America's EFFICIENCY Trench Box Builder

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EFFICIENCY TRENCH SHIELDS PAGE 1 OF 2

TYPE C-60

SOFT NON COHESIVE TO

SUBMERGED SANDY SOIL.

60 PSF PER FOOT OF DEPTH

DESCRIPTION:

SOFT COHESIONLESS

SOIL UNCONFINED

COMPRESSIVE

STRENGTH LESS THAN

0.5 TSF GRAVEL, SAND

AND LOAMY SAND:

SUBMERGED SOIL OR

FRACTURED ROCK THAT

IS NOT STABLE

MAX. ALLOWABLE DEPTH

OF CUT

24

XLAP-SF-88 MODEL REFERENCE TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTATION RULES AND REGULATIONS, VOL. 54] NO.209, PART 1926 SUBPART P

LENGTH

8

SERIAL NUMBER

144909

## SOIL TYPE TO BE EXCAVATED

OF CUT

29

TYPE C-COHESIVE TYPE B CERTIFIED BY: SOFT COHESIVE TO MEDIUM COHESIVE TO EFFICIENCY SUBMERGED CLAY SOIL 60 GRANULAR SOIL 45 PSF PER PSF PER FOOT OF DEPTH PRODUCTION INC. FOOT OF DEPTH DESCRIPTION: DESCRIPTION: CLAY, WITH SOFT COHESIVE SOIL UNCONFINED PSF RATING MAXIMUM UNCONFINED COMPRESSIVE LATERAL EARTH COMPRESSIVE OUT TO SERVICE OF THE STRENGTH GREATER PRESSURE CAPACITY AT STRENGTH EQUAL TO 0.5 THAN 0.5 TSF BUT LESS TRENCH BOTTOM IN TSF CLAY, SAND AND THAN 1.5 TSF **POUNDS PER SQUARE** LOAMY SAND; COHESIONLESS GRAVEL FOOT SUBMERGED SOIL THAT SILT, SILT LOAM OR IS STABLE SANDY LOAM SHIELD SIZE MAX. ALLOWABLE DEPTH MAX. ALLOWABLE DEPTH

PSF

1440

## LIMITATIONS

OF CUT

32

installed as shown on the reverse side and in accordance with manufacturers instructions.

HEIGHT

8

- 2. Shield to be used with manufacturer's spreader system or approved equivalent All spreaders must be pinned at the selected width prior to installing in the excavation.
- 3. excavation 2 feet below bottom of shield in permitted when no loss of soil from behind or below the bottom of the shield is encountered. See paragraph 1926.652 (e)(2)(i). The competent person shall make the determination for compliance. Sudden shifting of the shield vertically shall be avoided.
- 4. Additional shields may be stacked with no penalty in depth rating. Stacked shields must only be rated to depth installed. Stacked shields must be pinned in alignment with manufacturer's stacking system or approved equivalent.

- 1. XLAP Trench Shield to be assembled and 5. Contractor's competent person shall be responsible for monitoring soil conditions and shall be responsible for compliance with all federal, state and local rules and regulations.
  - 6. Depth certification indicated, is based on the assumption that no surcharge loads from structures, equipment or stored material are adjacent to the excavation. Consult the manufacturer should such loads be present.
  - 7. Previously disturbed soils may be Type B unless they would be classified Type C. (See Appendix A to Subpart P of part 1926 for soil descriptions. Type "C-60" represents a more stable condition than Type "C-80" described in Appendix A). Soil that meets requirements for Type A, but is fissured or subject to vibration may be Type B. Dry rock that is unstable and material that is part of a layered system where layers dip into the excavation on a slope less steep than four horizontal to one vertical (4H:1V) are Type B, but only if the material would otherwise be classified Type B.
  - 8. When excavations in Type "C-60" soild are made with near vertical side walls, soil must be able to stand with unsupported vertical sidewalls long enough for shield installation. Otherwise it would be classified Type "C-80".

- 9. Soil in a sloped, layered system where layers dip into excavation on a slope of four horizontal to one vertical (4H:1V) or steeper may be Type C. Submerged soil in material with water freely seeping and entering excavation, but only part of the depth of the retained soil is submereged, Conditions more severe would require the services of a soils engineer to establish the applicable design pressure.
- 10. The use of the XLAP Trench Shield shall be in accordance with this data and the OSHA standards. Any use of this product not specifially described on this certification could cause cave-in, collapse or structural failure resulting in death or serious injury.
- 11. Depth and PSF ratings are for lateral earth pressures only and do not take any surcharges into account.