



# 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 2002/75/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-3656**

This Certificate consists of 3 pages

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

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

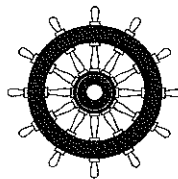
*Manufactured by*  
**C.C. Jensen A/S**  
Svendborg, Denmark

*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-2/9.4.1.3, MSC/Circ.847 and IMO FTP Code.

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

*Place and date*  
Høvik, 2006-05-15  
for DET NORSKE VERITAS AS

Tore Morten Wetterhus  
Manager, MTPNO370  
Department Systems & Components



Notified Body No. 0575

*This Certificate is valid until*  
2011-05-15



Dag Nilsen  
Surveyor

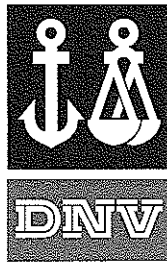
*DNV local office:*  
DNV Fredericia



*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.*

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: MED-B-3656  
Case No.: 344.1-000427-1  
File No.: A.1/3.25

## 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>).

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

## Applications/Limitations

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.

Fire against internal 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 authority in each case. The window has not been tested with regards to thermal radiation, ref. MSC Circular/727.

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

## Type Approval 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 (see page 3).





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### 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 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.

END OF CERTIFICATE

