



Maritime &
Coastguard
Agency

UK Approved Body Authorised
by the MCA

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*This certificate is not valid when
presented without the full attached
schedule composed of 7 sections*

Approved Body 8517 - UNITED KINGDOM MARINE EQUIPMENT APPROVAL

UK TYPE-EXAMINATION (MODULE B) CERTIFICATE

This is to certify that Bureau Veritas SA UK Branch Office did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, subject to any conditions in the schedule attached hereto.

This certificate is issued to:

IDEMARINE HUSNA GEMI SAN. VE TIC. LTD. STI.

Aksemsettin Mah., Fatih Bulvarı No:592, Sultanbeyli-ISTANBUL/TURKIYE, 34925, ISTANBUL, Türkiye

for the type of product

"A" AND "B" CLASS FIRE PROOF WINDOWS AND SIDE SCUTTLES

A-60 Class Rectangular Non-Opening Window, type "A60 Fire Ship windows"

Requirements:

SOLAS 74 convention as amended, Regulation II-2/9

IMO Res.MSC.5(48)-(IGC Code)- as amended, 3

IMO Res. MSC.307(88) (2010 FTP Code)

IMO MSC/Circ.1120 and IMO MSC.1/Circ.1203

The attached (schedule of approval) forms part of this certificate.

This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with.

This certificate will expire on: 14 Feb 2029

Issued by Bureau Veritas SA UK Branch Office

(Approved Body 8517)

At BV ISTANBUL, on 14 Feb 2024,

Gurcan Yilmaz

This certificate was created electronically and is valid without signature



Note 1: This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.

Note 2: During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved Body.

Note 3: "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 Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body."

Note 4: In case limitations of use apply, these should be indicated in the Annex.

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

A-60 Class Rectangular Non-Opening Window, type "A60 Fire Ship windows"

The 140 mm thick rectangular window with rounded corners (R=75 mm) is composed of:

- main frame: 12 mm thick and 70 mm deep steel plate,
- housing frame: 60 mm wide and 8 mm thick steel plate,
- fire glass assembly: 47 mm thick (see details below),
- glass retaining frame: 40 mm wide and 5 mm thick steel plate (exposed) screwed to a 37 mm deep steel angle.

The window has been tested in an A-60 class bulkhead with insulated side exposed to fire.

From the side exposed to fire, the fire glass assembly (total thickness 47 mm; manufactured by Saint-Gobain Vetrotech) is composed of:

- 27 mm thick pressure glass (5 mm thick toughened pane + thermo-expanding gel + 5 mm thick toughened pane + thermo-expanding gel + 5 mm thick toughened pane + thermo-expanding gel + 5 mm thick toughened pane),
- 14 mm thick void gap (argon),
- 6 mm thick toughened pane.

Means of fixation:

- between main frame and bulkhead: by continuous welding on both sides,
- between main frame and housing frame: by continuous welding on both sides,
- between main frame and glass retaining frame: M6x16 mm stainless steel screws with a max.75 mm spacing (between steel angle and exposed steel plate) and M8x40 mm stainless steel screws with a max.150 mm spacing (between steel angle, setting block and housing frame).

Heat insulation and glass gaskets filled in between fire glass assembly and side scuttle frames:

- between glass perimeter and steel angle/setting block: 2 mm thick intumescent seal type "Flextrem 100" and spacers (setting blocks) type "Promatect H",
- between steel angle and housing frame: 20 mm thick calcium silicate board type "Promatect H" (penetrated by the M8x40 mm stainless steel screws),
- between fire glass assembly and housing frame and exposed plate of the glass retaining frame: 20x5 mm silicone gasket (from Finnprofiles).

Maximum frame dimensions:	1920 x 1320 mm (width x height)
Maximum clear light dimensions:	1800 x 1200 mm (width x height)
Maximum size of the fire glass assembly:	1800 x 1200 mm (width x height)
Thickness of the fire glass assembly:	47 mm
Thickness of window:	140 mm

2. DOCUMENTS AND DRAWINGS:

As per the Manufacturer's drawings N° A60W WT Rev.00 (3 sheets) dated 21/04/2021.

3. TEST REPORTS:

Test report N° 617447 dated June 2021, as per IMO 2010 FTP Code Annex 1 Part 3, from TSE, Turkey.

4. APPLICATION / LIMITATION:

- 4.1 - Not-approved for A-class protection against fire from the weather side (e.g., not for use on front bulkhead of tankers).
- 4.2 - Installation on board ships carrying liquefied gases in bulk is subject to limitations given in paragraph 3.2 of IGC Code.
- 4.3 - The side scuttle has only been evaluated with regard to its fire resistance. The arrangement and location of any window in respect of strength requirements are subject to approval in each case.
- 4.4 - Sidescuttles of same type with lesser dimensions in terms of height and width than tested and with the same or greater thickness of [glass pane or panes and gaps] than tested (see §1) are also covered by this certificate.
- 4.5 - The fitting aboard should be the same as used for the test.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - This certificate alone does not allow the applicant to issue the UK Declaration of Conformity and to affix the mark of conformity (United Kingdom conformity mark) to the products corresponding to this type. To this end, the production-control phase module D Production Quality Assurance or module E Product Quality Assurance or module F Product Verification of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, is to be complied with and controlled by a written inspection agreement with an Approved Body.

5.2 - For information concerning the production phase modules, **IDEMARINE HUSNA GEMI SAN. VE TIC. LTD. STI.** has declared the following manufacturing site:

IDEMARINE HUSNA GEMI SAN. VE TIC. LTD. STI.
Aksemsettin mah. Fatih bulvari No: 592
Sultanbeyli / Istanbul
TURKEY

6. MARKING OF PRODUCT:

Reference is made to the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, Part 3:

In particular Article 15.3 specifies that the United Kingdom conformity mark shall be followed by the identification number of the Approved Body involved in the production control phase (module D, E or F) and by the year in which the mark is affixed (4 digits or last 2 digits).

7. OTHERS:

7.1 - It is **IDEMARINE HUSNA GEMI SAN. VE TIC. LTD. STI.**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate is based on the certificate EC Type Examination Certificate N° MED134920XT issued on 09/07/2021 by RINA.

***** END OF CERTIFICATE *****