



Certificate No : MD00/0620/0012/1

SIDENOR ACEROS ESPECIALES S.L.
PLANTA DE AZKOITIA
Ctra. de Zumárraga, s/n
20720 Azcoitia
Guipúzcoa
Spain

has been approved as a manufacturer in accordance with the requirements of Lloyd's Register for :-

Steel Bars

This approval is subject to compliance with the Rules for the Manufacture, Testing and Certification of Materials. The full details of the processes and grades to which this approval applies are given in the Appendix of this certificate.

Lloyd's Register is to be notified of any change that may affect the validity of this Certificate.

This Certificate is issued to the above manufacturer and is valid until the date given below.

Valid Until : 27 March 2017
Date of Issue : 16 September 2016

A blue ink signature, appearing to be 'Lili Hou', written over a horizontal line.

Lili Hou
Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group



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Appendix 1

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Bars	Machinery	Grades	mm thickness Maximum
As Rolled	Fine Grain Al	carbon, carbon-manganese, alloy	200.0
As Rolled	Killed	carbon	200.0
Bars	Chain Cable Stock	Grades	mm thickness Maximum
As Rolled	Fine Grain Al+V	R4	117.0
As Rolled	Fine Grain Al+V	R3, R3S	123.0
As Rolled	Fine Grain Al+V	R5	150.0
As Rolled	Fine Grain Al	U2, U3	152.0
As Rolled	Killed	U1	152.0

The approval for bars for chain cable stock grades; R3; R3S; R4 are restricted to supply to Vicinay Cadenas SA to the applicable purchasing specification; MPR3; MPR3S; MPR4.

The approval for bars for chain cable stock grade R5 is restricted to supply to Vicinay Cadenas S.A. to purchasing specification MPR5, this approval is with bars to 150mm rolled from steel made at Gerdau Aceros Especiales Europa S.L. Planta Basauri and for bars to 78 mm diameter which has been manufactured from ingots supplied by Gerdau Aceros Especiales S.L. Planta Reinoso and rolled by Gerdau Aceros Especiales S.L. Planta Azcoitia.

The latest issue of the Vicinay purchasing specifications are accepted subject to these maintaining the required material conditions under which approval was granted.

Valid Until : 27 March 2017
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Lili Hou
Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group