



**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF
MATERIALS**
No. FAB079024PU

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>	Welded steel pipes
<i>Type</i>	Austenitic stainless steel RINA grade 304L 316L or equivalent steel according to recognized standards
<i>Manufacturer</i>	IREM CO., LTD.
<i>Place of manufacture</i>	29, Buannonggongdanji-gil, Haengan-myeon 56303 Buan-gun (Jeollabuk-do) REPUBLIC OF KOREA
<i>Reference standards</i>	RINA Rules for the approval of manufacturers of materials

Issued in **Busan** *on* **May 21, 2024.** *This Certificate is valid until* **January 31, 2028**



Sang Seok Lee

RINA Service S.p.A.

This certificate consists of this page and 1 enclosure



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Austenitic stainless steel RINA grade 304L

316L or equivalent steel according to recognized standards

APPROVAL CONDITIONS

Size range: - Outside diameter : 21,7 to 812,8 mm

- Wall Thickness : 2 to 12,7 mm

Manufacturing Process: PAW + GTAW welded.

Heat treatment: solution annealing at 1040 C- 1050 C.

Non destructive examination of welded seam: eddy current test or radiographic test.

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

- 08/02/2023: renewed without changes. Certificate No. FAB012423PU revokes previous certificate.
- 21/05/2024: reissued due to change of company name. 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.

Busan 21-05-2024



A handwritten signature in black ink, appearing to be a stylized "A" or similar character.

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