

CERTIFICATE



ACIERS POUR BÉTON ARMÉ

Nr. **B19/331** REV. 2

Granted to
CODIMETAL INDUSTRIES

For the steels
TS CODIMETAL 500

Manufactured in the factory of
QUINTA DO ANJO - PALMELA (PT)

With this decision notified by **AFCAB**, **AFNOR** Certification grants the right to use the mark to this company, for the products mentioned above, according to the conditions detailed in the General rules of the **NF** mark and the certification rules **NF 139**.



Date of decision : 13/06/2023
Date of validity : 30/09/2026

The reader is invited to check the validity of this certificate (see fact sheet) by visiting the Web site www.afcab.org
This certificate consists of 3 pages including this one.

On behalf of AFCAB,

Bernard CRETON
Chairman of AFCAB.

ASSOCIATION FRANÇAISE DE CERTIFICATION DES ARMATURES DU BÉTON
28 rue de Liège 75008 Paris - France • Tél : + 33(0)1 44 90 88 80 • www.afcab.org • info@afcab.org

This document is a translation. The original certificate in French is reference in case of dispute.
No mention may be added or deleted of this certificate. Any offender may be sued for abusive use of the mark.

DESCRIPTION

VALIDITY OF THE CERTIFICATE

This certificate attests that the products here described comply with the NF A 35-080-2 standard and are manufactured in accordance with the requirements of quality management included in the  - **Aciers pour béton armé** - RCC03 certification rules in force. These products shall bear the  - **Aciers pour béton armé** mark.

This decision cancels and replaces any former decision. It is valid with reservation of the results of the continuous surveillance performed by **AFCAB**, which may make any decision of sanction according to the general rules of the **NF** mark and in the  - **Aciers pour béton armé** - RCC03 certification rules in force. The reader may verify that the certificate is still valid on the Internet site of **AFCAB** : www.afcab.org rubric "Certificates".

The reader may verify that the product which is delivered, is covered by this certificate by verifying that the labels bear the  - **Aciers pour béton armé** logo and the number of this certificate.

HOLDER

Manufacturing plant	Commercial contact	Head offices
CODIMETAL INDUSTRIES Av. da Liberdade Lugar das Formas CCI n°13602 PT2950-673 QUINTA DO ANJO - PALMELA	NUNO SECO Phone : +(351) 21 213 75 00 E-mail : nuno.seco@codimetal.pt Web : www.codimetal.pt	CODIMETAL INDUSTRIES Apartado 41 PT2860-909 MOITA

CERTIFIED STEELS

<u>Name of the steel :</u>	TS CODIMETAL 500
<u>Standard reference :</u>	NF A 35-080-2
<u>Grade :</u>	B500A
<u>Delivery form :</u>	Welded mesh
<u>Diameters :</u>	5 à 10 mm (diameters included in the standard only)
<u>Fatigue resistance :</u>	Not certified
<u>Marking :</u>	The origin and the grade of the welded fabric is identified thanks to the label.



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CERTIFIED CHARACTERISTICS

The steels that bear the  - **Aciers pour béton armé** mark delivered by **AFCAB** :

— were initially evaluated to establish that the product fulfils the requirements of the NF NF A 35-080-2 standard and the additional requirements included in the  - **Aciers pour béton armé** - RCC03 certification rules in force :

- ▶ Yield strength : ≥ 500 MPa (characteristic value), ≥ 475 MPa (minimum value).
- ▶ R_m/R_e ratio : $\geq 1,05$ (characteristic value), $\geq 1,03$ (minimum value)*.
- ▶ A_{gt} : $\geq 2.5\%$ (characteristic value), $\geq 2\%$ (minimum value)*.
- ▶ Linear mass : $\pm 4,5\%$.
- ▶ Bond : See the values in the standard NF A 35-080-2 which are summarized in the following procedure AFCAB D3.3 (cf. www.afcab.org section certification document).
- ▶ Shear strength of the welded assembly : $\geq 25\%$ of the yield strength for the bigger diameter.
- ▶ Tolerance on the dimensions : length and width $\pm$ maximum (25 mm ; 0,5%) and spacing $\pm$ maximum (15 mm ; 7,5%).

*: reduced values for the diameter 5 and 5.5 mm

— were manufactured in accordance to the quality management requirements of the  - **Aciers pour béton armé** - RCC03 certification rules in force,

— have an identifiable origin.

Warning : *The values mentioned above are summarized. For a complete information, reference texts (especially the standard) shall be consulted.*

CERTIFIABLE OPTIONAL CHARACTERISTICS

— See the detail of the options certified by the holder in the chapter "certified steels" :

- ▶ Fatigue resistance: 2 million load cycles corresponding to a maximum stress of $\sigma_{max} = 60\%$ of the yield strength and a range of stress variation $2\sigma_a$ of 100 MPa, in accordance with §7.3.4 of standard NF A 35-080-2.



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