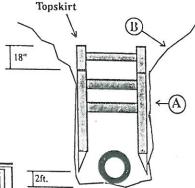
## TITAN 3 LITE

## Manufacturer's Recommendations for Use

- 1. The trench from must fit amugly into the trench. Example "A",
- 2. Protection must be provided against any spoil falling into
- the trench box, Example "B".
- 3. O.S.II.A. Regulations are to be observed at all times. 4. All other applicable regulations are to be observed. (city,state,etc...)
- 5. Designed working load may not be exceeded. 6. Observe Tabulated Data soil description and slope figures for
- ations of adjusted depth.
- 7. A damaged hox or components may not be used.
- 8. The trench boxes may only be used by a competent per in O.S.II.A.'s Trench Safety Rules. (Ex. The Final Rule)
- 9. To determine the side wall pressure, use the soil type chart and pressure/denth arock \*
- 10. Repairs are to be made only by a KUNDEL Ind. representative.
- 11. All compresents must be completely and properly assembled.
- 12. Please note that all tables and notes are for illustrative puposes only. The tables are based upon statle load conditions and assumed soil pressures.
- Safe depths can vary from design assumptions. Please refer to all nanufacturer's usage instructions, consult a qualified engineer, or contact KUNDEL Ind. technical support line.
- 13. It is the contractor's responsibility to maintain the working area within
- the Trench System free of water for hydrostatic and sub soil conditions. 14. KUNDEL Trench products are designed and built to function as
- soil support systems and to protect workers.

	The second secon
Box Dimensions	8' 12'
Serial Number	1607
Lbs. per sq.ft.	780
w/ 7 pipe sys. w/ clear to rear	NIA
w/ clear to rear	NIA
"A" Soil	39
w/ 7 pipe sys. w/ clear to rear	NIA
	NIA
"B" Soil	24
w/ 7 pipe sys. w/ clear to rear	NIA
A. J. Carlotte, Sp. St.	NIA
"C" Soil	/3
w/ 7 pipe sys. w/ clear to rear	NIA
	NIA
Muck w/7 pipe sys.	7
w/ clear to rear	NIA



Example type "B" Soil

## SOIL DESCRIPTIONS

Type A SOIL means

an outs mercent service and the service strength of 1.5 ton per sq. fl.(bd) (144kPs) or greater. Examples of cohesive soils are: clay sitty clay, by clay, clay loars and, in some cases, sitty clay loars, sandy clay loars. Comersed notice such as calliche and hardpan are also considered Type A. However, no soil is type A if: (1) The soil is flawred; or

- (ii) The soil is subject to vibration from heavy traffic, pile
- riving, or similar effects: or
- (iv) The soil is part of a stoped, layered system where the layer (v) The material is subject to other factors that would require it to be classified as a less stable material
- tel (48 kPs) but less than 1.5 tel (144 kPs); or
- rock), sift, sift form and sandy loans and, in some cases sifty clay loam and
- (III) Previously disturbed soils except classified as Type "C" Soil.
- nes for Type "A", but la fles
- (v) Dry rock that is not stable; or (vi) Material that is part of a sloped, layered system where the layers dip into kPs), but only if the material would otherwise be classisfied as Type "B".
- (II) Germine soils including gravel, sand, and loamy sand; or (III) Submerged soil or soil that water in fructy scaping; or
- MIXER: The "MIXER" soil designation found on the chart on other KUNDEL.
- is intended to describe these special soil situation mendardired "C" designation. It is not an exact or official soil designation with exact or specific perameters? It is present only because there are altestions where the phigher than "C", and to provide a guide line for using KUNDEL Trench Prod

Certified Engineers Statement: This herby certifies that the TTTAN Three Lite has been designed in accordinance with the requirements and guidlines and promulgated by the Occupational Safety and Health Administration (OSHA) [ Construction Standard for Excavations { 29 CFR Part 1926.650 - .652 } Subpart P].

Trench Shield #9

-Michael J. Vanetta, P.E. Ohio Registration # E-46015 (Vanetta Engineering)

 $Manufacturer's \, Statement: Kundel \, Industries \, Inc. \, hereby \, certifies \, all \, materials \, and \, processes \, involved \, in \, every \, stage \, and \, processes \, involved \, in \, every \, stage \, and \, processes \, involved \, in \, every \, stage \, and \, processes \, involved \, in \, every \, stage \, and \, processes \, involved \, in \, every \, stage \, and \, processes \, involved \, in \, every \, stage \, and \, processes \, involved \, in \, every \, stage \, and \, processes \, involved \, in \, every \, stage \, and \, processes \, involved \, in \, every \, stage \, and \, processes \, involved \, in \, every \, stage \, and \, processes \, involved \, in \, every \, stage \, and \, processes \, involved \, in \, every \, stage \, and \, processes \, involved \, in \, every \, stage \, and \, processes \, involved \, in \, every \, stage \, and \, processes \, involved \, in \, every \, stage \, and \, processes \, involved \, in \, every \, stage \, and \, processes \, involved \, in \, every \, stage \, and \, processes \, involved \, in \, every \, stage \, and \, processes \, involved \, in \, every \, stage \, and \, processes \, and \, pr$ of production of each and every TITAN Three Lite Trench Box strictly and stringently follow every material, production, and design specification put forth by Vanetta Engineering (Michael Vanetta, P.E.) to ensure that each TITAN Three Lite Trench Box is in full accordinance with the requirements and guidelines promulgated by the Occupational Safety and Health Administration.

-Robert Kundel, Pres. KUNDEL Ind., Inc.

SERIAL NO. .

1607

BOX DIMENSIONS: