Pacific SHORING
Quality Driven, Lead Time Focused

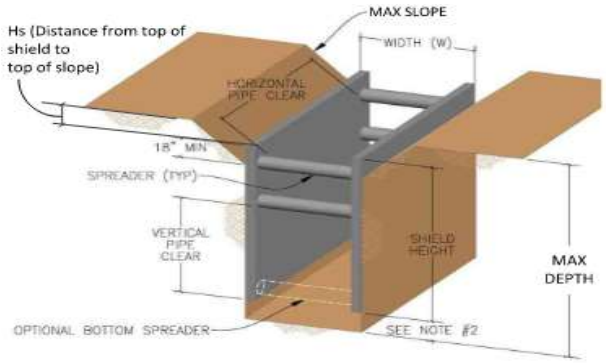
TRENCH SHIELD TABULATED DATA

Model Number: 01.TS-4M216FB-UR

3810 Magnolia Pkwy
Pearland TX 77584

Serial Number	U-PS27469-P	**Spreader Size**	8" SCH 80 Pipe	**Pressure Rating**	1812 PSF
Trench Shield Height	2 FT	**Spreader Yield Strength**	35 KSI	**Vert Pipe Clearance**	7 IN
Trench Shield Length	16 FT	**Max Spreader Length**	20 FT	**Horiz Pipe Clearance**	168 IN
Wall Thickness	4 IN	**Spreader Pin Diameter**	2 IN	**Surcharge Pressure**	72 PSF
Weight	2961 LBS	**Pin Yield Strength**	54 KSI	**33% Shoring Factor**	YES

SOIL TYPE	MAX DEPTH (FT)	Hs (FT)	MAX SLOPE
A-25	40	10.5	3/4:1
B-45	40	8.5	1:1
C-60	30	6.5	1 1/2:1
C-80	23	0	Flat



REGISTERED PROFESSIONAL ENGINEER
GREGORY LYNN McCORMICK JR.
No. C65217
CIVIL
STATE OF CALIFORNIA

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NOTES & LIMITATIONS:

1) The exterior wall of the trench shield shall be in direct contact with soils.

2) Excavation 2' below bottom of shield is only permitted when there is no indication of possible loss of soil from behind or below the bottom of the shield.

3) Sloped soils must extend to no less than 18” below the top of the shield, as shown in diagram above. Shield need not extend above soil when soils are flat and level with top of shield.

4) Except as approved in table above (Hs), any excavations over 20’-deep with sloping require site specific approval by a Licensed Professional Engineer (P.E.).

5) If "Maximum Depth" exceeds 20', slope angle shall not exceed "Max Slope", and distance from top of shield to top of slope shall not exceed "Hs", as outlined in table for corresponding soil types.

6) The "Maximum Depth", regardless of slope, is the vertical distance from the dredge line to original grade and includes Hs and any shield extension above vertical cut.

7) User is responsible for safe support of shield to ensure it cannot shift vertically or horizontally at any time.

8) Shield may be stacked, provided that appropriate connections are made between the stacked shields to prevent lateral movement.

9) Shield must be used in strict compliance with all applicable OSHA guidelines and limitations outlined in this document.

10) This document has been prepared by a P.E., as required by OSHA 29 CRF, Part 1926, Subpart P.

11) Shield shall be used under the supervision and direction of a Competent Person as defined by CRF, Part 1926, Subpart P. Among other qualifications, the Competent Person shall be trained in the use of trench shields and have practical field experience with the use of shields, soil classification, and recognizing hazardous conditions.

12) All spreaders shall be secured to sockets with pins or other mechanical connections approved by the manufacturer, prior to shield use. Do not apply side load or vertical load to the spreaders at any time (such as leaning plates/sheeting for soil support), unless approved in writing by a P.E. or the Manufacturer.

13) Shield shall be installed in a manner to restrict lateral or other hazardous movement of the shield in the event of the application of sudden lateral loads.

14) Shield shall be inspected prior to each use, to ensure they are in good condition and free of any damage or visual defects.

15) Any repairs or modifications to the shield, such as extending height or length with plates, are strictly prohibited, unless approved in writing by a P.E.

16) Pressure rating is a triangular pressure distribution based on C-60 soil at bottom of the excavation.

17) User must ensure that the groundwater level on all sides of the shoring is maintained below the base of the excavation at all times, otherwise, this certification is invalid.

18) All equipment and materials shall be kept a sufficient distance clear of the shoring, as directed by a licensed Professional Engineer, to ensure this surcharge limit is not exceeded.

WARNING: USE OF SHIELDING OTHER THAN OUTLINED IN THIS DOCUMENT CAN CAUSE FAILURE, COLLAPSE, OR CAVE-INS, AND MAY RESULT IN SERIOUS INJURY OR DEATH.