Ancon®
Stainless Steel
Sections & Flooring
for the Engineering Industry
We are one team. We are Leviat.

Leviat is the new name of CRH's construction accessories companies worldwide.

Under the Leviat brand, we have united the expertise, skills and resources of Ancon and its sister companies to create a world leader in fixing, connecting and anchoring technology.

The products you know and trust will remain an integral part of Leviat's comprehensive brand and product portfolio.

As Leviat, we can offer you an extended range of specialist products and services, greater technical expertise, a larger and more agile supply chain and better, faster innovation.

By bringing together CRH's construction accessories family as one global organisation, we are better equipped to meet the needs of our customers, and the demands of construction projects, of any scale, anywhere in the world.

This is an exciting change. Join us on our journey.

Read more about Leviat at Leviat.com
Stainless Steel Sections & Flooring

Contents

Austenitic Stainless Steel 3
Cold Formed Sections 3-4
Fabricated Sections 5
Staigrid Open Grid Flooring 6

Austenitic Stainless Steel
Austenitic Stainless Steels are high in chromium and therefore offer excellent resistance to corrosion. They are ductile and strong, and can be readily formed and welded.

We hold considerable stocks of standard grade Austenitic stainless steel in order to meet urgent delivery deadlines.

Grade 1.4301 (304) is the most commonly used and is suitable for a broad range of applications. Grade 1.4401 (316) is recommended for highly corrosive environments such as marine locations.

Material can be supplied fully certificated if required.

Cold Formed Sections
Leviat manufactures a diverse range of stainless steel cold formed sections using the latest high capacity computer controlled machinery.

Computer controlled press brakes, which are among the most advanced in the industry, enable the company to produce a wide range of section shapes up to 5m in length and from 2mm to 20mm in thickness.

Typical Section Properties
As an aid to the selection of appropriate cold formed sections the following page shows a small sample of section properties. A full list of properties is available from Leviat on request.

Other typical section shapes include:

Profiles Lipped Channel

Ancillary Operations
Sections can be offered with a range of ancillary operations including laser profiling, welded stiffeners, punched holes or slots and curves.

Products can be supplied with a specific surface finish to suit the requirements of the application. Services available include electro-polishing and bead blasting.
### Angle Section

<table>
<thead>
<tr>
<th>Angle Size</th>
<th>Thickness t</th>
<th>Radius r</th>
<th>Moment of Inertia I (cm²)</th>
<th>Section Modulus Z (cm³)</th>
<th>Weight kg/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>A x B</td>
<td>mm</td>
<td>mm</td>
<td>xx</td>
<td>yy</td>
<td></td>
</tr>
<tr>
<td>25 x 25</td>
<td>3</td>
<td>3</td>
<td>0.79</td>
<td>0.79</td>
<td>0.46</td>
</tr>
<tr>
<td>50 x 50</td>
<td>3</td>
<td>3</td>
<td>1.42</td>
<td>1.42</td>
<td>0.67</td>
</tr>
<tr>
<td>120 x 120</td>
<td>5</td>
<td>8</td>
<td>206.03</td>
<td>171.27</td>
<td>22.21</td>
</tr>
<tr>
<td>100 x 120</td>
<td>6</td>
<td>10</td>
<td>117.93</td>
<td>183.12</td>
<td>15.90</td>
</tr>
<tr>
<td>150 x 140</td>
<td>6</td>
<td>10</td>
<td>380.64</td>
<td>322.12</td>
<td>39.33</td>
</tr>
<tr>
<td>140 x 120</td>
<td>8</td>
<td>15</td>
<td>389.54</td>
<td>267.49</td>
<td>39.75</td>
</tr>
<tr>
<td>190 x 200</td>
<td>8</td>
<td>15</td>
<td>1075.07</td>
<td>1217.56</td>
<td>76.97</td>
</tr>
<tr>
<td>110 x 100</td>
<td>10</td>
<td>21</td>
<td>223.70</td>
<td>177.20</td>
<td>29.59</td>
</tr>
<tr>
<td>140 x 130</td>
<td>10</td>
<td>21</td>
<td>484.83</td>
<td>404.66</td>
<td>49.36</td>
</tr>
<tr>
<td>140 x 200</td>
<td>10</td>
<td>21</td>
<td>599.31</td>
<td>1334.58</td>
<td>52.62</td>
</tr>
<tr>
<td>180 x 180</td>
<td>10</td>
<td>21</td>
<td>1092.62</td>
<td>1092.62</td>
<td>84.25</td>
</tr>
<tr>
<td>120 x 110</td>
<td>12</td>
<td>20</td>
<td>346.68</td>
<td>279.90</td>
<td>42.07</td>
</tr>
<tr>
<td>170 x 140</td>
<td>12</td>
<td>20</td>
<td>1005.93</td>
<td>625.14</td>
<td>85.98</td>
</tr>
<tr>
<td>130 x 100</td>
<td>15</td>
<td>20</td>
<td>502.51</td>
<td>262.08</td>
<td>58.84</td>
</tr>
<tr>
<td>150 x 130</td>
<td>15</td>
<td>20</td>
<td>835.59</td>
<td>586.74</td>
<td>81.71</td>
</tr>
</tbody>
</table>

### Zed Section

<table>
<thead>
<tr>
<th>Zed Size</th>
<th>Thickness t</th>
<th>Radius r</th>
<th>Moment of Inertia I (cm²)</th>
<th>Section Modulus Z (cm³)</th>
<th>Weight kg/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>A x B</td>
<td>mm</td>
<td>mm</td>
<td>xx</td>
<td>yy</td>
<td></td>
</tr>
<tr>
<td>50 x 25 x 25</td>
<td>3</td>
<td>3</td>
<td>9.73</td>
<td>10.90</td>
<td>3.89</td>
</tr>
<tr>
<td>140 x 70 x 35</td>
<td>4</td>
<td>4</td>
<td>251.28</td>
<td>123.46</td>
<td>31.31</td>
</tr>
<tr>
<td>70 x 35 x 35</td>
<td>5</td>
<td>4</td>
<td>42.83</td>
<td>48.04</td>
<td>12.24</td>
</tr>
<tr>
<td>110 x 50 x 50</td>
<td>6</td>
<td>8</td>
<td>153.15</td>
<td>163.11</td>
<td>30.63</td>
</tr>
<tr>
<td>160 x 80 x 40</td>
<td>8</td>
<td>8</td>
<td>674.19</td>
<td>289.95</td>
<td>73.30</td>
</tr>
<tr>
<td>200 x 100 x 100</td>
<td>10</td>
<td>15</td>
<td>2125.48</td>
<td>2302.29</td>
<td>212.55</td>
</tr>
<tr>
<td>150 x 75 x 75</td>
<td>12</td>
<td>15</td>
<td>943.93</td>
<td>948.66</td>
<td>125.86</td>
</tr>
<tr>
<td>190 x 95 x 95</td>
<td>15</td>
<td>10</td>
<td>2078.96</td>
<td>2216.59</td>
<td>218.84</td>
</tr>
</tbody>
</table>

### Equal Channel Section

<table>
<thead>
<tr>
<th>Channel Size</th>
<th>Thickness t</th>
<th>Radius r</th>
<th>Moment of Inertia I (cm²)</th>
<th>Section Modulus Z (cm³)</th>
<th>Weight kg/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>A x B</td>
<td>mm</td>
<td>mm</td>
<td>xx</td>
<td>yy</td>
<td></td>
</tr>
<tr>
<td>50 x 25</td>
<td>3</td>
<td>3</td>
<td>9.70</td>
<td>1.56</td>
<td>3.88</td>
</tr>
<tr>
<td>100 x 50</td>
<td>4</td>
<td>4</td>
<td>113.00</td>
<td>18.06</td>
<td>22.60</td>
</tr>
<tr>
<td>160 x 80</td>
<td>5</td>
<td>4</td>
<td>603.40</td>
<td>95.76</td>
<td>75.42</td>
</tr>
<tr>
<td>110 x 55</td>
<td>6</td>
<td>8</td>
<td>206.39</td>
<td>33.67</td>
<td>37.89</td>
</tr>
<tr>
<td>80 x 40</td>
<td>8</td>
<td>8</td>
<td>87.34</td>
<td>14.17</td>
<td>21.83</td>
</tr>
<tr>
<td>200 x 100</td>
<td>10</td>
<td>15</td>
<td>2118.70</td>
<td>342.27</td>
<td>211.67</td>
</tr>
<tr>
<td>150 x 75</td>
<td>12</td>
<td>15</td>
<td>935.18</td>
<td>151.60</td>
<td>124.69</td>
</tr>
<tr>
<td>190 x 95</td>
<td>15</td>
<td>10</td>
<td>2372.83</td>
<td>385.13</td>
<td>248.77</td>
</tr>
</tbody>
</table>

**Note:** Properties listed vary from those for rolled sections due to cold forming and the effect of the formed radius.

### Tolerances

Unless otherwise agreed the tolerances applicable to cold formed sections are as below:

- **Overall length (up to and including 4000mm)**: ±5mm
- **Leg Length - Angle A/B**: ±3mm
- **Leg Length - Channel/Zed A/B**: ±5mm
- **Thickness t**: ±7.5%
- **Included Angle ø**: ±2˚
- **Hole or Slot Centres c**: ±5mm
- **Bow, on both axis Δ**: ±3mm per metre length

**Notes:**
- 1. The manufacturing tolerances set out in the table will meet most applications. Should closer tolerances be required, please provide a drawing indicating your requirements.
- 2. The tolerances are not applicable to curved members.
**Fabricated Sections**

In addition to cold formed sections, we produce Ancon stainless steel fabricated sections.

Ancon’s fabrication personnel are routinely coded to BS4872 and in addition are regularly approved to BS EN 287 to weld to the procedures specific to BS EN 288.

**Typical Fabricated Section Properties**

As an aid to the selection of appropriate fabricated sections the following is a small sample of section properties. A full list of properties is available on request.

### Fabricated Hollow Section

#### Box Section

<table>
<thead>
<tr>
<th>Size of Section</th>
<th>Thickness</th>
<th>Radius</th>
<th>Moment of Inertia</th>
<th>Section Modulus</th>
<th>Weight</th>
</tr>
</thead>
</table>
| A x B           | t         | r      | I (cm
|                | mm       | mm     | xx               | yy          | xx     | yy     | kg/m |
| 70 x 50         | 4         | 4      | 54.44            | 32.01          | 15.56   | 12.80  | 6.75  |
| 130 x 130       | 5         | 4      | 628.43           | 628.43         | 96.68   | 96.68  | 19.31 |
| 150 x 100       | 6         | 8      | 821.26           | 437.42         | 109.50  | 87.48  | 21.67 |
| 110 x 80        | 8         | 8      | 394.26           | 236.88         | 71.68   | 59.22  | 20.69 |
| 170 x 150       | 10        | 15     | 2232.86          | 1837.29        | 262.69  | 244.97 | 44.69 |
| 150 x 130       | 12        | 15     | 1641.79          | 1307.74        | 218.91  | 201.19 | 45.12 |
| 200 x 200       | 15        | 20     | 5650.88          | 5650.88        | 565.09  | 565.09 | 82.09 |

### Fabricated I Section

#### I Section

<table>
<thead>
<tr>
<th>Size of Section</th>
<th>Size of Fillet</th>
<th>Thickness</th>
<th>Moment of Inertia</th>
<th>Section Modulus</th>
<th>Radius of Gyration</th>
<th>Weight</th>
</tr>
</thead>
</table>
| B x A           | t1              | t2         | I (cm
|                | mm               | mm         | xx               | yy          | yy     | kg/m |
| 130 x 200       | 6                | 6          | 2229.5           | 223.0         | 3.03    | 25.0   | 25.72 |
| 150 x 300       | 6                | 10         | 7407.6           | 493.8         | 3.47    | 30.0   | 37.54 |
| 200 x 300       | 6                | 10         | 9510.9           | 634.1         | 4.85    | 30.0   | 45.44 |
| 250 x 450       | 10               | 16         | 43774.0          | 1946.0        | 5.85    | 28.1   | 97.80 |

### Fabricated T Section

#### T Section

<table>
<thead>
<tr>
<th>Size of Section</th>
<th>Size of Fillet</th>
<th>Thickness</th>
<th>Moment of Inertia</th>
<th>Section Modulus</th>
<th>Radius of Gyration</th>
<th>Weight</th>
</tr>
</thead>
</table>
| B x A           | t1              | t2         | I (cm
|                | mm               | mm         | xx               | yy          | yy     | kg/m |
| 75 x 100        | 8                | 8          | 134.87            | 42.75          | 19.70   | 1.46   | 11.06 |
| 100 x 120       | 10               | 10         | 258.08            | 78.00          | 29.69   | 2.11   | 15.64 |
| 150 x 150       | 10               | 10         | 637.24            | 154.65         | 58.57   | 3.12   | 23.70 |
| 200 x 250       | 12               | 12         | 2992.47           | 438.68         | 164.69  | 4.10   | 38.90 |

**Fabricated Sections available include:**

- I Section
- T Section
- SHS
- RHS

**Stainless Steel Sections & Flooring**

Tel: +44 (0) 114 275 5224  www.ancon.co.uk
Staigrid Open Grid Flooring

Staigrid stainless steel grid is a lightweight, corrosion resistant open grid flooring, ideal for use where hygiene, low maintenance and assured long life are required.

The combination of durability and high strength means Staigrid is a very cost-effective alternative to galvanised steel and aluminium grid floors. It is available in mill finish, pickled and passivated or electropolished finish.

Stainless Steel Staigrid open grid flooring is available in either grade 1.4301 (304) or 1.4401 (316) and manufactured in standard sized panels of 1000mm max span x 497mm max width for ease of site handling. Panels can be produced to customers’ specific requirements within these dimensions using Ancon universal tooling.

Each panel consists of 25mm x 5mm bearer bars at 41mm centres and 6mm rebar restraints at 100mm centres.

Staigrid panels are supplied fully bound and full mill certification is available if required.

When ordering please specify:
1. Grade of stainless steel required
2. Span, width and quantity of panels

<table>
<thead>
<tr>
<th>Clear Span (mm)</th>
<th>25 x 5 bars at 41 c/c</th>
<th>25 x 5 bars at 41 c/c</th>
<th>25 x 5 bars at 41 c/c</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Uniformly Distributed Load</td>
<td>Load Concentrated on 150mm Square</td>
<td>Load Concentrated on 300mm Square</td>
</tr>
<tr>
<td></td>
<td>Permissible Load (kN/m²)</td>
<td>Deflection (mm/kN/m)</td>
<td>Permissible Load (kN)</td>
</tr>
<tr>
<td>300</td>
<td>163.731</td>
<td>0.003</td>
<td>4.028</td>
</tr>
<tr>
<td>350</td>
<td>120.292</td>
<td>0.006</td>
<td>3.295</td>
</tr>
<tr>
<td>400</td>
<td>92.099</td>
<td>0.010</td>
<td>2.788</td>
</tr>
<tr>
<td>450</td>
<td>72.769</td>
<td>0.017</td>
<td>2.417</td>
</tr>
<tr>
<td>500</td>
<td>58.943</td>
<td>0.026</td>
<td>2.132</td>
</tr>
<tr>
<td>550</td>
<td>48.713</td>
<td>0.038</td>
<td>1.906</td>
</tr>
<tr>
<td>600</td>
<td>40.833</td>
<td>0.053</td>
<td>1.726</td>
</tr>
<tr>
<td>650</td>
<td>34.678</td>
<td>0.073</td>
<td>1.576</td>
</tr>
<tr>
<td>700</td>
<td>30.073</td>
<td>0.098</td>
<td>1.455</td>
</tr>
<tr>
<td>750</td>
<td>26.197</td>
<td>0.130</td>
<td>1.343</td>
</tr>
<tr>
<td>800</td>
<td>23.025</td>
<td>0.168</td>
<td>1.250</td>
</tr>
<tr>
<td>850</td>
<td>20.396</td>
<td>0.214</td>
<td>1.169</td>
</tr>
<tr>
<td>900</td>
<td>18.192</td>
<td>0.269</td>
<td>1.098</td>
</tr>
<tr>
<td>950</td>
<td>16.328</td>
<td>0.334</td>
<td>1.036</td>
</tr>
<tr>
<td>1000</td>
<td>14.736</td>
<td>0.410</td>
<td>0.980</td>
</tr>
</tbody>
</table>

Note: All loads listed are limited to: Bending Stress ≤ 145N/mm², Shear Stress ≤ 96.67N/mm², Deflection ≤ Span/100
Worldwide contacts for Leviat:

Australia
Leviat
98 Kurrajong Avenue,
Mount Druitt Sydney, NSW 2770
Tel: +61 - 2 8808 3100
Email: info.au@leviat.com

Austria
Leviat
Leonard-Bernstein-Str. 10
Saturn Tower, 1220 Wien
Tel: +43 - 1 - 259 8770
Email: info.at@leviat.com

Belgium
Leviat
Industrielaan 2
1740 Ternat
Tel: +32 - 2 - 582 29 45
Email: info.be@leviat.com

China
Leviat
Room 601 Tower D, Vantone Centre
No. A6 Chao Yang Men Wai Street
Chaoyang District
Beijing · P.R. China 100020
Tel: +86 - 10 5907 3200
Email: info.cn@leviat.com

Czech Republic
Leviat
Business Center Šafránkova
Šafránkova 1238/1
155 00 Praha 5
Tel: +420 - 311 - 690 060
Email: info.cz@leviat.com

Finland
Leviat
Vädersgatan 5
412 50 Göteborg / Sweden
Tel: +358 (0)10 6338781
Email: info.fi@leviat.com

France
Leviat
6, Rue de Cabanis
FR 31240 L’Union
Toulouse
Tel: +33 - 5 - 34 25 54 82
Email: info.fr@leviat.com

Germany
Leviat
Liebigstrasse 14
40764 Langenfeld
Tel: +49 - 2173 - 970 - 0
Email: info.de@leviat.com

India
Leviat
309, 3rd Floor, Orion Business Park
Ghodbunder Road, Kapurbawdi,
Thane West, Thane,
Maharashtra 400607
Tel: +91 - 22 2589 2032
Email: info.in@leviat.com

Italy
Leviat
Via F.lli Bronzetti 28
24124 Bergamo
Tel: +39 - 035 - 0760711
Email: info.it@leviat.com

Malaysia
Leviat
28 Jalan Anggerik Mokara 31/59
Kota Kemuning, 40460 Shah Alam
Selangor
Tel: +603 - 5122 4182
Email: info.my@leviat.com

Netherlands
Leviat
Oostermaat 3
7623 CS Borne
Tel: +31 - 74 - 267 14 49
Email: info.nl@leviat.com

New Zealand
Leviat
2/19 Nuttall Drive, Hillsborough,
Christchurch 8022
Tel: +64 - 3 376 5205
Email: info.nz@leviat.com

Norway
Leviat
Vestre Svanholmen 5
4313 Sandnes
Tel: +47 - 51 82 34 00
Email: info.no@leviat.com

Philippines
Leviat
2933 Regus, Joy Nostalg,
ADB Avenue
Ortigas Center
Pasig City
Tel: +63 - 2 7957 6381
Email: info.ph@leviat.com

Poland
Leviat
UL. Obornicka 287
60-691 Poznań
Tel: +48 - 61 - 622 14 14
Email: info.pl@leviat.com

Singapore
Leviat
14 Benoi Crescent
Singapore 629977
Tel: +65 - 6266 6802
Email: info.sg@leviat.com

Spain
Leviat
Polígono Industrial Santa Ana
C/ Ignacio Zulaaga, 20
28822 Rivas-Vaciamadrid
Tel: +34 - 91 632 18 40
Email: info.es@leviat.com

Sweden
Leviat
Vädersgatan 5
412 50 Göteborg
Tel: +46 - 31 - 98 58 00
Email: info.se@leviat.com

Switzerland
Leviat
Grenzstrasse 24
3250 Lyss
Tel: +41 - 31 750 3030
Email: info.ch@leviat.com

United Arab Emirates
Leviat
RA08 TB02, PO Box 17225
JAFZA, Jebel Ali, Dubai
Tel: +971 (0)4 883 4346
Email: info.ae@leviat.com

United Kingdom
Leviat
President Way, President Park,
Sheffield, S4 7UR
Tel: +44 - 114 275 5224
Email: info.uk@leviat.com

United States of America
Leviat
6467 S Falkenburg Rd.
Riverview, FL 33578
Tel: (800) 423-9140
Email: info.us@leviat.us

For countries not listed
Email: info@leviat.com

Notes regarding this catalogue
© Protected by copyright. The construction applications and details provided in this publication are indicative only. In every case, project working details should be entrusted to appropriately qualified and experienced persons. Whilst every care has been exercised in the preparation of this publication to ensure that any advice, recommendations or information is accurate, no liability or responsibility of any kind is accepted by Leviat for inaccuracies or printing errors. Technical and design changes are reserved. With a policy of continuous product development, Leviat reserves the right to modify product design and specification at any time.
For more information on these products, contact:

**Leviat**
President Way
President Park
Sheffield, S4 7UR
United Kingdom
Tel: +44 (0) 114 275 5224
Fax: +44 (0) 114 276 8543
Email: info.ancon.uk@leviat.com

For sales enquiries:
Email: sales.ancon.uk@leviat.com

For technical enquiries:
Email: tech.ancon.uk@leviat.com

Ancon.co.uk
Leviat.com