

**MODEL: XLD-1010****4 PIPE "I"****MAX SPREADER  
LENGTH 20 FEET****KNIFE-EDGE NO****FOAM FILLER NO****COLLAR TYPE 7" O.D. x 3/4" WALL  
w/2" 1/4 PIN HOLES****DATE OF  
MANUFACTURE Oct-14****LIFT-LUG  
RATING 5,832 LBS****WEIGHT AS  
MANUFACTURED 6,755 LBS**

REFERENCE TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION RULES AND REGULATIONS, 29 CFR, NO 209, PART 1926, SUBPART P

| SHIELD SIZE      |                  | PSF RATING   | EXAMPLES OF MAXIMUM ALLOWABLE DEPTH OF CUT<br>(FEET) IN SOIL TYPE TO BE EXCAVATED |  |   |
|------------------|------------------|--|---|--|---|
| HEIGHT<br>(FEET) | LENGTH<br>(FEET) | MAXIMUM LATERAL EARTH PRESSURE<br>CAPACITY AT TRENCH BOTTOM IN POUNDS<br>PER SQUARE FOOT | TYPE B-45 (II)<br>MEDIUM COHESIVE TO<br>GRANULAR SOIL 45 PSF<br>PER FT OF DEPTH   | TYPE C-60 (III)<br>SOFT COHESIVE TO<br>SATURATED SOIL. 60 PSF<br>PER FT OF DEPTH | TYPE C-80 (IV)<br>SOFT SUBMERGED AND<br>FLOWING SOIL. 80 PSF<br>PER FT OF DEPTH |
| 10               | 10               | 2640   | 59  | 44   | 33  |

**LIMITATIONS IN USE OF TABLE**

1. TRENCH SHIELD TO BE ASSEMBLED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. (SEE PAGE-2)
2. EXCAVATION 2 FEET BELOW BOTTOM OF SHIELD IS PERMITTED WHEN NO LOSS OF SOIL FROM BEHIND OR BELOW THE BOTTOM OF 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.
3. DEPTH RATING IS BASED ON TEMPORARY LOADING, CONSULT MANUFACTURER IF SHIELD IS SUBJECT TO LONG TERM LOADING
4. ADDITIONAL SHIELDS MAY BE STACKED WITH NO PENALTY IN DEPTH OF CUT AS LONG AS THE RATING OF THE EACH SHIELD IS NOT EXCEEDED AT THE DEPTH IT IS USED. MANUFACTURER APPROVED STACKING METHOD MUST BE USED.
5. C-80 DOES NOT REPRESENT THE WORST POSSIBLE SOIL CONDITION. OBTAIN SITE-SPECIFIC ENGINEERING FOR EXTREMELY NON-STABLE CONDITIONS SUCH AS MARINE CLAY, PEAT, SOFT SUBMERGED AND FLOWING CLAYS, ETC.
6. ANY MODIFICATIONS OR ALTERATIONS NOT ALLOWED UNLESS APPROVED IN WRITING BY EFFICIENCY PRODUCTION, INC.
7. CONTRACTOR'S COMPETENT/QUALIFIED PERSON SHALL BE RESPONSIBLE FOR MONITORING SOIL CONDITIONS AND SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS.
8. SPREADER PINS SHALL BE 8620 COLD DRAWN 80-90 KSI MIN. YIELD AND NO MORE THAN 1/4" SMALLER THAN COLLAR AND SPREADER PIN HOLES AS MANUFACTURED BY EFFICIENCY PRODUCTION, INC.
9. LIFT LUG RATING IS (THE SAFE WORKING LOAD) FOR EACH INDIVIDUAL LIFT LUG.
10. WEIGHT LISTED IS FOR SHIELD ONLY. USE ASSEMBLED WEIGHT INCLUDING SPREADERS FOR RIGGING PURPOSES

**DESCRIPTION**

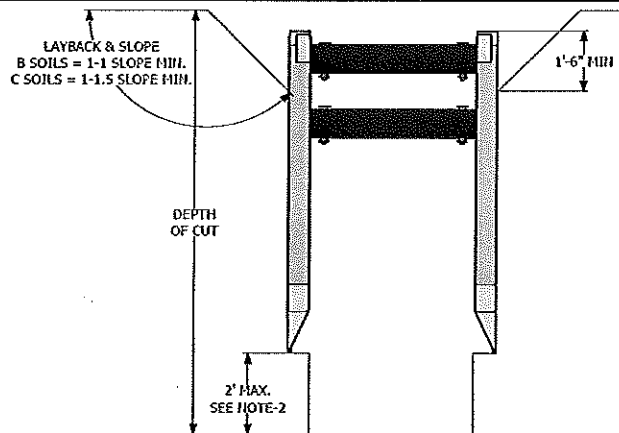
CLAY, WITH UNCONFINED  
COMPRESSIVE STRENGTH  
GREATER THAN 0.5 TSF  
BUT LESS THAN 1.5 TSF  
COHESIONLESS GRAVEL,  
SILT, SILT LOAM OR SANDY  
LOAM

**DESCRIPTION**

SOFT COHESIVE SOIL  
UNCONFINED  
COMPRESSIVE STRENGTH  
GREATER THAN 0.3 TSF,  
BUT LESS THAN 0.5 TSF  
CLAY, SAND AND LOAMY  
SAND; SATURATED SOIL  
THAT IS STABLE, DRY SAND,  
OR DEWATERED SOILS

**DESCRIPTION**

SOFT COHESIVE SOIL  
UNCONFINED  
COMPRESSIVE STRENGTH  
LESS THAN 0.3 TSF.  
FRACTURED ROCK THAT  
IS NOT STABLE, OR  
SUBMERGED SAND AND  
LOAMY SAND THAT IS  
FLOWING. (SEE NOTE 5)



MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENT NUMBERS: 4,090,365-4,114,383-4,259,028 ONE OR MORE OF THE FOLLOWING CANADIAN PATENT NUMBERS:  
1,062,683-1,062,684

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CONTINUED ON REVERSE SIDE



10/30/2014

**⚠WARNING:** Any use of this product not specifically described on this certificate could cause cave-in, collapse, or structural failure, and may result in injury, or death