

STEEL SPIRAL RIB PIPE 3/4" WIDE X 3/4" DEEP RIBS SPACED @ 7/2"

PIPE DIAMETER (IN.)	AREA (SQ. FT.)	MAXIMUM HEIGHT OF COVER LIMITS IN FEET						MINIMUM SHEET THICKNESS FOR ENTRANCES WITH LESS THAN 1 FOOT COVER
		SHEET THICKNESS IN INCHES (GAUGE)						
		.064 (16)		.079 (14)		.109 (12)		
		CIRCULAR	ELONGATED	CIRCULAR	ELONGATED	CIRCULAR	ELONGATED	
12	0.8	159						.064
15	1.2	115						.064
18	1.8	74		92		130		.064
21	2.4	53	106	64	129	88		.079
24	3.1	41	82	48	97	65	130	.109
27	4.0	34	68	39	78	50	101	
30	4.9	29	58	33	66	41	83	
36	7.1	24	48	26	52	31	62	
42	9.6	21	43	23	46	26	52	
48	12.6	20	40	21	42	23	46	
54	16.0	19	38	19	39	21	42	
60	19.6	18	37	19	38	20	40	
66	23.8			18	37	19	38	
72	28.3			18	36	18	37	
78	33.2					18	36	
84	38.6					18	36	

Notes:

Cover heights indicated in tables are for finished construction.

To protect pipe during construction, minimum height of cover to be as follows prior to allowing construction traffic to cross installation.

Pipe Diameter	Min. Cover Height * During Construction
12" to 30"	1'-6"
36" and above	$\frac{\text{Dia.}}{2}$

Minimum finished height of cover to be $\frac{\text{Dia.}}{4}$ or 1'-0", whichever is greater except pipe under entrances and median crossovers where a 9" minimum will be permitted for pipe up to 24" diameter in which case the tabulated minimum sheet thickness for entrances with less than 1 ft. cover shall be used.

* The cover shall extend the full length of the pipe. The approach fill is to extend a minimum of $(10)(\text{Dia.} + \frac{1}{2}\text{Dia.})$ on each side of the structure, or to the intersection with a cut.

Allowable cover heights, as indicated in the table to the left, in excess of 100' are to be considered as special design installations and will require detailed foundation determination.

For details of elongated pipe see sheet 17 of 17.

The allowable cover tables shown are based on a soil modulus of 700 PSI. All other design criteria are in accordance with the AASHTO Specifications and VDOT Modifications for Soil Corrugated Metal Structure Interaction Systems.

Note:

A Maximum Height of Cover Table for Steel Spiral Rib Pipe with 3/4" wide X 1" deep ribs spaced at 1 1/2" is available upon request.

STEEL SPIRAL RIB PIPE
HEIGHT OF COVER TABLE FOR H-20 LIVE LOAD

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE

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