

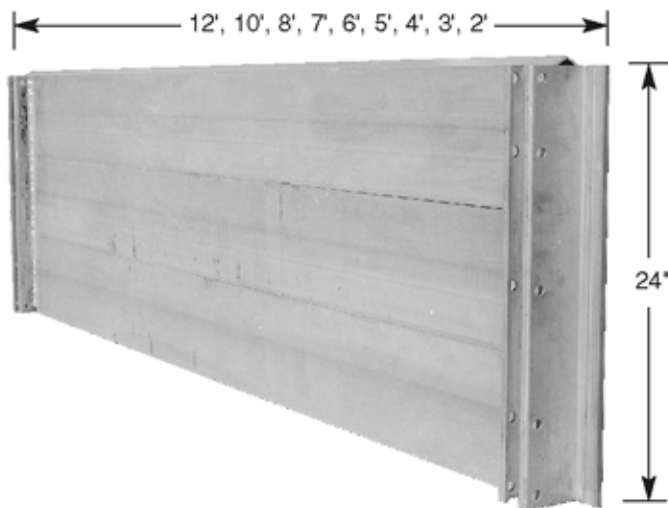
GME® LITE-SHIELD™ 24

GME LITE-SHIELD™ 24

The Lite-Shield™ 24 Series offers you a wide choice of panel lengths, from 2 to 12 feet. The lightweight 24-inch panels can be transported easily, even in a pick-up. The system assembles in just minutes at the jobsite. Tongue-in-groove panels are easily aligned, and mechanical screw-jack struts provide fast, variable adjustment. For maximum versatility, the system can be used as a 2, 3, or 4 sided configuration.

FEATURES

- Strong yet lightweight 6061-T6 aluminum construction
- 2-inch wall thickness
- Foam filling available as an option
- Certified by a professional engineer to meet OSHA standards
- Made in U.S.A.



LITE-SHIELD™ 24 PANELS

Lite-Shield 24" Panels	Dimensions (L x H x W)	Weight
24LSP- 12	144" x 24" x 2"	155 lb.
24LSP- 10	120" x 24" x 2"	140 lb.
24LSP- 8	96" x 24" x 2"	114 lb.
24LSP- 7	84" x 24" x 2"	96 lb.
24LSP-6	72" x 24" x 2"	86 lb.
24LSP-5	60" x 24" x 2"	75 lb.
24LSP-4	48" x 24" x 2"	63 lb.
24LSP-3	36" x 24" x 2"	45 lb.
24LSP-2	24" x 24" x 2"	31 lb.

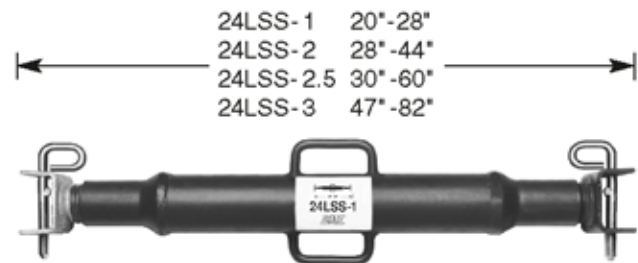
Shielding System Capacity Depth Chart

LITE SHIELD MAXIMUM DEPTH TABLE (1.1)				
MODEL NUMBER	SOIL TYPE			
	A	B	C-60	C-80
24LSP-3	50ft	50ft	40ft	30ft
24LSP-4	50ft	50ft	40ft	30ft
24LSP-5	50ft	50ft	40ft	30ft
24LSP-6	50ft	34ft	31ft	22ft
24LSP-8	50ft	32ft	24ft	18ft
24LSP-10	33ft	20ft	14ft	11ft
24LSP-12	23ft	13ft	10ft	7ft

MAXIMUM VERTICAL PIPE CLEARANCE = 24 INCHES

ADVANTAGES FOR BETTER PERFORMANCE IN THE FIELD:

- Unique keyed locking pin requires no keepers – so it's faster and easier to use, with fewer parts to lose.
- The screw jack strut features a shallow square thread design and is coated with a special rust inhibitor which wipes clean with a rag, for smoother performance. Most competitive screw jack struts have deep V-grooves that are difficult to clean.



Strut is shown with keyed locking pin, which is for use with 24" system.

LITE-SHIELD™ 24 STRUTS

Adjustment Range (Inside Panel Dimension)			
Part No.	Weight	With Connector	W/O Connector
24LSS-1	12 lbs.	24 - 32 inches	20 - 28 inches
24LSS-2	16 lbs.	32 - 48 inches	28 - 44 inches
24LSS-2.5	21 lbs.	40 - 64 inches	30 - 60 inches
24LSS-3	25 lbs.	51 - 86 inches	47 - 82 inches

LITE-SHIELD™ OPTIONS

PULLBAR



The Pullbar option is intended to aid the backhoe operator in the positioning of the Lite-Shield™ modular aluminum trench shields. The struts on modular type shoring systems were not designed to be pulled on with a backhoe bucket. Damage is likely, if the operator uses them to pull the shield. The Pullbar will allow the bucket to pull the shield system ahead, without damage to the struts. Bent struts are a safety hazard.



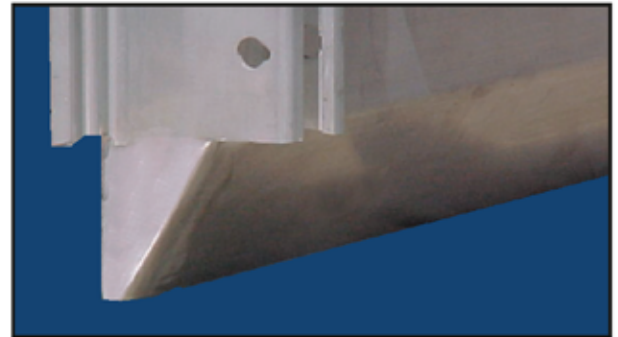
Why take a chance?

The Pullbar conforms to your strut width, without interference with their adjustment range. The lift eyes are built in. It can be ordered in several different sizes, to match the working range of the struts. Consult your distributor or the factory for full specifications.

LITE-SHIELD PULLBARS

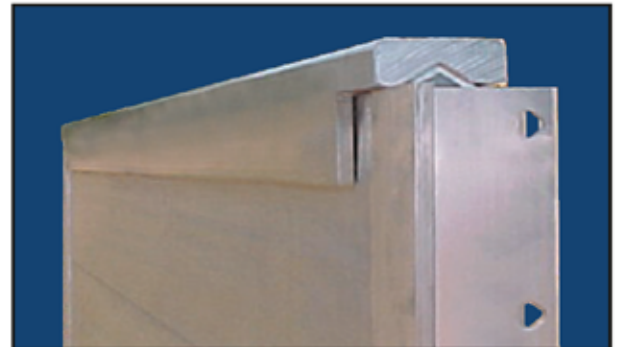
PB-1	24-32"
PB-2	32-48"
PB-2.5	40-64"
PB-3	51-86"

KNIFE EDGE



Add some "bite" to your Lite-Shield™ Trench System. Tough, extruded T-6 knife edges are now available as an option. Knife edges make the Lite-Shield™ much more effective when digging in soft, wet, silty or sandy material. Available on 6', 8', 10' & 12' panels.

TOP CAP

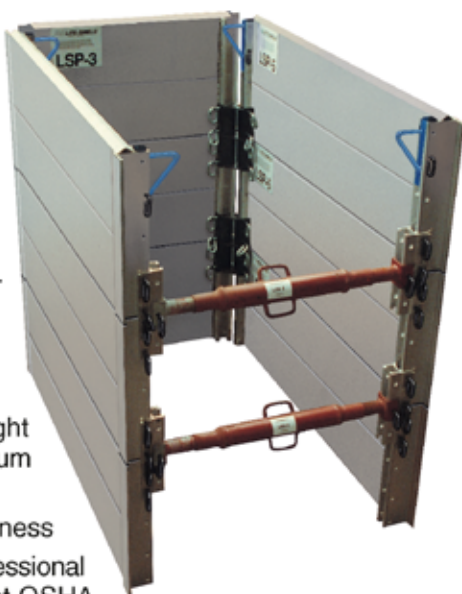


Keep your top panels safe from wear and tear from the backhoe bucket. The extruded T-6 "Top Cap" option provides a massive protective wear bar for the top panel in your system. Available on 6', 8', 10', and 12' panels.

GME® LITE-SHIELD™ 20

The Original LITE-SHIELD™ 20

These 20-inch high panels are lighter in weight and easy to handle. They feature tongue-in-groove design for easy set-up. Struts are mechanical screw-jack type for fast fitting.

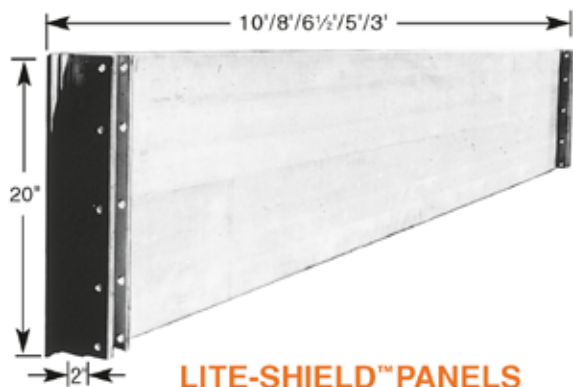


FEATURES

- Strong, lightweight 6061-T6 aluminum construction
- 2-inch wall thickness
- Certified by professional engineer to meet OSHA standards
- Proven in the trenches nationwide... thousands of panels in use today across the U.S.A.

Shielding System Capacity/Depth Chart

Soil Type	Equivalent Fluid Pressure (PSF)	MAXIMUM ALLOWABLE DEPTH (FT.)			
		12 Ft. Panel	10 Ft. Panel	7 & 8 Ft. Panels	2 - 6 Ft. Panels
A	25	16	24	24*	24*
B	45	9	14	23	24*
C	60	7	10	17	22
C	80	5	8	13	16



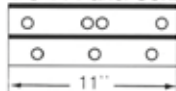
Lite-Shield™ Panels	Dimensions (L x H x W)	Weight
LSP- 10	118" x 20" x 2"	100 lb.
LSP- 8	96" x 20" x 2"	80 lb.
LSP- 7	78" x 20" x 2"	68 lb.
LSP-5	60" x 20" x 2"	55 lb.
LSP-3	36" x 20" x 2"	35 lb.

LITE-SHIELD™ 20 COMPONENTS

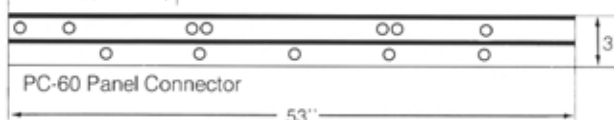
PANEL CONNECTORS



PC-11 Panel Connector



Panel Connector with pins included.
PC-11: 11", connects 2 panels; wt. 4 lbs.
PC-60: 53", connects up to 3 panels; wt. 15 lbs.



ALUMINUM MANHOLE CONNECTOR



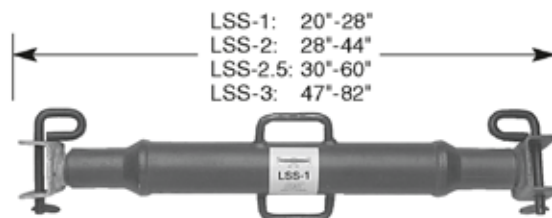
59" - wt. 28 lbs. each
40" - wt. 21 lbs. each
20" - wt. 10 lbs. each

STEEL MANHOLE CONNECTOR



Wt. 76 lbs. (set of 4)

LIFTING EYE



LITE-SHIELD™ STRUTS

Strut is shown with gravity clip pin, which is necessary for use with 20" system.

Adjustment Range (Inside Panel Dimension)			
Part No.	Weight	With Connector	w/o Connector
LSS-1	16 lbs.	24 - 32 inches	20 - 28 inches
LSS-2	20 lbs.	32 - 48 inches	28 - 44 inches
LSS-2.5	23 lbs.	40 - 64 inches	30 - 60 inches
LSS-3	26 lbs.	51 - 86 inches	47 - 82 inches

LITE-SHIELD™ ASSEMBLY

Choose a relatively flat, level space, close to the back hoe and excavation.

Start construction of the shield assembly with 2 panels, 2 panel connectors, (PC2-PC3 or PC4) and an adjustable strut.

Stand the two panels up, parallel with each other with the "V" groove side down, and spaced apart the length of the strut.

Use the keyway pins to attach the panel connectors to the panels. Install pin handles facing the inside of the shield. After installing the pins, be sure to rotate the handle downward in the locked position. Check if pin is secured by pulling on the handle. A PC2 connector should extend above the panel, one half of its length.

The PC2 connector has four holes along one edge, and a single hole in the center of the other edge. Use two of the holes to pin the next panel in place. The single remaining hole is for the strut end.

Pin the strut in place on the PC2's between the two panels.

NOTE: All holes in the PC2 must have a pin installed.



This sub-assembly will now stand up unaided, while you complete the shield. Continue construction by adding two more panel connectors to the opposite end of the shield and add a strut to that end also.



Add two more panels. It is easier to place the bottom edge of the next panel along the top edge of the previously constructed panel, with the top of the "loose" panel tilted outward 30% or so. When it is lined up, just "tilt" the panel up and into the panel connectors, and pin in place. Avoid "sliding" panels down into the connectors so as to avoid a pinch point.



Add two more PC2 connectors to each end of the newly added panels (4) and add a strut between these connectors at each end.

NOTE: Struts must be no further apart vertically than 4 feet, and must be within 2 feet of the top and bottom of the shield assembly. Consult tabulated data.

You may continue adding panels and struts in this manner. It is only practical to build the shield assembly to 8 feet high, in this fashion. Add the lift eyes to the four corners, and connect a four leg lift bridle. You are now ready to lift the Lite-Shield into the trench.

If more depth is required, simply add panels, connectors, and struts from the top of the trench, and then place the assembly in the deeper excavation.



PC3 and PC4 connectors allow for easier construction of a "base" unit, either 6 feet or 8 feet high.

Note that these long connectors do not start at the bottom edge of the first panel, but rather halfway up, in the fashion of the PC2s.



Corner (manhole) connectors are used in the same way as the panel connectors, except that they accept a panel instead of a strut. They are used instead of the PC's to construct a 3- or 4-sided closed end box. (Manhole, inlet, repair pit, etc.)

GME®

1-800-248-2054