

**TABLE D - 1.3
ALUMINUM HYDRAULIC SHORING
WALER SYSTEMS
FOR SOIL TYPE B**

DEPTH OF TRENCH (FEET)	WALES		HYDRAULIC CYLINDERS						TIMBER UPRIGHTS				
	VERTICAL SPACING (FEET)	SECTION MODULUS (IN ³)	WIDTH OF TRENCH (FEET)						MAX. HORIZ. SPACING (ON CENTER)	2 FT.	3 FT.		
			UP TO 8	OVER 8 UP TO 12	OVER 12 UP TO 15	CYLINDER DIAMETER		SOLID SHEET					
			HORIZ. SPACING	CYLINDER DIAMETER	HORIZ. SPACING	CYLINDER DIAMETER	HORIZ. SPACING	CYLINDER DIAMETER					
OVER 5 UP TO 10	4	3.5	8.0	2 IN	8.0	2 IN	NOTE(2)	8.0	3 IN	—	—	3x12	
		7.0	9.0	2 IN	9.0	NOTE(2)	9.0	3 IN	3 IN				
		14.0	12.0	3 IN	12.0	3 IN	12.0	3 IN	3 IN				
OVER 10 UP TO 15	4	3.5	6.0	2 IN	6.0	NOTE(2)	6.0	3 IN	—	—	3x12	—	
		7.0	8.0	3 IN	8.0	3 IN	8.0	3 IN					3 IN
		14.0	10.0	3 IN	10.0	3 IN	10.0	3 IN					3 IN
OVER 15 UP TO 20	4	3.5	5.5	2 IN	5.5	NOTE(2)	5.5	3 IN	—	—	3x12	—	
		7.0	6.0	3 IN	6.0	3 IN	6.0	3 IN					3 IN
		14.0	9.0	3 IN	9.0	3 IN	9.0	3 IN					3 IN
OVER 20	NOTE (1)												

Footnotes to tables, and general notes on hydraulic shoring, are found in Appendix D, Item (g).

Notes (1): See Appendix D, item (g) (1)

Notes (2): See Appendix D, Item (g) (2)

* Consult product manufacturer and/or qualified engineer for Section Modulus of available wales.