9. NOT TYPE A IF FISSURED, SUBJECT TO VIBRATION, PREVIOUSLY DISTURBED OR PART OF A SLOPED LAYERED SYSTEM WHERE LAYERS DIP INTO EXCAVATION ON A SLOP OF FOUR HORIZONTAL TO ONE VERTICAL (4H:1V) OR GREATER.

10. PREVIOUSLY DISTURBED SOILS MAY BE TYPE B UNLESS THEY WOULD BE CLASSIFIED AS TYPE C SOIL THAT MEETS THE REQUIREMENTS OF TYPE A, BUT IT IS SUBJECT TO VIBRATION OR FISSURED MAY BE TYPE B. DRY ROCK THAT IS NOT STABLE OR SOIL THAT IS PART OF A SLOPED, LAYERED SYSTEM WHERE LAYERS DIP INTO THE EXCAVATION ON A SLOP LESS STEEP THAN FOUR HORIZONTAL TO ONE VERTICAL (4H:1V) ARE TYPE B BUT ONLY IF MATERIAL WOULD OTHERWISE BE CLASSIFIED AS TYPE B.


12. ANY USE OF A TRENCH SHIELD WITHOUT EFFICIENCY SPREADERS AND PINS OR EQUAL WILL VOID THE TABULATED DATA AND WARRANTY.

13. SHIELD WAS DESIGNED TO BE USED WITHOUT PLATES EXTENDING BELOW, ABOVE, OR NEXT TO IT. ANY USE OF SUCH PLATES OR PANELS MAY VOID THE TABULATED DATA AND MAY REQUIRE SITE SPECIFIC ENGINEERING.

14. TRENCH SHIELDS ARE DESIGNED TO BE PUSHED TO GRADE IF NECESSARY. AS NOTED BELOW, ANY UNNECESSARY ABUSE BY THE EXCAVATOR AND OR OPERATOR (SUCH AS POUNDING WITH THE BUCKET) WILL VOID THE TABULATED DATA AS WELL AS THE WARRANTY.

15. CONDITION OF SHIELD, SPREADER PIPES, AND SPREADER PINS MUST BE CHECKED/INSPECTED FOR SERVICEABILITY BY THE COMPETENT PERSON PRIOR TO EACH USE. PSF RATING IS NOT VALID IF THERE IS ANY VISIBLE DAMAGE TO, OR REPAIRS MADE TO THE SHIELD THAT HAVE NOT BEEN DOCUMENTS AND CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER.

16. DEPTH AND PSF RATING ARE FOR LATERAL EARTH PRESSURES ONLY AND DO NOT TAKE ANY SURCHARGES INTO ACCOUNT.

**ASSEMBLY**

**MUDPLATE SPREADERS SYSTEM**

- LAY SIDE PANEL FLAT ON GROUND WITH COLLAR SOCKETS UP

**5 PIPE SPREADER SYSTEM**

- PLACE SPREADER PIPE AND/OR PLATE ON TO COLLARS OR INTO BRACKETS AND PIN IN PLACE.
- SECURE PINS WITH KEEPERS

**LOWER SECOND SIDEWALL ONTO SPREADERS AND PIN**

**STAND TRENCH SHIELD IN UPRIGHT POSITION AND PREPARE FOR INSTALLATION**

**USING A TRENCH SHIELD IN STABLE SOIL**

- EXCAVATE TO GRADE JUST SLIGHTLY WIDER THAN THE TRENCH SHIELD.
- DIG WALLS VERTICAL TO MINIMUM OF 18” BELOW THE TOP OF THE SHIELD. SLOPE SOILS ABOVE SHIELD ACCORDING TO MANUFACTURERS TABULATED DATA. INSTALL SHIELD IN TRENCH.

**USING A TRENCH SHIELD IN UNSTABLE SOIL**

- EXCAVATE UNTIL SOIL BEGINS TO CRUMBLE BEYOND DEIRED TRENCH WIDTH. PLACE SHIELD IN LINE OF EXCAVATION

- PRESS DOWN ON CORNERS TO PUSH SHIELD DOWN TO GRADE

- PULL SHIELD FORWARD AND UP ON APPROPRIATE ANGLE

- EXCAVATE SOIL WITHIN THE SHIELD AND REPEAT PREVIOUS PROCESS

**USING TRENCH SHIELDS FOR PATCHWORK, REPAIRS OR TIE-INS**

- *CENTER SHIELD OVER WORK AREA*
- *LAY SOIL AT ENDS BACK ACCORDING TO MANUFACTURER'S TABULATED DATA OR USE MANUFACTURER'S DESIGNED PLATES TO PROTECT FROM CAVE-INS*

*THIS MATERIAL IS INTENDED TO PROVIDE BASIC ASSEMBLY AND INSTALLATION INFORMATION ONLY.
*ALWAYS USE TRENCH SHIELD IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY LAWS AND REGULATIONS.
*FAILURE TO DO SO COULD CAUSE SEVERE INJURY OR DEATH.