(980) 689-4389 18805 W Catawba - Corne	T /			shiel Ed da [.]		APPROVED CONTENT & FORMAT			
Model Number	TSB4-820	Spreader Size		8" Sch. 80	Pressure Rating	971 psf			
Serial Number	TSB4820-2011A	Spreader Yield Strength		35 ksi	Weight	10,000 lb.			
Height	8'	Max Spreader Length		20'	Vert. Pipe Clear	60"			
Length	20'	Spread	der Pin Diameter	2"	Horiz. Pipe Clear	17'-11"			
Wall Thickness	4"	Pin `	Yield Strength	100 ksi					
SOIL TYPE	Max Depth	Hs	Max Slope	Sloping & Shoring 1) "Max Depth" shall not exceed limits outlined in table for corresponding soil					
A-25	40'	10.5'	3/4(Horiz.): 1(Vert.)	types.					
B-45	24'	8.5'	1(Horiz.): 1(Vert.)	 2) If "Max Depth" is 20' or less, slope and shore per OSHA guidelines. 3) If "Max Depth" exceeds 20', slope angle shall not exceed "Max Slope", and distance from top of shield to top of slope shall not exceed "Hs", as outlined in 					
C-60	19'	6.5'	1.5(Horiz.): 1(Vert.)						
C-80	C-80 15' O' Flat table for corresponding soil types.								
Hs (Distance from top of	t	MAX SLOPE (33% Shoring Use Factor Included in Max Depth Ratings		Yes				
shield to top of slope)	HORIZONTAL PIPE CLEAR			Surcharge Pressure Included in Max Depth Ratings*		72 psf			
18" M			*All equipment and materials shall be kept a sufficient distance clear of the shoring, as directed by a licensed Professional Engineer, to ensure this surcharge limit is not exceeded.						
SPREADER (TYP) Soil shall be classified by a Competent Person as type A, B or C, as by OSHA regulations, except as noted below:									
VERTIC. PIPE CLEAF		SHIELD HEIGHT	MAX DEPTH	 A type C-60 soil is defined as a clay or moist granular soil that is not flowing or submerged. This soil can be cut vertically and will stand long enough to safely install protective system. 					
OPTIONAL BOTTOM SPREAD	ER	SEE NOTE #	¥2	 2) If the soil is submerged or has freely seeping water, it shall be classified as a C-80 soil. 3) Shielding shall never be used in soft clays, organic peat or other flowing 					
	NOTO			a) shielding shall never t materials.	e useu în sort clays, Organic	pear of other nowing			

NOTES & LIMITATIONS:

1) Refer to page 2 for manufacturer's assembly instructions.

2) Excavation 2' below bottom of shield is only permitted when there is no indication of possible loss of soil from behind or below the bottom of the shield.

3) Sloped soils must extend to no less than 18" below the top of the shield, as shown in diagram above. Shield need not extend above soil when soils are flat and level with top of shield.

4) Except as approved in table above (Hs), any excavations over 20'-deep with sloping require site specific approval by a Licensed Professional Engineer (P.E.).

5) User is responsible for safe support of shield to ensure it cannot shift vertically or horizontally at any time

6) Shield may be stacked, provided that appropriate connections are made between the stacked shields to prevent lateral movement.

7) Shield must be used in strict compliance with all applicable OSHA guidelines and limitations outlined in this document

8) This document has been prepared by a P.E., as required by OSHA 29 CRF, Part 1926, Subpart P.

9) Shield shall be used under the supervision and direction of a Competent Person as defined by CRF, Part 1926, Subpart P. Among other qualifications, the Competent Person shall be trained in the use of trench shields and have practical field experience with the use of shields, soil classification, and recognizing hazardous conditions.

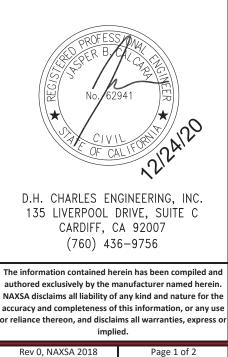
10) All spreaders shall be secured to sockets with pins or other mechanical connections approved by the manufacturer, prior to shield use. Do not apply side load or vertical load to the spreaders at any time (such as leaning plates/sheeting for soil support), unless approved in writing by a P.E. or the Manufacturer.

11) Shield shall be installed in a manner to restrict lateral or other hazardous movement of the shield in the event of the application of sudden lateral loads.

12) Shield shall be inspected prior to each use, to ensure they are in good condition and free of any damage or visual defects.

13) Any repairs or modifications to the shield, such as extending height or length with plates, are strictly prohibited, unless approved in writing by a P.E.

14) Pressure rating of shield is a uniform rectangular pressure over full height of shield.



WARNING - USE OF SHIELDING OTHER THAN OUTLINED IN THIS DOCUMENT COULD CAUSE FAILURE, COLLAPSE, OR CAVE-INS, AND MAY RESULT IN SERIOUS INJURY OR DEATH

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TRENC SHORI				Shield Ed Data				
(980) 689-4389 18805 W Catawba - Corne						APPROVED	O CONTENT & FORMAT	
Model Number	TSB4-820	Spreader Size		8" Sch. 80	Pressure	Rating	971 psf	
Serial Number	TSB4820-2011B	Spreader Yield Strength		35 ksi	Weight		10,000 lb.	
Height	8'	Max Spreader Length		20'	Vert. Pipe Clear		60"	
Length	20'	Spreader Pin Diameter		2"	Horiz. Pipe Clear		17'-11"	
Wall Thickness	4"	Pin Y	Yield Strength	100 ksi	100 ksi			
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	-	пъ		 "Max Depth" shall not e types. 	xceed limits outl	ined in table f	or corresponding soil	
A-25	40'	10.5'	3/4(Horiz.): 1(Vert.)	 2) If "Max Depth" is 20' or less, slope and shore per OSHA guidelines. 3) If "Max Depth" exceeds 20', slope angle shall not exceed "Max Slope", and distance from top of shield to top of slope shall not exceed "Hs", as outlined in table for corresponding soil types. 				
B-45 C-60	24' 19'	8.5' 6.5'	1(Horiz.): 1(Vert.) 1.5(Horiz.): 1(Vert.)					
C-80	15	0.5	Flat					
Hs (Distance from top of	33% Shoring Use Factor Included in Max Depth Ratings		Yes					
shield to top of slope)	HORIZONTAL	WIDTH (W)		Surcharge Pressure Included in Max Depth Ratings*		in	72 psf	
18" M SPREADER (TYP)			*All equipment and materials shall be kept a sufficient distance clear of the shoring, as directed by a licensed Professional Engineer, to ensure this surcharge limit is not exceeded.					
			Soil shall be classified by a Competent Person as type A, B or C, as defined by OSHA regulations, except as noted below:					
VERŤIC. PIPE CLEAF		SHIELD HEIGHT	MAX DEPTH	 A type C-60 soil is defined as a clay or moist granular soil that is not flowing or submerged. This soil can be cut vertically and will stand long enough to safely install protective system. 				
OPTIONAL BOTTOM SPREAD		2	2) If the soil is submerged or has freely seeping water, it shall be classified as a C-80 soil.					
OFTIONAL BUTTOM SPREADE		SEE NOTE #	2	 Shielding shall never be used in soft clays, organic peat or other flowing materials. 				

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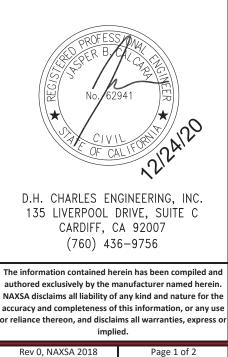
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