

# RMA Tolerance Tables

## STANDARD CROSS-SECTIONAL TOLERANCES

For outside diameters, inside diameters, wall, width,  
Height, and general cross-sectional dimensions of extrusions

RMA Class	1 High Precision	2 Precision	3 Precision
RMA Drawing Designation	E1	E2	E3
Dimensions (in Millimeters)			
Above - Up To	±	±	±
0 - 1.5	0.15	0.25	0.40
1.5 - 2.5	0.20	0.35	0.50
2.5 - 4.0	0.25	0.40	0.70
4.0 - 6.3	0.35	0.50	0.80
6.3 - 10	0.40	0.70	1.00
10 - 16	0.50	0.80	1.30
16 - 25	0.70	1.00	1.60
25 - 40	0.80	1.30	2.00
40 - 63	1.00	1.60	2.50
63 - 100	1.30	2.00	3.20

  

RMA Class	1 High Precision	2 Precision	3 Commercial
RMA Drawing Designation	E1	E2	E3
Dimensions (in Inches)			
Above - Up To	±	±	±
0 - .06	0.006	0.010	0.015
.06 - .10	0.008	0.014	0.020
.10 - .16	0.010	0.016	0.027
.16 - .25	0.014	0.020	0.031
.25 - .39	0.016	0.027	0.039
.39 - .63	0.020	0.031	0.051
.63 - .98	0.027	0.039	0.063
.98 - 1.57	0.031	0.051	0.079
1.57 - 2.48	0.039	0.063	0.098
2.48 - 3.94	0.051	0.079	0.126

## CUT LENGTH TOLERANCES FOR UNSPLICED EXTRUSIONS

RMA Class	1 Precision	2 Commercial	3 Non-Critical
RMA Drawing Designation	L1	L2	L3
Length (in Millimeters)			
Above - Up To	±	±	±
0 - 40	0.7	1.0	1.6
40 - 63	0.8	1.3	2.0
63 - 100	1.0	1.6	2.5
100 - 160	1.3	2.0	3.2
160 - 250	1.6	2.5	4.0
250 - 400	2.0	3.2	5.0
400 - 630	2.5	4.0	6.3
630 - 1000	3.2	5.0	10.0
1000 - 1600	4.0	6.3	12.5
1600 - 2500	5.0	10.0	16.0
2500 - 4000	6.3	12.5	20.0
4000	0.16%	0.32%	0.50%

  

RMA Class	1 Precision	2 Commercial	3 Non-Critical
RMA Drawing Designation	L1	L2	L3
Length (in Inches)			
Above - Up To	±	±	±
0 - 1.6	0.03	0.04	0.06
1.6 - 2.5	0.03	0.05	0.08
2.5 - 4.0	0.04	0.06	0.10
4.0 - 6.3	0.05	0.08	0.13
6.3 - 10.0	0.06	0.10	0.16
10.0 - 16.0	0.08	0.13	0.20
16.0 - 25.0	0.10	0.16	0.25
25.0 - 40.0	0.13	0.20	0.40
40.0 - 63.0	0.16	0.25	0.50
63.0 - 100.0	0.20	0.40	0.63
100.0 - 160.0	0.25	0.50	0.80
160.0	0.16%	0.32%	0.50%

### SPliced LENGTH TOLERANCES

RMA Class	1 Precision	2 Commercial	3 Non-Critical
RMA Drawing Designation	S1	S2	S3
Length (in Millimeters)			
Above - Up To	±	±	±
0 - 250	3.2	6.3	7.1
250 - 400	4.0	7.1	8.0
400 - 630	5.0	8.0	9.0
630 - 1000	6.3	9.0	10.0
1000 - 1600	8.0	10.0	11.2
1600 - 2500	10.0	11.2	12.3
2500 - over	12.5	12.5	16.0
RMA Class	1 Precision	2 Commercial	3 Non-Critical
RMA Drawing Designation	S1	S2	S3
Length (in Inches)			
Above - Up To	±	±	±
0 - 10	0.13	0.25	0.28
10 - 16	0.16	0.28	0.32
16 - 25	0.20	0.32	0.36
25 - 40	0.25	0.36	0.40
40 - 63	0.32	0.40	0.45
63 - 100	0.40	0.45	0.50
100 - over	0.50	0.50	0.53