

# AirShore

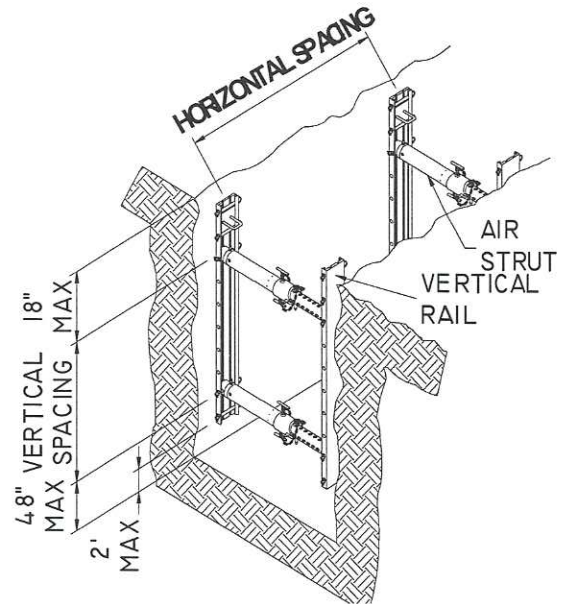
## Tabulated Data For Use In Excavations

### Vertical Shores



Light Duty Rails		Spot Shore	
Rail Length (FT)	Airshore Struts (Total)	Rail Length (FT)	Airshore Struts (Total)
5 FT	2	1.5	1
7 FT	2		

Heavy Duty Rails		Raker Rails	
Rail Length (FT)	Airshore Struts (Total)	Rail Length (FT)	Airshore Struts (Total)
2 FT	1		
4 FT	1		
6 FT	2	6 FT	2
8 FT	2	8 FT	2
10 FT	3	10 FT	3
12 FT	3	12 FT	3
16 FT	4	16 FT	4



Soil Type A-25 Vertical Shore Installation Data				(See sheet 2 for notes)
Depth of Excavation (FT)	Vertical Spacing (Ft)	Horizontal Spacing (FT)	Trench Width (FT)	Sheeting-3/4" FinForm,
0 to 10	4	8	15	For sloughing & raveling only
10 to 15	4	8	15	For sloughing & raveling only
15 to 20	4	3	12	For sloughing & raveling only
20 to 25	4	2	8	For sloughing & raveling only

Soil Type B-45 Vertical Shore Installation Data				(See sheet 2 for notes)
Depth of Excavation (FT)	Vertical Spacing (Ft)	Horizontal Spacing (FT)	Trench Width (FT)	Sheeting-3/4" FinForm,
0 to 10	4	8	12	For sloughing & raveling only
10 to 15	4	6	12	For sloughing & raveling only
15 to 20	4	3	12	For sloughing & raveling only
20 to 25	4	2	8	For sloughing & raveling only

Soil Type C-60 Vertical Shore Installation Data				(See sheet 2 for notes)
Depth of Excavation (FT)	Vertical Spacing (Ft)	Horizontal Spacing (FT)	Trench Width (FT)	Sheeting-3/4" FinForm,
0 to 10	4	6	12	For sloughing & raveling only
10 to 15	4	4	12	Always required
15 to 20	4	3	8	Always required
20 to 25				



DATE	REVISD	
9/11/1998	3/13/2012	JOB NO. 10038-1 Sht 1 of 2

# AirShore

## Tabulated Data For Use In Excavations

### Vertical Shores



#### Notes:

- 1) Soil Type and shoring configuration to be determined by competent person.
- 2) Spacing charts are based on soil types as defined in OSHA, CFR 29 Subpart P, March 1996, Appendix A.
- 3) Sheeting is to be 3/4" thick 14 ply Fin-Form. Sheeting is required to prevent raveling & sloughing and is required in all cases in C-60 soil below 10 ft.
- 4) Type C-60 soil is defined as C-soil that will stand up long enough for the shores to be installed.
- 5) There must be at least 3 columns of shores in a trench 10 ft and longer and at least 2 columns in trenches less than 10 ft long.
- 6) Spacing charts allow for surcharge loading from equipment weighing 40,000 lbs or less, and traffic allowed no closer than 2 ft from the edge of the trench. For larger surcharge loads shore spacing shall be reduced or surcharge loads shall be kept farther away from the edges.
- 7) No vertical loads are to be applied to the shores.
- 8) Trench walls should be straight and within 20 degrees of vertical. There should not be voids behind the shore struts. Wood blocking may be used to fill voids behind struts.
- 9) Trenches less than 5 ft deep may require shoring.
- 10) Shore rail sections may be stacked and used in any combinations provided that there is no more than 4 ft spacing between struts.

#### Installation Procedures

- 1) Complete the excavation and immediately install the system.
- 2) Connect the air supply to the airshore struts
- 3) Suspend the shore at the intended location.
- 4) Pressurize the system and install the pins to secure the collar of the top airshore strut. Repeat the procedure progressing to next lower strut.

#### Removal Procedures

- 1) Reconnect the air supply and pressurize the system.
- 2) Remove pins and starting at the lowest strut and moving upward.
- 3) Lift the system out using appropriate lifting equipment.



DATE  
9/11/1998

REVISED  
3/13/2012

JOB NO: 13088-1  
Sht 2 of 2