



Approval No. ST43RO

Certificate No. TA18642E

APPROVAL OF MANUFACTURING PROCESS

This is to certify that

**SeAH Besteel Corporation
Gunsan, Jeollabuk
Korea**

has been approved for the manufacturing process of undermentioned materials by the NIPPON KAIJI KYOKAI in accordance with the requirements of 1.2, Part K of the Society's "Rules for the Survey and Construction of Steel Ships" and Chapter 1, Part 1 of the Society's "Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use".

**MATERIALS : Round Bars for Chains
Rolled Steel Bars for Machine Structures**

The details of the relevant approval conditions are given in the PARTICULARS OF APPROVAL listed in the reverse of this certificate.

The products for the ships classed with the Society are to be manufactured, tested and inspected in compliance with the Rules.

This certificate is valid from 1 July 2018 until 30 June 2023.
Issued at Tokyo on 2 July 2018.

Renewal Date : 1 July 2018

H. Kobayashi
General Manager
Material and Equipment Department



List of PARTICULARS OF APPROVAL

	Ref. No.	Date	
1.	TA18643E	2 JUL.	2018
2.	TA18644E	2 JUL.	2018


No. : TA18643E

Date : 2 July 2018

PARTICULARS OF APPROVAL

Approval Conditions for Manufacturing Process of Round Bars for Chains

- | | |
|----------------------------|---------------------------------------|
| 1. Manufacturer | : SeAH Besteel Corporation |
| 2. Kind of Product | : Round Bars |
| 3. Grades | : KSBC70 |
| 4. Deoxidation Practice | : Fine-grained Killed |
| 5. Grain Refining Elements | : Al |
| 6. Max. Diameter | : 130mm |
| 7. Condition of Supply | : QT |
| 8. Steel Making Process | : Electric Arc Furnace |
| 9. Casting Process | : Continuous Casting or Ingot Casting |



H. Kobayashi

General Manager

Material and Equipment Department



No. : TA18644E

Date : 2 July 2018


PARTICULARS OF APPROVAL

Approval Conditions for Manufacturing Process of Rolled Steel Bars for Machine Structures

1. Manufacturer : SeAH Besteel Corporation
2. Kind of Product : Round Bars and Square Bars
3. Grades : See Table
4. Max. Dimension : See Table
5. Condition of Supply : QT
6. Steel Making Process : Electric Arc Furnace
7. Casting Process : See Table

Table Part of Approval Conditions

Grades	Casting Process	Max. Dimension (mm)
KSFR60	Continuous Casting	$\phi 300$
		300 × 300 (Thickness × Width)
	Ingot Casting	$\phi 200$
KSFAR85	Continuous Casting	$\phi 300$
		300 × 300 (Thickness × Width)
	Ingot Casting	$\phi 200$


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