

## TRENCH SHIELD CERTIFICATION

A COPY OF THIS SHEET MUST ACCOMPANY EACH CORRESPONDING  
TRENCH SHIELD AT EVERY JOB SITE



MODEL NUMBER	WEIGHT	SERIAL NUMBER	SIZE
PRO4-1016 D	9,905	28132	10' x 16'

SOIL	MAX DEPTH (FT)	CAPACITY (PSF)
TYPE A	40	1020
TYPE B	28	1020
TYPE C	22	1020

### LIMITATIONS

1.) This tabulated data has been prepared by a registered professional engineer as required to comply with OSHA standard 29 CFR part 1926, subpart P.

2.) Surcharge loads have not been included in the above depth ratings. The allowable working depth of the shield must be reduced to account for any surcharge loading which occurs within the influence line of the shield. Otherwise, site specific engineering is required.

3.) Shield may be suspended no more than 2 feet above bottom of the trench and only if there is no possible loss of soil from behind or below bottom of shield.

4.) The sides of the excavation shall be cut vertical and narrow to prevent lateral movement, backfill voids between excavation and face of shoring shield.

5.) Shield to be used with 8" diameter schedule 80 pipe spreaders with a minimum yield strength of 50 ksi, and limited to a maximum length of 15'.

6.) Soil above shield must be sloped according to OSHA Subpart P, & must begin no less than 18" below top of panel. Excavations over 20'-deep with slopes require site specific approval.

7.) Shields may be stacked as long as each panel is rated to the depth it is used and manufacturer approved stack connections are utilized to prevent lateral movement of the shields.

8.) No steel plates, sheet piles, or sheathing of any kind may be leaned against, or otherwise supported by pipe spreaders at any time. Do not suspend load from pipe spreaders.

9.) Contractors' competent person is fully responsible for classifying soils in accordance with OSHA guidelines, prior to use of system.

10.) Any modifications to panels will void tabulated data unless otherwise specified or allowed in writing by Pro-Tec Equipment.

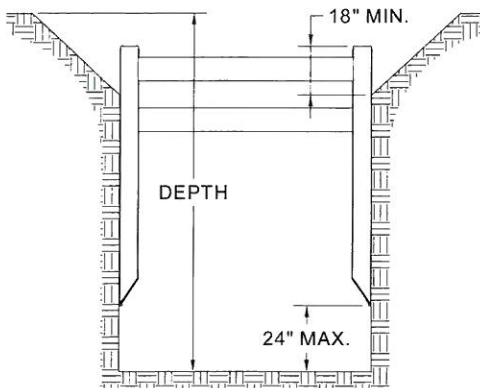
11.) Shields must be inspected prior to each use for any damage or deterioration. If any assembly has sustained damage or permanent deformation, the tabulated data is void until repairs are made as specified by a registered professional engineer.

12.) Pro-Tec shoring systems are to be used in accordance with Federal, state and local laws. Refer to Occupational Safety and Health Administration (OSHA) rules and regulations Vol. 54, No. 209, 10/31/89. Subpart P.

13.) Shoring must be clear of all adjacent building structures by a distance equal to four times the maximum cut depth at all times, otherwise certification is invalid and site specific engineering is required.

14.) Contractor is fully responsible for ensuring groundwater level on all sides of shoring is maintained below base of excavation at all times, otherwise certification is invalid.

15.) Certification based on shields fabricated in accordance with Pro-Tec drawing PRO4-1016DNOKE 4PR 22FT OSP/SPECIAL dated 7-03-2012



JUL 06 2012

2" DIAM. PINS SHALL HAVE MIN  $F_u = 100$  KSI.  
CONTRACTOR RESPONSIBLE FOR ENSURING  
PROPER GRADE PINS ARE IN PLACE PRIOR  
TO SHIELD USE.

Capacity and depth ratings account for 33%  
overstress for short-term loading

Usage of shields other than specified could cause failure  
or cave-ins resulting in serious injury or death.

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