

Approved Manufacturer of Steel Plates, Strip, Sections & Bars

Manufacturer	ThyssenKrupp Steel Europe AG
Address	Works Beeckerwerth, Kaiser-Wilhelm-Straße 100, 47166 Duisburg, Germany
Type	Semi-Finished Products Steel Making Hot Rolled Coil

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.

Approval Notes	Including B.O.S./Con Cast Steelmaking as below The specified maximum thicknesses must be adhered to one decimal place
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Semi-Finished Products	Slabs	Grades	Maximum Thickness	Units
-	-	carbon, carbon manganese	255.00	mm
Hot Rolled Coil	Normal Strength	Grades	Maximum Thickness	Units
Normalizing Rolled	Fine Grain Al	E, D, B, A	20.00	mm
As Rolled and Hot Coiled	Fine Grain Al	E, D, B, A	20.00	mm
Hot Rolled Coil	Higher Strength	Grades	Maximum Thickness	Units
Normalizing Rolled	Fine Grain Al	DH36, AH36, DH32, AH32, DH27S, AH27S	20.00	mm
As Rolled and Hot Coiled	Fine Grain Al	DH36, AH36, DH32, AH32, DH27S, AH27S	20.00	mm
Hot Rolled Coil	Boiler and Pressure Vessel	Grades	Maximum Thickness	Units
Hot Coiled	Fine Grain Al	510FG, 490FG, 460FG, 410FG, 360FG	20.00	mm
Hot Coiled	Killed	410, 360	20.00	mm



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