



**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF
MATERIALS**
No. **FAB001020MI/003**

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 in C - C/Mn
<i>Type</i>	dia from 22,0 to 406,4 mm; thk from 1,8 to 15 mm;
<i>Manufacturer</i>	MARCEGAGLIA CARBON STEEL S.P.A.
<i>Place of manufacture</i>	VIA VANONI 25 26041 Casalmaggiore (CR) ITALY
<i>Reference standards</i>	RINA Rules for the approval of manufacturers of materials
<i>Reference documents</i>	-

Issued in **RINA Milan Marine** on **February 16, 2023**. *This Certificate is valid until* **March 18, 2025**

RINA Services S.p.A.
Daniele Mangini

This certificate consists of this page and 1 enclosure

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dia from 22,0 to 406,4 mm

thk from 1,8 to 15 mm

APPROVAL CONDITIONS

Steel Types:

Welded Pipes/Tubes in C-C/Mn Steel in compliance with RINA Rules and EN 10219, EN 10210;
Grade: S235JR (RINA 360 HA) - S355J0 (RINA 540 HB) - S355J2 (RINA 540 HD).

Manufacturing Process:

Cold Rolled ERW Steel Pipes/Tubes from Hot Rolled Strip.

Heat Treatment:

as Rolled or Normalized.

Non Destructive Examination of Welded Seam:

Electromagnetic Test (Eddy Current).

Survey Conditions:

the pipes are to be in compliance in all respects with the requirements specified in Part.D CH.2 Sec.2 of the 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.

Genoa February 16, 2023