



APPROVAL CERTIFICATE FOR MANUFACTURING PROCESS

Certificate No. : GCH23851-SP001 **Initial Approval** : 10th May, 2004
Product : Rolled Steels
Manufacturer : Korea Steel Shapes Co., Ltd. Noksan Works
84, Noksansandan 407-ro, Gangseo-gu, Busan, Korea

Product Description: Rolled Steel Sections and Bars for Hull Structure

- Grade : A
AH32, DH32, EH32
AH36, DH36, EH36
- See " Appendix 1 "

Approval Condition: 1. Raw Materials are to be supplied by the approved manufacturers of this Society or to be satisfactory to the Surveyor.
2. Individual Product Certification is required.

THIS IS TO CERTIFY that the manufacturing process for the above mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Manufacturer and Type Approved Equipment".

Pt. 2, Ch. 1, Art. 301 of the Rules for Classification of Steel Ships.

This Certificate is valid until 9th May, 2024
Issued at Gamcheon, Korea on 8th May, 2019



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "<http://e-cert.krs.co.kr>" by using the tracking No(ME19010736718) and certificate No.(GCH23851-SP001).



KOREAN REGISTER OF SHIPPING

*General Manager of
Gamcheon Branch Office*

- Note :** 1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.
2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.
3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.
4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

Appendix 1

Product Description and/or Approval Condition

Certificate No : GCH23851-SP001

Date of Issue :8th May, 2019

◎ Product Description

< Sections >

Grade	Z-quality	Grain Refining	Thickness Max. (mm)	Supply Condition (*1)
A	-	-	15	AR
AH32, DH32, EH32 AH36, DH36, EH36	-	Al+V	15	AR (ARS)

< Flat bars >

Grade	Z-quality	Grain Refining	Thickness Max. (mm)	Supply Condition (*1)
A	-	-	30	AR
AH32, AH36	-	Al+V	30	AR (ARS)

< Round bars >

Grade	Z-quality	Grain Refining	Diameter Max. (mm)	Supply Condition (*1)
A	-	-	65	AR

Remark

(1) AR : As Rolled

ARS : As Rolled Condition subject to special approval of the Society

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