



Approved Manufacturer of Steel Plates, Strip, Sections & Bars

Manufacturer **AG der Dillinger Hüttenwerke**

Address Werkstr. 1, Dillingen, 66763, Germany

Type Steel Making

Steel Plates

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.



71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lili Hou

Metallurgy Team Leader to Lloyd's Register
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Steel making	B.O.S./Ingot/Con Cast	Grades
-	-	carbon, carbon manganese
-	-	alloy steel

Plates	Normal Strength	Grades	Maximum Thickness	Units
As Rolled	Fine Grain Al	B , A	60.00	mm
Normalized	Fine Grain Al+Nb	E, D, B, A	170.00	mm
Normalized	Fine Grain Al	E, D, B, A	170.00	mm
Normalizing Rolled	Fine Grain Al	D, B, A	60.00	mm

Plates	Higher Strength	Grades	Maximum Thickness	Units
Normalized	Fine Grain Al+Nb	EH36, DH36, AH36	150.00	mm
Normalized	Fine Grain Al+Nb	EH32, DH32, AH32	170.00	mm
Normalized	Fine Grain Al+Nb	EH36S	220.00	mm
Normalized	Fine Grain Al+Nb	AH36S	220.00	mm
Normalized	Fine Grain Al+Nb	DH36S	220.00	mm
Normalized	Fine Grain Al+Nb+Ti	FH36 , FH32	50.00	mm
Normalized	Fine Grain Al+Nb+Ti	EH36, DH36, AH36	100.00	mm
Normalized	Fine Grain Al+Nb+Ti	EH36S	170.00	mm
Normalized	Fine Grain Al+Nb+Ti	DH36S	170.00	mm
Normalized	Fine Grain Al+Nb+Ti	AH36S	170.00	mm
Normalized	Fine Grain Al+Nb+Ti	EH32, DH32, AH32	170.00	mm
Normalized	Fine Grain Al	FH32	50.00	mm
Normalized	Fine Grain Al	EH36, DH36, AH36	100.00	mm
Normalized	Fine Grain Al	EH32, DH32, AH32	170.00	mm
Normalized	Fine Grain Al	EH36S	220.00	mm
Normalized	Fine Grain Al	DH36S	220.00	mm
Normalized	Fine Grain Al	AH36S	220.00	mm
Normalizing Rolled	Fine Grain Al+Nb	DH36 , DH32	60.00	mm



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Normalizing Rolled	Fine Grain Al+Nb	AH36 , AH32	100.00	mm
TM+Acc	Fine Grain Al+Nb+V	EH36, DH36, AH36, EH32, DH32, AH32	100.00	mm
TM+Acc	Fine Grain Al+Nb+Ti	EH36, DH36, AH36, EH32, DH32, AH32	100.00	mm
TM+Acc	Fine Grain Al+Nb+V+Ti	EH36, DH36, AH36, EH32, DH32, AH32	100.00	mm
TM+Acc	Fine Grain Al+Nb+Ti	EH40, DH40, AH40, DH36, AH36, EH32, DH32, AH32	100.00	mm
Thermo Mechanical	Fine Grain Al+V	FH36, EH36, DH36, AH36, FH32, EH32, DH32, AH32	40.00	mm
Thermo Mechanical	Fine Grain Al+Nb+V+Ti	FH36, EH36, DH36, AH36, FH32, EH32, DH32, AH32, FH27S, EH27S, DH27S, AH27S	60.00	mm

Plates	Extra High Strength	Grades	Maximum Thickness	Units
Quenched and Tempered	Fine Grain Al+Nb+B	EH69, DH69, AH69, EH62, DH62, AH62	120.00	mm
Quenched and Tempered	Fine Grain Al	FH46 , EH46	110.00	mm
TM+Acc	Fine Grain Al+Nb	FH46 , EH46	100.00	mm

Plates	Boiler and Pressure Vessel	Grades	Maximum Thickness	Units
Normalizing Rolled	Fine Grain Al	490FG, 460FG, 410FG, 360FG	60.00	mm
Normalizing Rolled	Fine Grain Al+Nb	510FG, 490FG, 460FG, 410FG, 360FG	100.00	mm
Normalized	Fine Grain Al+Nb	510FG, 490FG, 460FG, 410FG, 360FG	100.00	mm



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Normalized	Fine Grain Al+Nb+Ti	510FG, 490FG, 460FG, 410FG, 360FG	100.00	mm
Normalized	Fine Grain Al	510FG, 490FG, 460FG, 410FG, 360FG	100.00	mm
Plates	Ferritic Low Temperature	Grades	Maximum Thickness	Units
Normalized	Fine Grain Al+Nb	LTDH32 , LTAH32	40.00	mm
Normalized	Fine Grain Al+Nb	LTDH36 , LTAH36	50.00	mm
Normalized	Fine Grain Al+Nb+Ti	LTAH32	40.00	mm
Normalized	Fine Grain Al+Nb+Ti	LTDH32	40.00	mm
Normalized	Fine Grain Al+Nb+Ti	LTFH32 , LTEH32	40.00	mm
Normalized	Fine Grain Al+Nb+Ti	LTDH36, LTAH36, LTDH32, LTAH32	40.00	mm
Normalized	Fine Grain Al+Nb+Ti	LTFH36 , LTEH36	50.00	mm
Normalized	Fine Grain Al	LTFH32, LTEH32, LTDH32, LTAH32	50.00	mm
Normalized	Fine Grain Al	5Ni	15.00	mm
Normalized and Tempered	Fine Grain Al+Nb	5Ni	35.00	mm
Quenched and Tempered	Fine Grain Al+Nb	5Ni	50.00	mm
Thermo Mechanical	Fine Grain Al+V	LTFH36, LTEH36, LTDH36, LTAH36, LTFH32, LTEH32, LTDH32, LTAH32	40.00	mm

Additional Remarks

All plates with specified through thickness properties

AH36S/DH36S/EH36S normalized grades at thickness range 100 to 220mm are accepted with reduced tensile properties;



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minimum yield stress 325 N/mm²; UTS 470-620 N/mm². For use in specifically approved applications only.

AH62 to EH69 Q+T grades approved for application with a maximum welding heat input of up to 2.3 kJ/mm.

EAF ingot from Saarschmiede GmbH Freiformschmiede, Volklings 66333 is approved for plate production.



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