

VALID TO 31 DEC  
**2020**



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 - 50mm B555 : 57.5mm - 63.5mm
Scheme:	ACRS Scheme Rules
Normative document:	AS/NZS 4671, 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 and is Approved as meeting the minimum requirements of AS/NZS 4671 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 = 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:

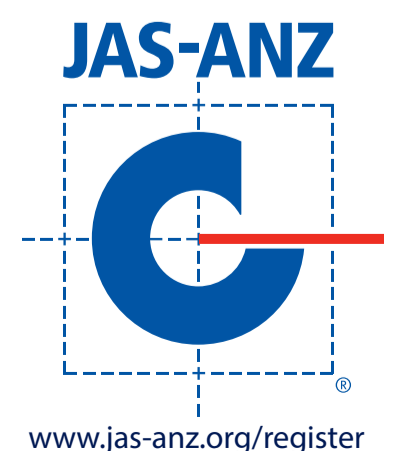
  
Philip Sanders, Executive Director

Valid until:

31 December 2020

First issued:

1 March 2016



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TECHNICAL APPROVAL

www.steelcertification.com

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# Certificate of Product Performance

## Technical Approval



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

### 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 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	$F_r \geq 0.056$	✓

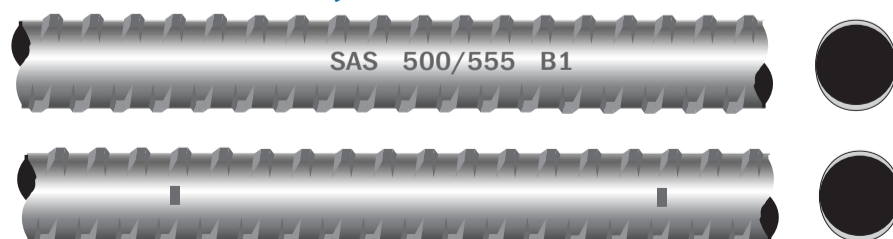
**Table 4 Mandrel Diameter**

< 16mm	3d	✓
18 to 43 mm	4d	✓
> 50mm	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 and 63.5 mm. SAS 555/700 and rolling mark.

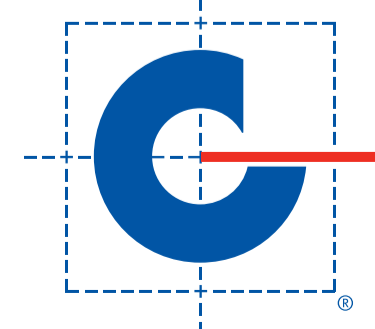
#### B500/B555 Continuously Threaded Bar



#### Tag



**JAS-ANZ**



www.jas-anz.org/register

Revisions in RED

V1 24 MAY 2020

AUSTRALASIAN CERTIFICATION AUTHORITY FOR REINFORCING AND STRUCTURAL STEELS LTD | ABN: 40 096 692 545