

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

PIPE DIAMETER INCHES	AREA SQ. FT.	MAXIMUM HEIGHT OF COVER IN FEET					MINIMUM SHEET THICKNESS FOR ENTRANCE PIPES WITH LESS THAN 1 FT. COVER
		SHEET THICKNESS IN INCHES (GAUGE)					
		0.060 (16)	0.075 (14)	0.105 (12)	0.135 (10)	0.164 (8)	
12	0.8	18	50	80	90	93	0.060
15	1.2	18	39	49	60	71	0.105
18	1.8	18	30	35	41	48	0.135
21	2.4	18	25	28	32	36	
24	3.1	17	22	25	27	30	
27	4.0	17	20	22	24	26	
30	4.9	17	19	21	22	23	
33	5.9	17	18	20	21	22	
36	7.1	16	16	19	20	21	
42	9.6	16	18	18	19	19	
48	12.6			18	18	18	
54	15.9			16	18	18	
60	19.6				15	17	
66	23.8					14	
72	28.3					11	

CORRUGATED ALUMINUM ALLOY PIPE- 3" x 1" CORRUGATIONS

PIPE DIAMETER INCHES	AREA SQ. FT.	MAXIMUM HEIGHT OF COVER IN FEET				
		SHEET THICKNESS IN INCHES (GAUGE)				
		0.60 (16)	0.75 (14)	0.105 (12)	0.35 (10)	0.164 (8)
36	7.1	16	24	27	30	34
42	9.6	16	21	23	25	27
48	12.6	15	20	21	22	24
54	16.0	15	19	20	21	22
60	19.6	14	18	19	20	20
66	23.8		18	18	19	19
72	28.3		18	18	18	19
78	33.2		17	18	18	18
84	38.5			17	18	18
90	44.2			15	17	18
96	50.3			12	16	17
102	56.7				14	17
108	63.6				11	14
114	70.9					12
120	78.5					10

NOTES:

- COVER HEIGHTS INDICATED IN TABLES ARE FOR FINISHED CONSTRUCTION.
- TO PROTECT PIPE DURING CONSTRUCTION, MINIMUM HEIGHT OF COVER TO BE IN ACCORDANCE WITH TABLE A PRIOR TO ALLOWING CONSTRUCTION TRAFFIC TO CROSS INSTALLATION. THE COVER SHALL EXTEND THE FULL LENGTH OF THE PIPE. THE APPROACH FILL RAMP IS TO EXTEND A MINIMUM OF 20 DIAMETERS ON EACH SIDE OF THE PIPE, OR TO THE INTERSECTION WITH A CUT.
- STANDARD MINIMUM FINISHED HEIGHT OF COVER FOR ALL PIPES, EXCEPT THOSE UNDER ENTRANCES, SHALL BE 2.0' OR 1/2 DIAMETER, WHICHEVER IS GREATER. IN CASES IN WHICH THESE COVER HEIGHTS CANNOT BE ACHIEVED, AN ABSOLUTE MINIMUM FINISHED COVER HEIGHT OF 1.0' OR 1/8 DIAMETER, WHICHEVER IS GREATER, WILL BE ALLOWED ONLY IF ALL POSSIBLE MEANS TO OBTAIN THE STANDARD VALUE HAVE BEEN EXHAUSTED. THE MINIMUM FINISHED HEIGHT OF COVER FOR PIPES UNDER ENTRANCES IS 9" FOR PIPE DIAMETERS EQUAL TO OR LESS THAN 18" AND 12" OR 1/8 DIAMETER, WHICHEVER IS GREATER, FOR PIPE DIAMETERS GREATER THAN 18".
- 16 GAUGE PIPE LIMITED TO THOSE LOCATIONS WHERE PIPE DIAMETER PLUS COVER IS LESS THAN 20'.
- THE MAXIMUM HEIGHT OF COVER SHOWN IN THE TABLES IS 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.
- SEE STANDARD PB-1 FOR PIPE BEDDING AND BACKFILL REQUIREMENTS.

TABLE A

PIPE DIAMETER	MINIMUM COVER HEIGHT DURING CONSTRUCTION (SEE NOTE 2)
12" TO 24"	18"
30" AND OVER	EQUAL TO DIAMETER

SPECIFICATION REFERENCE

232
302

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

VIRGINIA DEPARTMENT OF TRANSPORTATION



ROAD AND BRIDGE STANDARDS

REVISION DATE

SHEET 4 OF 18

107.08