



**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF
MATERIALS**
No. FAB047324PU

This is to certify that the manufacture of the product identified below is in compliance with the applicable requirements of the RINA Rules for the Approval of Manufacturers of Materials.

<i>Description</i>	Seamless steel pipes and tubes
<i>Type</i>	Austenitic stainless steel RINA grade 304(L) 316(L) or equivalent steel according to recognized standards
<i>Manufacturer</i>	SEAH CHANGWON INTEGRATED SPECIAL STEEL CORPORATION
<i>Place of manufacture</i>	147, Jeokhyeon-ro, Seongsan-gu 51708 Changwon-si (Gyeongsangnam-do) REPUBLIC OF KOREA
<i>Reference standards</i>	RINA Rules for the approval of manufacturers of materials

Issued in **RINA Korea Marine** on **March 22, 2024**. *This Certificate is valid until* **March 15, 2029**



Jin Ho Park
RINA Services S.p.A.

This certificate consists of this page and 1 enclosure



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Enclosure - Page 1 of 1

**Austenitic stainless steel RINA grade 304(L)
316(L) or equivalent steel according to recognized standards**

APPROVAL CONDITIONS

Size range: Outside diameter: max. 273.1 mm
Wall Thickness: 23.02 mm

Manufacturing process : Cold Drawn or Cold Rolled

Heat treatment : Solution annealing

***)Remarks :** Including low temperature service.

Survey conditions:

The pipes are to be in compliance in all respects with the requirements specified in Part D Ch 2 Sec2 of the RINA Rules and are to be tested accordingly.

Renewal/Revision

28/03/2019: renewal certificate. Certificate No. FAB009619PU

22/03/2024: renewed without change. New certificate revokes previous certificate

General conditions for the approval

-The approval is granted on condition that the RINA Rules for the approval, manufacture, testing and certification of materials are complied with in all respects.

-RINA is to be notified of any change of materials, manufacturing process, quality control routines that may affect the validity of this certificate.



RINA Korea Marine

A handwritten signature in black ink, appearing to be a stylized representation of a name, located to the right of the RINA logo.

March 22, 2024