. All replaceable cut-outs are built-to-order, allowing flexibility in position and size of the opening; however, most cut-outs are centered at the bottom of one sidewall and are generally restricted to a 20" high x 24" wide opening (depending on the shield size). Permanent cut-outs, with no replaceable panels, are also available upon request.

## Pumps & Tools



HP-100



HVP-2000



HP-200



RELEASE TOOL

Shoring Shields are rapidly installed (pressurized) with three specially designed shoring pumps. The economical HP-100 has a 5-gallon fluid reservoir, and is light enough to hand carry. The HPV-2000 has a 7.5 gallon fluid reservoir in a rugged rust-resistant polyurethane housing and features a high volume pump mechanism. The battery-powered HP-200 has a 12-gallon reservoir and is wheel-mounted for ease of transport along the trench. All pumps have easy-to-read pressure gauges and convenient control valves. The water-based Summer and Winter-grade Shoring Fluids are environmentally safe, cost-effective, and cover a full range of operating temperatures.

Specially designed Shoring Tools make for easy installation and removal of shores. They are available in 30", 48", and 96" lengths.

### *Pioneer of the World's Most Advanced Trench Safety Systems*



Shoring Shields\*

Vertical Shores

Water Systems

Excavation Braces

Modular Alum. Panel Systems

Alum. Trench Shields

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