



Approved Manufacturer of Steel Plates, Strip, Sections & Bars

Manufacturer	Sidenor Aceros Especiales S.L.U.
Address	Paseo Alejandro Calonge, 1, Reinosa, Cantabria, 39200, Spain
Type	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.



Units 1702-1704, 17th Floor (Level-13), Building Q2, Aurum Q Parc; Gen 4/1 TTC, Thane-Belapur Road, Ghansoli, Navi Mumbai, 400710, India

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Bars	Chain Cable Stock	Grades	Maximum Diameter	Units
As Rolled	Fine Grain Al+V	R3	203.00	mm
As Rolled	Fine Grain Al+V	R3S	185.00	mm
As Rolled	Fine Grain Al+V	R4	185.00	mm
As Rolled	Fine Grain Al+V	R4S	230.00	mm
As Rolled	Fine Grain Al+V	R5	230.00	mm

Bars	Chain Cable Stock	Grades	Maximum Thickness	Units
As Rolled	-	API-2F	185.00	mm

Bars	Machinery	Grades	Maximum Diameter	Units
Normalized and Tempered	Fine Grain Al	Carbon	230.00	mm
Normalized and Tempered	Fine Grain Al	Carbon-manganese	230.00	mm
Normalized and Tempered	-	Alloy	230.00	mm
Quenched and Tempered	-	Alloy	230.00	mm

Bars	Normal Strength	Grades	Maximum Thickness	Units
-	-	A	220.00	mm

Additional Remarks

- The approval for bars for chain cable stock grades; R3; R3S; R4;R4S; R5 are restricted to supply to Vicinay Sestao to the applicable purchasing specification; MPR3; MPR3S; MPR4; MPR4S; MPR5.
- The latest issue of the Vicinay purchasing specifications are accepted subject to these maintaining the required material conditions under which approval was granted.
- The R3 bars with the diameter upto 203mm produced with con cast steel blooms manufactured at Sidenor Aceros Especiales Especiales S.L. Planta De Basauri.
- The R3S, R4 bars with the diameter upto 185mm produced with con cast steel blooms manufactured at Sidenor Aceros Especiales SL, Basauri
- The R4S and R5 bars with the diameter upto 175mm produced with con cast steel blooms manufactured at



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Sidenor Aceros Especiales Especiales S.L. Planta De Basauri.

- The R4S and R5 bars with the diameter from 175mm upto 230mm produced from ingot provided by Sidenor Forgings & Castings S.L.



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