We are one team.
We are Leviat.

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

Under the Leviat brand, we are uniting 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
Our product brands include:

Ancon  Connolly  HALFEN
HELIFIX  ISEDIO  PLAKA

Stainless Steel Sections & Flooring

Company Overview
Leviat designs and manufactures high integrity steel components for a wide range of industries. Primarily, products are manufactured from stainless steel.

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Cold Formed Sections 2-3
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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.
Leviat holds 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 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.
<table>
<thead>
<tr>
<th>Angle Section</th>
<th>A x B</th>
<th>Thickness t</th>
<th>Radius r</th>
<th>Moment of Inertia I (cm^4)</th>
<th>Section Modulus Z (cm^3)</th>
<th>Weight kg/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 x 25</td>
<td>3</td>
<td>3</td>
<td>0.79</td>
<td>0.79</td>
<td>0.46</td>
<td>0.46</td>
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<tr>
<td>50 x 50</td>
<td>3</td>
<td>3</td>
<td>1.42</td>
<td>1.42</td>
<td>0.67</td>
<td>0.67</td>
</tr>
<tr>
<td>130 x 120</td>
<td>5</td>
<td>8</td>
<td>208.03</td>
<td>171.27</td>
<td>22.21</td>
<td>19.29</td>
</tr>
<tr>
<td>100 x 120</td>
<td>6</td>
<td>16</td>
<td>117.69</td>
<td>183.12</td>
<td>15.90</td>
<td>21.89</td>
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<tr>
<td>150 x 140</td>
<td>8</td>
<td>15</td>
<td>389.54</td>
<td>267.49</td>
<td>39.75</td>
<td>30.28</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>
<td>84.22</td>
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<tr>
<td>110 x 100</td>
<td>10</td>
<td>21</td>
<td>223.70</td>
<td>177.20</td>
<td>29.59</td>
<td>25.00</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>
<td>43.30</td>
</tr>
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<td>140 x 200</td>
<td>10</td>
<td>21</td>
<td>593.31</td>
<td>1334.58</td>
<td>52.62</td>
<td>98.68</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>
<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>
<td>36.03</td>
</tr>
<tr>
<td>170 x 140</td>
<td>12</td>
<td>20</td>
<td>1005.90</td>
<td>625.14</td>
<td>85.98</td>
<td>60.94</td>
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<tr>
<td>130 x 100</td>
<td>15</td>
<td>20</td>
<td>502.51</td>
<td>262.08</td>
<td>58.84</td>
<td>36.77</td>
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<tr>
<td>150 x 130</td>
<td>15</td>
<td>20</td>
<td>835.59</td>
<td>586.74</td>
<td>81.71</td>
<td>63.27</td>
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</table>

<table>
<thead>
<tr>
<th>Zed Section</th>
<th>A x B' x B'</th>
<th>Thickness t</th>
<th>Radius r</th>
<th>Moment of Inertia I (cm^4)</th>
<th>Section Modulus Z (cm^3)</th>
<th>Weight kg/m</th>
</tr>
</thead>
<tbody>
<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>
<td>3.47</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>
<td>17.50</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>
<td>11.08</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>
<td>26.17</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>
<td>37.84</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>
<td>181.97</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>
<td>105.16</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>
<td>187.89</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Equal Channel Section</th>
<th>A x B</th>
<th>Thickness t</th>
<th>Radius r</th>
<th>Moment of Inertia I (cm^4)</th>
<th>Section Modulus Z (cm^3)</th>
<th>Weight kg/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 x 25</td>
<td>3</td>
<td>3</td>
<td>9.70</td>
<td>1.56</td>
<td>3.88</td>
<td>2.04</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>
<td>12.58</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>
<td>43.04</td>
</tr>
<tr>
<td>110 x 55</td>
<td>6</td>
<td>8</td>
<td>206.39</td>
<td>33.67</td>
<td>37.99</td>
<td>20.16</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>
<td>10.23</td>
</tr>
<tr>
<td>200 x 100</td>
<td>10</td>
<td>15</td>
<td>2118.70</td>
<td>342.27</td>
<td>211.87</td>
<td>113.98</td>
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<tr>
<td>150 x 75</td>
<td>12</td>
<td>15</td>
<td>935.18</td>
<td>151.80</td>
<td>124.69</td>
<td>61.47</td>
</tr>
<tr>
<td>190 x 95</td>
<td>15</td>
<td>20</td>
<td>2372.83</td>
<td>385.13</td>
<td>249.77</td>
<td>123.11</td>
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<table>
<thead>
<tr>
<th>Tolerances</th>
<th>Element</th>
<th>Tolerance</th>
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<tbody>
<tr>
<td>Overall length (up to and including 4000mm)</td>
<td>L</td>
<td>±5mm</td>
</tr>
<tr>
<td>Leg Length - Angle</td>
<td>A/B</td>
<td>±3mm</td>
</tr>
<tr>
<td>Leg Length - Channel/Zed</td>
<td>A</td>
<td>±5mm</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>±3mm</td>
</tr>
<tr>
<td>Thickness</td>
<td>t</td>
<td>±7.5%</td>
</tr>
<tr>
<td>Included Angle</td>
<td>ø</td>
<td>±2˚</td>
</tr>
<tr>
<td>Hole or Slot Centres</td>
<td>c</td>
<td>±5mm</td>
</tr>
<tr>
<td>Bow, on both axis</td>
<td>Δ</td>
<td>±3mm per metre length</td>
</tr>
</tbody>
</table>

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 stainless steel fabricated sections. Our 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.

<table>
<thead>
<tr>
<th>Section</th>
<th>Flow Section Thickness</th>
<th>Radius</th>
<th>Moment of Inertia</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>(cm$^4$)</td>
<td>(cm$^3$)</td>
</tr>
<tr>
<td><strong>Box Section</strong></td>
<td>A x B</td>
<td>t</td>
<td>r</td>
<td>$I_{xx}$</td>
</tr>
<tr>
<td>70 x 50</td>
<td>4</td>
<td>4</td>
<td>54.44</td>
<td>32.01</td>
</tr>
<tr>
<td>130 x 130</td>
<td>5</td>
<td>4</td>
<td>628.43</td>
<td>628.43</td>
</tr>
<tr>
<td>150 x 100</td>
<td>6</td>
<td>8</td>
<td>821.26</td>
<td>437.42</td>
</tr>
<tr>
<td>110 x 80</td>
<td>8</td>
<td>8</td>
<td>394.26</td>
<td>236.88</td>
</tr>
<tr>
<td>170 x 150</td>
<td>10</td>
<td>15</td>
<td>2232.86</td>
<td>1837.29</td>
</tr>
<tr>
<td>150 x 130</td>
<td>12</td>
<td>15</td>
<td>1641.79</td>
<td>1307.74</td>
</tr>
<tr>
<td>200 x 200</td>
<td>15</td>
<td>20</td>
<td>5650.88</td>
<td>5650.88</td>
</tr>
</tbody>
</table>

### Fabricated Hollow Section

<table>
<thead>
<tr>
<th>Fabricated Hollow Section</th>
<th>I Section</th>
<th>T Section</th>
</tr>
</thead>
</table>

### Fabricated I Section

<table>
<thead>
<tr>
<th>Fabricated I Section</th>
<th>I Section</th>
<th>T Section</th>
</tr>
</thead>
</table>

### Fabricated T Section

<table>
<thead>
<tr>
<th>Fabricated T Section</th>
<th>I Section</th>
<th>T Section</th>
</tr>
</thead>
</table>

### Sections available include:

- I Section
- T Section
- SHS
- RHS

---

**Tel:** 1300 304 320  [www.ancon.com.au](http://www.ancon.com.au)
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 304 or 316 and manufactured in standard sized panels of 1000mm max span x 989mm max width for ease of site handling. Panels can be produced to customers’ specific requirements within these dimensions using our 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 Uniformly Distributed Load</th>
<th>25 x 5 bars at 41 c/c Load Concentrated on 150mm Square</th>
<th>25 x 5 bars at 41 c/c Load Concentrated on 300mm Square</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Permissible Load (kN/m²)</td>
<td>Deflection (mm/kN/m²)</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>1.908</td>
</tr>
<tr>
<td>600</td>
<td>40.933</td>
<td>0.053</td>
<td>1.726</td>
</tr>
<tr>
<td>650</td>
<td>34.878</td>
<td>0.073</td>
<td>1.576</td>
</tr>
<tr>
<td>700</td>
<td>30.573</td>
<td>0.098</td>
<td>1.450</td>
</tr>
<tr>
<td>750</td>
<td>26.197</td>
<td>0.120</td>
<td>1.343</td>
</tr>
<tr>
<td>800</td>
<td>23.025</td>
<td>0.158</td>
<td>1.250</td>
</tr>
<tr>
<td>850</td>
<td>20.396</td>
<td>0.214</td>
<td>1.169</td>
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<tr>
<td>900</td>
<td>18.192</td>
<td>0.269</td>
<td>1.098</td>
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<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

Load Bearing Bar 25 x 5mm

Load bearing bars run in the direction of the span. These must be supported at their ends. Support is not required to run parallel to the load bearing bars.

Lateral restraint for the load bearing bars is provided by 6mm diameter rebar.
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