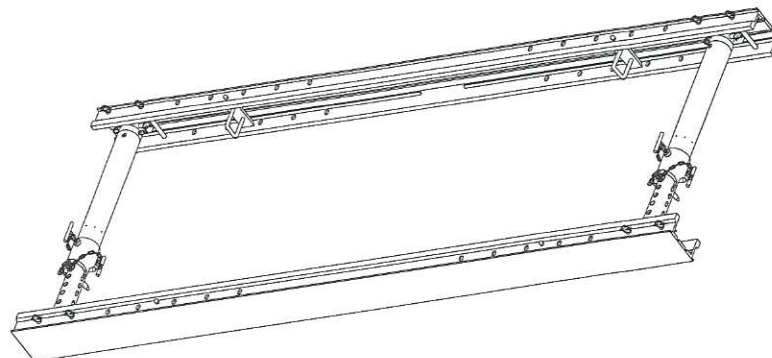
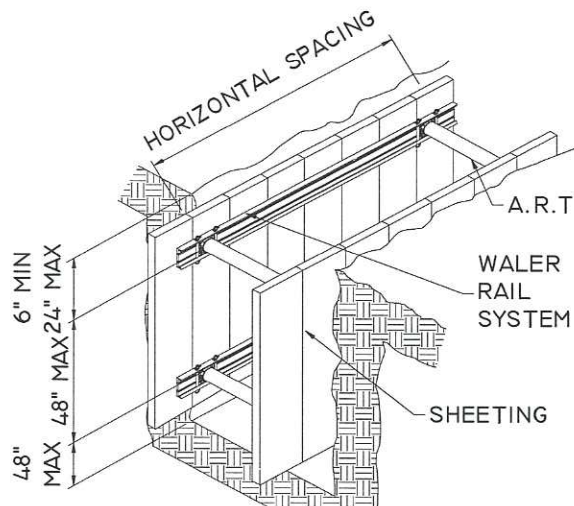


AirShore

Tabulated Data For Use in Excavations



WALER RAIL SYSTEM-8 FT, 10 FT & 12 FT Heavy Duty



WALER RAIL SYSTEM

Recommended strut pressures (min.)

TYPE A & B		TYPE C	
4 to 20 ft	116 PSI	4 to 20ft	116 PSI

Soil Type C-60 Installation Data

Trench Depth (Ft)	Vertical Spacing (FT)	Waler Length (FT)	Horizontal Cylinder Spacing (FT)	Allowable Trench Width (FT)
To 10	4	8' Heavy Duty	7.5	12
		10' Heavy Duty	8	12
		12' Heavy Duty	8	12
10 to 15	4	8' Heavy Duty	7.5	12
		10' Heavy Duty	8	12
		12' Heavy Duty	8	12
15 to 20	4	8' Heavy Duty	7	12
		10' Heavy Duty	8	10
		12' Heavy Duty	8	8

Soil Type C-80 Installation Data

Trench Depth (Ft)	Vertical Spacing (FT)	Waler Length (FT)	Horizontal Cylinder Spacing (FT)	Allowable Trench Width (FT)
To 10	4	8' Heavy Duty	7.5	12
		10' Heavy Duty	8	12
		12' Heavy Duty	8	12
10 to 15	4	8' Heavy Duty	7.5	12
		10' Heavy Duty	8	10
		12' Heavy Duty	8	8
15 to 20	4	8' Heavy Duty	6.5	10
		10' Heavy Duty	7	8
		12' Heavy Duty	7*	8

* NOTE: TWO PINS ARE REQUIRED



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AirShore

Tabulated Data For Use In Excavations

Waler Rail System



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 2" thick timber lagging, or 1" thick steel plate. Sheeting is required in all cases.
- 4) Type C-60 soil is defined as C-soil that will stand up long enough for the shores to be installed.
- 5) 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.
- 6) No vertical loads are to be applied to the shores.
- 7) 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.
- 8) Trenches less than 5 ft deep may require shoring.
- 9) 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 starting at the lowest strut and moving upward.
- 3) Lift the system out using appropriate lifting equipment.



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