

Australian Made certified sustainable steel





InfraBuild



SENSE 600® is a new range of reinforcing steel with improved sustainability credentials

SENSE 600[®] gives you up to a 35 percent reduction in embodied carbon steel solution when you use it in place of our equivalent load capacity 500 MPa product.

The reimagined bar pattern maintains the bar development length and allows the redistribution of material to provide a larger core area for improved buckling performance and tensile capacity all whilst using up to 16.7 percent less raw material.

Certified sustainability credentials, easy to design, easy to process, easy to handle - it just makes SENSE.



InfraBuild's new reinforcing range – reduced mass, reduced embodied carbon, same structural performance.

Deformed reinforcing bar is used in a range of residential, commercial and infrastructure applications.

SENSE 600[®] PRODUCT RANGE – REINFORCING BAR

SENSE 600®			Equivalent 500N		
Designation	Diameter	Nominal kg/m	Designation	Diameter	Nominal kg/m
S11	11	0.740	N12	12	0.888
S15	14.6	1.32	N16	16	1.58
S18	18.3	2.06	N20	20	2.47
S22	21.9	2.96	N24	24	3.55
S26	25.6	4.03	N28	28	4.83
S29	29.2	5.26	N32	32	6.31
S33	32.9	6.66	N36	36	7.99
S37	36.5	8.22	N40	40	9.86

SENSE 600®

is available in a range of bar diameters



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We make it easy to identify

SENSE 600® offers a high degree of circularity:

SENSE 600[®] is manufactured in Australia by InfraBuild from scrap steel. It has both a high recycled content and a high degree of circularity, as it is readily recyclable at it's end-of-use phase, into new steel products.

The Material Circularity Indicator metric for SENSE 600[®] will be included in the stand alone SENSE 600[®] EPD due to be published in October 2024.

SENSE 600[®] meets your compliance needs:

- Compliant for designs to AS 3600: 2018
- Manufactured to AS/NZS 4671: 2019
- JAS-ANZ accredited (ACRS)
- Compliant with National Construction Code (NCC) when designed to Australian Standards.

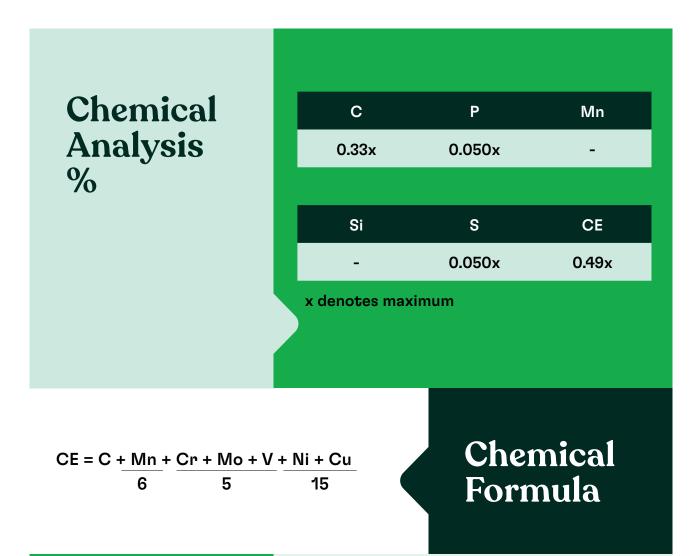
SENSE 600° is CodeMark certified for specific applications for ease of substitution.

SENSE 600® no change to your weld procedures:

SENSE 600° has been developed to conform with the welding requirements of AS/NZS 1554.3. Prequalified Weld Procedure Specifications (WPS) developed for grade 500 reinforcing can be used for the qualification of SENSE 600° reinforcing welds.

Preheat and post heat not required for diameters ≤ 40mm. For further information please refer AS/NZS 1554.3, Weld Australia Technical Note 1. Group Number 4 and SENSE 600[®] – Weld Guidelines.

Hydrogen controlled welding processes and consumables such as GMAW, FCAW and low hydrogen MMAW must be used for all weld types.



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High strength steel and innovative bar design

- easy to design
- easy to process
- easy to handle
- it just makes **SENSE**

Characteristics

Mechanical Properties

Yield	UTS/YS	Uniform Elongation
(MPa)	Ratio minimum	(%) Minimum
600 - 750	1.08	5 * Class N

Cold Bending Properties

Nominal Diameter (mm)	Mandral Diameter	Bend Angle	Rebend Angle
<i>d</i> ≤ 16	4d	90°	90°
<i>d</i> ≥ 16	4 <i>d</i>	180°	NA



lt just makes SENSE

