

Approval No. ST115RO

Certificate No. TA24612E

APPROVAL OF MANUFACTURING PROCESS

This is to certify that

Tung Ho Steel Enterprise Corp. Miao-li Works
No.22, Pingding Erhu Village, Sihu Township, Miaoli County 36842, Taiwan

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: Rolled Steels for Hull

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 27 May 2024 until 26 May 2029.

Issued at Tokyo on 29 May 2024.


M. Irisawa
General Manager
Material and Equipment Department



List of PARTICULARS OF APPROVAL

	Ref. No.	Issue Date		
1.	TA19814E	4	JUN.	2019
2.	TA19815E	4	JUN.	2019

No. : TA19814E

Date : 4 June 2019

PARTICULARS OF APPROVAL

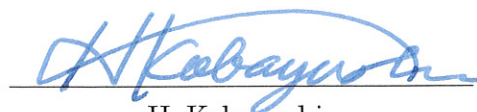
Approval Conditions for Manufacturing Process of Rolled Steels for Hull

1. Manufacturer : Tung Ho Steel Enterprise Corp., Miao-li Works
2. Kind of Product : Blooms
3. Grade : Normal Strength Steels and High Tensile Steels
4. Deoxidation Practice : Fine-grained killed
5. Grain Refining Elements : See Table
6. Max. Thickness : 220mm
7. Steel Making Process : Electric Arc Furnace
8. Casting Process : Continuous Casting
9. Remark :

The individual users of the semi finished products are to be approved for the manufacturing process of the specific grade of rolled steel products they are going to manufacture with those semi finished products.

Table Part of Approval Conditions

Grade	Grain Refining Elements
Normal Strength Steels	Al-Nb
High Tensile Steels	Al-Nb-V



H. Kobayashi
General Manager

Material and Equipment Department



No. : TA19815E

Date : 4 June 2019

PARTICULARS OF APPROVAL

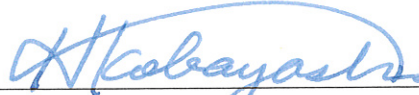
Approval Conditions for Manufacturing Process of Rolled Steels for Hull

1. Manufacturer : Tung Ho Steel Enterprise Corp., Miao-li Works
2. Kind of Product : Beam Blank
3. Grade : Normal Strength Steels and High Tensile Steels
4. Deoxidation Practice : Fine-grained killed
5. Grain Refining Elements : See Table
6. Max. Thickness : 130mm
7. Steel Making Process : Electric Arc Furnace
8. Casting Process : Continuous Casting
9. Remark :

The individual users of the semi finished products are to be approved for the manufacturing process of the specific grade of rolled steel products they are going to manufacture with those semi finished products.

Table Part of Approval Conditions

Grade	Grain Refining Elements
Normal Strength Steels	Al-Nb
High Tensile Steels	Al-Nb-V



H. Kobayashi
General Manager

Material and Equipment Department

