

2023
VALID TO 31 DEC



Certificate Number: T1001

Australasian Certification Authority
for Reinforcing and Structural Steels Ltd

CERTIFICATE OF PRODUCT PERFORMANCE TECHNICAL APPROVAL



DYWIDAG-SYSTEMS INTERNATIONAL
manufactured under exclusive agreement by Stahlwerk Annahütte
AINRING, GERMANY

Scope of Certification

has satisfied the Australasian Certification Authority for Reinforcing and Structural Steels Ltd that it supplies:

Product:	Continuously Threaded Bar B500 : 12mm - 75mm B555 : 57.5mm - 63.5mm
Scheme:	ACRS Scheme Rules
Normative document:	AS/NZS 4671:2019, except for C_{eq} and standard grades

Note: Grade B500/B550 material manufactured by SAH to DIN 488-1 2009 – Reinforcing Steels - Part 1, has been assessed by ACRS against the requirements of AS/NZ 4671:2019 and is Approved as meeting the minimum requirements of AS/NZS 4671:2019 for Grade 500N, with the exceptions of product grade marking (as shown, below) and carbon equivalent (C_{eq}).

This product is manufactured to a maximum C_{eq} from cast analysis of 0.49% (AS/NZS 4671:2019 = 0.44%, maximum). As such, some limited preheat may be required for bar diameters > 25mm in certain low energy input weld conditions. Refer AS/NZS 1554 Pt 3 for suitable guidelines.

By authority of
ACRS Board:


Andrew Wheeler, Executive Director

Issued: 1 January 2023

Valid until: 31 December 2023

First certified: 1 March 2016



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TECHNICAL APPROVAL

www.steelcertification.com

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Products manufactured:

Grade B500B/555 Thread Bar (Gewi)

Grade B500/B555 manufactured by SAH has been assessed by ACRS against the requirements of AS/NZS 4671:2019 and meets all minimum requirements of the Standard for Grade 500N with the following exceptions listed below. Note: Some limited preheat may be required for bar diameters > 25 mm in certain low energy input weld conditions. Refer AS/NZS 1554 Pt 3 for suitable guidelines.

Table 1: Cast Analysis

12 to 50 mm	Ceq 0.50 max	✓
57.5 to 63.5 mm	Ceq 0.60 max	✓

Section 7.4.2.4

Specific Projected Area

12 mm	$F_r \geq 0.040$	✓
14 to 75 mm	$F_r \geq 0.056$	✓

Table 4 Mandrel Diameter

≤ 16 mm	3d	✓
18 to 43 mm	4d	✓
≥ 50 mm	Not intended for bending	✓

Bar Markings: Section 9.1 and 9.2

12 to 50 mm and 75 mm. SAS 500/555 B and rolling mark: See below.
57.5, 63.5 mm. SAS 555/700 and rolling mark.

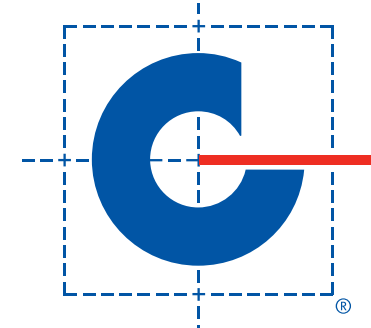
B500/B555 Continuously Threaded Bar



Tag



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