



**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF MATERIALS**  
No. FAB048925XP/001

**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>	<b>Hull steel bulb flats and sections</b>
<i>Type</i>	<b>Hot Rolled Steel Products of Normal and High Tensile Strength. Hull Steel Grade A, AH32, AH36, DH32, DH36. Bar Steel Grade S 355J2.</b>
<i>Manufacturer</i>	<b>Forged-rolled rings, (Steel type:) Carbon, Carbon-manganese, Alloy Max. diameter [mm]: 3000 Max. weight [kg]: 3000</b>
<i>Place of manufacture</i>	<b>HUTA BANKOWA SP. Z O.O. UL. SOBIESKIEGO 24 41-300 Dabrowa Gornicza POLAND</b>
<i>Reference standards</i>	<b>RINA Rules for the approval of manufacturers of materials</b>

Issued in **RINA Poland Marine** on **April 23, 2025**. This Certificate is valid until **May 5, 2030**

  
Gdańsk Marine Manager  
Principal Surveyor / MS Auditor  
RINA Services S.p.A.  
**Tomasz Rachwałski**  
RINA Services S.p.A.

This certificate consists of this page and 1 enclosure



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Enclosure - Page 1 of 1

**Forged-rolled rings, (Steel type:) Carbon, Carbon-manganese, Alloy; Max. diameter [mm]: 3000; Max. weight [kg]: 3000**

**Hot Rolled Steel Products of Normal and High Tensile Strength. Hull Steel Grade A, AH32, AH36, DH32, DH36. Bar Steel Grade S 355J2.**

**APPROVAL CONDITIONS**

**Steel making : BOC Basic Oxygen converter**

**Casting process: CC Continuous casting**

**Deoxidation practice, condition of supply and thickness:**

<b>STEEL GRADE</b>	<b>DEOXIDATION PRACTICE AND FINE-GRAINED ELEMENTS</b>	<b>CONDITIONS OF SUPPLY AND MAX THICKNESS</b>
A	killed	as rolled - 13 mm
AH32, AH36	killed	as rolled - 13 mm
AH32, AH36	all treated for fine grained vacuum degassed	as rolled - 13 mm
DH32, DH36	all treated for fine grained vacuum degassed	as rolled - 13 mm

**Survey conditions:**

The steel plates, bars and forged-rolled rings are to be in compliance in all respects with the relevant RINA rules and are to be tested accordingly.

**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 Poland Marine 23.04.2025**

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