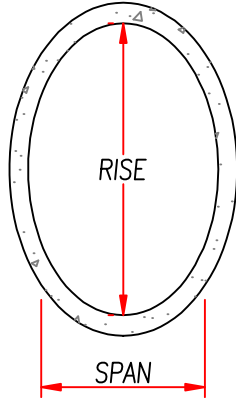


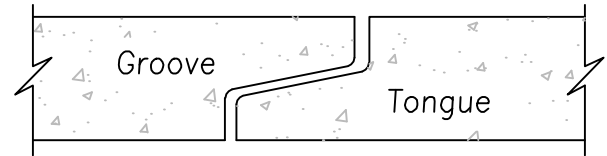
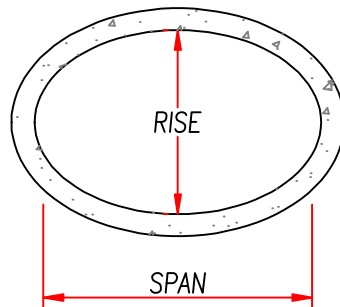
STANDARD ELLIPTICAL PIPE

Tounge and Groove
 ASTM C507
 AASHTO M207

VE (HEAVY LOADING)



HE (LIMITED HEAD ROOM)




TYPICAL JOINT CROSS SECTION

CLASS	VE-II	VE-III	VE-IV	VE-V	VE-VI
D-Load (0.01 in. crack)	1,000	1,350	2,000	3,000	4,000
D-Load (Ultimate)	1,500	2,000	3,000	3,750	5,000

CLASS	HE-A	HE-I	HE-II	HE-III	HE-IV
D-Load (0.01 in. crack)	600	800	1,000	1,350	2,000
D-Load (Ultimate)	900	1,200	1,500	2,000	3,000

EQUIVALENT ROUND SIZE INCHES	RISE HE SPAN VE INCHES	SPAN HE RISE VE INCHES	AREA OPENING SQUARE FEET	WALL THICKNESS INCHES	STANDARD LAYING LENGTH FEET	WEIGHT POUNDS PER FOOT
18	14	23	1.8	2 3/4	8	195
24	19	30	3.3	3 1/4	6	300
30	24	38	5.1	3 3/4	6	430
36	29	45	7.4	4 1/2	6	625
42	34	53	10.2	5	6	815
48	38	60	12.9	5 1/2	6	1,000
54	43	68	16.6	6	6	1,235
60	48	76	20.5	6 1/2	8	1,475
66	53	83	24.8	7	8	1,745
72	58	91	29.5	7 1/2	6	2,040
78	63	98	34.6	8	8	2,350
84	68	106	40.1	8 1/2	8	2,680
90	72	113	46.1	9	8	3,050
96	77	121	52.4	9 1/2	8	3,420



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