

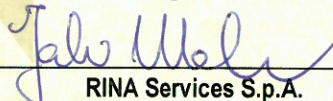


TYPE APPROVAL CERTIFICATE
No. MAC216518CS

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

<i>Description</i>	Shields for flanged connections
<i>Type</i>	NoSpray Protection System tape & sheet (IM 2002)
<i>Applicant</i>	INNOVATIVE MANUFACTURING INC. 861 DERWENT WAY V3M 5R4 DELTA CANADA
<i>Manufacturer</i>	INNOVATIVE MANUFACTURING INC.
<i>Place of manufacture</i>	861 DERWENT WAY V3M 5R4 DELTA CANADA
<i>Reference standards</i>	Part C, Chapter 1, Section 10 of RINA Rules and SOLAS 74 as amended

Issued in **Genoa** on **September 28, 2018**. This Certificate is valid until **September 27, 2023**


RINA Services S.p.A.
Fabio Morbioni

This certificate consists of this page and 1 enclosure



TYPE APPROVAL CERTIFICATE
No. MAC216518CS
Enclosure - Page 1 of 1
NoSpray Protection System tape & sheet

Reference documents

NoSpray booklet dated July 6, 2004.

Materials and technical characteristics

Aluminium/glass cloth jacketing system with one side coated with a silicon adhesive for installation.
Total thickness 9.5 mil (including 3.3 mil clear film liner).

Field of application

Flanged and screwed connections of fuel oil systems, lubricating oil and other flammable fluids for which the shield is requested as per SOLAS Convention 74 as amended and RINA Rules.

Nominal Pipe Diameter: up to 50 mm for screwed and flanged joints

Maximum pressure: 20 bar

Maximum temperature: 150 °C

Remarks

The installation on board is to be carried out in accordance with the Manufacturer's instructions and to the satisfaction of RINA Surveyor.

The extent of use is limited to spray shielding application on oil pressure pipes located above the floor plates and which have no insulation in way of the joints.

Use is also restricted to readily accessible positions where the integrity of the application may be inspected regularly and new covering will be applied after removal for maintenance purposes.

The application is limited to piping locations permitted by applicable SOLAS/RINA Rules. In any case the use is not permitted for connections located over high temperature surfaces unless the hot surfaces are effectively protected (e.g. by means of metallic shields, drip pans or equivalent protections).

This certificate cancels and replaces the previous one No. MAC225913CS dated 30 September 2013.

Genoa September 28, 2018