

Concrete Pipe Thickness Tables

Design Manual
Chapter 1
General Information
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This section provides concrete pipe thickness tables designers can use for estimation purposes. The values in these tables are based on the AASHTO specifications in effect at the time of publication of this section.

Refer to [DR-202](#) for arch and elliptical pipe thicknesses.

**Table 1: Nonreinforced Circular Pipe
(AASHTO M 86)**

inside diameter (inches)	wall thickness (inches)		
	Class 1	Class 2	Class 3
4	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{3}{4}$
6	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$
8	$\frac{3}{4}$	$\frac{7}{8}$	$1\frac{1}{8}$
10	$\frac{7}{8}$	1	$1\frac{1}{4}$
12	1	$1\frac{3}{8}$	$1\frac{3}{4}$

**Table 2: Reinforced Circular Pipe
Class 1500D to Class 3750D
(ASTM C 76/AASHTO M 170, Wall B)**

inside diameter (inches)	wall thickness (inches)
12	2
15	$2\frac{1}{4}$
18	$2\frac{1}{2}$
21	$2\frac{3}{4}$
24	3
27	$3\frac{1}{4}$
30	$3\frac{1}{2}$
33	$3\frac{3}{4}$
36	4
42	$4\frac{1}{2}$
48	5 ^a
54	$5\frac{1}{2}$ ^a
60	6 ^a
66	$6\frac{1}{2}$ ^a
72	7 ^a
78	$7\frac{1}{2}$ ^{a,b}
84	8 ^{a,b}
90	$8\frac{1}{2}$ ^{a,b}
96	9 ^{a,b}
102	$9\frac{1}{2}$ ^{a,b}
108	10 ^{a,b}

^a 3750D Requires special design.
^b 3000D Requires special design.

Chronology of Changes to Design Manual Section: 001B-005 Concrete Pipe Thickness Tables

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