

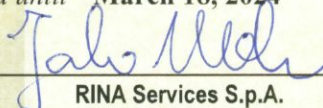


TYPE APPROVAL CERTIFICATE
No. MAC010319CS/001

This is to certify that the product identified below is in compliance with the regulations herewith specified.

<i>Description</i>	Gravity and vacuum sewage pipes having socket and spigot joints
<i>Type</i>	STECKDRAIN
<i>Applicant</i>	ILTA INOX S.P.A. STRADA STATALE 45 BIS 26010 ROBECCO D'OGLIO (CR) ITALY
<i>Manufacturer</i>	ILTA INOX S.P.A.
<i>Place of manufacture</i>	VIA VALTELLINA, 15 22070 MONTANO LUCINO (CO) ITALY
<i>Reference standards</i>	Part C, Chapter 1, Section 10 of RINA Rules

Issued in **Genova** on **March 19, 2019**. This Certificate is valid until **March 18, 2024**



RINA Services S.p.A.
Fabio Morbioni

This Certificate annuls and replace the previous one No. MAC301813CS/003 dated 09/12/2013.
This certificate consists of this page and 1 enclosure



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Enclosure - Page 1 of 1
STECKDRAIN

Reference Documents

Ittainox-Chibro Technical Catalogue 10/2013 - B

Material and components

Stainless steel pipes AISI 304 and AISI 316.

Carbon steel pipes type S 275 grade JR EN 10025.

After manufacturing pipes will be hot dip galvanized inside and outside. The internal surfaces will be coated with polyester resins highly corrosionproof and abrasionproof forming a film having a thickness of 60 - 80 micron.

Sealing gaskets: Rubber EPDM

Fields of application

Grey/black water gravity and vacuum (up to 70%) drainage systems and scuppers located above freeboard deck or below freeboard deck in enclosed spaces and machinery compartments without direct overboard connection. At watertight bulkhead penetrations a shut-off valve operated from above the freeboard deck has to be installed.

Penetrations of Class "A" or "B" divisions shall provide a resistance to fire equivalent to that of the deck and bulkheads in which the penetration are situated. These arrangements are to be carried out in accordance with "Recommendation for Fire Resistance Tests for "A", "B" and "F" Class Divisions" (IMO Res. A754 (18) as amended)

Acceptance Conditions

The arrangement of the above-mentioned piping systems is to comply with Par.8, Part C, Chapter 1, Section 10 of RINA Rules in force and according to Manufacturer's instructions.

The use in scupper lines from weather decks leading through enclosed superstructures or deckhouses is not admitted.

All pipes shall be retained by clamps or clips against movements in all directions. In particular, in the case of installation in areas where any possible leakage is to be avoided, is to be foreseen further precautions by the Manufacturer.

Testing Carried out

Pressure tests: up to DN40 - DN100 at 10 bar and up to DN125 - DN200 at 5 bar

Vacuum tests: up to DN40 - DN200 at -0,95 bar (0,05 abs)

See testing report File n° 99/CS/332/TO dated 11 November 1999.

Genova 19/03/2019


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