

O.D.	I.C.R.	I.D.D. BASED ON THICKNESS VARIABLE											
		3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	11/16"	3/4"	7/8"	1"
10	5/8"	1-5/8"	1-9/16"	1-9/16"	1-1/2"	1-1/2"	1-7/16"						
12	3/4"	1-15/16"	1-15/16"	1-7/8"	1-7/8"	1-13/16"	1-13/16"						
14	7/8"	2-5/16"	2-1/4"	2-1/4"	2-13/16"	2-3/16"	2-1/8"						
16	1"	2-5/8"	2-5/8"	2-9/16"	2-9/16"	2-1/2"	2-1/2"						
18	1-1/8"	3"	2-15/16"	2-15/16"	2-7/8"	2-7/8"	2-13/16"						
20	1-1/4"	3-5/16"	3-5/16"	3-1/4"	3-1/4"	3-3/16"	3-3/16"						
22	1-1/2"	3-3/4"	3-3/4"	3-11/16"	3-5/8"	3-5/8"	3-9/16"						
24	1-1/2"	4"	4"	3-15/16"	3-7/8"	3-7/8"	3-7/8"						
26	2-1/4"	4-3/4"	4-3/4"	4-11/16"	4-5/8"	4-5/8"	4-9/16"						
28	2-1/4"	5"	4-15/16"	4-15/16"	4-7/8"	4-7/8"	4-13/16"						
30	2-1/4"	5-1/4"	5-1/4"	5-3/16"	5-3/16"	5-1/8"	5-1/8"						
32	2-1/4"	5-1/2"	5-1/2"	5-1/2"	5-7/16"	5-3/8"	5-3/8"						
34	2-1/4"	5-13/16"	5-3/4"	5-3/4"	5-11/16"	5-11/16"	5-5/8"						
36	2-1/4"	6-1/16"	6"	6"	5-15/16"	5-7/8"	5-7/8"	5-7/8"	5-13/16"				
38	3"	6-13/16"	6-3/4"	6-11/16"	6-11/16"	6-5/8"	6-5/8"	6-9/16"	6-9/16"	6-1/2"	6-1/2"	6-17/16"	
40	3"	7"	7"	7"	6-15/16"	6-15/16"	6-7/8"	6-7/8"	6-13/16"	6-13/16"	6-3/4"	6-11/16"	
42	3"	7-5/16"	7-1/4"	7-1/4"	7-3/16"	7-3/16"	7-1/8"	7-1/8"	7-1/16"	7-1/16"	7"	6-15/16"	
44	3"	7-9/16"	7-9/16"	7-1/2"	7-1/2"	7-7/16"	7-7/16"	7-3/8"	7-3/8"	7-5/16"	7-5/16"	7-1/4"	
46	3"	7-13/16"	7-13/16"	7-3/4"	7-3/4"	7-11/16"	7-11/16"	7-5/8"	7-5/8"	7-9/16"	7-9/16"	7-1/2"	
48	3"	8-1/8"	8-1/16"	8-1/16"	8"	8"	7-15/16"	7-15/16"	7-7/8"	7-13/16"	7-3/4"	7-3/8"	7-11/16"
50	3-3/4"	8-13/16"	8-13/16"	8-3/4"	8-3/4"	8-11/16"	8-11/16"	8-5/8"	8-5/8"	8-9/16"	8-9/16"	8-1/2"	8-7/16"
52	3-3/4"	9-1/16"	9-1/16"	9"	9"	8-15/16"	8-15/16"	8-7/8"	8-7/8"	8-13/16"	8-13/16"	8-3/4"	8-11/16"
54	3-3/4"	9-3/8"	9-5/16"	9-5/16"	9-1/4"	9-1/4"	9-3/16"	9-3/16"	9-1/8"	9-1/8"	9-1/16"	9"	8-15/16"
56	3-3/4"	9-5/8"	9-5/8"	9-9/16"	9-1/2"	9-1/2"	9-7/16"	9-7/16"	9-3/8"	9-3/8"	9-5/16"	9-1/4"	9-3/16"
58	3-3/4"	9-7/8"	9-7/8"	9-13/16"	9-13/16"	9-3/4"	9-3/4"	9-11/16"	9-11/16"	9-5/8"	9-5/8"	9-9/16"	9-1/2"
60	3-3/4"	10-3/8"	10-1/8"	10-1/8"	10-1/16"	10-1/2016	10"	10"	9-15/16"	9-15/16"	9-7/8"	9-7/8"	9-3/4"
62	3-3/4"	10-7/16"	10-3/8"	10-3/8"	10-5/16"	10-5/16"	10-1/4"	10-1/4"	10-3/16"	10-3/16"	10-1/8"	10-1/16"	10"
64	4-1/4"	11"	10-15/16"	10-15/16"	10-7/8"	10-7/8"	10-13/16"	10-13/16"	10-3/4"	10-3/4"	10-11/16"	10-5/8"	10-9/16"
66	4-1/4"	11-1/4"	11-1/4"	11-3/16"	11-1/8"	11-1/8"	11-1/8"	11-1/16"	11"	11"	10-15/16"	10-7/8"	10-7/8"
68	4-1/4"	11-1/2"	11-1/2"	11-7/16"	11-7/16"	11-3/8"	11-3/8"	11-3/8"	11-5/16"	11-5/16"	11-1/4"	11-3/16"	11-1/8"
70	4-1/4"	11-13/16"	11-3/4"	11-3/4"	11-11/16"	11-5/8"	11-5/8"	11-9/16"	11-9/16"	11-1/2"	11-1/2"	11-7/16"	11-3/8"
72	4-3/4"	12-3/8"	12-5/16"	12-5/16"	12-1/4"	12-1/4"	12-3/16"	12-3/16"	12-1/8"	12-1/8"	12-1/16"	12"	11-15/16"
74	4-3/4"	12-5/8"	12-5/8"	12-9/16"	12-1/2"	12-1/2"	12-7/16"	12-7/16"	12-3/8"	12-3/8"	12-5/16"	12-1/4"	12-3/16"
76	4-3/4"	12-7/8"	12-7/8"	12-13/16"	12-13/16"	12-3/4"	12-3/4"	12-11/16"	12-11/16"	12-5/8"	12-5/8"	12-1/2"	12-7/16"
78	4-3/4"	13-1/8"	13-1/8"	13-1/16"	13-1/16"	13"	13"	12-15/16"	12-15/16"	12-7/8"	12-7/8"	12-13/16"	12-3/4"
80	5"	13-9/16"	13-9/16"	13-1/2"	13-1/2"	13-7/16"	13-3/8"	13-3/8"	13-5/16"	13-5/16"	13-1/4"	13-3/16"	13-1/8"
82	5"	13-13/16"	13-13/16"	13-3/4"	13-3/4"	13-11/16"	13-11/16"	13-5/8"	13-5/8"	13-9/16"	13-9/16"	13-1/2"	13-7/16"
84	5-3/4"	14-9/16"	14-1/2"	14-1/2"	14-7/16"	14-7/16"	14-3/8"	14-3/8"	14-5/16"	14-5/16"	14-1/4"	14-3/16"	14-1/8"
86	5-3/4"	14-13/16"	14-13/16"	14-3/4"	14-3/4"	14-11/16"	14-11/16"	14-5/8"	14-5/8"	14-9/16"	14-1/2"	14-7/16"	14-3/16"
88	5-3/4"	15-1/16"	15-1/16"	15"	15"	14-15/16"	14-15/16"	14-7/8"	14-7/8"	14-13/16"	14-13/16"	14-3/4"	14-11/16"
90	5-3/4"	15-3/8"	15-5/16"	15-5/16"	15-1/4"	15-1/4"	15-3/16"	15-3/16"	15-1/8"	15-1/16"	15-1/16"	15"	14-15/16"
92	5-3/4"	15-5/8"	15-9/16"	15-1/2"	15-1/2"	15-1/2"	15-7/16"	15-7/16"	15-3/8"	15-3/8"	15-3/16"	15-1/4"	15-3/16"
94	5-3/4"	15-7/8"	15-7/8"	15-13/16"	15-13/16"	15-3/4"	15-3/4"	15-11/16"	15-11/16"	15-5/8"	15-9/16"	15-1/2"	15-7/16"
96	6-1/2"	16-5/8"	16-9/16"	16-9/16"	16-1/2"	16-1/2"	16-7/16"	16-7/16"	16-3/8"	16-3/8"	16-5/16"	16-1/4"	16-3/16"
98	6-1/2"	16-7/8"	16-13/16"	16-13/16"	16-3/4"	16-3/4"	16-11/16"	16-11/16"	16-5/8"	16-5/8"	16-9/16"	16-1/2"	16-7/8"
100	6-1/2"	17-1/8"	17-1/8"	17-1/16"	17-1/16"	17"	17"	16-15/16"	16-7/8"	16-7/8"	16-7/8"	16-13/16"	16-11/16"
102	6-1/2"	17-3/8"	17-3/8"	17-5/16"	17-5/16"	17-1/4"	17-1/4"	17-3/16"	17-3/16"	17-1/8"	17-1/8"	17-1/16"	17"
104	6-1/2"	17-11/16"	17-5/8"	17-5/8"	17-9/16"	17-9/16"	17-1/2"	17-1/2"	17-7/16"	17-7/16"	17-3/8"	17-5/16"	17-1/4"
106	6-1/2"	17-15/16"	17-7/8"	17-7/8"	17-13/16"	17-13/16"	17-3/4"	17-3/4"	17-11/16"	17-11/16"	17-5/8"	17-9/16"	17-1/2"
108	6-1/2"	18-3/16"	18-3/16"	18-1/8"	18-1/8"	18-1/16"	18-1/16"	18"	18"	17-15/16"	17-15/16"	17-13/16"	17-3/4"
110	7-1/4"	18-15/16"	18-7/8"	18-7/8"	18-13/16"	18-13/16"	18-3/4"	18-3/4"	18-11/16"	18-11/16"	18-5/8"	18-9/16"	18-1/2"
112	7-1/4"	19-3/16"	19-1/8"	19-1/16"	19-1/16"	19-1/16"	19"	19"	18-15/16"	18-15/16"	18-7/8"	18-13/16"	18-3/16"
114	7-1/4"	19-7/16"	19-7/16"	19-3/8"	19-3/8"	19-5/16"	19-5/16"	19-1/4"	19-3/16"	19-3/16"	19-3/16"	19-1/8"	19-1/16"
116	7-1/4"	19-3/4"	19-11/16"	19-5/8"	19-5/8"	19-9/16"	19-9/16"	19-1/2"	19-1/2"	19-7/16"	19-7/16"	19-3/8"	19-5/16"
118	7-1/4"	20"	19-15/16"	19-15/16"	19-7/8"	19-7/8"	19-13/16"	19-13/16"	19-3/4"	19-3/4"	19-11/16"	19-5/8"	19-9/16"
120	7-1/4"	20-1/4"	20-3/16"	20-3/16"	20-1/8"	20-1/8"	20-1/16"	20-1/16"	20"	20"	19-15/16"	19-7/8"	19-13/16"
122	8"	21"	20-15/16"	20-7/8"	20-7/8"	20-13/16"	20-13/16"	20-3/4"	20-3/4"	20-11/16"	20-11/16"	20-5/8"	20-9/16"
124	8"	21-1/4"	21-3/16"	21-3/16"	21-1/8"	21-1/8"	21-1/16"	21"	21"	20-15/16"	20-7/8"	20-13/16"	
126	8"	21-1/2"	21-1/2"	21-7/16"	21-3/8"	21-3/8"	21-5/16"	21-5/16"	21-1/4"	21-1/4"	21-3/16"	21-1/8"	21-1/16"
128	8"	21-3/4"	21-3/4"	21-11/16"	21-11/16"	21-5/8"	21-5/8"	21-9/16"	21-9/16"	21-1/2"	21-1/2"	21-7/16"	21-3/8"
130	8"	22-1/16"	22"	22"	21-15/16"	21-7/8"	21-7/8"	21-13/16"	21-13/16"	21-3/4"	21-3/4"	21-11/16"	21-5/8"
132	8"	22-5/16"	22-1/4"	22-1/4"	22-3/16"	22-3/16"	22-1/8"	22-1/8"	22-1/16"	22-1/16"	22"	21-15/16"	21-7/8"
134	8-5/8"	22-15/16"	22-15/16"	22-7/8"	22-7/8"	22-13/16"	22-13/16"	22-3/4"	22-11/16"	22-11/16"	22-5/8"	22-9/16"	22-1/2"
136	8-5/8"	23-3/16"	23-3/16"	23-1/8"	23-1/8"	23-1/16"	23-1/16"	23"	23"	22-15/16"	22-15/16"	22-7/8"	22-13/16"
138	8-5/8"	23-1/2"	23-7/16"	23-7/16"	23-3/8"	23-3/8"	23-5/16"	23-5/16"	23-1/4"	22-3/16"	22-3/16"	23-1/8"	23-1/16"
140	8-5/8"	23-3/4"	23-11/16"	23-11/16"	23-5/8"	23-5/8"	23-9/16"	23-9/16"	23-1/2"	23-1/2"	22-7/16"	23-3/8"	23-5/16"
142	8-5/8"	24"	24"	23-15/16"	23-15/16"	23-7/8"	23-7/8"	23-13/16"	23-3/4"	23-3/4"	23-11/16"	23-5/8"	23-9/16"
144	8-3/4"	24-3/8"	24-5/16"	24-5/16"	24-1/4"	24-1/4"	24-3/16"	24-1/8"	24-1/8"	24-1/16"	24-1/16"	24"	23-15/16"
150	10"	25-7/8"	25-7/8"	25-13/16"	25-13/16"	25-3/4"	25-3/4"	25-11/16"	25-11/16"	25-5/8"	25-5/8"	25-9/16"	25-1/2"
156	10"	26-11/16"	26-11/16"	26-5/8"	26-5/8"	26-9/16"	26-9/16"	26-1/2"	26-1/2"	26-7/16"	26-3/8"	26-3/8"	26-5/16"
162	10"	28-1/8"	28-1/16"	28-1/16"	28"	28"	27-15/16"	27-15/16"	27-7/8"	27-7/8"	27-13/16"	27-3/4"	27-11/16"
168	11"	28-7/8"	28-7/8"	28-13/16"	28-13/16"	28-3/4"	28-3/4"	28-11/16"	28-11/16"	28-5/8"	28-5/8"	28-9/16"	28-1/2"