Uncoated steel
Datasheet
April 2019. This literature supersedes all previous issues

Hot rolled strip
AS/NZS 1594 – HA1006

General description
‒ Hot-rolled carbon steel with a guaranteed chemical composition, good ductility and good weldability

Typical uses
‒ General fabrications/manufactured parts
‒ Roll forming applications
‒ Brake press forming applications

Features & benefits
‒ Excellent weldability
‒ Good formability
‒ Excellent for galvanising applications

Warnings
‒ This material should be used in conjunction with the appropriate design and welding standards.
‒ An untrimmed edge (Mill Edge) may contain minor surface discontinuities as a result of the rolling process. It is recommended that customers satisfy themselves that the edge is suitable for the application.

Australian and International standards
AS/NZS 1594: 2002
AS/NZS 1365: 1996
ISO9001:2016 Quality System Certified

Supply conditions

<table>
<thead>
<tr>
<th></th>
<th>Normal</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness Range</td>
<td>1.5 – 12.7 mm *</td>
<td>-</td>
</tr>
<tr>
<td>Width Range</td>
<td>750 – 1550 mm *</td>
<td>-</td>
</tr>
<tr>
<td>Surface Finish</td>
<td>Hot Rolled</td>
<td>Pickled &amp; Oiled (1.6 to 6mm only)</td>
</tr>
<tr>
<td>Edge Condition</td>
<td>Untrimmed (Mill Edge)</td>
<td>Trimmed</td>
</tr>
<tr>
<td>Tolerance</td>
<td>AS/NZS 1365: 1996</td>
<td>-</td>
</tr>
<tr>
<td>Certification</td>
<td>BlueScope -analysis only</td>
<td>-</td>
</tr>
</tbody>
</table>

* Not all thickness & width combinations are available
Optional supply conditions are subject to dimensional restrictions
Chemical composition

<table>
<thead>
<tr>
<th>Element</th>
<th>Guaranteed maximum %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>0.08</td>
</tr>
<tr>
<td>Silicon</td>
<td>0.03</td>
</tr>
<tr>
<td>Manganese</td>
<td>0.40</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>0.040</td>
</tr>
<tr>
<td>Sulphur</td>
<td>0.030</td>
</tr>
<tr>
<td>Aluminium</td>
<td>0.10</td>
</tr>
<tr>
<td>CEQ (IIW)</td>
<td>0.29 (0.095% typical)</td>
</tr>
</tbody>
</table>

All values shown refer to the relevant Australian Standard unless otherwise stated.

\[ CEQ(IIW) = C + \frac{Mn}{6} + \frac{(Cr + Mo + V)}{5} + \frac{(Cu + Ni)}{15} \]

Mechanical properties

No guaranteed mechanical properties. Mechanical properties are similar to HA1, HA3 and HA200.

Weldability Group

WTIA Group

1

Refer to WTIA Technical Note 1 or AS/NZS 1554.1:2014