HURST JAWS OF LIFE® AIRSHORE
711 North Post Rd Shelby, NC 28150
704-487-6961 800-537-2659

Airshore Rescue Strut

Tabulated Data for Use in Excavations

AIRSHORE PNEUMATIC RESCUE STRUT			
LENGTH		CAPACITY (lbs) **	
SIZE (inch)	SIZE (feet)	2 PINS	1 PIN
13-18	1 to 1 1/2	30,000 lbs	19,000 lbs
21-28	2	30,000 lbs	19,000 lbs
26-37	2 to 3	30,000 lbs	19,000 lbs
33-49	3 to 4	30,000 lbs	19,000 lbs
45-67	4 to 5 1/2	25,000 lbs	19,000 lbs
54-84	4 1/2 to 7	25,000 lbs	19,000 lbs
63-97	5 to 8	25,000 lbs	19,000 lbs
84-132	7 to 11	20,000 lbs	14,000 lbs
93-144	8 to 12	20,000 lbs	14,000 lbs

** **Safety Factor is 2:1**

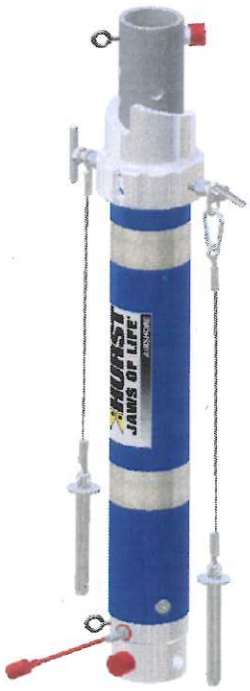

TABLE 1 MAXIMUM ALLOWABLE SPACING*					
SOIL TYPE	TRENCH DEPTH	TRENCH WIDTH	HORZ. SPACING 2 PINS	HORZ. SPACING 1 PIN	VERT. SPACING
A-25	4 to 10	to 6	8	8	4
		6 to 12	8	8	4
		12 to 16	5	5	4
	10 to 15	to 6	8	8	4
		6 to 12	8	6	4
		12 to 16	3	3	4
	15 to 20	to 6	8	6	4
		6 to 12	6	5	4
		12 to 16	2	1	4
B-45	4 to 10	to 6	8	8	4
		6 to 12	8	6	4
		12 to 16	3	2	4
	10 to 15	to 6	7	6	4
		6 to 12	6	4	4
		12 to 16	3	2	3
	15 to 20	to 6	5	4	4
		6 to 12	5	3	4
		12 to 16	2	2	3
C-60	4 to 10	to 6	8	6	4
		6 to 12	6	4	4
		12 to 16	3	2	3
	10 to 15	to 6	5	4	4
		6 to 12	4	4	4
		12 to 16	2	2	2
	15 to 20	to 6	4	4	4
		6 to 12	3	3	4

* All data is shown in FEET

NOTES:

1. Soil type to be determined by a 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 Rescue Strut should be used against timber lagging, plywood or a minimum 6" wide by 18" long spot shore rail.
5. In C-60 soil 3/4" Finn-Form plywood or timber lagging 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. All Airshore Resue Strut attachments may be used with this shore at the capacities listed.

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DATE	REVISED	JOB NO:	SHEET #
9/7/1998	3/13/2012	13088-1	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 lb/ft^2 surcharge load. Move surcharge away from excavation or space shores closer together to allow for larger surcharge loads.
3. Inspect equipment to ensure it is in proper working order.
4. Struts are to be placed and pressurized from outside of 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 minimum recommended pressure.
6. There should be a minimum of three columns of shoring in excavations over 10 feet long and two columns if it is less than ten feet long. Shoring columns shall be spaced in accordance with the tabulated data found in TABLE 1.
7. Plywood or lagging is to be used to prevent sloughing and raveling. In all cases where sloughing or raveling occurs 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 of the trench or inside of 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.

REGISTERED PROFESSIONAL ENGINEER
ADRIANUS J. VERMEULEN
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