



# 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-7013**

This is to certify that the  
**Windows and side scuttles**

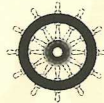
with type designation(s)  
**A-0 THERMO GLASS Ø 400**

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

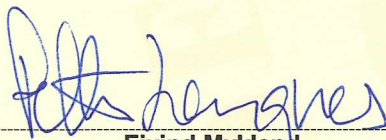
is found to comply with the requirements in the following Regulations/Standards:  
Annex A.1, item No. A.1/3.25 and Annex B, Module B in the Directive SOLAS 74 as amended, Regulation II-2/9, IMO MSC/Circ.847, IMO MSC/Circ.1120 and IMO FTP Code

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

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



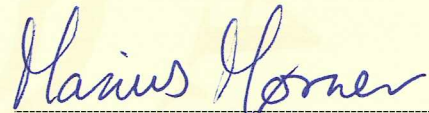
This Certificate is valid until  
**2016-07-20**



**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-7013  
Item No.: A.1/3.25  
Job Id.: 344.1-000427-5

### Product description

"A-0 THERMO GLASS Ø 400"

side scuttle composed of 12 mm glass (Pyro Swiss A0 '12'), 6 mm airgap and 6 mm glass (AG Glass A0 '6') mounted in a steel frame with the 12 mm glass on external side.

Window frame insulated on the exposed side with 90 mm Rockwool Marine Firebatts 130 (density 130 kg/m<sup>3</sup>).

Total thickness of window composition: 24 mm.

### Application/Limitation

Approved for use as an integrated part of fire retarding bulkheads of class A-60.

Maximum size of fire technical glazing unit: Ø 400 mm.

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

Fire against internal side.

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 authority in each case.

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

### Type Examination documentation


Test report No: File No. PG 10686 Serial No. 7893 dated 16 January 2001 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.

