

XTRAFORM[®] steel 400

General description

Hot rolled extra formable structural steel for severe forming and bending with a guaranteed minimum yield strength of 380 MPa.

Typical uses

Automotive components
Gas cylinders
Roll forming applications
Press brake forming applications
General fabrications

Features & benefits

Excellent weldability
Excellent formability for its strength
Excellent for galvanising applications

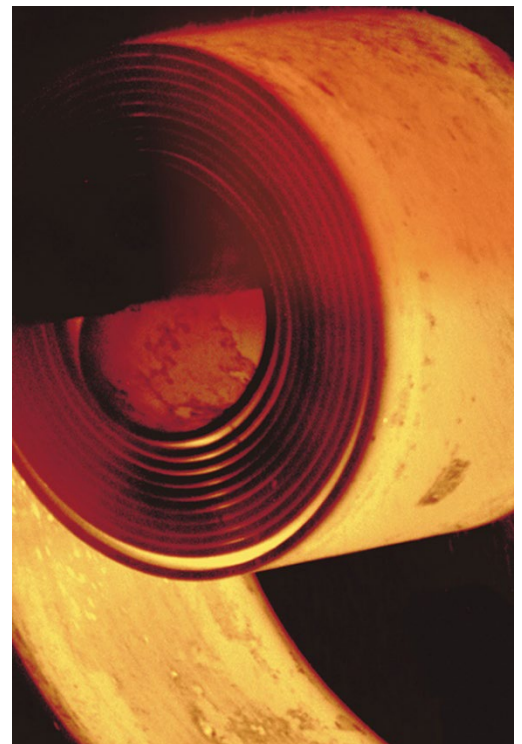
Warnings

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 (R2016)
AS/NZS 1365:1996 (R2016)
ISO 9001:2015 Quality System Certified



Supply conditions

| | Normal | Optional |
|-----------------|------------------------------------|-----------------------------------|
| Thickness Range | 1.6 – 6mm * | - |
| Width Range | Sizes and MOQ available by enquiry | - |
| Surface Finish | Hot Rolled | Pickled & Oiled (1.6 to 6mm only) |
| Edge Condition | Untrimmed (Mill Edge) | Trimmed |
| Tolerance | AS/NZS 1365:1996 (R2016) | - |
| Certification | BlueScope | - |

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

Chemical composition

| Element | Guaranteed Maximum % |
|-------------------------------|----------------------|
| Carbon | 0.11 |
| Silicon | 0.03* |
| Manganese | 1.60 |
| Phosphorus | 0.025 |
| Sulfur | 0.010 |
| Aluminium | 0.10 |
| Niobium + Vanadium + Titanium | 0.15 |
| CEQ (IIW) | 0.39 |

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

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

* Value refers to the BlueScope internal standard, whereas the AS/NZS 1594 guaranteed maximum is 0.35%

Mechanical properties

| Tensile Properties (Longitudinal) | | Guaranteed Value |
|-----------------------------------|--------------------|------------------|
| Yield Strength (MPa) | Guaranteed Minimum | 380 |
| Tensile Strength (MPa) | Guaranteed Minimum | 460 |
| Elongation 80 mm (%) | Guaranteed Minimum | 23% |
| 180° Bend (transverse) | Guaranteed Minimum | 0t |

t = thickness of test piece

Weldability Group

WTIA Group

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

Fire hazard properties

| Test & Evaluation Method | Result |
|--|--|
| Combustibility test for materials (AS 1530.1-1994 (R2016)) | Not deemed combustible (steel substrate) # |

These test results relate only to the behaviour of the test specimens of the material under the particular conditions of the test and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

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To ensure you have the most current information

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