



EC TYPE EXAMINATION (MODULE B)
CERTIFICATE No. MED090521XT/001

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/3.25

Description

'A' & 'B' class fire proof windows and side scuttles

Type

A0 FIRE CLASS WINDOW

Applicant

**HUSNA YAPI VE GEMİ MALZEMELERİ SANAYİ VE
TİCARET LTD.STİ.**

FATİH BULVARI, NO.592 SULTANBEYLİ
34925 İSTANBUL

TURKEY

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 RINA Turkey Marine
on
July 8, 2021*

*This Certificate is valid until
August 5, 2025*

This Certificate consists of this sheet plus an attachment

Volkan Celik

RINA Services S.p.A.





**ATTACHMENT TO
CERTIFICATE No. MED090521XT/001**

Page 1 of 2

Manufacturer

HUSNA YAPI VE GEMI MALZEMELERI SANAYI VE TICARET LTD.STI.

Place of Manufacturer

FATIH BULVARI
NO.592 SULTANBEYLI
34925 ISTANBUL
TURKEY

Product description

Rectangular window having maximum clear size of 2150 mm x 1550 mm (WxH). The glass compound, type "Contraflam Lite Marine DGU A0" and having minimum total thickness of 34 mm, is composed, moving from the exposed side, of two toughened panes, 5 mm thick each and, in between, a thermo-expanding gel layer, a void space 12 mm thick and a toughened pane having thickness of 6 mm. The frame is composed of a steel flat, 12 mm thick, welded to a steel flat having thickness of 10 mm and fixed, by means of stainless steel M6 screws, to a stainless steel flat, fitted on the exposed side, having dimensions of 45x5 or 50x5 mm. Between the glass faces, the frame and the glass retaining frames, Kerafix ceramic gaskets having dimensions of 30x6 mm, are fitted. Between the glass edges and the frame intumescent gasket type Gluske Flexterm, 2 mm thick and, on the lower part, spacers type Promatect H having dimensions of 50x20x5 mm, are fitted. The window frame may be welded or bolted to the bulkhead.

Field of application

Fire resistant A-0 Class window with fire hazard on the inner side of the application.

Reference documents

HUSNA YAPI drawings No. A-0 R.001 Rev. 2 and No. A-0 R.001B Rev. 2 dated 1 July 2019 approved on 2 August 2019 respectively with endorsement Nos. LABS-1878 and LABS-1879.

Tests carried out

Tests as per RINA Test Laboratory report No. 2010CS012147/2 issued on 6 August 2010 according to IMO Res. A.754(18) A.I.





ATTACHMENT TO
CERTIFICATE No. MED090521XT/001
Page 2 of 2

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

YYYY The year in which the mark is affixed

General conditions for the approval

- The initial conditions verified by RINA at the time of the approval are to be maintained
- Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- 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
- RINA personnel are to be allowed to witness during the performances of activities, upon their request
- The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- 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

Volkan Celik

