Pacific SHORING
Quality Driven, Lead Time Focused

SQUARE MANHOLE SHIELD TABULATED DATA

5385 Bay Oaks Dr.
Pasadena TX 77505

Model Number:	03.MH-41010FB-DPN	**Spreader Size:**	5" SCH. 80 PIPE	**Pressure Rating:**	3,693 PSF
Serial Number:	PS25010	**Spreader Yield :**	55 KSI	**Weight:**	4,553 LBS
Height:	4'	**Max Spreader Length:**	6'	**Wall Thickness:**	4"
Length:	10'	**Spreader Pin Diameter:**	1-3/8"	**Horiz. Pipe Clearance:**	120"
Width:	10'	**Pin Yield Strength:**	90 KSI	**Vert. Pipe Clearance:**	6"

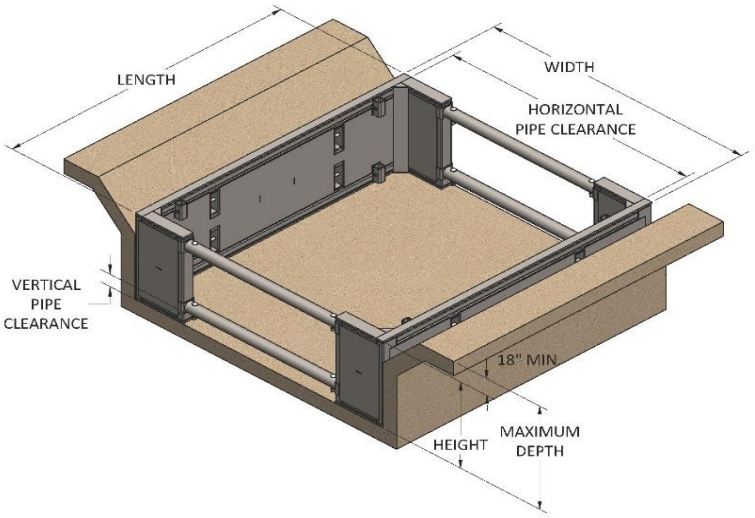
Soil Type	A-25	B-45	C-60	C-80
Max Depth	40'	40'	40'	40'
Surcharge Pressure Included in Max Depth Ratings:				72
33% Shoring Use Factor Included in Max Depth Ratings:				YES

ADRIANUS J. VERMEULEN STATE OF WASHINGTON 43601 REGISTERED PROFESSIONAL ENGINEER

LICENSED PROFESSIONAL ENGINEER No. 6641734 ADRIANUS J. VERMEULEN STATE OF UTAH

PROFESSIONAL ENGINEER REGISTERED 12917 STATE OF IDAHO ADRIANUS J. VERMEULEN

Signed
3/26/2025



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.
13) SQUARE MANHOLE SHIELDS MUST BE USED IN STRICT COMPLIANCE WITH ALL APPLICABLE OSHA GUIDELINES, AND LIMITATIONS OUTLINED IN THIS DOCUMENT. (FAILURE TO DO SO CAN RESULT IN SERIOUS INJURY OR DEATH.)