**Pipe Thickness Tables** 

1B-5

Design Manual Chapter 1 General Information

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## Revised: 03-30-23

Refer to <u>DR-202</u> for concrete arch and elliptical pipe thicknesses.

Table 1: Nonreinforced Circular Pipe (AASHTO M 86)

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

(AASHTU WLOD)					
inside	wall thickness				
diameter		(inches)			
(inches)	Class 1	Class 2	Class 3		
4	5/8	3/4	3/4		
6	5/8	3/4	7/8		
8	3/4	7/8	11/8		
10	7/8	1	11/4		
12	1	13/8	13/4		

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

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inside diameter	wall thickness	
(inches)	(inches)	
12	2	
15	21/4	
18	21/2	
21	23/4	
24	3	
27	31/4	
30	3½	
33	3¾	
36	4	
42	4½	
48	5 <sup>a</sup>	
54	5½ <sup>a</sup>	
60	6 <sup>a</sup>	
66	6½ª	
72	<b>7</b> <sup>a</sup>	
78	7½ <sup>a,b</sup>	
84	8 <sup>a,b</sup>	
90	8½ <sup>a,b</sup>	
96	9 <sup>a,b</sup>	
102	9½ <sup>a,b</sup>	
108	10 <sup>a,b</sup>	
a 3750D Requires special design		

a 3750D Requires special design.

<sup>&</sup>lt;sup>b</sup> 3000D Requires special design.

Table 3: Steel Pipe (Materials IM 440)

ness	
0.375	
0.406	
0.438	
0.469	
0.500	
0.531	
0.656	
0.688	
0.719	
0.750	
0.781	
0.812	
0.844	
0.875	
0.906	
0.938	
0.969	

## **Chronology of Changes to Design Manual Section:**

## 001B-005 Pipe Thickness Tables

3/30/2023 Revised

Added in table for steel pipe. Changed title.

9/14/2016 NEW

New