

DIAGRAM SHOWING LENGTHS OF

18-IN. PIPE

UNDER STRAIN FOR VARIOUS EXPANSIONS.

Secondary Expansion (s) = Zero

Maximum Fiber Stress = 12 000 lb. per sq. in.

Expansion (r), in Inches.

12

10

8

6

4

2

10

20

40

60

80

Length of 18" Pipe under Strain (l_1), in Feet.

$l_2 = \infty$
 $l_2 = 8l_1$
 $l_2 = 4l_1$
 $l_2 = 2l_1$
 $l_2 = l_1$
 $l_2 = \frac{1}{2}l_1$
 $l_2 = \frac{1}{4}l_1$
 $l_2 = 0$

