



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 2008/67/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-5478**

This is to certify that the
Windows and side scuttles

with type designation(s)
A60 WINDOW 940 x 1140

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

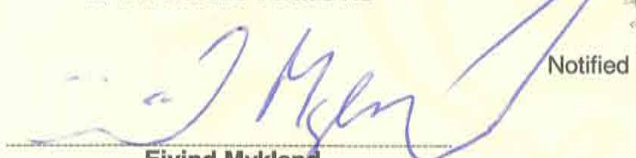
Further details of the equipment and conditions for certification are given overleaf.

Høvik, 2009-08-20
for Det Norske Veritas AS




Notified Body No.: **0575**

This certificate is valid until
2014-08-20


Eivind Mykland
Head of Department

DNV local office:
DNV Fredericia


Øyvind Hoff
Surveyor



Notice: 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-5478
Item No.: A.1/3.25
Job Id.: 344.1-002057-1

Product description

"A60 Window 940 x 1140"

composed of an insulated glass pane in a steel frame. The glazing consists of a 10 mm toughened glass, an air cavity of 15 mm and a fire technical glass made from "Contraflam A60/N2 ISO" (6+5+3+5+6 mm toughened glass/gel/glass/gel/toughened glass) on the exposed side. Total glass unit thickness is 50 mm.

The window frame is fully welded to the bulkhead and insulated on the unexposed side with 55/42 mm Rockwool Marine Firebatts 130 (130 kg/m³) in a 1.25 mm thick steel casing.

Application/Limitation

Approved for use as an integrated part of fire retarding bulkheads of class A-60. Max. clear opening is 940 x 1140 mm (W x H). Fire against external side.

The window has only been evaluated with respect to fire technical properties. Arrangement and location of any window is subject to approval from relevant authorities in each case.

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

Radiation measurements were performed with satisfactory results according to IMO FTP Code Part 3, Appendix 1.

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

Type Examination documentation

Test report No. PG11209 Serial No. 9328 dated 23 November 2003 from Danish Institute of Fire and Security Technology, 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 MED Mark of Conformity (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 of Certificate Conformity.

