

CONCRETE PIPE CULVERT CRUSHING STRENGTH (LBS. PER LIN. FT. ULTIMATE STRENGTH, OR CLASS)

DIAMETER (IN.)	AREA (SQ. FT.)	METHOD A BEDDING				DIAMETER (IN.)
		MAXIMUM HEIGHT OF COVER IN FEET				
		STRENGTH OR CLASS				
		NON REINF.	III	IV	V	
12	0.8	1800 (14')	14'	19'	29'	12
15	1.2	2125 (14')	14'	19'	29'	15
18	1.8	2400 (14')	14'	20'	29'	18
21	2.4	2700 (13')	14'	20'	29'	21
24	3.1	3000 (13')	14'	20'	29'	24
27	4.0		14'	20'	29'	27
30	4.9		14'	20'	29'	30
33	5.9		14'	20'	29'	33
36	7.1		14'	20'	30'	36
42	9.6		14'	21'	30'	42
48	12.6		14'	21'	30'	48
54	15.9		14'	21'	30'	54
60	19.6		14'	21'	30'	60
66	23.8		14'	21'	30'	66
72	28.3		14'	21'	30'	72
78	33.2		14'	21'	30'	78
84	38.5		14'	21'	30'	84
90	44.4		14'	21'	30'	90
96	50.3		14'	21'	30'	96
102	56.7		14'	21'	30'	102
108	63.6		14'	21'	30'	108

Heights of cover shown in table are for finished construction.

To protect pipe during construction, minimum heights of cover prior to allowing construction traffic to cross installation are to be 2' or 3.0' whichever is greater. This cover shall extend the full length of the pipe culvert. The approach fill ramp is to extend a minimum of 10(Dia.+3') on each side of the culvert, or to the intersection with a cut.

Minimum finished height of cover to be $\frac{Dia}{2}$ or 2.0' whichever is greater, except pipe under entrances and median crossovers where a 9" min. will be permitted.

SPECIFICATION
REFERENCE

302
232

**CONCRETE PIPE
CLASS TABLE FOR H-20 LIVE LOAD**
VIRGINIA DEPARTMENT OF TRANSPORTATION