

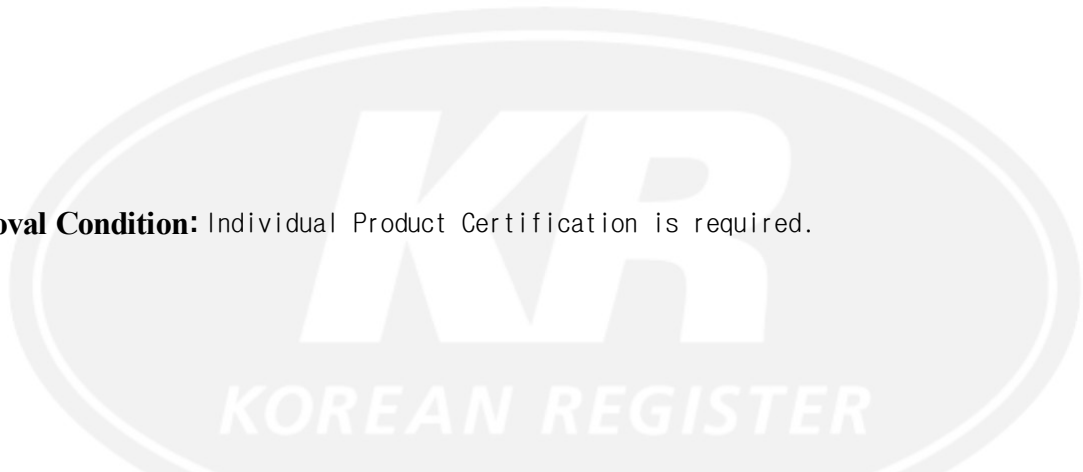


APPROVAL CERTIFICATE FOR MANUFACTURING PROCESS

Certificate No. : POH04101-SP002 **Initial Approval** : 2nd May, 1999
Product : Rolled Steels
Manufacturer : Dongkuk Steel Mill Co., Ltd. Pohang Works
195, Cheolgangsandan-ro, Daesong-myeon, Nam-gu, Pohang-si, Korea.

Product Description: Rolled Steel Sections for Hull Structure
- Grade : A, B, D, AH32, DH32
- Steel making : EAF
- Casting process : Continuous casting
- Grain refining : Al+V for AH32, DH32
- Thickness : Max.32mm for A,B,AH32,
Max.25mm for D, DH32
- Supply condition : As Rolled

Approval Condition: 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, steel Ships.

This Certificate is valid until 1st May, 2024
Issued at Pohang, Korea on 21st March, 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(ME19005652688) and certificate No.(POH04101-SP002).



KOREAN REGISTER OF SHIPPING

*General Manager of
Pohang 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 2

Product Description and/or Approval Condition

Certificate No : POH04101-SP002

Date of Issue : 21st March, 2019

Grade	Thick. (mm)	Deoxidation	Grain Refining Element	Casting Method	Heat Treatment
RA, RB RD	Max. 32 Max. 25	Killed	-	Continuous	As Rolled
RA32 RD32	Max. 32 Max. 25	Fully Killed	Al + V		

