

TYPE APPROVAL CERTIFICATE

형식승인증서

Certificate No. : HMB25288-FP001 **Initial Approval** : 6th October, 2010.
Product : Anti-splashing Tape & Sheet
Manufacturer : Mareflex GmbH
Osterrade 7, 21031 Hamburg, Germany

Product Description : AntiSpray Tape

- Type : MAREFLEX MF-01

* Place of Production : A-SPE Polska, ul. Wincentego Pola 22,
01-100 Warszawa, Poland

" See Appendix 1 "

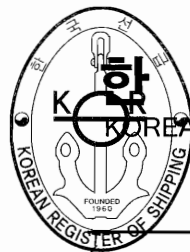
Approval Condition : " See Appendix 1 "

THIS IS TO CERTIFY that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Manufacturers and Type Approved Equipment".

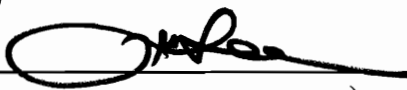
Pt. 5, Ch. 6, Sec. 9, Art. 901 of the rules for Classification of Steel Ships and Ch. II-2, Reg. 4.2.2.5.3 of SOLAS 1974 as amended.

This Certificate is valid until 5th October, 2015.

Issued at Daejeon, Korea on 6th October, 2010.



국 선 급
KOREAN REGISTER OF SHIPPING


Lee Woon-ho

General Manager of
Materials and Equipment Team

Note : 1 : The approval will be automatically suspended and the Certificate become invalid from the expiry date of the Certificate in the event that the extension has not been granted or the renewal of the Certificate is not underway.

2 : The manufacturer should notify this Society of any modification or changes that may affect the validity of this Certificate.

Appendix 1

Product Description and/or Approval Condition

Certificate No : HMB25288-FP001

Date of Issue : 6th October, 2010.

1. Product Description ;

- 1) Design Pressure : Piping for Max. 15 bar of Internal Pressure
- 2) Design Temperature : 150 °C
- 3) Construction of Material :
Mareflex MF-01 Antispray tape is a multilayer aluminium/ fiberglass fabric/ release liner with a special adhesive for installation.

4) Product Dimension :

Product code	Dimension (Width x Length)	Thickness (Total)
MF01-35	35 mm x 10 m	400 micrometers
MF01-50	50 mm x 10 m	400 micrometers
MF01-100	100 mm x 10 m	400 micrometers
MF01-140	140 mm x 10 m	400 micrometers
MF01-250	250 mm x 10 m	400 micrometers
MF01-500	500 mm x 10 m	400 micrometers

- 5) Intended for :
Preventing splash of fuel oil, lube oil and other flammable oils from piping lines including flanges and joints in engine rooms or other enclosed spaces in compliance with Regulation II-2/4.2.2.5.3 of SOLAS 1974 as amended.

2. Approval Condition ;

- 1) This approval is granted on the basis of the relevant test reports no. 054ASPE/2007 dated on 23rd November, 2006 issued by Lucidus-Optical Measurements and IBR/Z-021-2006 dated on 6th March, 2006 issued by Szczecin University of Technology and 43/2004 dated on 28th April, 2006 & 252/2009 dated on 13th August, 2009 issued by The institute of Technical Textiles "MORATEX".
- 2) Installation of the tape is to be carried out in accordance with the Manufacturer's instruction.
- 3) The Mareflex MF-01 AntiSpray Tape cannot be used for pipes insulation or as replacement for pipe gaskets and sealings.
- 4) The extent of use is limited to spray shielding applications on oil pressure pipes located above the floor plates and which have no insulation in way of the joints.
- 5) Use is restricted to easily accessible positions where the integrity of the application may be inspected regularly and new covering applied after removal for maintenance purposes.
- 6) Individual product certification is not required.

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