For further information on Stainless Steel Structural Tube, a copy of the full product catalogue, pricing or to place an order, please contact your local Aalco branch.

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Stainless Steel Structural Tube
Square & Rectangular

Stainless steel is a very popular structural material for its unique combination of properties combining high strength, corrosion resistance, fire resistance, ductility, formability & weldability, good bending & torsional properties with the ability to withstand continual temperature variations.

The Aalco stock range of structural stainless steel tube is shown in the tables opposite.

- The square tube range extends up to a massive 250mm square
- Rectangular sizes up to 300mm x 200mm are also available
- The stock covers Grades 304 and 316
- All items are available from stock in descaled finish. Surface polishing can be arranged on request
- Other sizes up to 300 x 300 x 12.5mm and 400 x 200 x 12.5mm are available to order
- The standard lengths are 6 metres, backed by a full cut to length service
- For production orders, special lengths can be supplied to meet specific project requirements

As with all Aalco products, the supplier has been carefully selected and vetted to ensure that Aalco customers are assured of quality products at competitive prices.

### Tolerances

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Tolerances</th>
</tr>
</thead>
<tbody>
<tr>
<td>External Dimensions</td>
<td></td>
</tr>
<tr>
<td>&lt; 100mm</td>
<td>± or – 1%</td>
</tr>
<tr>
<td>100mm to 200mm</td>
<td>± or – 0.8%</td>
</tr>
<tr>
<td>&gt;200mm to 400mm</td>
<td>± or – 0.6%</td>
</tr>
<tr>
<td>Thickness</td>
<td></td>
</tr>
<tr>
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<td>± or – 10%</td>
</tr>
<tr>
<td>5mm and over</td>
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</tr>
<tr>
<td>Squareness</td>
<td>90° ± 1°</td>
</tr>
<tr>
<td>Straightness</td>
<td>Max deviation 0.15%</td>
</tr>
<tr>
<td>Twist</td>
<td>2mm+0.5mm/m</td>
</tr>
<tr>
<td>Side Convexity x 1</td>
<td>Max 0.8% / Min 0.5%</td>
</tr>
<tr>
<td>Side Concavity x 2</td>
<td></td>
</tr>
<tr>
<td>External Corner Radius</td>
<td>(1.6 – 2.4) t</td>
</tr>
<tr>
<td>Thickness (t) over 6mm</td>
<td>(2.4 – 3.6) t</td>
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### Application examples

- Architecture, Building & Construction
- Offshore engineering
- Food, Beverage & Process Plant
- Heavy Engineering & Machinery
- Drying Plant
- Beer Bottling Machines
- Paper Making Machinery
- Load-Bearing Structures
- Packaging Machinery
- Catwalks
- Facades
- Railways & Underground Railways
- Bus & Coach Chassis
- Acoustic Structures
- Mining

Aalco, the UK’s largest independent multi-metals stockholder, offers a complete range of semi-finished products in stainless steel, aluminium, copper, brass, bronze and nickel alloys. The 10,000 item standard stock range is supported by extensive processing facilities as well as bespoke items for particular industries and individual customers.

For further information on Aalco structural tube, a copy of the full product catalogue, pricing or to place an order, please contact your local Aalco Service Centre as shown on the back of this leaflet.
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The tubes are produced using state of the art production technology on some of the world’s largest mills. The continuous process feeds strip into roll-forming followed by longitudinal welding using either the TIG or TIG/Plasma process followed by Eddy-CURRENT weld integrity verification. The welded joint is located in the centre of the narrower face.

Complimenting this range are many other Stainless Steel products used in structural applications including:
- Flat & Angle Bar
- Sheet & Plate
- Welded Mesh
- Handrail Section Tube
- Round tube up to 100mm (4”) diameter and 3mm wall

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