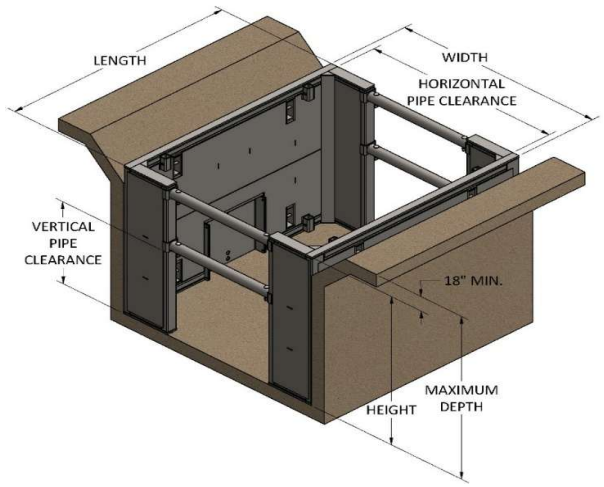
Pacific SHORING
Quality Driven, Lead Time Focused

# SQUARE MANHOLE SHEILD
# TABULATED DATA
**Model Number: 03.MH-41212FB-ES**

**3810 Magnolia Pkwy**
**Pearland TX 77584**

| | | | | | |
|---|---|---|---|---|---|
| **Serial Number** | PS27265 | **Spreader Size** | 5" SCH 80 Pipe | **Pressure Rating** | 1157 PSF |
| **Manhole Height** | 4 FT | **Spreader Yield Strength** | 35 KSI | **Weight** | 4,046 LBS |
| **Manhole Length** | 12'-8" | **Max Spreader Length** | 4 FT | **Horiz. Pipe Clearance** | 144 IN |
| **Manhole Width** | 12'-8" | **Spreader Pin Diameter** | 1 3/8 IN | **Vert. Pipe Clearance** | 3 IN |
| **Wall Thickness** | 4 IN | **Pin Yield Strength** | 36 KSI | **Surcharge Pressure** | 72 PSF |
| **Cutout Width** | N/A | **Cutout Height** | N/A | **33% Shoring Factor** | YES |




| SOIL TYPE | MAX DEPTH (FT) |
|---|---|
| A-25 | 40 |
| B-45 | 26 |
| C-60 | 20 |
| C-80 | 15 |

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**NOTES & LIMITATIONS:**

1) Soils must be classified by a competent person as type A, B, or C in accordance with OSHA standard 29 CRF, part 1926, supart P.

2) Sloped soils must extend to no less than 18" below the top of the square manhole shield, as shown in the diagram above. Square manhole shield need not extend above the soil when soils are flat and level with the top op of the shield.

3) Square manhole shield shall be used under the direct supervision and direction of a competent person as defined by OSHA standard 29 CRF, part 1926, supart P. And all manufacturer's recommendations. Among other qualifications, the competent person shall be trained in the use of trench shields and have practical field experience with the use of the shields, soil classifications, and recognizing hazardous conditions.

4) Prior to square manhole shield use all spreaders shall be secured to sockets with pins, or other mechanical connections that are approved by the manufacturer. (Do not apply side load to the spreaders at any time including leaning plates or sheeting for soil support) unless approved in writing by a registered P.E.

5) Surcharge loads and equipment setback limits have not been included in the above ratings. The allowable depth rating must be reduced to account for any surcharge loading that may influence the square manhole shield, otherwise, site-specific engineering is required.

6) Square manhole shields shall be installed in a manner that will prevent lateral or otherwise hazardous movement of soils. Shields are not intended to provide stability to adjacent buildings or other structures.

7) The contractor 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.

8) The exterior walls of the square manhole shield shall be in direct contact with soils.

9) Square manhole shields must be inspected prior to each use for any damage or deterioration. If the assembly has sustained damage, the tabulated data is void until repairs are made and approved in writing by a licensed engineer.

10) Any modifications to the square manhole shield using parts that are not manufactured by Pacific Shoring Products, extending the height or length of shoring in any way, or changing the loading condition, will void this tabulated data and the shield shall not be used without approval in writing by a licensed professional engineer.

11) Square manhole shields may be stacked, provided that appropriate connections are made between the stacked shields to prevent lateral movement.

12) This document has been prepared by a registered P.E., as required by OSHA standard 29 CRF, part 1926, supart P.

**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.**