

685 HULL ROAD, MASON, MI 48854 PHONE (517) 676-8800

EFFICIENCY TRENCH SHIELDS PAGE 1 OF 2

MODEL

XLDF-810

SERIAL NUMBER

146250

REFERENCE TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION RILLES AND REGULATIONS, 29 CFR, NO.

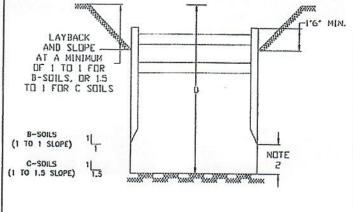
			N KULES AND REGUL	ATIONS, 29 CFR, NO
D SIZE	PSF RATING	MAXIMUM ALLOWABLE DEPTH OF CUT (FEET) SOIL TYPE TO BE EXCAVATED		
LENGTH (FEET)	MAXIMUM LATERAL EARTH PRESSURE CAPACITY AT TRENCH BOTTOM IN POUNDS PER SQUARE FOOT	TYPE B MEDIUM COHESIVE TO GRANULAR SOIL 45 PSF PER FOOT OF DEPTH	TYPE C-COHESIVE SOFT COHESIVE TO SUBMERGED CLAY SOIL 60 PSF PER FOOT OF DEPTH	TYPE C-60 SOFT NON COHESIVE TO SUBMERGED SANDY SOIL. 60 PSF PER FOOT OF DEPTH
10	2640	59	53	44
1. TRENCH SHIELD TO BE ASSEMBLED AND INSTALLED AS SHOWN AND IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. 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)(1). THE COMPETENT PERSON SHALL MAKE THE DETERMINATION FOR COMPLIANCE. SUDDEN SHIFTING OF THE SHIELD VERTICALLY SHALL BE AVOIDED.		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 EQUAL TO 0.5 TSF CLAY, SAND AND LOAMY SAND; SUBMERGED SOIL THAT IS STABLE	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
3. CONSULT MANUFACTURER WHEN RESTRICTION ON NOTE 2 IS NOT MET. 4. ADDITIONAL SHIELDS MAY BE STACKED WITH NO PENALTY IN DEPTH OF CUT AS LONG AS THE RATING OF THE BOTTOM SHIELD IS NOT EXCEEDED. 5. DEPTHS OF CUTS SHOWN ARE BASED ON EXAMPLES OF VARIOUS SOIL CONDITIONS. VERIFY ACTUAL SOIL PRESSURES PRIOR TO EACH USE. 6. ANY MODIFICATIONS OR ALTERATIONS NOT ALLOWED UNLESS APPROVED IN WRITING BY EFFICIENCY PRODUCTION, INC.		LAYBACK AND SLOPE AT A MINIMUM OF 1 TO 1 FOR B-SDILS, OR 1.5 TO 1 FOR C SOILS		The MIN.
	LENGTH (FEET) 10 LIMITATIO LIM	D SIZE PSF RATING LENGTH (FEET) MAXIMUM LATERAL EARTH PRESSURE CAPACITY AT TRENCH BOTTOM IN POUNDS PER SQUARE FOOT 10 2640 LIMITATIONS IN USE OF TABLE ELD TO BE ASSEMBLED AND INSTALLED AS SHOWN AND IN WITH MANUFACTURER'S INSTRUCTIONS. 12 FEET BELOW BOTTOM OF SHIELD IS PERMITTED WHEN ILL FROM BEHIND OR BELOW THE BOTTOM OF SHIELD IS ASSE PARAGRAPH 1926.652 (e)(2)(i). THE COMPETENT MAKE THE DETERMINATION FOR COMPLIANCE. SUDDEN HE SHIELD VERTICALLY SHALL BE AVOIDED. ANUFACTURER WHEN RESTRICTION ON NOTE 2 IS NOT MET. SHIELDS MAY BE STACKED WITH NO PENALTY IN DEPTH OF STHE RATING OF THE BOTTOM SHIELD IS NOT EXCEEDED. EUTS SHOWN ARE BASED ON EXAMPLES OF VARIOUS SOIL ERIFY ACTUAL SOIL PRESSURES PRIOR TO EACH USE. ACTIONS OR ALTERATIONS NOT ALLOWED UNLESS	D SIZE PSF RATING MAXIMUM A SOII LENGTH (FEET) MAXIMUM LATERAL EARTH PRESSURE CAPACITY AT TRENCH BOTTOM IN POUNDS PER SQUARE FOOT TYPE B MEDIUM COHESIVE TO GRANULAR SOIL 45 PSF PER FOOT OF DEPTH TO 2640 S9 LIMITATIONS IN USE OF TABLE PLATE THE BOTTOM AND IN WITH MANUFACTURER'S INSTRUCTIONS. 12 FEET BELOW BOTTOM OF SHIELD IS PERMITTED WHEN IL FROM BEHIND OR BELOW THE BOTTOM OF SHIELD IS IL FROM BEHIND OR BELOW THE BOTTOM OF SHIELD IS IL SHIELD VERTICALLY SHALL BE AVOIDED. ANUFACTURER WHEN RESTRICTION ON NOTE 2 IS NOT MET. SHIELDS MAY BE STACKED WITH NO PENALTY IN DEPTH OF STHE RATING OF THE BOTTOM SHIELD IS NOT EXCEEDED. LAY BACK AND S LOIPE LAY BACK AND S LOIPE AT A MINIMUM OF 1 TO 1 FOR B-SOILS, DR 1.5 TO SOILS, DR 1.5 TO SOILS, DR 1.5 LAY BACK AND S LOIPE AT A MINIMUM OF 1 TO 1 FOR B-SOILS, DR 1.5 TO SOILS, DR 1.5 TO SOILS, DR 1.5 TO SOILS, DR 1.5 TO SOILS TO SOILS MAXIMUM A SOII TYPE B MEDIUM COHESIVE TO GRANULAR SOIL 45 PSF PER FOOT OF DEPTH CLAY, WITH UNCONFINED COMPRESSIVE STRENGTH GREATER THAN 0.5 TSF BUT LESS THAN 1.5 TSF COHESIONLESS GRAVEL, SILT, SILT LOAM OR SANDY LOAM LAY BACK AND S LOIPE AT A MINIMUM OF 1 TO 1 FOR B-SOILS, DR 1.5 TO SOILS, DR 1.5 TO SOILS TO SOILS TO SOILS AND S LOIPE AT A MINIMUM OF 1 TO 1 FOR B-SOILS, DR 1.5 TO SOILS TO SOILS TO SOILS MAXIMUM A SOII TYPE B MEDIUM COHESIVE TO GRANULAR SOIL 45 PSF PER FOOT OF DEPTH CLAY, WITH UNCONFINED COMPRESSIVE STRENGTH GREATER THAN 0.5 TSF BUT LESS THAN 1.5 TSF COHESIONLESS GRAVEL, SILT, SILT LOAM OR SANDY LOAM LAY BACK AND S LOIPE AT A MINIMUM OF 1 TO 1 FOR B-SOILS, DR 1.5 TO SOILS TO SOILS TO SOILS TO SOILS TO SOIL SANDY TO SOIL SANDY	LENGTH (FEET) MAXIMUM LATERAL EARTH PRESSURE CAPACITY AT TRENCH BOTTOM IN POUNDS PER SQUARE FOOT TYPE B MEDIUM COHESIVE TO GRANULAR SOIL 45 PSF PER FOOT OF DEPTH TYPE COHESIVE TO SUBMERGED CLAY SOIL. 60 PSF PER FOOT OF DEPTH TYPE CHAPSOLITE SOFT COHESIVE TO GRANULAR SOIL 45 PSF PER FOOT OF DEPTH TYPE CHAPSOLITE SOFT COHESIVE TO GRANULAR SOIL 45 PSF PER FOOT OF DEPTH TYPE CHAPSOLITE SOFT COHESIVE TO SUBMERGED CLAY SOIL. 60 PSF PER FOOT OF DEPTH TYPE CHAPSOLITE SOFT COHESIVE TO SUBMERGED CLAY SOIL. 60 PSF PER FOOT OF DEPTH TYPE CHAPSOLITE SOIL TYPE TO BE EXCAVATION OF SHEELD IS DESCRIPTION CLAY, WITH UNCONFINED COMPRESSIVE STRENGTH GREATER THAN 0.5 TSF BUT LESS THAN 1.5 TSF COHESIVE SOIL UNCONFINED COMPRESSIVE STRENGTH GREATER THAN 0.5 TSF BUT LESS THAN 1.5 TSF COHESIVE SOIL SUBTRIBUTED WHEN BUT LESS THAN 1.5 TSF COHESIVE SOIL SUBMERGED SOIL THAT IS STABLE SOFT COHESIVE SOIL UNCONFINED COMPRESSIVE STRENGTH GREATER THAN 0.5 TSF COHESIONESS GRAVEL, SILT, SILT LOAM OR SANDY LOAM SAND, SUBMERGED SOIL THAT IS STABLE LAYBACK AND SLIPE AT A MINIMUM DEPTH OF BOTTOM SHIELD IS NOT EXCEEDED. AT A MINIMUM DEPTH OF BOTTOM SHIELD IS NOT EXCEEDED. AT A MINIMUM DEPTH OF BOTTOM SHIELD IS NOT EXCEEDED. AT A MINIMUM DEPTH OF BOTTOM SHIELD IS NOT EXCEEDED. AT A MINIMUM DEPTH OF BOTTOM SHIELD IS NOT EXCEEDED. AT A MINIMUM DEPTH OF BOTTOM SHIELD IS NOT EXCEEDED. AT A MINIMUM DEPTH OF BOTTOM SHIELD IS NOT EXCEEDED. AT A MINIMUM DEPTH OF BOTTOM SHIELD IS NOT EXCEEDED. AT A MINIMUM DEPTH OF BOTTOM SHIELD IS NOT EXCEEDED. AT A MINIMUM DEPTH OF BOTTOM SHIELD IS NOT EXCEEDED. AT A MINIMUM DEPTH OF BOTTOM SHIELD IS NOT EXCEEDED. AT A MINIMUM DEPTH OF BOTTOM SHIELD IS NOT EXCEEDED.

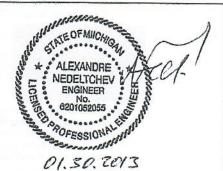
RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.

7. CONTRACTOR'S COMPETENT/QUALIFIED PERSON SHALL BE RESPONSIBLE FOR MONITORING SOIL CONDITIONS AND SHALL BE

8. SPREADER PINS SHALL BE AISI C-1018 60-75 KSI MIN. YIELD AND NO more than 1/4" smaller than collar and spreader pin holes as MANUFACTURED BY EFFICIENCY PRODUCTION, INC.

CONTINUED ON REVERSE SIDE





CERTIFIED BY:

EFFICIENCY PRODUCTION INC.

01.30. 2013

COPYRIGHT:

1991 EFFICIENCY PRODUCTION INC.

ALL RIGHTS RESERVED

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

USE THIS PRODUCT ONLY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE OR LOCAL LAWS

ANY USE OF THIS PRODUCT NOT SPECIFICALLY DESCRIBED ON THIS CERTIFICATE COULD CAUSE IN CAVE-IN, COLLAPSE, OR STRUCTURAL FAILURE RESULTING IN DEATH OR SERIOUS INIURY