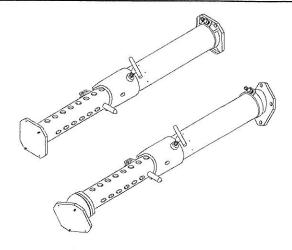
# AirSnore Standard/Swivel Pnuematic Struts Tabulated Data For Use in Excavations



AIRSHORE STANDARD PNEUMATIC STRUT					
LENGTH (FT)		CAPACITY (LBS)*			
Size (in)	Size (FT)	1 PIN			
21-28	2	15,000 LB			
26-37	2 to 3	15,000 LB			
33-49	3 to 4	15,000 LB			
45-67	4 to 5.5	12,500 LB			
63-97	5 to 8	12,500 LB			
93-144	8 to 12	10,000 LB			
114-198	10 to 12	10,000 LB			
114-198	12 to 14	10,000 LB			
114-198	14 to 16	2,500 LB			

Factor of Safety Is 2:1

TABLE 1-MAXIMUM ALLOWABLE SPACING						
Soil Type	Trench Depth (FT)	Trench Width (FT) (FT)	Horizontal Spacing (FT) 1 Pin	Vertical Spacing (FT) (FT)		
A-25	4 to 10	to 6 6 to 12 12 to 16	8 8 5	4 4 4		
	10 to 15	to 6 6 to 12 12 to 16	8 6 3	4 4 4		
	15 to 20	to 6 6 to 12 12 to 16	6 5 1	4 4 4		
B-45	4 to 10	to 6 6 to 12 12 to 16	8 6 2	4 4 4		
	10 to 15	to 6 6 to 12 12 to 16	6 4 2	4 4 3		
	15 to 20	to 6 6 to 12 12 to 16	4 3 1	4 4 2		
C-60	4 to 10	to 6 6 to 12 12 to 16	6 4 2	4 4 3		
	10 to 15	to 6 6 to 12 12 to 16	4 0 0	4 4 2		
	15 to 20	to 6 6 to 12 12 to 16	0 0 0	4 4 0		



#### NOTES:

- 1) Soil type to be determined by competent person.
- 2) Charts are based on soil types as defined in OSHA, CFR 29, Sub Part P, March 1996.
- 3) Type C-60 soil is defined as C soil that will stand long enough for shores to be installed. In C-80 soil the shores cannot be installed because the soil will fall in before it is shored.
- 4) The AirShore strut should be used against 3/4" Fin Form plywood, or a minimum 6" wide x 18" long spot shore.
- 5) In C-60, 3/4" high density Fin Form plywood shall be used in all cases to prevent sloughing and raveling.
- 6) in all soils sheeting should be used to prevent sloughing or raveling if it occurs.
- 7) Spot shore rails may be set horizontal or vertical
- 8) Shores may be used with swivel heads to 30 degres maximum.



DATE REVISED JOB NO: Sheet # 8/7/1998 12138-1 1 of 2

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### **Installation Procedure**

- 1) Soil must first be classified by a competent person in accordance with OSHA appendix A.
- 2) Tabulated Data allows for a 200 PSF surcharge load. Move surcharge away from excavation or space shores closer together to allow for larger surcharge loads.
- 3) Inspect equipment to be sure that it is in proper working order.
- 4) Struts are to be placed and pressurized from outside the trench or from within a shored area. Under no circumstances is a worker allowed to enter an unshored area.
- 5) Pressurize struts to the min recommended pressure.
- 6) There should be a minimum of three columns of shoring in excavations over 10 ft long and two columns if it is less than 10 ft long. Shoring columns shall be spaced in accordance with the tabulated data.
- 7) Plywood or lagging is to be used to prevent sloughing and raveling. In all cases where sloughing or raveling occur it must be used. In soil types A & B the sheeting may be spaced as needed to stop the sloughing and raveling. In C-60 Soil Plywood sheeting must always be used.

### REMOVAL PROCEDURE

- 1) Shores are to be removed from the bottom of the trench up. Workers should be outside the trench or inside shored areas when removing shoring.
- 2) Previously shored trenches are more prone to collapse and should be backfilled or barricaded to prevent workers or equipment from falling into the trench if it collapses.



	DATE	REVISED	JOB NO:	Sheet #
	8/11/1998		12138-1	2 of 2
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