DATE: September 2002

PRODUCT DESCRIPTION

- Hot-rolled structural product with a minimum yield strength of 300 MPa, good ductility and good weldability.

SUPPLY CONDITIONS

- Surface finish: Hot-rolled / Skin passed*
- Edge Condition: Mill Edge / Trimmed*
- Tolerances: AS1365
- Flatness: Class A
- Certificate: BlueScope Steel - Analysis and Mechanical tests

*Optional supply condition. May be subject to size range restrictions

TYPICAL USES

- Structural members
- Roll forming applications
- Light Poles
- Brake press forming applications
- General fabrication
- Trailer & automotive components

FEATURES & BENEFITS

- Guaranteed minimum strength levels
- Excellent weldability
- Good formability

WARNINGS

- This material should be used in conjunction with the appropriate structural design and welding standards.
- A 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.
- Where material is required for galvanising it is recommended that the steel has a maximum of 0.03% silicon.

NEAREST OVERSEAS SPECIFICATIONS

ASTM A 1011 SS Grade 40 JIS G 3101 SS400 EN10 025 S275JR

For more information contact BlueScope Steel Direct:
Phone 1800 024 402
Email us at steeldirect@bluescopesteel.com
or visit the website at www.xlercoil.com

Date Published: September 2002
The information contained in this datasheet is provided by way of general information only, and should not be relied upon by any person. You must seek specific advice as to the suitability of this product for the purpose for which, and the manner in which, you propose to use it. This may involve further independent analysis and testing. BlueScope Steel Limited and its related bodies corporate take no responsibility for any adverse consequences of any nature which arise as a result of reliance on this datasheet.

BlueScope Steel Limited ABN 16 000 011 058.
### CHEMICAL COMPOSITION

<table>
<thead>
<tr>
<th>Element</th>
<th>Guaranteed Maximum %</th>
<th>Typical %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>0.20</td>
<td>0.15</td>
</tr>
<tr>
<td>Silicon</td>
<td>0.35</td>
<td>0.01</td>
</tr>
<tr>
<td>Manganese</td>
<td>1.60</td>
<td>0.75</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>0.040</td>
<td>0.015</td>
</tr>
<tr>
<td>Sulfur</td>
<td>0.030</td>
<td>0.010</td>
</tr>
<tr>
<td>Aluminium</td>
<td>0.10</td>
<td>0.030</td>
</tr>
<tr>
<td>CEQ(IIW)**</td>
<td>0.39</td>
<td>0.28</td>
</tr>
</tbody>
</table>

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

### MECHANICAL PROPERTIES

<table>
<thead>
<tr>
<th>Tensile Properties (Longitudinal)</th>
<th>Guaranteed Min.</th>
<th>Typical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yield Strength (MPa)</td>
<td>300</td>
<td>320 - 390</td>
</tr>
<tr>
<td>Tensile Strength (MPa)</td>
<td>400</td>
<td>420 - 500</td>
</tr>
<tr>
<td>Elong. (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>≤3mm (on 80mm GL)</td>
<td>15</td>
<td>24 - 32</td>
</tr>
<tr>
<td>&gt;3mm (on 200 mm GL)</td>
<td>16</td>
<td>22 - 30</td>
</tr>
<tr>
<td>180° Bend (Transverse)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3mm</td>
<td>1t</td>
<td>1t</td>
</tr>
<tr>
<td>&gt;3mm</td>
<td>2t</td>
<td>1t</td>
</tr>
</tbody>
</table>

### DIMENSIONS

- **Preferred Widths (mm):** 910 - 1800 (increments of 10mm)
- **Preferred Thicknesses (mm):** 3.3 - 6.5 (increments of 0.1 mm)

Thicknesses less than 3.3 mm are available from BlueScope Steel

### FABRICATING PERFORMANCE

- Bending: Good
- Roll-forming: Good
- Welding: WTIA Group 3

*** Refer to WTIA Technical Note 1 or AS/NZS 1554.1

---

Date Published: September 2002

The information contained in this datasheet is provided by way of general information only, and should not be relied upon by any person. You must seek specific advice as to the suitability of this product for the purpose for which, and the manner in which, you propose to use it. This may involve further independent analysis and testing. BlueScope Steel Limited and its related bodies corporate take no responsibility for any adverse consequences of any nature which arise as a result of reliance on this datasheet.

BlueScope Steel Limited ABN 16 000 011 058.