

# Approved Manufacturer of Steel Plates, Strip, Sections & Bars

<b>Manufacturer</b>	<b>Sidenor Aceros Especiales S.L.U.</b>
<b>Address</b>	Ctra. Zumárraga, s/n, Azkoitia, Gipuzkoa, 20720, Spain
<b>Type</b>	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 on subsequent pages of this certificate.

This certificate is issued to the named manufacturer, and is valid until the expiry date specified. Lloyd's Register is to be notified of any change that may affect the validity of this certificate, and reserves the right to cancel or withdraw this certificate.

<b>Approval Notes</b>	<p>The approval for bars for chain cable stock grades; R3; R3S; R4; R5 are restricted to supply to Vicinay Sestao SA to the applicable purchasing specification; MPR3; MPR3S; MPR4, MPR5.</p> <p>The bars for chain cable stock grades; R3; R3S; R4; R5 are manufactured by con-cast blooms supplied by Sidenor Aceros Especiales S.L.U. Planta Basauri; or by ingots supplied by Sidenor Forgings &amp; Castings S.L. Planta Reinosa.</p> <p>The latest issue of the Vicinay purchasing specifications are accepted subject to these maintaining the required material conditions under which approval was granted.</p>
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71 Fenchurch Street, London, EC3M 4BS, United Kingdom

**Li Xu**

Senior Specialist- Fracture Mechanics and Fatigue Analysis to Lloyd's Register EMEA  
A member of the Lloyd's Register Group

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Bars	Chain Cable Stock	Grades	Maximum Thickness	Units
As Rolled	Fine Grain Al+V	R3	123.00	mm
As Rolled	Fine Grain Al+V	R3S	123.00	mm
As Rolled	Fine Grain Al+V	R4	117.00	mm
As Rolled	Fine Grain Al	U2	152.00	mm
As Rolled	Fine Grain Al	U3	152.00	mm
As Rolled	Killed	U1	152.00	mm
As Rolled	Fine Grain Al+V	R5	150.00	mm
Bars	Machinery	Grades	Maximum Thickness	Units
As Rolled	Fine Grain Al	Alloy	200.00	mm
As Rolled	Fine Grain Al	Carbon	200.00	mm
As Rolled	Fine Grain Al	Carbon-manganese	200.00	mm
As Rolled	Killed	Carbon	200.00	mm



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