

Flat On Edge	
	
Flat Size	Min Inside Diameter
16 x 3, 5, 6	150
20 x 3, 5, 6	160
25 x 3,5,6,8,10,12	160
32 x 3 – 10	225
40 x 3	300
40 x 5, 6, 8, 10	225
40 x 12, 16, 20	300
50 x 3	450
50 x 5, 6, 8, 10	360
50 x 12, 16,20, 25	450
65 x 5, 6, 8	660
65 x 10 – 16	660
65 x 20, 25	750
75 x 6	850

75 x 8, 10, 12, 16	740
75 x 20, 25	900
75 x 40	1000
90 x 6	1000
90 x 8, 10, 12	900
100 x 6	1200
100 x 8	1100
100 x 10 – 25	1000
100 x 50	1400
110 x 10	1200
130 x 10, 12, 16	1500
130 x 20, 25	1400
150 x 10, 12	2200
150 x 16	1800
150 x 20, 25	1600
150 x 40	1400
180 x 12, 20	2600
200 x 12	4000
200 x 16, 20, 25	2800
250 x 16	—

Flat On Flat	
	
Flat Size	Min Inside Diameter
Up to 25 x 12	140
32 x 3	150
32 x 5, 6, 8, 10	210
40 x 3 – 10	210
40 x 12, 16	275
40 x 20	350
50 x 3 -10	210
50 x 12, 16	275
50 x 20, 25	350
65 x 3 – 10	275
65 x 12, 16, 20	350
65 x 25	450
75 x 3 – 10	275
75 x 12, 16	350

75 x 20, 25	500
75 x 40	800
90 x 6, 8, 10	275
90 x 12	450
100 x 3 – 10	275
100 x 12 – 25	450
100 x 50	900
110 x 10	350
130 x 5 – 10	350
130 x 12- 25	500
150 x 3 – 10	350
150 x 12 – 20	600
150 x 50, 75	900
180 x 6 – 20	650
200 x 6 – 12	650
200 x 16 – 25	800
250 x 6 – 12	800
250 x 16 – 25	800
250 x 60	900
300 x 6 – 25	800
300 x 50	900
350 x 6 – 50	

Angle Toe-Out	
	
Angle Size	Min Inside Diameter
20 x 20 x 3	125
25 x 25 x 3	125
25 x 25 x 5, 6	250
30 x 30 x 3, 5, 6	250
40 x 40 x 3	300
40 x 40 x 5, 6	350
45 x 45 3	700
45 x 45 x 5, 6	350
50 x 50 x 3	800
50 x 50 x 5, 6, 8	350
55 x 55 x 5, 6	500
65 x 65 x 5 – 10	915
75 x 50 x 5, 6, 8 (50 toe out)	500
75 x 50 x 5, 6, 8 (75 toe out)	700

75 x 75 x 5,6,8,10	915
90 x 90 x 6, 8, 10	1200
100 x 75 x 6 – 10 (75 toe out)	915
100 x 75 x 6 – 10 (100 toe out)	1500
100 x 100 x 6 – 12	1200
125 x 125 x 6 – 12	1600
125 x 75 x 6 – 12 (75 toe out)	1200
125 x 75 x 6, 8 (125 toe out)	2000
125 x 75 x 10, 12 (125 toe out)	1800
150 x 150 x 10-19	2400
150 x 90 x 8 – 12 (90 toe out)	2000
150 x 90 x 10 – 12 (150 toe out)	2400
150 x 100 x 10-12 (100 toe out)	2000
150 x 100 x 10-12 (150 toe out)	2400

Angle Toe-In	
	
Angle Size	Min Outside Diameter
25 x 25 x 3, 5, 6	360
30 x 30 x 3, 5, 6	360
40 x 40 x 3	600
40 x 40 x 5, 6	450
45 x 45 x 3	600
45 x 45 x 5, 6	360
50 x 50 x 3	1200
50 x 50 x 5	700
50 x 50 x 6, 8	600
55 x 55 x 5, 6	750
65 x 65 x 5, 6, 8	900
75 x 50 x 5, 6, 8 (50 toe in)	900
75 x 50 x 5, 6, 8 (75 toe in)	1100
75 x 75 x 6, 8, 10	1200

90 x 90 x 6	1500
90 x 90 x 8, 10	1400
100 x 75 x 6 – 10 (75 toe in)	1200
100 x 75 x 6 – 10 (100 toe in)	2800
100 x 100 x 6	2400
100x100x8,10,12	2100
125x125x8,10,12	2500
125 x 75 x 6,8,10 (75 toe in)	1800
125 x 75 x 8, 10 (125 toe in)	2500
150 x 90 x 8 – 16 (90 toe in)	2500
150 x 90 x 8 – 16 (150 toe in)	—
150 x 100 x 10,12 (100 toe in)	2500
150 x 100 x 10,12 (150 toe in)	—
150 x 150 x 10, 12	3000
150 x 150 x 16,19	2800
RHS Squares	

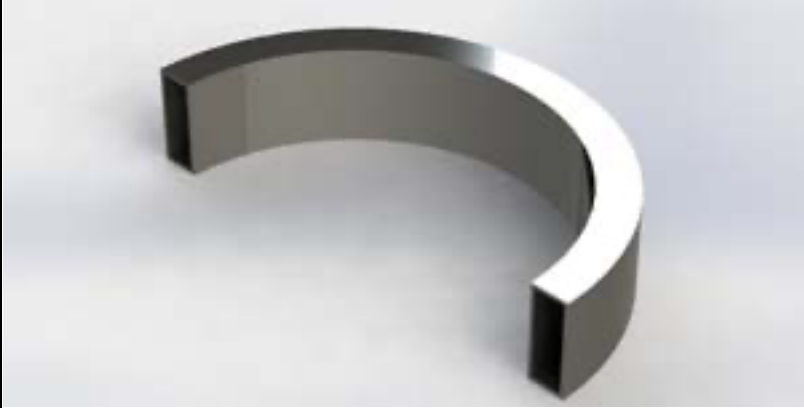


RHS Size	Min Inside Diameter
Up to 25 x 25 x 3	340
30 x 30 x 1.6	600
30 x 30 x 2, 2.5, 3	450
35 x 35 x 1.6	800
35 x 35 x 2.0	750
35 x 35 x 2.5	660
35 x 35 x 3.0	600
40 x 40 x 1.6	1500
40 x 40 x 2.0	1200
40 x 40 x 2.5	900
40 x 40 x 3.0	800
40 x 40 x 4.0	700
50 x 50 x 1.6	3000
50 x 50 x 2.0	1800
50 x 50 x 2.5	1250

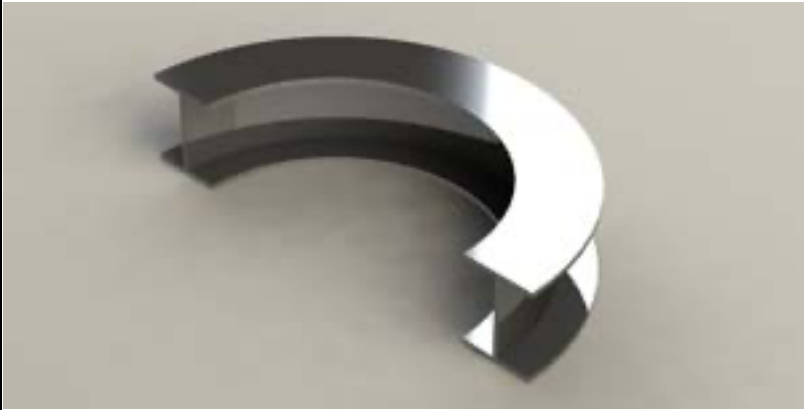
50 x 50 x 3.0	1000
50 x 50 x 4.0, 5.0	900
65 x 65 x 3	3600
65 x 65 x 4	2400
65 x 65 x 5	2000
65 x 65 x 6	1800
75 x 75 x 4	4000
75 x 75 x 5	3000
75 x 75 x 6	2800
89 x 89 x 5	3200
89 x 89 x 6	3000
100 x 100 x 4	12000
100 x 100 x 5	7200
100 x 100 x 6	6000
100 x 100 x 9	4000
125 x 125 x 6	10000
125 x 125 x 9	6000
150 x 150 x 6	12000
150 x 150 x 9	10000
Note: RHS cincaves on inside	
Angle As Diamond (toe in & out)	



RHS Size	Min Inside Diameter
25 x 25 x 3, 5, 6	350 OD
50 x 50 x 3	1400 OD
50 x 50 x 5, 6	800 OD
65 x 65 x 5, 6, 8	900 OD
75 x 75 x 5, 6, 8	900 OD

RHS Rectangles		
		
RHS Size	Min Inside Diameter	
	Flat	Edge
50 x 20 x 2.0	1800	1500
50 x 20 x 2.5	1300	1200
50 x 20 x 3.0	800	690
50 x 25 x 2.0	2000	1600
50 x 25 x 2.5	1500	1200
50 x 25 x 3.0	900	690
65 x 35 x 3.0	1600	3000
75 x 25 x 2.5	2400	3000
75 x 50 x 4.0	2100	3600
75 x 50 x 5.0	2000	2700
75 x 50 x 6.0	2000	2500
100 x 50 x 2	—	20000
100 x 50 x 3	—	2800

100 x 50 x 4	8000	2800
100 x 50 x 5	3500	2500
100 x 50 x 6	2400	2000
125 x 75 x 5	10000	12000
125 x 75 x 6	6000	6000
150 x 50 x 4	—	10000
150 x 50 x 5	8000	3200
150 x 100 x 6	12000	10000
150 x 100 x 9	8000	8000
200 x 100 x 6	15000	20000
200 x 100 x 9	10000	12000
250 x 150 x 9	20000	60000

UB, UC RSJ		
		
Size	Min Inside Diameter	
	Mono- rail	On Edge
RSJ		
100 x 45	900	4000
125 x 65	900	6000
UB		
150 UB 14	900	4500
150 UB 18	900	4000
180 UB 16	1200	6500
180 UB 18	1200	5000
180 UB 22	1200	4000
200 UB 18	1500	12000
200 UB 22	1500	10000
200 UB 25	1500	9000
200 UB 30	1500	9000

250 UB	1500	24000
310 UB	2000	—
360 UB	2200	—
UC		
100 UC	1200	2000
150 UC 23	2400	4000
150 UC 30	2400	4000
150 UC 37	2400	3000
200 UC		

Pipe	
Pipe Nominal Bore	Min Inside Diameter
10	250
15	200
20	230
25	250
32	250
40	360
50	680
65	800
80	900
80	1000
90	1200
100	1500
125	1700
150	2200
200	7000
250	10000
300	40000

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Tube		
Tube OD	Min Inside Dia. Rings	
		Packed
12.7	130	—
16	230	—
19	130	—
22.2	180	—
25.4	180	—
32	330	—
38.1	350	—
50.8	600	—
57	750	—
60	1100	550
76.2	1500	700
88.9	1800	1100
101.6	2100	1200
127	2700	—