

Certificate of Conformity

						Certificate	e number: CM30154 Rev0		
Global-Mark Pty Ltd, Suite 4.07 32 Delhi Road North Ryde NSW 2113 Australia	THIS IS TO CERTIFY THAT								
	SENSE 600 [®] Steel Reinforcing Bar								
	Type and/or use of product:				Description of product:				
Tel: +61 2 9886 0222	SENSE 600 [®] Steel Reinforcing Bar are steel bars that conforms with AS/NZS 4671:2019 – Steel for the reinforcement of concrete, suitable for longitudinal column bars designed to AS 3600:2018 – Concrete structures (incorporating Amendment No. 1 & 2).				SENSE 600 [®] Steel Reinforcing Bar has minimum characteristic strength (f_{sy}) of 600 MPa and Ductility Class N ($A_{gt} > 5\%$) as defined in AS/NZS 4671:2019 – Steel for the reinforcement of concrete.				
Certificate Holder:	SENSE 600 [®] Steel Reinforcing Bar is	500 [®] Steel Reinforcing Bar is suitable for use in all building classes.							
InfraBuild Australia Pty Ltd Level 28 88 Phillip Street Sydney NSW 2304 Tel: 1800 178 335 www.infrabuild.com	COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S) BCA 2022								
		Volume One			Volume Two including ABCB Housing Provisions				
	Performance Requirement(s)	B1P1	Structural reliability		H1P1 Structural relial		bility and resistance		
		B1P2	Structural resistance						
	Deemed-to-Satisfy Provision(s):								
	State or territory variation(s):								

Scope of certification: The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website www.abcb.gov.au. This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the certificate holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

Disclaimer: The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this certificate.

The purpose of Global-Mark construction site audits is to confirm the practicability of installing the product; and to confirm the appropriateness and accuracy of installation instructions

In placing the CodeMark mark on the product/system, the certificate holder makes a declaration of compliance with the certification standard(s) and confirms that the product is identical to the product certified herein. In issuing this Certificate of Approval Global-Mark has relied on the expertise of external bodies (laboratories, and technical experts).

Ver Moha

Herve Michoux Global-Mark Managing Director

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Peter Gardner Unrestricted Building Certifier

Date of expiry: 08/12/2026

Date of issue: 08/12/2023



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Limitations and conditions:	Building classification/s:				
1. General	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10				
Design and specification of S of the BCA in accordance wi					
1) Modified requirement of The cross-sectional are a) be not less that value of A_{sc} m b) As per Clause 1 Where A_g = gross cross-sec f_{sy} = 600 MPa 2) Modified requirement of The spacing of fitments a) D_c and $15 \times $ b) As per Clause 1 Where D_c = the small					
$d_b =$ diameter					
The actions shall be determi	ned in accordance with BC	A Volume One B1P1 or	BCA Volume Two H1P1	as applicable.	
2. General The SENSE 600 [®] steel reinfo	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10				
Designation	Diameter (mm)	Area (mm2)	Mass (kg)		
S11	11.0	94.2	0.740		
S15	14.6	168	1.32		
S18	18.3	262	2.06		
S22	21.9	377	2.96		

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S26	25.6	513	4.03
S29	29.2	670	5.26
S33	32.9	848	6.66
S37	36.5	1050	8.22

APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

Refer to page 1.

A2 Description of product

Refer to page 1.

SENSE 600[®] - Steel Reinforcing Bar is available in the diameters shown in Table 1.

A3 Product specification

Refer to page 1.

Design and specification of SENSE 600[®] Steel Reinforcing Bar shall be conducted by a Professional Engineer as defined in Schedule 1 of the BCA in accordance with AS 3600:2018 – Concrete Structures (incorporating Amendment No.1 & 2), and as amended in the Limitations & Conditions section of this certificate.

A4 Manufacturer and manufacturing plant(s)

The Australian Steel Co. (Operations) Pty Ltd

105-123 Dohertys Road, Laverton North, Victoria, 3026

InfraBuild (Newcastle) Pty Ltd

Ingall Street, Mayfield, NSW, 2304

A5 Installation requirements

SENSE 600® steel reinforcing bar shall be installed in accordance with the requirements of AS 3600:2018 – Concrete structures (incorporating Amendment No.1 & 2) and the professional engineer's plans.

A6 Other relevant technical data

Any referenced documents within the technical literature identified in Appendices A3 & A5.

The technical justification of substitution of SENSE 600[®] Steel Reinforcing Bar for conventional steel reinforcing bar, is provided in;

InfraBuild Performance Solution Report – SENSE 600[®] Longitudinal Column Bars v1.0, dated 17 November 2023. •



APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

The following assessment methods have been used to determine compliance with BCA 2022:

Code Clause	Assessment Method(s)	Evidence of suitability	Evidence reference in B2
Volume One B1P1	BCA Volume One A2G2 (2)(a) & (c)	BCA Volume One A5G3 (1)(e) Certificate or report from a professional engineer or other appropriately qualified person	Items 1, 2, 3, 4 & 5
Volume One B1P2	BCA Volume One A2G2 (2)(a) & (c)	BCA Volume One A5G3 (1)(e) Certificate or report from a professional engineer or other appropriately qualified person	Items 1, 2, 3, 4 & 5
Volume Two H1P1	BCA Volume Two A2G2 (2)(a) & (c)	BCA Volume Two A5G3 (1)(e) Certificate or report from a professional engineer or other appropriately qualified person	Items 1, 2, 3, 4 & 5

B2 Reports

The following reports have been used as evidence to determine compliance with BCA 2022:

Ref	Author	Reference	Date	Description	NATA Registration
1	Australasian Certification Authority for Reinforcing and Structural Steels	Certificate Number: 311021	1 Nov 2003	CERTIFICATE OF APPROVAL - Product Conformity Certification Reinforcing Bar Manufactured in coil to AS/NZS 4671:2019	JAS-ANZ Accreditation Nos.: Z5221212AC
	Ltd (ACRS)				
2	Australasian Certification Authority for Reinforcing and Structural Steels Ltd (ACRS)	Certificate Number: 31103	1 Nov 2003	CERTIFICATE OF APPROVAL - Product Conformity Certification Reinforcing Bar Manufactured in coil to AS/NZS 4671:2019	JAS-ANZ Accreditation Nos.: Z5221212AC
3	InfraBuild – Anthony Ng	Performance Solution Report -SENSE 600 [®] Longitudinal Column Bars v1.1	24 Nov 2023	Performance Solution Report for SENSE 600 [®] Longitudinal Column Bars	N/A
4*	UNSW – Professor Stephen Foster	N/A	24 Sept 2023	Expert Opinion - SENSE 600 [®] Longitudinal Column Bars	N/A
5*	UNSW – Professor Hamid Vali Pour & Professor Stephen Foster	RG232236	24 Sept 2023	Buckling of steel bars in the reinforced concrete columns	N/A

* The Certificate Holder has chosen not to make the above identified evidence of compliance publicly available, due to the document(s) being considered commercial in confidence.