

UK Certification Authority for Reinforcing Steels

Certificate of Approval

Product Conformity Certification

This is to certify that

ICDAS Celik Enerji Tersane Ve Ulasim Sanayi A.S.

at its establishment at

BIGA

has satisfied the Authority that it operates a Quality System that complies with the requirements of BS EN ISO 9001 2008 and the relevant CARES Quality and Operations Assessment Schedules. Where appropriate, and as listed below, it has further satisfied the Authority that it manufactures and/or supplies products that conform with the stated product standards and is entitled to use the CARES marks on its products.

BS 4449 2005 Grade B500B Bar 8 to 50mm
BS 4449 2005 Grade B500B Coil 6 to 16mm
BS 4449 1997 Grade 460B Bar 8 to 50mm
BS 4449 1997 Grade 460B Coil 6 to 16mm
BS 4449 2005 Grade B500B decoiled Bar 8 to 10mm
BS 4449 2005 Grade B500C Bar 10 to 40mm
BS 4449 1997 grade 250 Bar 8 to 10mm
BS 4482 2005 grade 250 decoiled bar 8 to 10 mm
BS 4482 2005 Grade 250 Coil 5.5 to 20mm
Plain round coil feedstock for BS 4449 and BS 4482, 5.5 to 20mm

using the processes and procedures registered with the Authority.

This Certificate is the property of the Authority and is issued subject to the Regulations of the Authority.

The Certificate Number is: **980401**

Issue Date: **01-January-2013**

Expiry Date: **31-December-2013**

Signed on behalf of the Board of Management



Executive Director

The use of the Accreditation Mark indicates accreditation in respect of those activities covered by the accreditation certificate number 002.

UK Certification Authority for Reinforcing Steels
Pembroke House, 21 Pembroke Road, Sevenoaks, Kent, TN13 1XR, UK www.ukcares.com



Certificat



**- ACIERS POUR
BETON ARME**

n° **B09/228** *Rév. 4*

attribué à

ICDAS

pour les aciers

ICDAS 500 S

fabriqués sur le site de

BIGA - CANAKKALE (TU)

En vertu de la présente décision notifiée par l'AFCAB, AFNOR Certification accorde le droit d'usage de la marque à la société qui en est bénéficiaire, pour les produits mentionnés ci-dessus, dans les conditions des Règles générales de la marque NF et des Règles de certification NF 139.

Ce certificat comporte 3 pages - Le lecteur est invité à vérifier les **conditions de validité de ce certificat** (cf. fiche descriptive)

Date de décision : 17/12/2012
Date de validité : 31/03/2016




Pour l'AFCAB,


B. CRETON,
Président de l'AFCAB

FICHE DESCRIPTIVE

VALIDITE DU CERTIFICAT

Ce certificat atteste que les produits décrits dans la présente fiche descriptive sont conformes à la norme NF A 35-080-1 et fabriqués conformément aux spécifications de gestion de la qualité décrites dans les Règles de certification NF – Aciers pour béton armé. Ces produits doivent porter la marque  – Aciers pour béton armé.

Cette décision a été prise après évaluation. Elle annule et remplace toute décision antérieure. Elle est valide sous réserve de la surveillance périodique effectuée par l'AFCAB, qui peut prendre toute sanction prévue dans les Règles générales de la marque NF et dans les Règles de certification NF – Aciers pour béton armé. Le lecteur peut vérifier à tout moment que ce certificat est toujours valide en consultant le site de l'AFCAB : www.afcab.org rubrique « Certificats ».

Le lecteur peut vérifier que le produit qui lui est livré relève de ce certificat en vérifiant que le logo  et le n° de ce certificat figurent sur l'étiquette du produit.

TITULAIRE

Usine de production	Contact commercial	Siège social
<p>ICDAS - BIGA TESISLERI Degirmencik Koyu Koyalti Mevkii</p> <p>17200 BIGA - CANAKKALE</p>	<p>Tél : 00 90 212 604 04 04 Fax : 00 90 212 550 20 24 E-mail : ICDAS@ICDAS.COM;TR Web : www.icdas.com.tr</p>	<p>IÇDAS –Günesli Mah Deve Kaldirimi Cad. N° 21</p> <p>34212 GUNESLI BAGCILAR ISTANBUL</p>

ACIER CERTIFIE

Nom de l'acier : ICDAS 500 S

Norme de référence : NF A 35-080-1

Nuance : B500B

Diamètres : 8 à 40 mm (diamètres inclus dans la norme uniquement)

Aptitude au redressage après pliage : Non attestée

Description : L'acier IÇDAS 500 S se présente sous la forme d'un cylindre à section droite carrée muni de deux séries de verrous en forme de croissant.

Adhérence :

Diamètre	8	9	10	12	≥ 14
f_R	0,040	0,040	0,040	0,040	0,056

où f_R est calculé par la formule $f_R = 0.56.a/c$

Marquage : La marque distinctive de l'acier ICDAS 500 S est donnée par le schéma ci-dessous :



CARACTERISTIQUES CERTIFIEES

Les aciers qui portent la marque **NF** - Aciers pour béton armé délivrée par l'AFCAB :

- /// ont fait l'objet d'une évaluation initiale qui a établi que le produit est conforme aux prescriptions énoncées dans la norme NF A 35-080-1 et aux spécifications complémentaires décrites dans les Règles de certification RCC03 :
 - ▶ Limite d'élasticité : 500 MPa (valeur caractéristique), 475 MPa (valeur minimale).
 - ▶ Rapport $R_{e,act}/R_{e,nom}$: $\leq 1,30$ (valeur caractéristique), 1,32 (valeur maximale)
 - ▶ Rapport R_m/R_e : 1,08 (valeur caractéristique), 1,06 (valeur minimale)*.
 - ▶ A_{gt} : 5% (valeur caractéristique), 4% (valeur minimale)*.
 - ▶ Absence de fragilité (essai de pliage-dépliage).
 - ▶ Masse linéique : $\pm 4,5\%$.
 - ▶ Adhérence : Voir le tableau ci-dessus.
 - ▶ Soudabilité attestée par la composition chimique (valeurs sur coulée) :

$$C \leq 0,22\% - P \leq 0,050\% - S \leq 0,050\% - N \leq 0,012\% - Cu \leq 0,80\% - C_{eq} = C + \frac{Mn}{6} + \frac{Cr+Mo+V}{5} + \frac{Ni+Cu}{15} \leq 0,50\%$$

- ▶ Attestations optionnelles : Aptitude de l'acier à être redressé après avoir été plié une fois (cf. procédure AFCAB E4). Voir page 2 du certificat.

* : valeurs réduites pour le diamètre 5 mm

- /// résultent d'une fabrication dont la qualité est contrôlée suivant les dispositions des Règles de certification NF – Aciers pour béton armé.
- /// ont une origine identifiable.

Avertissement : Les valeurs des caractéristiques mentionnées ci-dessus sont résumées. Pour une information complète, il convient de consulter les textes de référence, et notamment la norme.

ÜBEREINSTIMMUNGSZERTIFIKAT

(Reg.-Nr. VAKA-115026)

Gemäß § 24 der Bauordnung für Berlin vom 29.09.2005, zuletzt geändert am 08.07.2010, wird bestätigt, dass das

Bauprodukt: **Betonstabstahl
B500B
warmgewalzt und aus der Walzhitze wärmebehandelt
Durchmesser: 8 mm bis 40 mm**

des Herstellers: **ICDAS Celik Enerji Tersane ve Ulasim Sanayi A.S.
Mahmutbey Cad. 21
34212 Günesli-Istanbul
Türkei**

hergestellt im Werk: **ICDAS-Biga Tesisleri
Degirmencik Köyalti Mevkii
Biga-Canakkale
Türkei**

nach den Ergebnissen der werkseigenen Produktionskontrolle des Herstellers und der von der bauaufsichtlich anerkannten Prüf-, Überwachungs- und Zertifizierungsstelle BWU02

**Versuchsanstalt für Stahl, Holz und Steine
Karlsruher Institut für Technologie (KIT)
D - 76128 Karlsruhe**

durchgeführten Erstprüfung und Fremdüberwachung den Bestimmungen der
- DIN 488-2:2009-08 in Verbindung mit DIN 488-1:2009-08 und DIN 488-6:2010-01
in den genannten Fassungen entspricht.

Das Herstellwerk ist berechtigt, das obengenannte Bauprodukt mit dem Übereinstimmungszeichen (Ü-Zeichen) gemäß der Übereinstimmungszeichen-Verordnung (ÜZVO) zu kennzeichnen.

Verwendungshinweis: Für das oben genannte Bauprodukt und Herstellwerk wird folgendes Werkkennzeichen festgelegt: 9/72

Geltungsdauer: 15.12.2016

Karlsruhe, am 15.12.2011

Leiter der Zertifizierungsstelle

Univ.-Prof. Dr.-Ing. T. Ummenhofer



KOMO[®] product certificate

Number	K45099/04	Replaces	K45099/03
Issued	2011-04-01	Dated	2008-12-15
Valid until	Indefinite	Page	1 of 2



Steel for the reinforcement of concrete B500B: bars İçdaş Çelik Enerji Tersane ve Ulasim Sanayi A.S.

STATEMENT BY KIWA

This product certificate is issued on the basis of BRL 0501 "Steel for the reinforcement of concrete" (Betonstaal) dated 2010-09-01 by Kiwa, in accordance with the Kiwa Regulations for Product Certification.

Kiwa declares that legitimate confidence exists that the by the producer manufactured steel for the reinforcement of concrete comply with the technical specifications as laid down in this product certificate, provided that the steel for the reinforcement of concrete have been marked with the KOMO[®] mark in the manner as indicated in this product certificate.

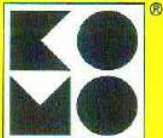
Bouke Meekma
Director Kiwa Nederland B.V.

Advice: consult www.kiwa.nl in order to ensure that this certificate is still valid.

Kiwa Nederland B.V.
Sir W. Churchill-laan 273
Postbus 70
2280 AB RIJSWIJK
The Netherlands
Tel. +31 70 414 44 00
Fax +31 70 414 44 20
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Holder of Certificate
İçdaş Çelik Enerji Tersane ve Ulasim Sanayi. A.S.
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Turkey
Tel +90 212 604 04 04 (pbx)
Fax +90 212 550 20 24
e-mail enver.ozgun@icdas.com.tr/icdas@icdas.com.tr
www.icdas.com.tr

Production site
İçdaş - Biga Tesisleri, Degirmencik Köyü
Koyalti Mevkii, Biga- Canakkale
Turkey



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Evaluated is:
quality system
product
Periodic inspection

Steel for the reinforcement of concrete B500B: bars

PRODUCT SPECIFICATION

General

Steel for the reinforcement of concrete B500B (bars) are in accordance with the requirements of chapter 4 of guideline 0501 and with that of NEN 6008.

The products are meant to be used in constructions of concrete.

Further specification

Classification : B 500B
 Production method: Hot rolled/water cooled
 Nominal size : 8, 10, 12, 14, 16, 20, 25, 28, 32 and 40 mm
 Delivery condition : bars

The quality mark B500B fulfils the requirements of the old qualitymark FeB500 HWL.

Marking

The products are marked with a label with upon it at least on a clear and indelible way:

- the KOMO[®]-logo and the certificate number, figure 1;
- the classification B500B;
- the diameter;
- the rolling mark;
- heatnumber/castnumber/coilnumber;
- name of the certificate holder;
- BRL 0501.

Place of the label: at least one label per bundle of bars.

Steel for the reinforcement of concrete is marked on the following way:

On one ribrow by thickened ribs, with the code (9 - 72), figure 2.

Place of the mark: on a mutual distance of ± 1 meter. The position of the transverse ribs may also be in reverse.



Figure 1

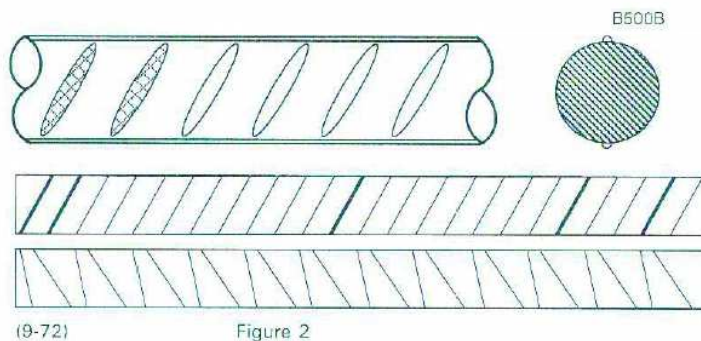


Figure 2

RECOMMENDATIONS FOR USERS

Check at the time of delivery whether:

- the producer has delivered in conformity with the agreement;
- the mark and marking method are correct;
- the products do not show any visible defects due to transport.

If you should reject a product on the basis of the above, please contact:

- İcdaş Çelik Enerji Tersane ve Ulasım Sanayi A.S.

and if necessary:

- Kiwa Nederland B.V.

Consult for the proper method of storage and transport NEN 6722 and/or NEN-EN 13670.

LIST OF DOCUMENTS

NEN 6008	Betonstaal
NEN 6722	Voorschriften Beton – Uitvoering
NEN-EN 13670	Het vervaardigen van betonconstructies

* For the actual version of the standards see the latest version of the BRL 0501 or latest amendment sheet.



Nummer	K45099/04	Vervangt	K45099/03
Uitgegeven	2011-04-01	D.d.	2008-12-15
Geldig tot	Onbepaald	Pagina	1 van 2

Betonstaal B500B: staven
**İçdas Çelik Enerji Tersane ve Ulasim Sanayi
A.S.**

VERKLARING VAN KIWA

Dit productcertificaat is afgegeven op basis van BRL 0501 "Betonstaal" d.d. 2010-09-01, conform het Kiwa-Reglement voor Productcertificatie.

Kiwa verklaart dat het gerechtvaardigd vertrouwen bestaat, dat het door de certificaathouder geleverde betonstaal bij aflevering voldoet aan de in dit productcertificaat vastgelegde technische specificaties, mits het betonstaal voorzien is van het KOMO®-merk op een wijze als aangegeven in dit productcertificaat.

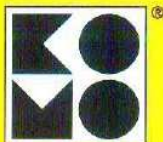
Bouke Meekma
Directeur Kiwa Nederland B.V.

Advies: raadpleeg www.kiwa.nl om na te gaan of dit certificaat geldig is.

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Certificaathouder
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Productieplaats
İçdas - Biga Tesisleri, Degirmencik Köyü
Koyalti Mevkii, Biga- Canakkale
Turkey



® is een collectief merk van Stichting Bouwkwaliiteit.

Beoordeeld is:
kwaliteitssysteem
product
Periodieke controle

Betonstaal B500B: staven

TECHNISCHE SPECIFICATIE

Algemeen

Betonstaal B500B (staven) voldoen aan de eisen van hoofdstuk 4 van BRL 0501 en daarmee aan NEN 6008.

De producten zijn bestemd voor toepassing in betonconstructies.

Nadere specificatie

Staal aanduiding : B500B
 Productiewijze : warmgewalst/watergekoeld
 Kenmiddellijnen : 8, 10, 12, 14, 16, 20, 25, 28, 32 en 40 mm
 Leveringstoestand : staven

De kwaliteitsaanduiding B500B voldoet ook aan de oude kwaliteitsaanduiding FeB 500 HWL.

Merken

De producten worden voorzien van een label waarop tenminste de volgende gegevens duidelijk en onuitwisbaar zijn vermeld:

- het KOMO[®]-logo en het certificaatnummer, zie figuur 1;
- de betonstaal aanduiding B500B;
- diameter;
- walskenmerk;
- chargennummer/rolnummer/productienummer;
- naam certificaathouder;
- BRL 0501.

Plaats van het label: tenminste één label per bundel staven.

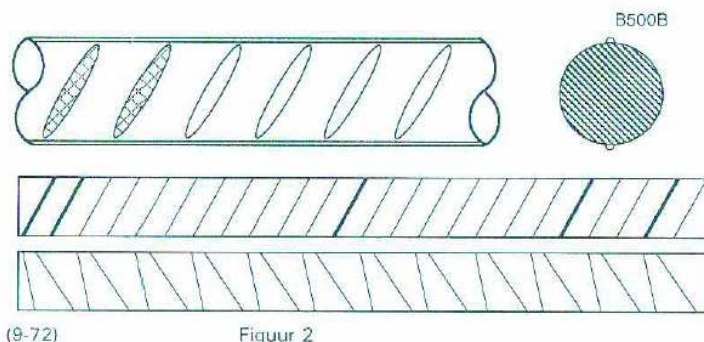
Het materiaal wordt voorzien van het volgende walskenmerk:

Op één ribrij door middel van verdikte ribben met de code (9 – 72) Zie figuur 2.

Plaats van het walskenmerk: op onderlinge afstanden van ± 1 m. De stand van de dwarsribben kan ook gespiegeld zijn aangebracht.



Figuur 1



WENKEN VOOR DE AFNEMER

Inspecteer bij aflevering of:

- geleverd is wat is overeengekomen;
- het merk en de wijze van merken juist zijn;
- de producten geen zichtbare gebreken vertonen als gevolg van transport en dergelijke.

Indien u op grond van het hiervoor gestelde tot afkeuring overgaat, neem dan contact op met:

- İdäs Çelik Enerji Tersane ve Ulasım Sanayi A.S.

en zo nodig met:

- Kiwa Nederland B.V.

Raadpleeg voor de juiste wijze van opslag en transport NEN 6722 en/of NEN-EN 13670.

LIJST VAN VERMELDE DOCUMENTEN*

NEN 6008	Betonstaal
NEN 6722	Voorschriften Beton - Uitvoering
NEN-EN 13670	Het vervaardigen van betonconstructies

* Voor de juiste versie van de vermelde documenten wordt verwezen naar het laatste wijzigingsblad bij BRL 0501.

Certificate

KOMO® product certificate



Number	K62202/01	Replaces	--
Issued	2011-04-01	Dated	--
Valid until	Indefinite	Page	1 of 2

Steel for the reinforcement of concrete B500B: coils İçdas Çelik Enerji Tersane ve Ulasim Sanayi A.S.

STATEMENT BY KIWA

This product certificate is issued on the basis of BRL 0501 "Steel for the reinforcement of concrete" (Betonstaal) dated 2010-09-01 by Kiwa, in accordance with the Kiwa Regulations for Product Certification.

Kiwa declares that legitimate confidence exists that the by the producer manufactured steel for the reinforcement of concrete comply with the technical specifications as laid down in this product certificate, provided that the steel for the reinforcement of concrete have been marked with the KOMO®-mark in the manner as indicated in this product certificate.

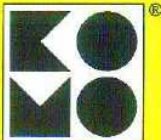
Bouke Meekma
Director Kiwa Nederland B.V.

Advice: consult www.kiwa.nl in order to ensure that this certificate is still valid.

Holder of Certificate
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® is a collective mark of Stichting Bouwkwaliiteit.

Evaluated is:
quality system
product
Periodic inspection

Steel for the reinforcement of concrete B500B: coils

PRODUCT SPECIFICATION

General

Steel for the reinforcement of concrete B500B (coils) are in accordance with the requirements of chapter 4 of guideline 0501 and with that of NEN 6008.

The products are meant to be used in constructions of concrete.

Further specification

Classification : B 500B
 Production method: Hot rolled/water cooled
 Nominal size : 8, 10 and 12 mm
 Delivery condition : coils (wild spooled)

The quality mark B500B fulfils the requirements of the old quality mark FeB500 HWL.

Marking

The products are marked with a label with upon it at least on a clear and indelible way:

- the KOMO[®]-logo and the certificate number, figure 1;
- the classification B500B;
- the diameter;
- the rolling mark;
- heatnumber/castnumber/coilnumber;
- name of the certificate holder;
- BRL 0501.

Place of the label: at least one label per coil.

Steel for the reinforcement of concrete is marked on the following way:

On one ribrow by thickened ribs and between a longitudinal rib, with the code (9-72), figure 2.

Place of the mark: on a mutual distance of ± 1 meter. The position of the transverse ribs may also be in reverse.



Figure 1

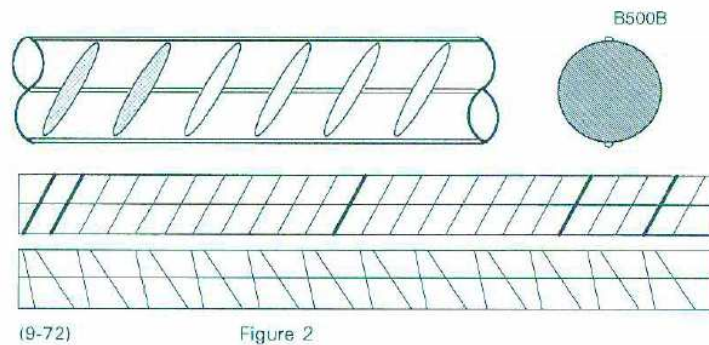


Figure 2

RECOMMENDATIONS FOR USERS

Check at the time of delivery whether:

- the producer has delivered in conformity with the agreement;
- the mark and marking method are correct;
- the products do not show any visible defects due to transport.

If you should reject a product on the basis of the above, please contact:

- İçdas Çelik Enerji Tersane ve Ulasim Sanayi A.S.
- and if necessary:
- Kiwa Nederland B.V.

Consult for the proper method of storage and transport NEN 6722 and/or NEN-EN 13670.

LIST OF DOCUMENTS

NEN 6008	Betonstaal
NEN 6722	Voorschriften Beton – Uitvoering
NEN-EN 13670	Het vervaardigen van betonconstructies

* For the actual version of the standards see the latest version of the BRL 0501 or latest amendment sheet.



Nummer	K62202/01	Vervangt	--
Uitgegeven	2011-04-01	D.d.	--
Geldig tot	Onbepaald	Pagina	1 van 2

Betonstaal B500B: rollen İçdas Çelik Enerji Tersane ve Ulasim Sanayi A.S.

VERKLARING VAN KIWA

Dit productcertificaat is afgegeven op basis van BRL 0501 "Betonstaal" d.d. 2010-09-01, conform het Kiwa-Reglement voor Productcertificatie.

Kiwa verklaart dat het gerechtvaardigd vertrouwen bestaat, dat het door de certificaathouder geleverde betonstaal bij aflevering voldoet aan de in dit productcertificaat vastgelegde technische specificaties, mits het betonstaal voorzien is van het KOMO[®]-merk op een wijze als aangegeven in dit productcertificaat.

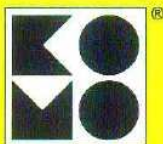
Bouke Meekma
Directeur Kiwa Nederland B.V.

Advies: raadpleeg www.kiwa.nl om na te gaan of dit certificaat geldig is.

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Productieplaats
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Turkey



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Beoordeeld is:
kwaliteitssysteem
product
Periodieke controle

Betonstaal B500B: rollen

TECHNISCHE SPECIFICATIE

Algemeen

Betonstaal B500B (rollen) voldoen aan de eisen van hoofdstuk 4 van BRL 0501 en daarmee aan NEN 6008.

De producten zijn bestemd voor toepassing in betonconstructies.

Nadere specificatie

Staal aanduiding : B500B
 Productiewijze : warmgewalst/watergekoeld
 Kenmiddellijnen : 8, 10 en 12 mm
 Leveringstoestand : rollen (wild gewikkeld)

De kwaliteitsaanduiding B500B voldoet ook aan de oude kwaliteitsaanduiding FeB 500 HWL.

Merken

De producten worden voorzien van een label waarop tenminste de volgende gegevens duidelijk en onuitwisbaar zijn vermeld:

- het KOMO[®]-logo en het certificaatnummer, zie figuur 1;
- de betonstaaanduiding B500B;
- diameter;
- walskenmerk;
- charginummer/rolnummer/productienummer;
- naam certificaathouder;
- BRL 0501.

Plaats van het label: tenminste één label per rol.

Het materiaal wordt voorzien van het volgende walskenmerk:

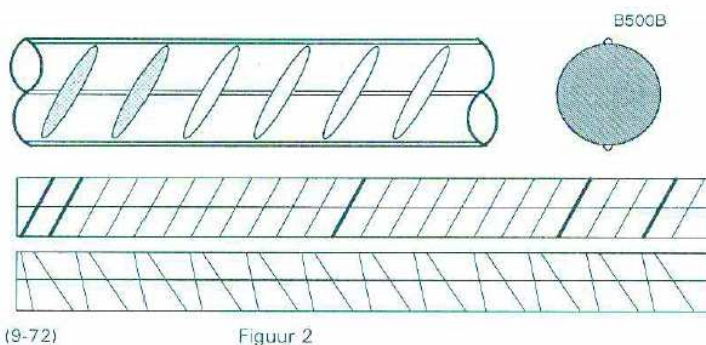
Op één ribrij door middel van verdikte ribben met in het midden een langsrib met de code (9-72) Zie figuur 2.

Plaats van het walskenmerk: op onderlinge afstanden van ± 1 m. De stand van de dwarsribben kan ook gespiegeld zijn aangebracht.



K62202

Figuur 1



WENKEN VOOR DE AFNEMER

Inspecteer bij aflevering of:

- geloverd is wat is overeengekomen;
- het merk en de wijze van merken juist zijn;
- de producten geen zichtbare gebreken vertonen als gevolg van transport en dergelijke.

Indien u op grond van het hiervoor gestelde tot afkeuring overgaat, neem dan contact op met:

- İçdas Çelik Enerji Tersane ve Ulasim Sanayi A.S.
- en zo nodig met:
- Kiwa Nederland B.V.

Raadpleeg voor de juiste wijze van opslag en transport NEN 6722 en/of NEN-EN 13670.

LIJST VAN VERMELDE DOCUMENTEN*

NEN 6008	Betonstaal
NEN 6722	Voorschriften Beton - Uitvoering
NEN-EN 13670	Het vervaardigen van betonconstructies

* Voor de juiste versie van de vermelde documenten wordt verwezen naar het laatste wijzigingsblad bij BRL 0501.



CERTIFICADO

DE

HOMOLOGACION DE ADHERENCIA

Nº 169 - I C / 2

CORRESPONDIENTE AL ACERO CORRUGADO DE LA MARCA

I C D A





Certificado nº 169-IC/2



MARÍA DEL CARMEN ANDRADE, DIRECTORA DEL INSTITUTO DE
CIENCIAS DE LA CONSTRUCCIÓN EDUARDO TORROJA

CERTIFICA : Que conforme al procedimiento estipulado en la Norma UNE 36 740 y lo indicado en la Instrucción de Hormigón Estructural EHE, se han realizado en este Instituto los ensayos de homologación de adherencia de barras corrugadas de acero, para armaduras de hormigón armado, correspondientes a la marca ICDA, fabricada por la Empresa : İÇDAS (ÇELİK ENERJİ TERSANE VE ULASIM SANAYİ A.S.), resultando positivos dichos ensayos como consta en los informes nºs : 17.479, 17.480 y 17.481, y de acuerdo con los mismos, las características geométricas para las cuales puede garantizarse el cumplimiento de las condiciones de adherencia, son las que figuran en el siguiente cuadro :



Diámetro ensayado en mm	Diámetro de la serie en mm	Altura mínima de corrugas en mm (a)	Separación máxima de corrugas en mm (c) (*)
8	6	0,39	5,0
	8	0,52	5,7
	10	0,65	6,5
16	12	0,78	7,2
	14	0,91	8,4
	16	1,04	9,6
	20	1,30	12,0
32	25	1,63	15,0
	32	2,08	19,2
	40	2,60	24,0

(*) Tolerancia : $\pm 15\%$ para $\phi > 8$ mm y $\pm 20\%$ para $\phi 6$ y 8 mm.

Ángulo de inclinación de corrugas: $60^\circ \pm 10^\circ$ (β_1)
 75° máx (β_2)
 45° mín (β_3)
 10° mín ($\beta_2 - \beta_1$)

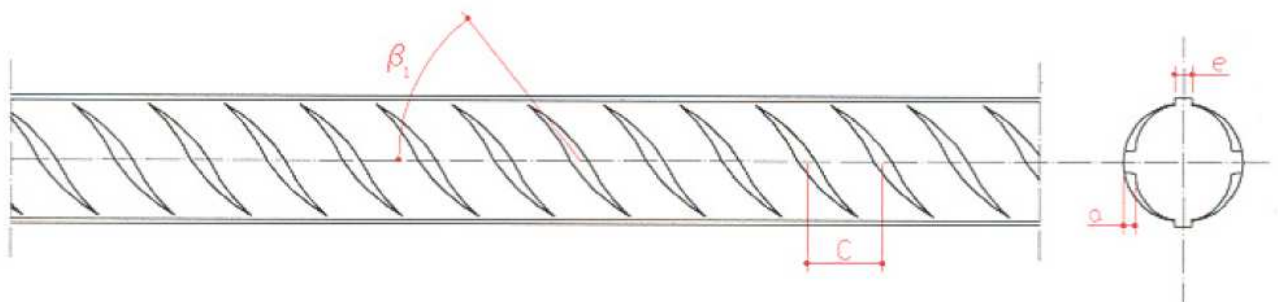
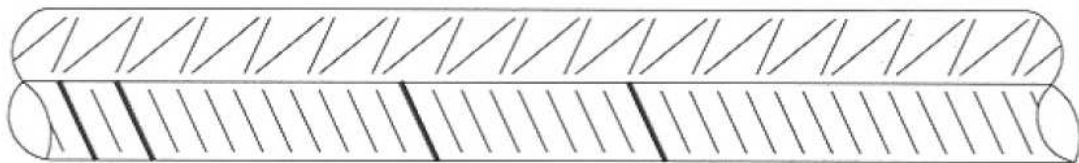
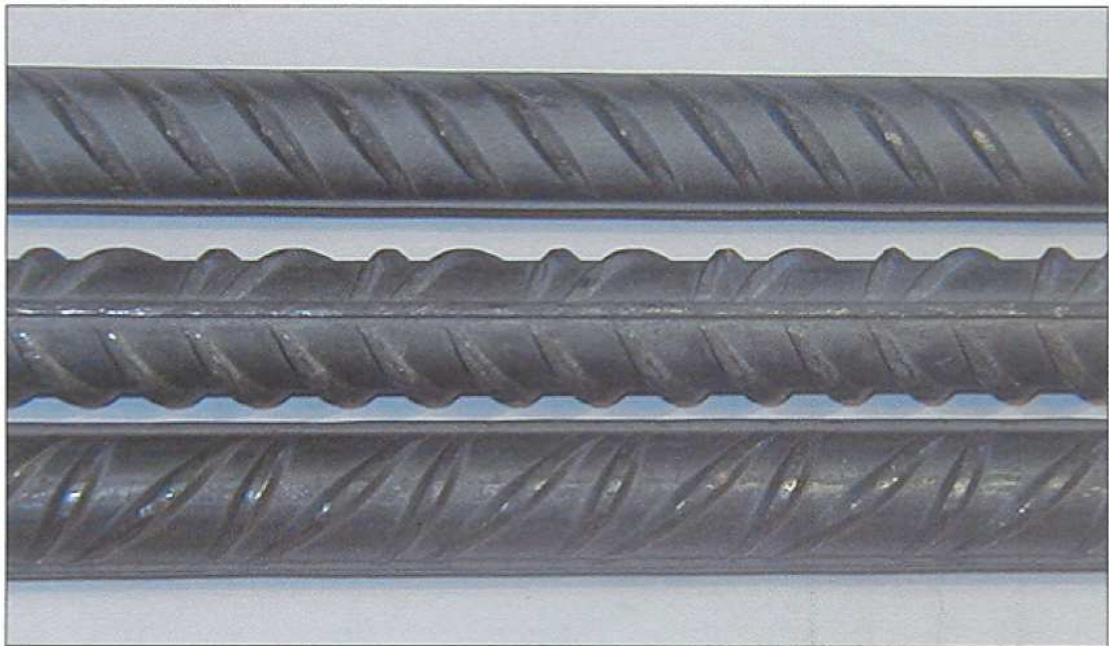
Perímetro sin corrugas: $\leq 0,30 \phi$ (2e)

Asimismo, el perfil de este acero, código de identificación del fabricante y esquemas en los que se indican las cotas cuyos valores se han especificado en el cuadro anterior, son los que aparecen a continuación:



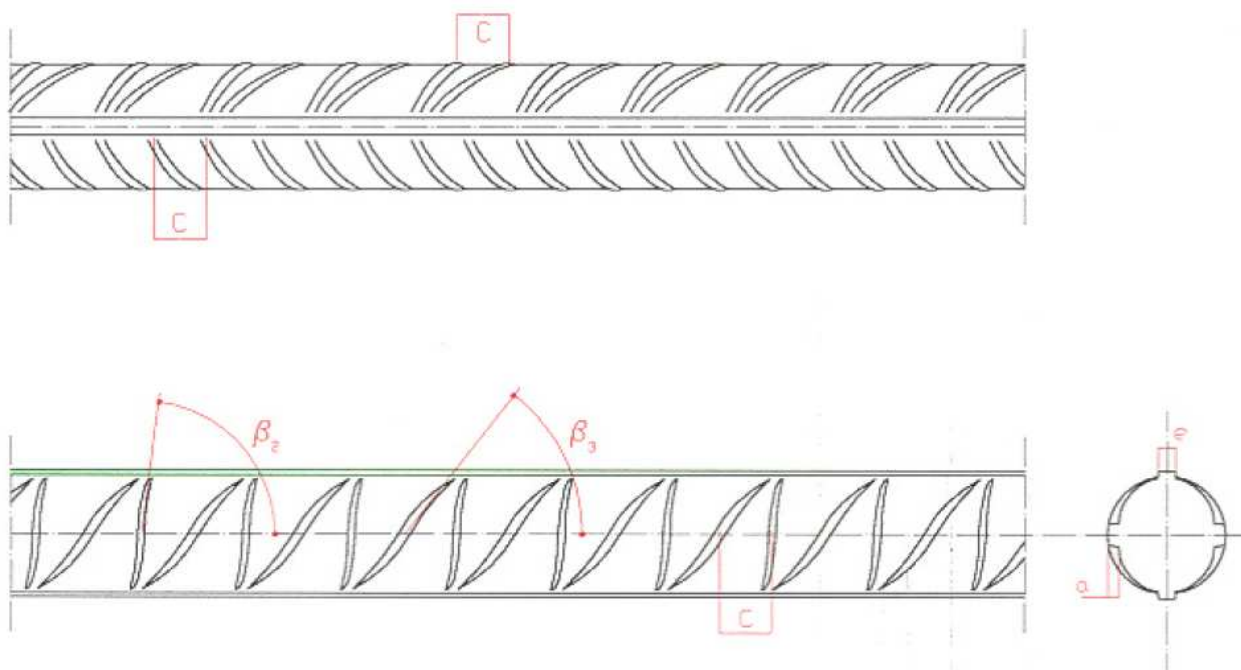
Certificado nº 169-IC/2

Aceros : I C D A





Aceros : I C D A



Y para que así conste a los efectos oportunos, se expide el presente Certificado en Madrid, a catorce de septiembre de dos mil uno.



Certificado nº 169-IC/2



NOTA :

El presente Certificado sustituye al que con el nº 152 – IC/1, fue expedido el día veintinueve de febrero de mil novecientos noventa y nueve para la misma marca : ICDA, fabricada por : IÇDAS (ISTANBUL ÇELIK VE DEMIR IZABE SANAYII A.S.)

En el año dos mil uno, la Empresa beneficiaria del mismo : IÇDAS (ISTANBUL ÇELIK VE DEMIR IZABE SANAYII A.S.), ha pasado a denominarse : IÇDAS (CELIK ENERJI TERSANE VE ULASIM SANAYI A.S.), continuando la fabricación del producto en las mismas instalaciones y condiciones anteriores .

Por ello, y dado que el cambio efectuado implica principalmente una variación en la nomenclatura de la Empresa, y no en las características fundamentales del material, incluidas en la hoja 3, y a petición de la mencionada Empresa : IÇDAS (CELIK ENERJI TERSANE VE ULASIM SANAYI A.S.), se ha actualizado el Certificado antes mencionado en el presente.



1/5

CERTIFICADO

DE

HOMOLOGACION DE ADHERENCIA

Nº 205 - IC/4

CORRESPONDIENTE AL ACERO CORRUGADO DE LA MARCA

ICDAS B 500 S FOUR RIBS





2/5



Certificado nº 205-IC/4

JUAN MONJO CARRIÓ, DIRECTOR DEL INSTITUTO DE CIENCIAS DE LA
CONSTRUCCIÓN EDUARDO TORROJA

CERTIFICA : Que conforme al procedimiento estipulado en la Norma UNE 36 740 y lo indicado en la Instrucción de Hormigón Estructural EHE, se han realizado en este Instituto los ensayos de homologación de adherencia de barras corrugadas de acero, para armaduras de hormigón armado, correspondientes a la marca ICDAS B 500 S FOUR RIBS, tipo B 500 S, fabricada por la empresa: IÇDAŞ ÇELİK ENERJİ TERSANE VE ULAŞIM SAN, A.Ş., resultando positivos dichos ensayos como consta en el informe nº: 19.142, y de acuerdo con los mismos, las características geométricas para las cuales puede garantizarse el cumplimiento de las condiciones de adherencia, son las que figuran en el siguiente cuadro:



/...



Certificado nº 205-IC/4

Diámetro ensayado en mm	Diámetro de la serie en mm	Altura mínima de corrugas en mm (a)	Separación máxima de corrugas en mm (c)
10	6	0,21	4,20
	8	0,28	5,60
	10	0,35	7,00

Ángulo de inclinación de corrugas: $60^\circ \pm 10^\circ$ (β_1)

$65^\circ \pm 10^\circ$ (β_2)

$45^\circ \pm 10^\circ$ (β_3)

Perímetro sin corrugas: $\leq 0,040 \phi$ (4e)

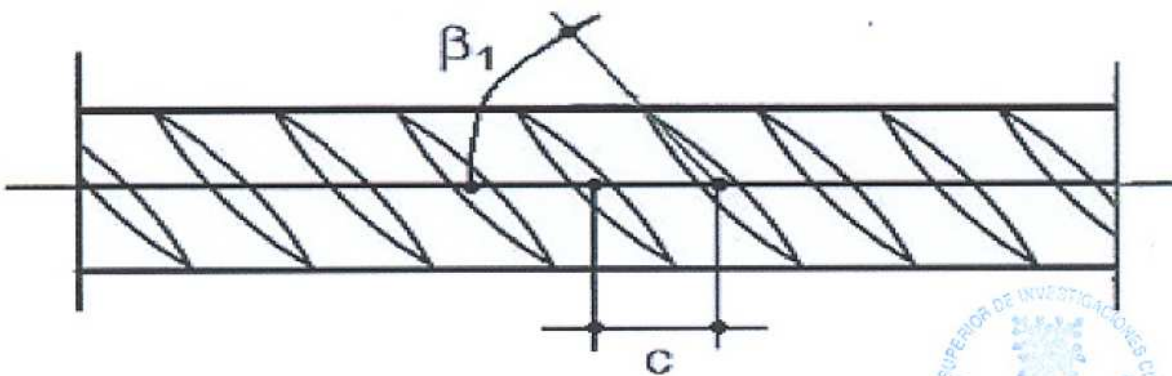
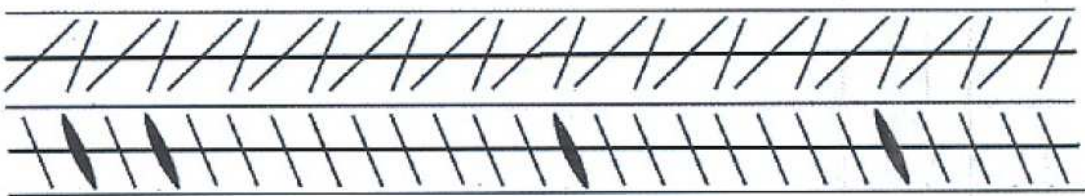
Asimismo, el perfil de este acero, código de identificación del fabricante y esquemas en los que se indican las cotas cuyos valores se han especificado en el cuadro anterior, son los que aparecen a continuación:



J...

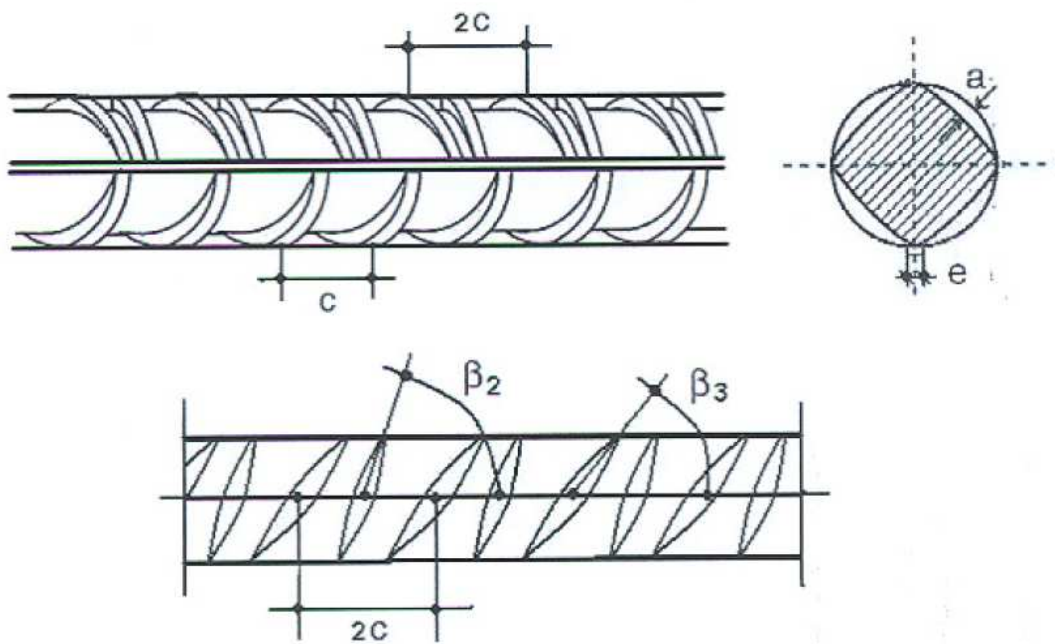


Aceros : ICDAS B 500 S FOUR RIBS





Aceros : ICDAS B 500 S FOUR RIBS



Y para que así conste a los efectos oportunos, se expide el presente Certificado en Madrid, a diez de enero de dos mil ocho.

EL DIRECTOR

Juan Monjo Carrió
Dr. Arquitecto





1/5



CERTIFICADO

DE

HOMOLOGACION DE ADHERENCIA

Nº 182 - IC/3

CORRESPONDIENTE AL ACERO CORRUGADO DE LA MARCA

ICDAS B 500 SD





2/5



Certificado nº 182-IC/3

JUAN MONJO CARRÍO, DIRECTOR DEL INSTITUTO DE CIENCIAS DE LA
CONSTRUCCIÓN EDUARDO TORROJA

CERTIFICA : Que conforme al procedimiento estipulado en la Norma UNE 36 740 y lo indicado en la Instrucción de Hormigón Estructural EHE, se han realizado en este Instituto los ensayos de homologación de adherencia de barras corrugadas de acero, para armaduras de hormigón armado, correspondientes a la marca ICDAS B 500 SD, fabricada por la empresa : ICDAS, resultando positivos dichos ensayos como consta en el informe nº : 18.491, y de acuerdo con los mismos, las características geométricas para las cuales puede garantizarse el cumplimiento de las condiciones de adherencia, son las que figuran en el siguiente cuadro :



J...



Certificado nº 182-IC/3

Diámetro ensayado en mm	Diámetro de la serie en mm	Altura mínima de corrugas en mm (a)	Separación máxima de corrugas en mm (c)
8	6	0,33	8,04
	8	0,44	10,72
	10	0,55	13,40
16	12	0,66	16,08
	14	0,77	18,76
	16	0,88	21,44
	20	1,10	26,80
32	25	1,37	33,5
	32	1,76	42,88
	40	2,20	53,60

Ángulo de inclinación de corrugas: $67^{\circ} \pm 10^{\circ}$ (β_1) 45° min (β_2)Perímetro sin corrugas: $\leq 0,35 \phi$ (2e)

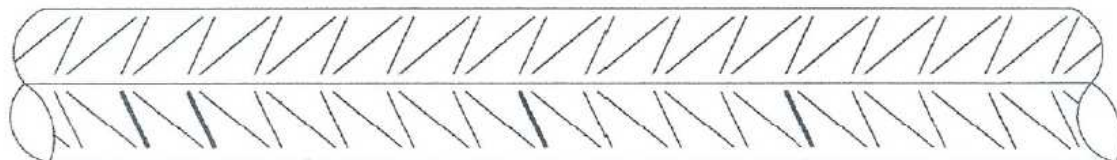
Asimismo, el perfil de este acero, código de identificación del fabricante y esquemas en los que se indican las cotas cuyos valores se han especificado en el cuadro anterior, son los que aparecen a continuación:





Certificado nº 182-IC/3

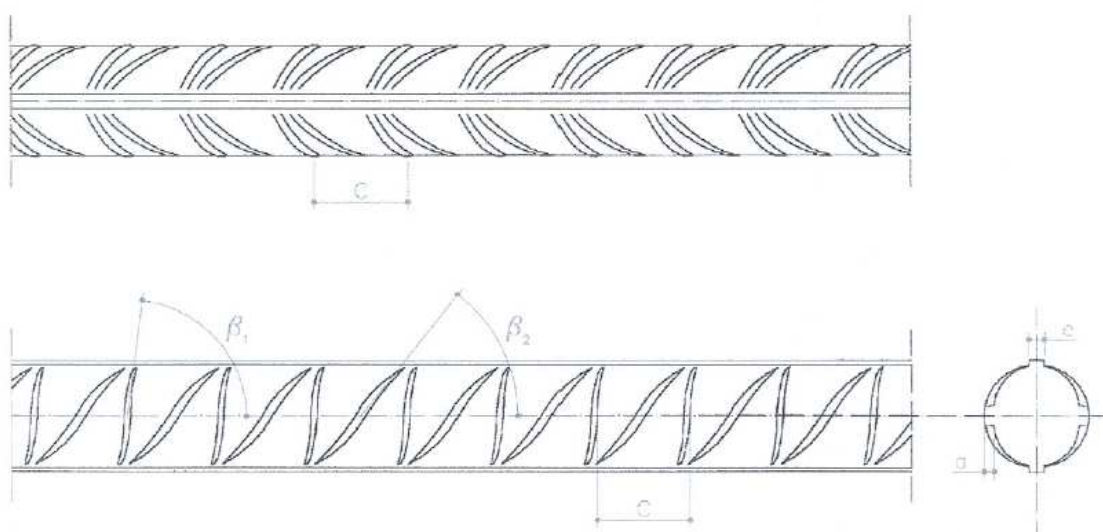
Aceros : I C D A S B 500 SD





Certificado nº 182-IC/3

Aceros : I C D A S B 500 SD



Y para que así conste a los efectos oportunos, se expide el presente Certificado en Madrid, a quince de junio de dos mil cuatro.

EL DIRECTOR


Juan Monjo Carrión
Dr. Arquitecto





1/5



CERTIFICADO

DE

HOMOLOGACION DE ADHERENCIA

Nº 206 - IC/5

CORRESPONDIENTE AL ACERO CORRUGADO DE LA MARCA

ICDAS B 500 SD FOUR RIBS





2/5



Certificado nº 206-IC/5

JUAN MONJO CARRIÓ, DIRECTOR DEL INSTITUTO DE CIENCIAS DE LA
CONSTRUCCIÓN EDUARDO TORROJA

CERTIFICA : Que conforme al procedimiento estipulado en la Norma UNE 36 740 y lo indicado en la Instrucción de Hormigón Estructural EHE, se han realizado en este Instituto los ensayos de homologación de adherencia de barras corrugadas de acero, para armaduras de hormigón armado, correspondientes a la marca ICDAS B 500 SD FOUR RIBS, fabricada por la empresa : IÇDAŞ ÇELİK ENERJİ TERSANE VE ULAŞIM SAN, A.Ş., resultando positivos dichos ensayos como consta en el informe nº : 19.141, y de acuerdo con los mismos, las características geométricas para las cuales puede garantizarse el cumplimiento de las condiciones de adherencia, son las que figuran en el siguiente cuadro :



J...

Certificado nº 206-IC/5

Diámetro ensayado en mm	Diámetro de la serie en mm	Altura mínima de corrugas en mm (a)	Separación máxima de corrugas en mm (c)
8	6	0,26	8,22
	8	0,34	10,96
	10	0,43	13,70

Ángulo de inclinación de corrugas: $65^{\circ} \pm 10^{\circ}$ (β_1) $45^{\circ} \pm 10^{\circ}$ (β_2)Perímetro sin corrugas: $\leq 0,40 \phi$ (4e)

Asimismo, el perfil de este acero, código de identificación del fabricante y esquemas en los que se indican las cotas cuyos valores se han especificado en el cuadro anterior, son los que aparecen a continuación:

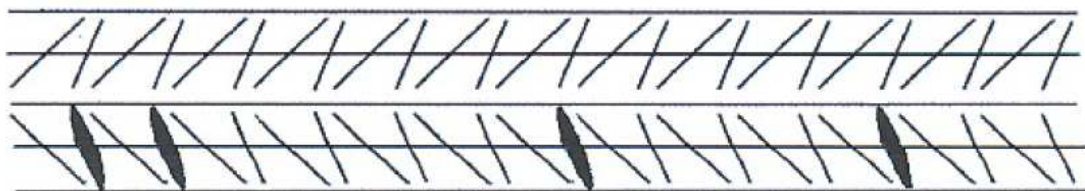


/...



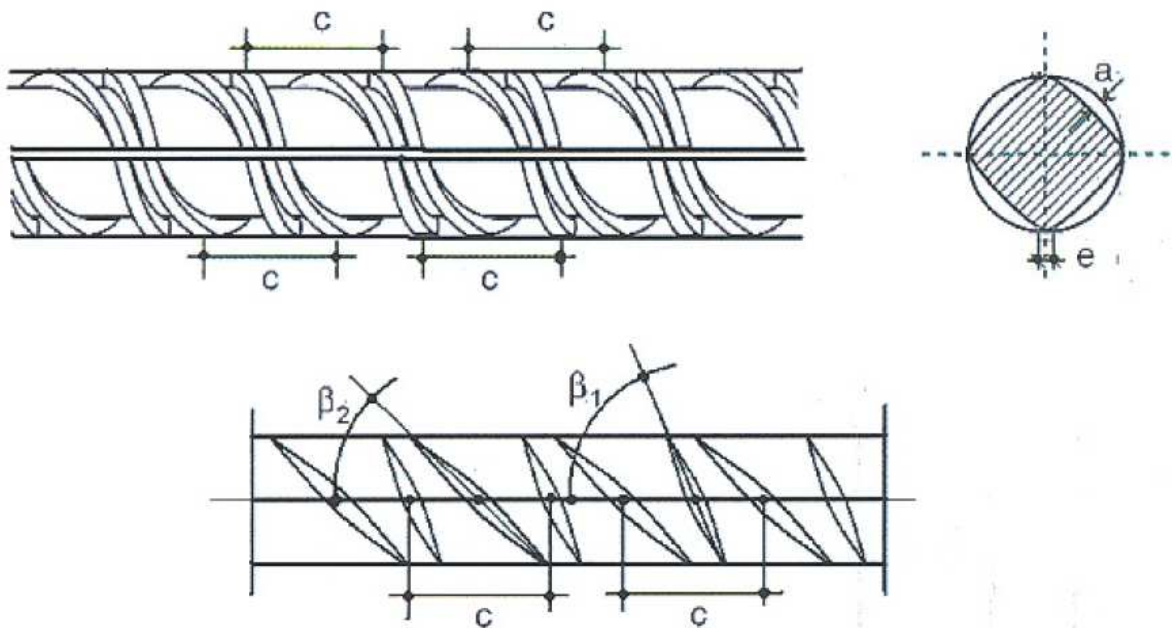
Certificado nº 206-IC/5

Aceros : ICDAS B 5 0 0 S D FOUR RIBS



Certificado nº 206-IC/5

Aceros : ICDAS B 500 S D FOUR RIBS



Y para que así conste a los efectos oportunos, se expide el presente Certificado en Madrid, a diez de enero de dos mil ocho

EL DIRECTOR



Juan Monjo Carrió
Dr. Arquitecto





ATTESTATO DI QUALIFICAZIONE

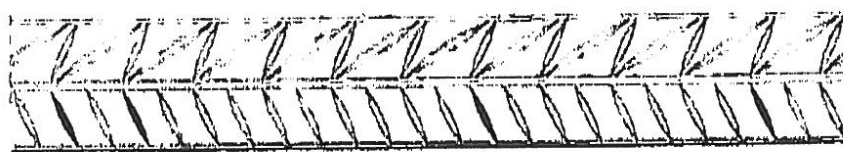
054/09-CA

In conformità al D.M. 14.01.2008 "Norme tecniche per le costruzioni", si attesta che il prodotto da costruzione:

ACCIAIO PER CEMENTO ARMATO LAMINATO A CALDO

B450C, saldabile, in barre, laminate a caldo nei diam. 8-40

Marchio di laminazione



prodotto da:

İCDAŞ ÇENERJİ TERSANE ve ULAŞIM SANYI A. Ş.
Biga Tesisleri, Degirmencik Koyu, Koyalti Mevkii, Biga-Canakkale - TURCHIA

nello stabilimento di:

BIGA CANAKKALE - TURCHIA

mandatario per l'Italia:

MORALIS LUIGI s.r.l. - Via Sonnino, 33 - 09125 CAGLIARI

è stato sottoposto da parte del Produttore alle prove di qualificazione del prodotto effettuate a cura del Laboratorio Ufficiale Politecnico di Torino - Dipartimento di Ingegneria Strutturale e Geotecnica e il Servizio Tecnico Centrale del Consiglio Superiore dei Lavori Pubblici ha effettuato l'ispezione iniziale dello stabilimento e del controllo di produzione in fabbrica.

Il presente certificato attesta che tutte le disposizioni riguardanti la procedura di qualificazione definita nella norma

D.M. 14.01.2008: "Norme tecniche per le costruzioni"

sono state applicate.

Il presente certificato è stato emesso per la prima volta in data **30.09.2009** ed ha validità 5 anni o sino a che le condizioni di produzione in fabbrica o il controllo di produzione in fabbrica non subiscano modifiche significative.

Roma, 30.09.2009



IL DIRIGENTE DEL
SERVIZIO TECNICO CENTRALE

Dott. Ing. Antonio Lucchese

ORGANISMO DI CERTIFICAZIONE ED ISPEZIONI SUI PRODOTTI DA COSTRUZIONI AI SENSI DELL'ART. 8 DEL D.P.R. 246/93 (NOTIFICATA COMMISSIONE EUROPEA N. 0969)

ORGANISMO DI BENEFICARI TECNICO EUROPEO (MEMBRO ROTA) AI SENSI DELL'ART. 5 DEL D.P.R. N. 246/93

ORGANISMO DI BENEFICARI TECNICO NAZIONALE AI SENSI DEL D.M. 14.01.2008

VIA Nomentana 2 00161 ROMA
TEL. 06 4412 4101, FAX 06 4426 7383
stc@infrastrutture.gov.it
www.eslp.it

Consiglio Superiore dei Lavori Pubblici Servizio Tecnico Centrale



ATTESTATO DI QUALIFICAZIONE

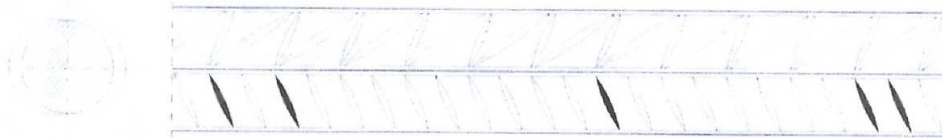
027/10-CA

In conformità al D.M. 14.01.2008 "Norme tecniche per le costruzioni", si attesta che il prodotto da costruzione:

ACCIAIO PER CEMENTO ARMATO LAMINATO A CALDO

B450C, saldabile, in rotoli, laminati a caldo nei diam. 6-16 mm

Marchio di laminazione



prodotto da:

İÇDAŞ ÇENERJİ TERSANE ve ULAŞIM SANYI A. Ş.
Biga Tesisleri, Degirmencik Koyu, Koyalti Mevkii, Biga-Canakkale - TURCHIA

nello stabilimento di:

BIGA CANAKKALE - TURCHIA

mandatario per l'Italia:

MORALIS LUIGI s.r.l. - Via Sonnino, 33 - 09125 CAGLIARI

è stato sottoposto da parte del Produttore alle prove di qualificazione del prodotto effettuate a cura del Laboratorio Ufficiale Politecnico di Torino - Dipartimento di Ingegneria Strutturale e Geotecnica e il Servizio Tecnico Centrale del Consiglio Superiore dei Lavori Pubblici ha effettuato l'ispezione iniziale dello stabilimento e del controllo di produzione in fabbrica.

Il presente certificato attesta che tutte le disposizioni riguardanti la procedura di qualificazione definita nella norma

D.M. 14.01.2008: "Norme tecniche per le costruzioni"

sono state applicate.

Il presente certificato è stato emesso per la prima volta in data 20.10.2010 ed ha validità 5 anni o sino a che le condizioni di produzione in fabbrica o il controllo di produzione in fabbrica non subiscano modifiche significative.

Roma, 20.10.2010



IL DIRIGENTE DELLA DIVISIONE III
DEL SERVIZIO TECNICO CENTRALE

Dott. Ing. Bruno Santoro



Certificado



Certificado nº PSG - 032/2011
Certificate no.

Nome e morada do titular do certificado:
Name and address of certificate holder:

Içdas Çelik Enerji Tersane ve Ulasim Sanayi A.S.
Biga Tesisleri
Degirmencik Koyu
Koyalti Mevkii
17200 Biga
Turkey

Nome e morada do fabricante:
Manufacturer's name and address:

Içdas Çelik Enerji Tersane ve Ulasim Sanayi A.S.
Biga Tesisleri
Degirmencik Koyu - Koyalti Mevkii
17200 Biga
Turkey

Produto:
Product:

Varão de aço para armaduras de betão armado
Steel bars for reinforced concrete

Referências:
Type references:

IÇDAS 400S – BIGA
(A400 NR)

Marca(s) comercial(is):
Trademark(s):

Características técnicas:
Technical characteristics:

Classe / Class: A400 NR
Diâmetros produzidos sob a forma de / *Diameters produced as:*
Comprimento recto / *Straight length* [mm]: 6, 8, 10, 12, 16, 20, 25, 32, 40
Rolo / *Coil* [mm]: 6, 8, 10, 12, 16

Este produto está em conformidade com:
This product is in conformity with:

Especificação / *Specification*
LNEC: E 449 – 2010

Relatórios de ensaios nº(s) / emitidos por:
Test report(s) no. / issued by:

Nota Técnica nº 146/2008 – NCE/DE / LNEC

Informação adicional (se existir):
Additional information (if any):

Documento de Classificação / *Classification Document* LNEC DC 280
O produto fabricado até 31 de Dezembro de 2011 poderá cumprir com as marcações constantes do DC 175 / *The product manufactured until 31st December 2011 may comply with the marking mentioned on DC 175*

Este certificado é válido até:
This certificate is valid until:

2016-05-25

e substitui o certificado nº:
and supersedes certificate no:

PSG-002/2009

Data de emissão:
Date of issue:

2011-05-26

Francisco Barroca
Director Geral / *General Manager*





Certificado nº
Certificate no. **PSG - 033/2011**

Nome e morada do titular do certificado:
Name and address of certificate holder:

İçdas Çelik Enerji Tersane ve Ulasim Sanayi A.S.
Biga Tesisleri
Degirmencik Koyu
Koyalti Mevkii
17200 Biga
Turkey

Nome e morada do fabricante:
Manufacturer's name and address:

İçdas Çelik Enerji Tersane ve Ulasim Sanayi A.S.
Biga Tesisleri
Degirmencik Koyu - Koyalti Mevkii
17200 Biga
Turkey

Produto:
Product:

Varão de aço para armaduras de betão armado
Steel bars for reinforced concrete

Referências:
Type references:

İÇDAS 500S – BIGA
(A500 NR)

Marca(s) comercial(is):
Trademark(s):

Características técnicas:
Technical characteristics:

Classe / Class: A500 NR
Diâmetros produzidos sob a forma de / *Diameters produced as:*
Comprimento recto / *Straight length [mm]:* 6, 8, 10, 12, 16, 20, 25, 32, 40
Rolo / *Coil [mm]:* 6, 8, 10, 12, 16

Este produto está em conformidade com:
This product is in conformity with:

Especificação / *Specification*
LNEC : E 450 – 2010

Relatórios de ensaios nº(s) / emitidos por:
Test report(s) no. / issued by:

Notas Técnicas nº 146/2008 - NCE/DE / LNEC

Informação adicional (se existir):
Additional information (if any):

Documento de Classificação / *Classification Document* LNEC DC 281
O produto fabricado até 31 de Dezembro de 2011 poderá cumprir com as marcações constantes do DC 176 / *The product manufactured until 31st December 2011 may comply with the marking mentioned on DC 176*

Este certificado é válido até:
This certificate is valid until:
e substitui o certificado nº:
and supersedes certificate no:

2016-05-25
PSG-003/2009

Data de emissão:
Date of issue:

2011-05-26

Francisco Barroca
Director Geral / *General Manager*





BUILDING RESEARCH INSTITUTE (NISI) Ltd.
CONFORMITY ASSESSMENT BODY FOR CONSTRUCTION PRODUCTS

Licence granted by the Ministry of Development and Public Works (MRRB), ref.No ROSSP-07 of 14-01-2008

Registration number 07 of the Register of the MRRB

1618 Sofia, BULGARIA, 86 Nikola Petkov Blvd, tel.+359 2 856 10 82, fax +359 2 955 96 38, e-mail: nisi_sofia@abv.bg

C E R T I F I C A T E
O F C O N F O R M I T Y
07-RERCCACP-09.42

In compliance the Chapter Three of the Bulgarian *Regulation for the Essential Requirements to Constructions and Conformity Assessment of Construction Products (RERCCACP)* it has been stated that the construction product

REINFORCING STEEL Grade B500B and Grade B500C
IN BARS 8÷40 mm & IN COILS 6÷16 mm

intended to be used for general (not pre-stressed) reinforced concrete structures and products

placed on the market by

İÇDAŞ ÇELİK ENERJİ TERSANE VE ULAŞIM SANAYİ A.Ş.
GÜNEŞLİ MAH.DEVEKALDIRIMI CAD.NO 21, BAĞCILAR İSTANBUL, TURKEY

and produced in the factory of

İÇDAŞ ÇELİK ENERJİ TERSANE VE ULAŞIM SANAYİ A.Ş.
BIGA TESİSLERİ, DEĞİRMENCIK KÖYÜ, KÖYALTI MEVKİİ, BIGA ÇANAKKALE, TURKEY

is submitted by the manufacturer to a factory production control and to the further testing of samples taken at the factory in accordance with a prescribed test plan and that the approved body – **NISI Ltd** - has performed the initial type-testing for the relevant characteristics of the product, the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of the factory production control and an audit-testing of samples taken at the factory, on the market or at the construction site.

This certificate attests that all provisions concerning the attestation of conformity and the performances described in the standards

BDS 9252:2007 and EN 10080:2005

were applied and that the product fulfils all the prescribed requirements.

This certificate is an extension of the certificate 07-RERCCACP-09.42 that was first issued on 30.06.2009 and remains valid as long as the conditions laid down in the technical specifications in reference or the manufacturing conditions in the factory or the FPC itself are not modified significantly.

This product was first assessed on 30.06.2006 according to the Bulgarian *Regulation for the Essential Requirements to Constructions and Conformity Assessment of Construction Products (RERCCACP)*.

General Manager of NISI Ltd.

Assoc. Prof. Dr. Eng. Rumen Guglev

SOFIA, 03-09-2010





CERTIFICAT DE CONFORMITATE

0335.1/31.05.2013

Prin prezentul certificat de conformitate se atestă că produsul

OȚEL BETON LAMINAT LA CALD,

Tip: OB 37, clasa I, Bare: de la Ø 6 mm la Ø 25 mm;

Colaci: de la Ø 6 mm la Ø 18 mm,

Introdus pe piață și fabricat de către

IÇDAŞ ÇELİK ENERJİ TERSANE ve ULAŞIM SANAYİ A.Ş.

Sediu social: Güneşli Mah Devekaldırımı Cad. No. 21, Bağcılar, ISTANBUL, TURCIA,

Tel: +90 212 550 41 04/ 550 41 04, fax: + 90 212 550 20 24/ 651 97 89;

Punct de lucru: Biga Tesisleri, Değirmencik Köyü, Köyalti Mevkii,

Biga – Çanakkale, TURCIA, tel: +90 286 364 58 00; fax: +90 286 364 58 76

este supus de către producător încercărilor periodice și unui control continuu al procesului de producție care cuprinde toate măsurile necesare pentru îndeplinirea și menținerea cerințelor specificate în standardul de referință.

ICECON CERT a efectuat inspecția periodică a procesului de producție și a sistemului calității aplicat, a evaluat rezultatele încercărilor periodice și va efectua supravegherea continuă a procesului de producție, a sistemului de control și a produsului prin încercări pe eșantioane prelevate de la locul de producție.

Acest certificat atestă că toate cerințele referitoare la reevaluarea conformității produsului descrise în standardul de referință

SR 438-1:2012

au fost îndeplinite.

Sistem de certificare aplicabil: 5, conform SR Ghid ISO/CEI 67:2006.

Prezentul certificat a fost eliberat la data de **31.05.2013** și rămâne valabil până la data de **30.05.2016**, în condițiile în care produsul continuă să fie conform cu cerințele specificate în standardul de referință.

Domeniu de utilizare: **Armarea betonului.**

București, 31.05.2013

Director Executiv
Ing. Genica ANTOHE



RECERTIFICARE

Etapele
supravegherii
valabilității
certificatului

Etapa I
30.11.2013

Etapa II
30.11.2014

Etapa III
30.11.2015



CERTIFICAT DE CONFORMITATE

0336.1/31.05.2013

Prin prezentul certificat de conformitate se atestă că produsul

OȚEL BETON LAMINAT LA CALD, clasa de ductilitate* C

Tip: PC 52, clasa II, Bare: de la Ø 6 mm la Ø 40 mm;

Colaci: de la Ø 6 mm la Ø 16 mm;

Introdus pe piață și fabricat de către

İÇDAŞ ÇELİK ENERJİ TERSANE ve ULAŞIM SANAYİ A.Ş.

Sediu social: Güneşli Mah Devekaldırımı Cad. No. 21, Bağcılar, ISTANBUL, TURCIA,

Tel: +90 212 550 41 04/ 550 41 04, fax: + 90 212 550 20 24/ 651 97 89;

Punct de lucru: Biga Tesisleri, Değirmencik Köyü, Köyalti Mevkii,

Biga – Çanakkale, TURCIA, tel: +90 286 364 58 00; fax: +90 286 364 58 76

este supus de către producător încercărilor periodice și unui control continuu al procesului de producție care cuprinde toate măsurile necesare pentru îndeplinirea și menținerea cerințelor specificate în standardul de referință.

ICECON CERT a efectuat inspecția periodică a procesului de producție și a sistemului calității aplicat, a evaluat rezultatele încercărilor periodice și va efectua supravegherea continuă a procesului de producție, a sistemului de control și a produsului prin încercări pe eșantioane prelevate de la locul de producție.

Acest certificat atestă că toate cerințele referitoare la reevaluarea conformității produsului descrise în standardul de referință

SR 438-1:2012

au fost îndeplinite.

Sistem de certificare aplicabil: 5, conform SR Ghid ISO/CEI 67:2006.

Prezentul certificat a fost eliberat la data de **31.05.2013** și rămâne valabil până la data de **30.05.2016**, în condițiile în care produsul continuă să fie conform cu cerințele specificate în standardul de referință.

Domeniu de utilizare: **Armarea betonului.**

Director Executiv
Ing. Genica ANTOHE



București, 31.05.2013

*Conform cerințelor specificației tehnice ST 009:2011

RECERTIFICARE

Etapele
supravegherii
valabilității
certificatului

Etapa I
30.11.2013

Etapa II
30.11.2014

Etapa III
30.11.2015



CERTIFICAT DE CONFORMITATE

0337.1/31.05.2013

Prin prezentul certificat de conformitate se atestă că produsul

OȚEL BETON LAMINAT LA CALD, clasa de ductilitate* C

Tip: PC 60, clasa III, Bare: de la Ø 6 mm la Ø 40 mm;

Colaci: de la Ø 6 mm la Ø 16 mm;

Introdus pe piață și fabricat de către

IÇDAŞ ÇELİK ENERJİ TERSANE ve ULAŞIM SANAYİ A.Ş.

Sediu social: Güneşli Mah Devekaldırımı Cad. No. 21, Bağcılar, ISTANBUL, TURCIA,

Tel: +90 212 550 41 04/ 550 41 04, fax: + 90 212 550 20 24/ 651 97 89;

Punct de lucru: Biga Tesisleri, Değirmencik Köyü, Köyalti Mevkii,

Biga – Çanakkle, TURCIA, tel: +90 286 364 58 00; fax: +90 286 364 58 76

este supus de către producător încercărilor periodice și unui control continuu al procesului de producție care cuprinde toate măsurile necesare pentru îndeplinirea și menținerea cerințelor specificate în standardul de referință.

ICECON CERT a efectuat inspecția periodică a procesului de producție și a sistemului calității aplicat, a evaluat rezultatele încercărilor periodice și va efectua supravegherea continuă a procesului de producție, a sistemului de control și a produsului prin încercări pe eșantioane prelevate de la locul de producție.

Acest certificat atestă că toate cerințele referitoare la reevaluarea conformității produsului descrise în standardul de referință

SR 438-1:2012

au fost îndeplinite.

Sistem de certificare aplicabil: 5, conform SR Ghid ISO/CEI 67:2006.

Prezentul certificat a fost eliberat la data de **31.05.2013** și rămâne valabil până la data de **30.05.2016**, în condițiile în care produsul continuă să fie conform cu cerințele specificate în standardul de referință.

Domeniu de utilizare: **Armarea betonului.**

Director Executiv
Ing. Genica ANTOHE

București, 31.05.2013

*Conform cerințelor specificației tehnice ST 009:2011



RECERTIFICARE

Etapele
supravegherii
valabilității
certificatului

Etapa I
30.11.2013

Etapa II
30.11.2014

Etapa III
30.11.2015



ROMÂNIA

**MINISTERUL DEZVOLTĂRII REGIONALE ȘI
ADMINISTRAȚIEI PUBLICE
CONSILIUL TEHNIC PERMANENT PENTRU CONSTRUCȚII**

A V I Z T E H N I C

În baza procesului verbal nr. **1-145**, din data de **27.06.2013** al Comisiei de avizare nr. 1 a agrementelor tehnice în construcții:

CONSILIUL TEHNIC PERMANENT PENTRU CONSTRUCȚII

AVIZEAZĂ FAVORABIL:

agrementul tehnic nr. **016-01/285-2013**, elaborat de **ICECON BUCUREȘTI**, pentru **OTEL BETON LAMINAT LA CALD TIP B 500, CATEGORIA DE DUCTILITATE C, BARE Ø8 ... Ø40mm, COLACI Ø8 ... Ø16mm**, al cărui producător este **IÇDAŞ ÇELİK ENERJİ TERSANE ve ULASIM A.Ş. TURCIA**.

Prezentul **AVIZ TEHNIC** este valabil până la data de **27.06.2015** și se poate prelungi în situația în care titularul face dovada menținerii aptitudinii de utilizare a obiectului agrementului tehnic, conform prevederilor menționate la cap. „condiții” din agrementul tehnic.

Agrementul tehnic este valabil până la data de **30.06.2016**, pentru titular, producător și distribuitorii din anexa la agrementul tehnic.

PREȘEDINTE CTPC

Iulian MATACHE



Șef Secretariat Tehnic CTPC

Gheorghe HAȘCĂU

MINISTERUL DEZVOLTĂRII REGIONALE SI TURISMULUI
CONSILIUL TEHNIC PERMANENT PENTRU CONSTRUCTII



Agreement Tehnic

016-01/268-2012

Modifica AT 016-01/212-2010

*OTEL BETON LAMINAT LA CALD TIP B 500 B BARE Φ 6... Φ 40 mm, COLACI Φ 6... Φ 16 mm
ACIER BÉTON LAMINÉ A CHAUD TYPE B 500 B, BARRE Φ 6... Φ 40 mm, BOBINES Φ 6... Φ 16 mm
HOT ROLLED STEEL REINFORCING TYPE B 500 B, BARS Φ 6... Φ 40 mm, COILS Φ 6... Φ 16 mm
HEISSE GEROLLTE BETONSTAHL TYP B 500 B, BETONSTABSTAHL Φ 6... Φ 40 mm,
BETONSTABSTAHL in RINGEN Φ 6... Φ 16 mm*

COD 2.7

PRODUCĂTOR: IÇDAŞ ÇELİK ENERJİ TERSANE ve ULASIM A.Ş,

Biga Tesisleri, Değirmencik Köyü, Köyalti Mevkii, Biga-Çanakkale/Turcia,

Tel: +90 286 364 58 00, Fax: +90 286 364 58 76

TITULAR AGREMENT TEHNIC:

IÇDAŞ ÇELİK ENERJİ TERSANE ve ULASIM A.Ş,

Güneşli Mah. No. 2134212, Güneşli-Bağcılar/Istanbul-Turcia,

Tel: +90 212 550 47 72, Fax: +90 212 550 20 24

ELABORATOR AGREMENT TEHNIC : ICECON SA Bucureşti

Institutul de Cercetări pentru Echipamente și Tehnologii în Construcții.

Șos. Pantelimon 266, Sector 2, Cod poștal 021652, CP 3-33.

Tel. +40 21 2550734; +40 21 2553149; Fax +40 21 2551420.

GRUPA SPECIALIZATĂ NR. 01

Elemente structurale și fundații

Prezentul agreement tehnic este valabil până la data de 30.06.2014 numai însoțit de AVIZUL TEHNIC al Consiliului Tehnic Permanent pentru Construcții și nu ține loc de certificat de calitate.

CERTIFICATE OF PRODUCT CONFORMITY

Dubai Central Laboratory Department (DCLD) of Dubai Municipality,
hereby attests that the product(s):

STEEL FOR THE REINFORCEMENT OF CONCRETE
(Details as per the attached Scope of Certification)

manufactured by:

ICDAS CELIK ENERJI TERSANE VE ULASIM SANAYI A.S.
Karabiga, Canakkale, Turkey

have been assessed in accordance with DCLD Document Ref. No. RD-DP21-2001 (IC) "General Rules for DM third party product certification system through factory assessment" and the relevant Specific Rules, and were found in conformity with the standard specification:

BS 4449:1997 with Amd. 1

Accordingly, DCLD hereby authorizes the above manufacturer
to affix the DCL Product Conformity Mark to the above-mentioned product(s).



ENGR. HAWA ABDULLA BASTAKI
Director, Dubai Central Laboratory Department
Dubai Municipality



Certificate No: CL08020054
Valid Until: 24 November 2013



Current Issue Date: 25 November 2012
Original Issue Date: 25 November 2008

The attached Scope of Certification bearing the same Certificate No. forms an integral part of this certificate.
This certificate is subject to the Terms and Conditions of the Product Certification System



CB-003

CERTIFICATE OF PRODUCT CONFORMITY

Dubai Central Laboratory Department (DCLD) of Dubai Municipality,
hereby attests that the product(s):

STEEL FOR THE REINFORCEMENT OF CONCRETE
(Details as per the attached Scope of Certification)

manufactured by:

ICDAS CELIK ENERJI TERSANE VE ULASIM SANAYI A.S.
Karabiga, Canakkale, Turkey

have been assessed in accordance with DCLD Document Ref. No. RD-DP21-2001 (IC) "General Rules for DM third party product certification system through factory assessment" and the relevant Specific Rules, and were found in conformity with the standard specification:

BS 4449: 2005

Accordingly, DCLD hereby authorizes the above manufacturer
to affix the DCL Product Conformity Mark to the above-mentioned product(s).



ENGR. HAWA ABDULLA BASTAKI
Director, Dubai Central Laboratory Department
Dubai Municipality



Certificate No: CL08020055
Valid Until: 24 November 2013



Current Issue Date: 25 November 2012
Original Issue Date: 25 November 2008

The attached Scope of Certification bearing the same Certificate No. forms an integral part of this certificate.
This certificate is subject to the Terms and Conditions of the Product Certification System



CB-003

CERTIFICATE OF PRODUCT CONFORMITY

Dubai Central Laboratory Department (DCLD) of Dubai Municipality,
hereby attests that the product(s):

DEFORMED CARBON STEEL BARS FOR CONCRETE REINFORCEMENT
(Details as per the attached Scope of Certification)

manufactured by:

ICDAS CELIK ENERJI TERSANE VE ULASIM SANAYI A.S.
Karabiga, Canakkale, Turkey

have been assessed in accordance with DCLD Document Ref. No. RD-DP21-2001 (IC) "General Rules for DM third party product certification system through factory assessment" and the relevant Specific Rules, and were found in conformity with the standard specification:

ASTM A 615:2009

Accordingly, DCLD hereby authorizes the above manufacturer
to affix the DCL Product Conformity Mark to the above-mentioned product(s).


ENGR. HAWA ABDULLA BASTAKI
Director, Dubai Central Laboratory Department
Dubai Municipality



Certificate No: CL08020053
Valid Until: 24 November 2013



Current Issue Date: 25 November 2012
Original Issue Date: 25 November 2008

The attached Scope of Certification bearing the same Certificate No. forms an integral part of this certificate.
This certificate is subject to the Terms and Conditions of the Product Certification System



Autorização para o Uso do Selo da Identificação da Conformidade

Authorization for the Use of Conformity Identification Seal
Autorización para el Uso del Sello de Identificación de la Conformidad

3566/09

Número: **CE.ACO.3831/09**

Number/Numero

Emissão: **17/12/2009**

Issue/Emisión

Produto: **Barras e Fios de Aço**

Product/Producto

Validade: **16/12/2013**

Validity/Validez

Solicitante/Endereço:

Requester - Address / Solicitante - Dirección

SAINTE MARIE IMPORTAÇÃO E EXPORTAÇÃO LTDA
CNPJ:05.289.245/0001-02
Av. Nossa Senhora dos Navegantes, 451, Salas 605 e 606
29050-335 - Vitória - ES

Fabricante/Endereço:

Manufacturer - Address / Fabricador - Dirección

IÇDAS CELIK ENERJI TERSANE VE ULAŞIM SANAYI A. Ş.
Degimerncik Koyu Koyalti Mevkii
Biga - Çanakkale - Turquia

Condições em que esta Licença é emitida

Conditions of issue / Condiciones de Expedición

Portaria INMETRO nº 210, de 1º/11/2005.

Norma Aplicável

Applicable Standard / Norma Aplicable

NBR 7480:1996 – Barras e fios de aço destinados a armadura para concreto armado – Especificações

Laboratório de Ensaio:

Testing Laboratory / Laboratorio de Ensayo

IÇDAS CELIK ENERJI TERSANE VE ULASIM SANAYI A.S. - Laboratório de Usina, L. A. FALCÃO BAUER C. T. C. Q. LTDA. -

Nº do Relatório

Test Report Number / Num. del informe de Ensayo

REN 3983/2009, 3984/2009, 3986/2009

Informações Complementares:

Additional Information / Informaciones Complementares

Esta Autorização para o Uso do Selo da Identificação da Conformidade está vinculada ao contrato nº **CE.ACO.3831/09**, à realização da manutenção semestral da certificação;

Referência:	Descrição
CA 50	Barras de Aço - Série Fina (6,3 mm e 8,0 mm)
CA 50	Barras de Aço - Série Média (10,0 mm; 12,5 mm; 16,0 mm e 20,0 mm)
CA 50	Barras de Aço - Série Grossa (22,0 mm; 25,0 mm; 32,0 mm e 40,0 mm)

E estende-se às filiais:

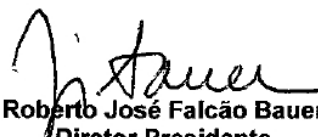
Filial São Paulo

CNPJ.: 05.289.245/0002-85
Rua Cantagalo, 74 – Salas 501 a 505
03319-000 – São Paulo – SP

Filial Itajaí

CNPJ.: 05.289.245/0003-66
Av. Coronel Marcos Konder, 1207 – Sala 97
88301-303 – Itajaí – SC


Paulo A N Spinosa
Gerente Geral


Roberto José Falcão Bauer
Diretor Presidente





Autorização para o Uso do Selo da Identificação da Conformidade

Autorization for the Use of Conformity Identification Seal

Autorizacion para el Uso del Sello de Identificacion de la Conformidad

1519/10

Número: **CE.ACO.4007/10**

Number/Numero

Emissão: **21/06/2010**

Issue/Emission

Produto: **Barras e Fios de Aço**

Product/Producto

Validade: **20/06/2014**

Validity/Validez

Solicitante/Endereço:

Requester - Address / Solicitante - Dirección

GIASSI COMÉRCIO DE FERRO E AÇO LTDA

CNPJ:07.715.282/0001-52

Rua Henrique Osvald, 243

88506-540 - Lages - SC

Fabricante/Endereço:

Manufacturer - Address / Fabricador - Dirección

IÇDAS CELIK ENERJI TERSANE VE ULASIM SANAYI A.S.

Degirmencik Koyu Koyalti Mevkii - Biga

Çanakkale - Turquia

Condições em que esta Licença é emitida

Conditions of issue / Condiciones de Expedición

Portaria INMETRO nº 210, de 1º/11/2005.

Norma Aplicável

Applicable Standard / Norma Aplicable

NBR 7480:1996 - Barras e fios de aço destinados a armadura para concreto armado - Especificações

Laboratório de Ensaio:

Testing Laboratory / Laboratorio de Ensayo

L. A. FALCÃO BAUER C. T. C. Q. LTDA. IÇDAS CELIK ENERJI TERSANE VE ULASIM SANAYI A.S.

Nº do Relatório

Test Report Number / Num. del Informe de Ensayo

REN 1145/2010

Informações Complementares:

Additional Information / Informaciones Complementares

Esta Autorização para o Uso do Selo de Identificação de Conformidade está vinculada ao contrato n.º **CE.ACO.4007/10**, à realização da manutenção semestral da certificação;

Referência	Marca	Descrição
CA 50	GFA 50	Barras de Aço - Série Fina (6,3 mm e 8,0 mm)
CA 50	GFA 50	Barras de Aço - Série Média (10,0 mm, 12,5 mm, 16,0 mm e 20,0 mm)
CA 50	GFA 50	Barras de Aço - Série Grossa (22,0 mm, 25,0 mm, 32,0 mm e 40,0 mm)



Paulo A. N. Spinosa
Gerente Geral

Roberto José Falcão Bauer
Diretor Presidente

BUREAU VERITAS
Certification



Certificado de Aprovação

Conferido ao Solicitante

AÇO CEARENSE COMERCIAL LTDA

CNPJ: 07.557.333/0001-65

Rua Antônio Pompeu, 1900 - Otavio Bonfim - 60040-000 - Fortaleza/CE
BRASIL

FABRICANTE: IÇDAS Çelik Enerji Tersane ve Ulasim Sanayi A.S.

Günesli Mah. Devekald. Cad. 21 Mahmutbey - 34212 - Istanbul

TURQUIA

O Bureau Veritas Certification certifica que o Produto constante no item escopo de fornecimento abaixo especificado, foi avaliado e encontrado em conformidade com os requisitos da norma de referência detalhada abaixo:

NORMA DE REFERÊNCIA

ABNT NBR 7480:2007, Portaria nº 073 de 17/03/2010 e Portaria nº 003 de 04/01/2011 do INMETRO

ESCOPO DE FORNECIMENTO

BARRAS DE AÇO DESTINADOS A ARMADURA PARA ESTRUTURAS DE CONCRETO ARMADO

CA 50 – Série Fina: diâmetros de 6,30 mm e 8,00 mm

MARCA AC 50

Comercialização: Dobrado e Endireitado

Data da Aprovação Original: **04 DE MAIO DE 2011**

Este Certificado está sujeito a avaliação satisfatória e contínua do Fornecedor, conforme determinado no Contrato de Certificação de Produto nº BR.0972087-SVD e é válido até **04 DE MAIO DE 2014**

Número do Certificado: **BR230562**

Data: **04 DE MAIO DE 2011**

Walter Landisio
Commercial Manager
Av. do Café, 277, Torre B, 5º Andar
Centro Empresarial do Aço
04311-000 - Vila Guarani - São Paulo/SP - Brasil



O uso da identificação acima indica a acreditação em relação às atividades cobertas pelo certificado nº OCP - 0018





KS CERTIFICATE

This is to certify that the Korean Industrial Standard Mark(KS mark) of :

**ICDAS CELIK ENERJI TERSANE VE ULASIM SAN.A.S.
DEGIRMENCIK VILLAGE KOY ALTI MEVKII BIGA
CANAKKALE, TURKEY
ADNAN ASLAN**

*has been approved by Korean Standards Association
to the following Korean Industrial Standard :*

**KS D 3504
Steel bars for concrete reinforcement
SD400, SD500, SD600(under D43). end**

in accordance with the Korean Industrial Standardization Act.

Certificate Number : 09-0459

Certification Date : 28-Nov-2012

Current Certificate : 28-Nov-2012

Certified by Chang Ryong Kim

President

Korean Standards Association

Korea Technology Center, 701-7, Yeoksam-dong, Gangnam-gu, Seoul, Korea





제품인증서

인증번호 : 제 09-0459 호

제조업체명 : 이씨다스

대표자성명 : ADNAN ASLAN

공장소재지 : DEGIRMENCIK VILLAGE KOY ALTI MEVKII BIGA CANAKKALE, TURKEY

인증제품

- 표 준 명 : 철근 콘크리트용 봉강
- 표준번호 : KS D 3504
- 종류·등급 또는 호칭 :
SD400, SD500, SD600(D43이하) . 풀

산업표준화법 제17조 제1항에 따른 인증심사를 실시한 결과
한국산업표준(KS)과 인증심사기준에 적합하므로 산업표준화법 제15조에 따라
위와 같이 한국산업표준(KS)에 적합함을 인증합니다.

2012 년 11 월 28 일

한국표준협회장



- 1 최초인증일 : 2009.11.18
- 2 최종변경일 : 2012.11.28 (종류등급추가)





土木工程拓展署
**CEDD Civil Engineering and
 Development Department**

Web site 網址 : <http://www.cedd.gov.hk>
 E-mail 電子郵件 : ywym@cedd.gov.hk
 Telephone 電話 : (852) 2305 1275
 Facsimile 傳真 : (852) 2707 4825
 Our ref 本署檔號 : GCST 4/20/9-13
 Your ref 來函檔號 :

土力工程處
 Geotechnical Engineering Office

香港九龍祥業街 2 號 B
 工務中央試驗所大樓 工務試驗所
 Public Works Laboratories,
 Public Works Central Laboratory Building,
 2B Cheung Yip Street,
 Kowloon, Hong Kong

ICDAS Celik Enerji Tersane Ve Ulasim Sanayi A.S.
 c/o VSC Steel Company Limited
 49/F., Hopewell Centre,
 183 Queen's Road East, Wan Chai,
 Hong Kong
 (Attn: Mr. Eric Li)

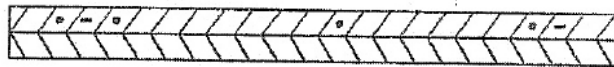
4 March 2011

Dear Mr. Li,

Steel Bar Codes Registration - BS 4449/CS2:1995

I refer to your letter dated 25.02.2011 enclosing QA certificate, quality manual, mill certificates and sample of steel bar of sizes 8, 16 & 40mm manufactured to BS4449/CS2:1995.

The submitted document and samples were found to be acceptable. ICDAS Celik Enerji Tersane Ve Ulasim Sanayi A.S. is hereby accepted as a Quality Assured Manufacturer and assigned with the Bar Pattern Code TUK31 in the PWL Steel Bar Circular. The relevant Bar Pattern drawing is appended below for your reference. The forthcoming updating of the Circular is tentatively to be 1 April 2011.



TUK31

ICDAS Celik Enerji Tersane Ve Ulasim Sanayi A.S.

Yours faithfully,

(Y.W. Yim)

for Chief Geotechnical Engineer/Standards & Testing
 Geotechnical Engineering Office
 Civil Engineering and Development Department

Web site 網址 : <http://www.cedd.gov.hk>
E-mail 電子郵件 : ywym@cedd.gov.hk
Telephone 電話 : (852) 2305 1275
Facsimile 傳真 : (852) 2707 4825
Our ref 本署檔號 : GCST 4/20/9-13
Your ref 來函檔號 : VSCS11-040/EL

香港九龍祥業街 2 號 B
工務中央試驗所大樓 工務試驗所
Public Works Laboratories,
Public Works Central Laboratory Building,
2B Cheung Yip Street,
Kowloon, Hong Kong

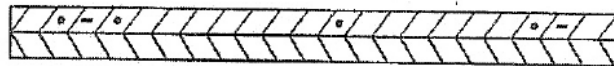
ICDAS Celik Enerji Tersane Ve Ulasim Sanayi A.S.
c/o VSC Steel Co., Ltd
49/F., Hopewell Centre,
183 Queen's Road East,
Wanchai,
Hong Kong.

18 March 2011

Dear Sirs,

Steel Bar Codes Registration - BS 4449/CS2:1995

I refer to your letter dated 14.03.2011 enclosing mill certificates and samples of steel bar of size 10 mm, 12 mm, 20 mm, 25 mm and 32 mm manufactured by ICDAS Celik Enerji Tersane Ve Ulasim Sanayi A.S. to BS4449:1988/CS2:1995 under the Bar Pattern Code TUK31. The submitted documents were found to be acceptable and your application to include the above sizes of steel bar into the PWL Steel Bar Circular is hereby approved. The relevant Bar Pattern drawing is appended below for your reference. The next updating of the Circular is tentatively to be 1 July 2011.



TUK31

ICDAS Celik Enerji Tersane Ve Ulasim Sanayi A.S.

Yours faithfully,


(Y.W. Yim)

for Chief Geotechnical Engineer/Standards & Testing
Geotechnical Engineering Office
Civil Engineering and Development Department

YWY/-



土力工程處
Geotechnical Engineering Office

Web site 網址 : <http://www.cedd.gov.hk>
E-mail 電子郵件 : ywyim@cedd.gov.hk
Telephone 電話 : (852) 2305 1275
Facsimile 傳真 : (852) 2707 4825
Our ref 本署檔號 : GCST 4/20/9-13
Your ref 來函檔號 : VSCS11-154/EL

香港九龍祥業街 2 號 B
工務中央試驗所大樓 工務試驗所
Public Works Laboratories,
Public Works Central Laboratory Building,
2B Cheung Yip Street,
Kowloon, Hong Kong

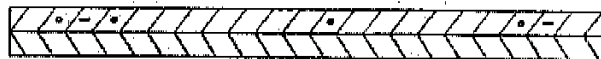
ICDAS Celik Enerji Tersane Ve Ulasim Sanayi A.S.
c/o VSC Steel Co., Ltd
49/F., Hopewell Centre,
183 Queen's Road East,
Wanchai,
Hong Kong.

1 September 2011

Dear Sirs,

Steel Bar Codes Registration - BS 4449/CS2:1995

I refer to your letter dated 18.08.2011 enclosing mill certificate and sample of steel bar of size 50 mm manufactured by ICDAS Celik Enerji Tersane Ve Ulasim Sanayi A.S. to BS4449:1988/CS2:1995 under the Bar Pattern Code TUK31. The submitted document was found to be acceptable and your application to include the above size of steel bar into the PWL Steel Bar Circular is hereby approved. The relevant Bar Pattern drawing is appended below for your reference. The next updating of the Circular is tentatively to be 1 October 2011.



TUK31

ICDAS Celik Enerji Tersane Ve Ulasim Sanayi A.S.

Yours faithfully,

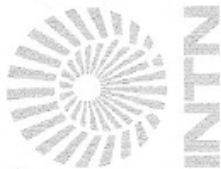
(Y.W. Yim)

for Chief Geotechnical Engineer/Standards & Testing
Geotechnical Engineering Office
Civil Engineering and Development Department

YWY/-

卓越工程 建設香港

We Engineer Hong Kong's Development



LICENCIA
CM-PO- 017/2009



PNA 4 007 99

EL INSTITUTO NACIONAL DE TECNOLOGÍA, NORMALIZACIÓN Y METROLOGÍA

concede a:

ICDAS, de Biga, Canakkale - Turquía

la Licencia para el uso de la MARCA INTN para sus productos:

Barras de acero conformadas, laminadas en caliente, de dureza natural, para armaduras en estructuras de hormigón, categorías AP 320 DN, AP 400 DN, AP 420 DN y AP 500 DN, presentados en tramos rectos de 12 m, con diámetros nominales de 6,0 – 8,0 – 10,0 – 12,0 – 16,0 – 20,0 – 25,0 y 32,0 mm.

Esta Licencia, está sujeta al cumplimiento del Reglamento General DNC-RG 001, de los requisitos de la Norma Técnica de referencia y de las otras condiciones incluidas en el Contrato CM- PO 017/2009, firmado entre el INTN y la Empresa.

05 | 11 | 2009
FECHA



Válido hasta el 10 de Noviembre de 2011

LIC. MARIO G. LEIVA E.
DIRECTOR GENERAL DEL INTN

Industry & Facilities Division



INSPECTION CERTIFICATE Nr:070

BV Job Nr: **IDD.216.11.A41**

PROJECT: PROJECT: Inspection and Certification of Reinforcing Steel Bars Ø8-Ø40	Ref: IDD.216.11.A41
BV Client: İçdaş Çelik Enerji Tersane Ve Ulaşım Sanayi A.Ş.	P/o nr: (client to BV)
Manufacturer: İçdaş Çelik Enerji Tersane Ve Ulaşım Sanayi A.Ş.	P/o nr: (client to Manufacturer)
Inspection requested by: İçdaş Çelik Enerji Tersane Ve Ulaşım Sanayi A.Ş.	

SUPPLY / SUBJECT OF INSPECTION	ITEM / TAG Nr	QTY
Reinforcing Steel Bars Ø8-Ø40 with BC 3A, BC 4A, S420, B420B, B420C, B500B, B500C (Quality Groups)		

Scope of inspection:

- Tensile tests according to TS708 April 2010 and TS708:1996 EN10080 2005 Edition were witnessed. Results were found acceptable.
- Bend test (90°) and opening test (20°) after bending according to TS708 April 2010 and TS708:1996 EN10080 2005 Edition were witnessed. Results were found acceptable.
- Chemical analysis tests according to TS708 April 2010 and TS708:1996 EN10080 2005 Edition were witnessed. Results were found acceptable.
- Geometry tests according to TS708 April 2010 and TS708:1996 EN10080 2005 Edition were witnessed. Results were found acceptable.
- TS708:1996 BC 3A, BC 4A Quality Groups were approved according to EN 10080
- TS708: 2010 S420, B420B, B420C, B500B, B500C Quality Groups were approved according to EN 10080.
- **Reference documents used for inspection:** TS708 : 2010 – TS708:1996 - EN10080
- **Place of inspection & date or period:** Biga/ÇANAKKALE - 31/03/2011
- **Valid Until:** 31/03/2016
- **Marking and stamping:** -
- **Annexes to this certificate:** -

The undersigned, inspector to Bureau Veritas, certifies that the here above mentioned supply was inspected in conformity with the applicable requirements of the purchase order and the contractual requirements governing the mission entrusted to Bureau Veritas without any remarks.

Inspected by:
Name: Serhan ZURNACI
Signature:



Checked by:
Name: Bülent SÜZER
Signature:

Date of issue: 04.04.2011
Inspection centre: BV Turkey / Istanbul

Distribution: CLIENT MANUFACTURER