

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

This is to certify:

That the Windows and side scuttles

with type designation(s)
A-60 Window - Contraflam

Issued to
Baggerød AS
HORTEN, Norway

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2018/773**,
item No. MED/3.25. SOLAS 74 as amended, Regulation II-2/9, IMO MSC/Circ.1120 and IMO 2010 FTP Code

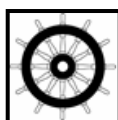
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-12-21**.

Issued at **Høvik** on **2018-12-22**

DNV GL local station:
Sandefjord

Approval Engineer:
Thorvald Furuseth



Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
Head of Notified Body



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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Product description

"A-60 Window - Contraflam"

composed of glass sheet unit consisting of a 8 mm toughened glass (exposed side) and a 8 mm air space and a 27 mm Contraflam Marine A-60 insulating glass, all mounted in a 4 mm steel frame and 5 mm fixing frame.

An internal 2 mm steel frame is mounted to the fixing frame with screws. Promatect L and Fiberfrax Duraboard 120LD (density 300kg/m³) or Insulfrax board 110LD (density 270kg/m³) are fitted between the glass unit and the steel/fixing frame.

The frame can be welded or bolted (M8 x 25 mm c/c 150 mm) to the bulkhead.

For further details, see also Type Examination documentation below.

Application/Limitation

The window is approved for use as an integrated part of fire retarding bulkheads of class A-60. Other applications are subject to case-by-case approval.

Max. size of exposed fire technical glazing unit: 1200 x 1900 mm (W x H).

Fire against external side.

The window has only been evaluated with respect to fire technical properties (e.g. strength requirements have not been considered). Arrangement and location of any window is subject to approval from relevant authorities in each case.

The insulation materials (Fiberfrax Duraboard 120LD or Insulfrax board 110LD and Promatect L) have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

Each product is to be supplied with its manual for installation and use.

Type Examination documentation

Test Reports No. PG 11846, Serial No. 11625 dated 19 June 2008 from DIFT (DBI), Copenhagen, Denmark.

Drawing No. 13740-003 Rev.1 dated 1 April 2008 from Norac Baggerød AS.

Assessment report no. 150101-30 Ver.2, dated 2018-12-21 from RISE fire Research, Trondheim, Norway.

Tests carried out

Tested according to IMO FTP Code part 3 and in compliance with IMO 2010 FTP Code Ch.8.

Marking of product

The product is to be marked with name and address of manufacturer, type designation, fire technical rating, the MED Mark of Conformity (see first page).