



**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF
MATERIALS**

No. FAB006320XW

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> | Hull steel plates and Steel Plates |
| <i>Type</i> | STEEL ROLLED PRODUCTS PLATES MADE FROM COILS OF AUSTENIC FERRITIC-AUSTENITIC STEEL AND NICKEL-BASE ALLOYS BY ELECTRIC ARC FURNACE CONTINUOUS CASTING HEAT TREATED. |
| <i>Applicant</i> | OUTOKUMPU STAINLESS AB BOX 74 SE-774 22 Avesta SWEDEN |
| <i>Manufacturer</i> | OUTOKUMPU STAINLESS AB |
| <i>Place of manufacture</i> | BOX 74 SE-774 22 Avesta SWEDEN |
| <i>Reference standards</i> | RINA Rules for the approval of manufacturers of materials |

Issued in **STOCKHOLM** on **March 17, 2020**. *This Certificate is valid until* **March 23, 2023**

 Leonard Koroluk
Marine Surveyor
RINA Sweden AB
26263

RINA Services S.p.A.
Leonard Koroluk

This certificate consists of this page and 1 enclosure

CERTIFICATE OF APPROVAL OF MANUFACTURERS OF MATERIALS

No. FAB006320XW

Enclosure - Page 1 of 1

STEEL ROLLED PRODUCTS

APPROVAL CONDITIONS

| Steelmaking | Cast | Grades | Thickness (mm) |
|---|---|---|----------------|
| Sheet and Plates from Coils: Solution Treated | Austenitic Stainless Steel and Nickel-base Alloys | 316Ti, 304L, 304LN, 316L, 321, 347, UNS31254, S32654, N08904, N08926, N08367 and N08825 | Max. 13 |
| Sheet and Plates from Coils: Solution Treated | Duplex Stainless Steel | UNS S31803, UNS S32205, UNS S32101, UNS S32304, UNS 32750, UNS 32760 and UNSS82441 | Max. 10 |
| Coils Solution Treated | Austenitic Stainless Steel and Nickel-base Alloys | 316Ti, 304L, 304LN, 316L, 321, 347, UNS31254, S32654, N08904, N08926, N08367 and N08825 | Max. 13 |
| Coils Solution Treated | Duplex Stainless Steel | UNS S31803, UNS S32205, UNS S32101, UNS S32304, UNS 32750, UNS 32760 and UNSS82441 | Max. 10 |

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
- For the grade 304L, the content of Ni content in EN standard is lower than the one in RINA rules, hereby approval to use this grade to be granted on case to case basis by Plan Approval.

STOCKHOLM March 23, 2017