

Approved Manufacturer of Steel Plates, Strip, Sections & Bars

Manufacturer	SeAh Besteel Corporation Gunsan plant
Address	522, Oehang-ro, Gunsan-si, Jeollabuk-Do, 54007, Republic of Korea
Type	Bars Steel Making Semi-Finished Products
Scope of Approval	Steelmaking, Semi-Finished Products and Bars Steelmaking: E.A.F./Ingot/Con Cast Semi-Finished Products: Ingots, Blooms, Billets and Bars, details as per Appendix. Bars: Machinery and Chain Cables Stock, details as per Appendix. Approval for Chain Cable Stock Grades R3, R3S, R4, R4S and R5 is restricted to supply to DAI HAN ANCHOR CHAIN MFG CO. LTD and Grades R3, R3S and R4 to Pu Sung Metal Co., Ltd. Semi Finished Products - Ingots, Carbon & Carbon-manganese nominal sizes 2470 / 2760mm diameter x 3100mm long, and Alloy nominal sizes 2350 / 2600mm diameter x 3050mm long, to the listed maximum weight approved for further processing for forgings. Semi Finished Products - Blooms to nominal 390mm width x 5400mm length, to listed maximum thickness approved for further processing for Forgings and Rolled Products. Semi Finished Products - Billets to nominal 180 width x 11500mm length,



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

Clive Arnold

Lead Metallurgist: Metallurgical Assurance to
Lloyd's Register EMEA
A member of the Lloyd's Register group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Approved Manufacturer of Steel Plates, Strip, Sections & Bars

to listed maximum thickness approved for further processing for Rolled Products.

Alloy grade bars as semi-finished products nominal maximum length 12,000mm to the listed maximum diameter are approved for further processing for forged products.

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

Previous Lloyd's Register reference No. 1749.



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

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Approved Manufacturer of Steel Plates, Strip, Sections & Bars

Steel making	E.A.F./Ingot/Con Cast	Grades	As below	Units
-	-	As below	1.00	As below
Semi-Finished Products	Ingot (tonnes)	Grades	Maximum Weight	Units
As cast	Killed	Carbon	155.00	Tonnes
As cast	Killed	Carbon-manganese	155.00	Tonnes
As cast	Killed	Alloy	155.00	Tonnes
Semi-Finished Products	Blooms	Grades	Maximum Thickness	Units
As cast	Killed	Carbon	510.00	mm
As cast	Killed	Carbon-manganese	510.00	mm
As cast	Killed	Alloy	510.00	mm
Semi-Finished Products	Billets	Grades	Maximum Thickness	Units
As cast	Fine Grain Al+V	Carbon	180.00	mm
As cast	Fine Grain Al+V	Carbon-manganese	180.00	mm
Semi-Finished Products	Bars	Grades	Maximum Diameter	Units
As Rolled	Killed	Alloy	350.00	mm
Bars	Machinery	Grades	Maximum Thickness	Units
Quenched and Tempered	Fine Grain Al	Carbon	300.00	mm
Quenched and Tempered	Fine Grain Al	Carbon-manganese	300.00	mm
Quenched and Tempered	Fine Grain Al	Alloy	300.00	mm
Bars	Chain Cable Stock	Grades	Maximum Thickness	Units
As Rolled	Killed	U1	165.00	mm



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

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Approved Manufacturer of Steel Plates, Strip, Sections & Bars

As Rolled	Fine Grain Al	U2	165.00	mm
As Rolled	Fine Grain Al+Nb+V	U3	165.00	mm
As Rolled	Fine Grain Al	R3	165.00	mm
As Rolled	Fine Grain Al+V	R3	165.00	mm
As Rolled	Fine Grain Al	R3S	165.00	mm
As Rolled	Fine Grain Al	R4	155.00	mm
As Rolled	Fine Grain Al	R4S	146.00	mm
As Rolled	Fine Grain Al+V	R4S	146.00	mm
As Rolled	Fine Grain Al+V	R5	140.00	mm



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

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.