

**CORRUGATED ALUMINUM ALLOY PIPE - 2 2/3" x 1/2" CORRUGATIONS**

PIPE DIAMETER (IN.)	AREA (SQ. FT.)	MAXIMUM HEIGHT OF COVER LIMITS IN FEET									
		SHEET THICKNESS IN INCHES									
		.060 (16)		.075 (14)		.105 (12)		.135 (10)		.164 (8)	
		CIRCULAR	ELONGATED	CIRCULAR	ELONGATED	CIRCULAR	ELONGATED	CIRCULAR	ELONGATED	CIRCULAR	ELONGATED
12	0.8	50		50		80	86	90		93	
15	1.2	35	40	39	40	49	69	60	72	71	74
18	1.8	27	33	30	33	35	57	41	60	48	62
21	2.4	23	28	25	28	28	49	32	51	36	53
24	3.1	21	25	22	25	25	43	27	45	30	46
27	4.0	20	22	20	22	22	38	24	40	26	41
30	4.9	19	20	19	20	21	34	22	36	23	37
33	5.9	18		18		20	31	21	32	22	33
36	7.1	16		16		19	28	20	30	21	31
42	9.6	17	18	18	24	18	34	19	38	19	39
48	12.6					18	23	18	30	18	37
54	15.9					16		18	21	18	27
60	19.6							15		17	19
66	23.8									14	
72	28.3									11	

MINIMUM SHEET THICKNESS FOR ENTRANCES WITH LESS THAN 1 FOOT COVER

**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 24"	1'-6"
30" and over	Equal to Diameter

**CORRUGATED ALUMINUM ALLOY PIPE - 3" X 1" CORRUGATIONS**

PIPE DIAMETER (IN.)	AREA (SQ. FT.)	MAXIMUM HEIGHT OF COVER LIMITS IN FEET									
		SHEET THICKNESS IN INCHES (GAUGE)									
		.060 (16)		.075 (14)		.105 (12)		.135 (10)		.164 (8)	
		CIRCULAR	ELONGATED	CIRCULAR	ELONGATED	CIRCULAR	ELONGATED	CIRCULAR	ELONGATED	CIRCULAR	ELONGATED
36	7.1	23	30	24	37	27	51	30	61	34	68
42	9.6	20	26	21	32	23	44	25	51	27	55
48	12.6	19	22	20	28	21	38	22	45	24	48
54	16.0	18	20	19	25	20	34	21	42	22	44
60	19.6	18		18	22	19	31	20	40	20	41
66	23.8			18	20	18	28	19	38	19	39
72	28.3			18		18	25	18	37	19	38
78	33.2			17		18	23	18	31	18	37
84	38.5					17	19	18	25	18	31
90	44.2					15		17	20	18	25
96	50.3					12		16		17	21
102	56.7							14		17	
108	63.6							11		14	
114	70.9									12	
120	78.5									10	

Minimum finished height of cover to be Dia./8 or 1'-0", whichever is greater except pipe under entrances and median crossovers where a 9" minimum will be permitted for pipe up to 18" diameter in which case the tabulated minimum thickness for entrances with less than 1 ft. cover shall be used.

\* The cover shall extend the full length of the pipe culvert. The minimum of 20 Diameters on each approach fill ramp is to extend a side of the culvert, or to the intersection with a cut.

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.

**CORRUGATED ALUMINUM ALLOY PIPE  
 HEIGHT OF COVER TABLE FOR H-20 LIVE LOAD**