

ROADWAY DESIGN MANUAL  
TABLES 7 & 7A

PART 1

CORRUGATED ALUMINUM PIPE  
3" X 1" CORRUGATION  
MAXIMUM HEIGHT OF COVER LIMITS IN FEET

5 - 7

SIZE	AREA	MINIMUM COVER	THICKNESS IN INCHES							
			.075		.105		.135		.164	
			CIR.	EL.	CIR.	EL.	CIR.	EL.	CIR.	EL.
36	7.1	1	24	37	27	51	30	61	34	68
42	9.6	1			23	44	25	51	27	55
48	12.6	1			21	38	22	45	24	48
54	15.9	1			20	34	21	42	22	44
60	19.6	1			19	31	20	40	20	41
66	23.8	1			18	28	19	38	19	39
72	28.3	1			18	25	18	37	19	38
78	33.0	1			18	23	18	31	18	37
84	38.0	1.5			17	19	18	25	18	31
90	44.0	1.5			15		17	20	18	25
96	50.0	1.5			12		16		17	21
102	57.0	2					14		17	
108	64.0	2					11		14	
114	71.0	2							12	
120	78.0	2							10	

SEE ROADWAY STANDARDS, STANDARD NO. 300.02

CORRUGATED STEEL PIPE - HEIGHT OF FILL LIMITATIONS  
3" X 1" CORRUGATIONS  
RIVETED, WELDED, OR HELICAL FABRICATION

5 - 7A

SIZE	MINIMUM FILL OVER TOP	0.079" (14 GAGE)		0.109" (12 GAGE)		0.138" (10 GAGE)		0.168" (8 GAGE)	
		CIR.	EL.	CIR.	EL.	CIR.	EL.	CIR.	EL.
36	1	47	60	58	88	70	106	82	118
42	1			44	76	51	91	59	101
48	1			36	66	41	80	46	88
54	1			31	59	35	71	38	76
60	1			28	58	31	62	33	66
66	1			26	48	30	58	32	64
72	1			25	44	28	56	30	60
78	1			24	41	26	52	28	56
84	1.5			22	36	24	46	28	56
90	1.5			20	33	22	43	26	53
96	1.5			17	31	20	40	25	49
102	2.0					19	38	23	46
108	2.0					18	35	21	42
114	2.0					16	32	19	38
120	2.0					15	29	18	36

Note: With method "B" installation, fill heights may be increased by 50%.  
See Roadway Standards, Std. No. 300.02

REV. DATE 5/28/93