



**STAINLESS STEEL BALUSTRADE
AND HANDRAIL PRODUCTS**

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TUBE TOLERANCES – A554

“Note 1 – Ovality is the difference between maximum and minimum outside diameters measured at any one cross section. There is no additional tolerance for ovality on tube having a specified wall thickness of more than 3% of the outside diameter.

Note 2 – For sizes up to and including 127.0mm outside diameter, an ovality tolerance of twice the tubular diameter tolerance spread shown is applied one half plus and one half minus to tubes having a specified wall thickness of 3% or less of the specified outside diameter. The average of the maximum and minimum outside diameter readings should fall within the outside diameter tolerance as shown in this table.

Note 3 – For sizes over 127.0mm to and including 406.4mm outside diameter, when the specified wall thickness is 3% or less of the outside diameter, the ovality shall not exceed 1.5% of the specified outside diameter.

Tolerance table

<u>OD (mm)</u>	<u>Wall Thickness (mm)</u>	<u>OD (mm)</u>
Under 12.7	0.51 to 1.24	0.10
12.7 to 25.4	0.51 to 1.65	0.13
12.7 to 25.4	1.65 to 3.4	0.25
25.4 to 38.1	0.64 to 1.65	0.20
25.4 to 38.1	1.65 to 3.40	0.25
38.1 to 50.8	0.65 to 1.24	0.25
38.1 to 50.8	1.24 to 2.11	0.28
38.1 to 50.8	2.11 to 3.78	0.30
50.8 to 63.5	0.81 to 1.65	0.30
50.8 to 63.5	1.65 to 2.77	0.33
50.8 to 63.5	2.77 to 4.19	0.36
63.5 to 88.9	0.81 to 4.19	0.36
63.5 to 88.9	over 4.19	0.51
88.9 to 127.0	0.89 to 4.19	0.51
88.9 to 127	over 4.19	0.64
127 to 190.8	1.24 to 6.35	0.64
127 to 190.5	over 6.35	0.76”