
Approved Manufacturer of Steel Plates, Strip, Sections & Bars

Manufacturer	ThyssenKrupp Steel Europe AG
Address	Works Bochum, Kaiser-Wilhelm-Straße 100, 47166 Duisburg, Germany
Type	Plates 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	'Plates' below are 'Plates from Coil' The specified maximum thicknesses must be adhered to one decimal place
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Plates	Boiler and Pressure Vessel	Grades	Maximum Thickness	Units
Normalizing Rolled	Fine Grain Al	410, 360	20.00	mm
Normalizing Rolled	Fine Grain Al	410FG, 360FG	20.00	mm
Normalizing Rolled	Fine Grain Al+Nb	510FG, 490FG, 460FG, 410FG, 360FG	20.00	mm

Plates	Higher Strength	Grades	Maximum Thickness	Units
Normalizing Rolled	Fine Grain Al+Nb	DH36, AH36, DH32, AH32, DH27S, AH27S	20.00	mm
As Rolled	Fine Grain Al+Nb	DH36, AH36, DH32, AH32, DH27S, AH27S	20.00	mm

Plates	Normal Strength	Grades	Maximum Thickness	Units
Normalizing Rolled	Fine Grain Al	E, D, B, A	20.00	mm
As Rolled	Fine Grain Al	E, D, B, A	20.00	mm

Hot Rolled Coil	Boiler and Pressure Vessel	Grades	Maximum Thickness	Units
Hot Coiled	Killed	410, 360	20.00	mm
Hot Coiled	Fine Grain Al+Nb	510FG, 490FG, 460FG, 410FG, 360FG	20.00	mm
Hot Coiled	Fine Grain Al	410FG, 360FG	20.00	mm

Hot Rolled Coil	Higher Strength	Grades	Maximum Thickness	Units
As Rolled and Hot Coiled	Fine Grain Al+Nb	DH36, AH36, DH32, AH32, DH27S, AH27S	20.00	mm
Normalizing Rolled	Fine Grain Al+Nb	DH36, AH36, DH32, AH32, DH27S, AH27S	20.00	mm

Hot Rolled Coil	Normal Strength	Grades	Maximum Thickness	Units
As Rolled and Hot Coiled	Fine Grain Al	E, D, B, A	20.00	mm



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Normalizing Rolled Fine Grain Al E, D, B, A 20.00 mm



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