DNV·GL

Certificate No:
MEDB000008M

EC-TYPE EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2014/93/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Windows and side scuttles

with type designation(s)
A-60 Window - Hero-fire

Issued to
Baggerød AS
HORTEN, Norway

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.25 and Annex B, Module B in the Directive SOLAS 74 as amended, Regulation II-2/9, IMO MSC/Circ.847, IMO MSC/Circ.1120 and IMO 2010 FTP Code

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

Høvik, 2015-09-11
for **DNV GL AS**

This Certificate is valid until
2018-08-21

Notified Body No.: **0575**

Vidar Dolonen
Head of Department

DNV GL local office:
Sandefjord

Tessa Biever
Surveyor

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Product description

"A-60 Window – Hero-fire"
composed of a glass sheet unit consisting of a 12 mm toughened glass (exposed side) and a 12 mm air space and a 32 mm CGI Hero-fire insulating glass,
all mounted in a 4 mm steel frame and a 5 mm fixing frame.
An internal 2 mm steel frame is mounted to the fixing frame with screws.
Promatect L and Fiberfrax Duraboard LD 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.

Application/Limitation

The window is approved for use as an integrated part of fire retarding bulkheads of class A-60.

Maximum size of exposed fire technical glazing unit: 2100 x 1800 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 LD 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 11844, Serial No. 11623 dated 17 June 2008 from DIFT (DBI), Copenhagen, Denmark.

Drawing No. 13740-001 Rev.1 dated 1 April 2008 from Norac Baggerød AS.

Tests carried out

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

Marking of product

The product is to be marked with name of manufacturer, type designation, fire technical rating, the MED Mark of Conformity.

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.