



DET NORSKE VERITAS

EC TYPE-EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2009/26/EC, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

CERTIFICATE NO. **MED-B-7014**

This is to certify that the
Windows and side scuttles

with type designation(s)
A-60 WINDOW 1200 x 2200

Manufacturer
C.C. Jensen A/S
SVENDBORG, Denmark

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 FTP Code

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

Høvik, 2011-07-20
for **Det Norske Veritas AS**



This Certificate is valid until
2016-07-20

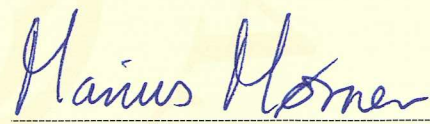


Eivind Mykland
Head of Department

Notified Body No.: **0575**

DNV local office:
Fredericia





Marius Mørner
Surveyor



The Certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this Certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended. The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.



Certificate No.: MED-B-7014
Item No.: A.1/3.25
Job Id.: 344.1-000427-5

Product description

“A-60 WINDOW 1200 x 2200”

composed of steel frame incorporating a glass unit consisting of one of the following:

1. pressure glass, minimum 10 mm, an air cavity of 15 mm and a fire technical glass sheet unit made from “Contraflam N2” (4+5+3+5+6), or
2. pressure glass sheet, min. 10 mm, an air cavity of 6 mm and a fire technical glass sheet unit made from MarinFlam (4 mm glass + 22 mm gel + 6 mm glass).

Total glass unit thickness 48 mm.

Complete side of window frame to be insulated on unexposed side to the same fire rating as that of the bulkhead, to which the window is mounted.

Application/Limitation

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

Maximum size of fire technical glazing unit: 1200 x 2200 mm (width x height).

The insulation material used has to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

Fire against external (pressure glass) side.

Strength glass against weather side to be marked according to ISO 614 (where relevant).

The window is approved for installation in steel bulkheads. Other applications are subject to case-by-case approval.

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.

Hose Stream test was carried out with satisfactory results according to IMO Res. A.754(18) Appendix A.I.5.

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

Type Examination documentation


Test report: WARRES No. 112609 dated 19 June 2000 from Warrington Fire Research Centre, Warrington, UK and test report File No. PG 11030 Serial No. 8585 dated 11 June 2002 from Danish Institute of Fire Technology, Copenhagen, Denmark.

Tested according to IMO FTPC Part 3 (IMO Res. A.754(18)).

Marking of product

The product is to be marked with name of manufacturer, type designation, fire technical rating and the Mark of Conformity, if applicable (see below).

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.



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