EC TYPE EXAMINATION (MODULE B)

CERTIFICATE No. MED191621CS/003

This is to certify *that RINA Services S.p.A. (Notified Body No. 0474) did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2020/1170.*

MED Item N°	**MED/3.26a**
USCG Category N°	**164.138**
Description	**Penetrations through "A" Class divisions: (a) electric cable transits**
Type	**WallMax Multiple Cable Penetration Transits - WRF; WRFF and WRFO series in aluminium**
Applicant	**WALLMAX SRL** CORSO DI PORTA NUOVA 22 20121 Milano (MI) ITALY
Testing standards	**IMO Res. MSC.307(88)-(2010 FTP Code)**
Reference standards	**Chap. II-2 of SOLAS 74 Convention, as amended, RINA Rules for the certification of Marine Equipment**

Issued in Genoa on
May 10, 2021

This Certificate is valid until
May 9, 2026

This Certificate consists of this sheet plus an attachment

Enrico Cabella
RINA Services S.p.A.

This document is a copy of a digitally signed file available on Rina Web Site: http://www.rina.org

RINA Services S.p.A.
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ATTACHMENT TO CERTIFICATE No. MED191621CS/003

Manufacturer
WALLMAX INDIA ENTERPRISES PVT.LTD.

Place of Manufacturer
12/6 GOLDEN PEAKOCK COMPLEX MAIN MATHURA ROAD
121003 FARIDABAD
INDIA

Product description

Transits of electric cables, having diameter ranging from 9 mm up to 39 mm, installed in A-Class aluminium bulkheads and decks. The transits are composed of an aluminium frame, having thickness of 10 mm and depth of 60 mm, fillet welded, on both sides, to the bulkhead or deck plate. The transits type WRFF AL are fitted, on one side, with a flange welded to the deck or bulkhead plate, whereas the transits type WRF AL, without flange, are welded in the middle to the bulkhead or deck plate. The transits are filled with EPDM modules and, on the upper part, one module fitted with a screw expander is installed. The interstices between the cables and the modules and between the modules, are lubricated by means of product named WallMax Lubricant. The transits are insulated, on both sides, with three layers of mineral wool type SeaRox SL 620, having density of 100 kg/m^3 and thickness of 40 mm (first layer fitted around the transit) and 60 mm each (the other two layers); the mineral wool panels, having dimensions of 400 mm in width and 600 mm in length, are fixed to the bulkhead or deck plate by means of bi-metallic pins and washers welded with pitch ranging from 120 up to 200 mm. The certification is valid also for transit type WRFO, fitted without flange, and composed of a three-side frame with the fourth side welded afterwards.

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Field of application

Fire resistant A-60 Class cable transits through aluminium bulkheads and decks as per following tables:

WRFF AL TYPE - BULKHEAD

Transit dimensions (mm)	Flange dimensions (mm)	Minimum fill %	Maximum fill %	Cables - Maximum diameter (mm)
298 x 140	418 x 260	7.5	7.5	39
118 x 140	238 x 260	0.5	0.5	9

WRF AL TYPE - BULKHEAD

Transit dimensions (mm)	Minimum fill %	Maximum fill %	Cables - Maximum diameter (mm)
298 x 140	7.5	7.5	39
118 x 140	0.5	0.5	9

WRFF AL TYPE - DECK

Transit dimensions (mm)	Flange dimensions (mm)	Minimum fill %	Maximum fill %	Cables - Maximum diameter (mm)
298 x 140	418 x 260	7.5	7.5	39
118 x 140	238 x 260	0.5	0.5	9

WRF AL TYPE - DECK

Transit dimensions (mm)	Minimum fill %	Maximum fill %	Cables - Maximum diameter (mm)
298 x 140	7.5	7.5	39
118 x 140	0.5	0.5	9

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Reference documents

WallMax drawing No. WDVpc16A60AIDA01, No. WDVpc16A60AIBHA01 and No. 1112022411 dated 5 February 2016 approved on 4, 5 and 11 May 2016 respectively with endorsement Nos. LABS-1259, LABS-1260 and LABS-1264.

Tests carried out

Tests as per RINA Test Laboratory Reports No. 2016CS01481/1 dated 4 May 2016 and No. 2016CS01481/2 dated 5 May 2016 issued according to Appendix 1 of IMO 2010 FTPC Part 3 - A.IV Cable Transits.

This certificate annuls and replaces the certificate No. MED999817CS/003 dated 02/15/2017 due to renewal.

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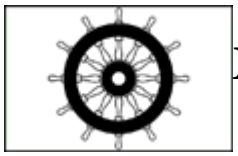
The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production control phase module (D, E or F) of Annex II of the Directive is fully complied with a written inspection agreement with a Notified Body



XXXX/YYYY

"WHEELMARK FORMAT"

XXXX *Notified Body number undertaking surveillance module*

YY *Last two digits of year mark affixed*

USCG Approval marking

This equipment is covered by the scope of the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment signed February 27th, 2004 and amended by Decision No. 1/2018 dated February 18th, 2019 according to U.S. Coast Guard approval category **164.138**.

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F) as allowed by the MED.

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General conditions for the approval

a) The initial conditions verified by RINA at the time of the approval are to be maintained

b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment

c) This certificate will no be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA

d) RINA personnel are to be allowed to witness during the performances of activities, upon their request

e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules

f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.

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