

TABLE 12.2 Diameter—Round Tube

EXCEPT FOR T3510, T4510, T6510, T73510, T76510 AND T8510 TEMPERS ⑦

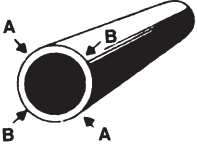
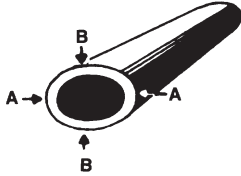
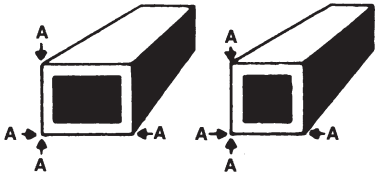
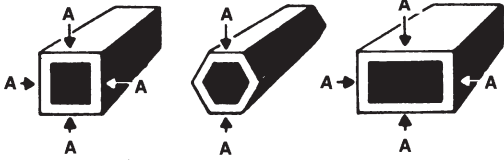
SPECIFIED DIAMETER ① in.	TOLERANCE ②—in. plus and minus			
	ALLOWABLE DEVIATION OF MEAN DIAMETER ③ FROM SPECIFIED DIAMETER (Size)		ALLOWABLE DEVIATION OF DIAMETER AT ANY POINT FROM SPECIFIED DIAMETER ④	
	 Difference between ½ (AA+BB) and specified diameter		 Difference between AA or BB and specified diameter	
Col. 1	Col. 2		Col. 3	
	5xxx 4.0 nominal Mg ⑩	Other Alloys	5xxx 4.0 nominal Mg ⑩	Other Alloys
0.500–0.999	.015	.010	.030	.020
1.000–1.999	.018	.012	.038	.025
2.000–3.999	.023	.015	.045	.030
4.000–5.999	.038	.025	.075	.050
6.000–7.999	.053	.035	.113	.075
8.000–9.999	.068	.045	.150	.100
10.000–11.999	.083	.055	.188	.125
12.000–13.999	.098	.065	.225	.150
14.000–15.999	.113	.075	.263	.175
16.000–17.999	.128	.085	.300	.200
18.000–19.999	.143	.095	.338	.225
20.000–21.999	.158	.105	.375	.250
22.000–23.999	.173	.115	.413	.275

TABLE 12.3 Width and Depth—Square, Rectangular, Hexagonal and Octagonal Tube

EXCEPT FOR T3510, T4510, T6510, T73510, T76510 AND T8510 TEMPERS ⑦

SPECIFIED WIDTH OR DEPTH in.	TOLERANCE ②—in. plus and minus				
	ALLOWABLE DEVIATION OF WIDTH OR DEPTH AT CORNERS FROM SPECIFIED WIDTH OR DEPTH		ALLOWABLE DEVIATION OF WIDTH OR DEPTH NOT AT CORNERS FROM SPECIFIED WIDTH OR DEPTH ④		
	 Difference between AA and specified width or depth		 Difference between AA and specified width, depth, or distance across flats		
Col. 1	Col. 2		Col. 3		Col. 4
	5xxx 4.0 nominal Mg ⑩	Other Alloys	5xxx 4.0 nominal Mg ⑩	Other Alloys	All Alloys
0.500–0.749	.018	.012	.030	.020	The tolerance for the width is the value in the previous column for a dimension equal to the depth, and conversely, but in no case is the tolerance less than at the corners. Example: The width tolerance of a 1 3 inch alloy 6061 rectangular tube is ±0.025 inch and the depth tolerance ±0.035 inch.
0.750–0.999	.021	.014	.030	.020	
1.000–1.999	.027	.018	.038	.025	
2.000–3.999	.038	.025	.053	.035	
4.000–4.999	.053	.035	.068	.045	
5.000–5.999	.068	.045	.083	.055	
6.000–6.999	.083	.055	.098	.065	
7.000–7.999	.098	.065	.108	.075	
8.000–8.999	.113	.075	.123	.085	
9.000–9.999	.128	.085	.143	.095	
10.000–10.999	.143	.095	.158	.105	
11.000–12.999	.158	.105	.173	.115	

For all numbered footnotes, see page 12-9.

TABLE 12.4 Wall Thickness—Round Extruded Tube

SPECIFIED WALL THICKNESS ^⑥ in.	TOLERANCE ^① ^② —in. plus and minus								
	ALLOWABLE DEVIATION OF MEAN WALL THICKNESS ^⑤ FROM SPECIFIED WALL THICKNESS								ALLOWABLE DEVIATION OF WALL THICKNESS AT ANY POINT FROM MEAN WALL THICKNESS ^⑤ (Eccentricity)
	Difference between $\frac{1}{2}(AA + BB)$ and specified wall thickness								
	OUTSIDE DIAMETER—IN.								
Col. 1	Under 1.250		1.250–2.999		3.000–4.999		5.000 and over		Col. 6
	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6				
	5xxx 4.0 nominal Mg ^⑬	Other Alloys	5xxx 4.0 nominal Mg ^⑬	Other Alloys	5xxx 4.0 nominal Mg ^⑬	Other Alloys	5xxx 4.0 nominal Mg ^⑬	Other Alloys	All Alloys
Under 0.047	.009	.006	Plus and minus 10% of mean wall thickness
0.047–0.061	.011	.007	.012	.008	.012	.008	.015	.010	
0.062–0.077	.012	.008	.012	.008	.014	.009	.018	.012	
0.078–0.124	.014	.009	.014	.009	.015	.010	.023	.015	
0.125–0.249	.014	.009	.014	.009	.020	.013	.030	.020	
0.250–0.374	.017	.011	.017	.011	.024	.016	.038	.025	
0.375–0.499023	.015	.032	.021	.053	.035	max ± 0.060 min ± 0.010
0.500–0.749	..	..	.030	.020	.042	.028	.068	.045
0.750–0.999	..	..	..	..	.053	.035	.083	.055
1.000–1.499	..	..	..	..	.068	.045	.098	.065
1.500–2.000	..	..	..	..	..	..	.113	.075
2.001–2.499128	.085	± 0.120
2.500–2.999	..	..	..	..	..	..	.143	.095
3.000–3.499	..	..	..	..	..	..	.158	.105
3.500–4.000	..	..	..	..	..	..	.173	.115

TABLE 12.5 Wall Thickness—Other-Than-Round Extruded Tube

SPECIFIED WALL THICKNESS ^⑥ in.	TOLERANCE ^① ^② —in. plus and minus					
	ALLOWABLE DEVIATION OF MEAN WALL THICKNESS ^⑤ FROM SPECIFIED WALL THICKNESS				ALLOWABLE DEVIATION OF WALL THICKNESS AT ANY POINT FROM MEAN WALL THICKNESS ^⑤ (Eccentricity)	
	Difference between $\frac{1}{2}(AA + BB)$ and specified wall thickness				Difference between AA and mean wall thickness	
	CIRCUMSCRIBING CIRCLE DIAMETER ^⑩ —in.					
Col. 1	Under 5.000		5.000 and over		Under 5.000	5.000 and over
	Col. 2	Col. 3	Col. 4	Col. 5		
	5xxx4.0 nominal Mg ^⑬	Other Alloys	5xxx4.0 nominal Mg ^⑬	Other Alloys	All Alloys	All Alloys
Under 0.047	.008	.005	.012	.008	.005	Plus and minus 10% of mean wall thickness
0.047–0.061	.009	.006	.014	.009	.007	
0.062–0.124	.011	.007	.015	.010	.010	
0.125–0.249	.012	.008	.023	.015	.015	
0.250–0.374	.017	.011	.030	.020	.025	
0.375–0.499	.021	.014	.045	.030	.030		max $\pm 0.060$ min $\pm 0.010$
0.500–0.749	.038	.025	.060	.040	.040	
0.750–0.999	.053	.035	.075	.050	.050	
1.000–1.499	.068	.045	.090	.060	.060	
1.500–2.000	..	..	.105	.070	..

For all numbered footnotes, see page 12-9.