



DET NORSKE VERITAS

EC TYPE-EXAMINATION CERTIFICATE

CERTIFICATE NO. RCD-B-228

This Certificate consists of 3 pages

This is to certify that the product

Portlights
274.20

with type designation(s)

Mk4 Opening Portlight System

Manufactured by

Trend Marine Products Limited
GREAT YARMOUTH NR29 5BG, United Kingdom

has been assessed with respect to
the conformity assessment procedure described in Annex VII (Module B) of
Council Directive 94/25/EC on Recreational Craft as amended by Directive 2003/44/EC,
and found to comply with the applicable requirements

Further details are given overleaf.

Place and date
Høvik, 2008-06-17
for DET NORSKE VERITAS



Notified Body No.: 0575

Marianne Strand Valderhaug
Head of Section

Hallgeir B. Eilertsen
Surveyor

Notice: The certificate is subject to terms and conditions overleaf. Any significant changes in design or construction may render this certificate invalid.

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.

Jurisdiction

DNV is appointed by the Norwegian Ministry of Trade and Industry as a "Notified Body" under the terms of the Norwegian regulation - FOR 2004-12-20 nr. 1820 "Forskrift om produksjon og omsetning av fritidsfartøy m.v.", and - Article 9 of Council Directive 94/25/EC as amended.

Certificate history

This is the third issue of the original Certificate, issued 2006-11-28

Product description

- Opening type portlights with shapes as specified below
- Body frame made from stainless steel (SS)
- Glazing panel made from Perspex fitted in SS glazing frame
- Glazing frame is attached to the body frame by hinge assemblies made of SS and glass filled nylon or polycarbonate
- Glazing frame is locked by thumb turn assemblies made of SS and glass filled nylon or cast SS with silicone bronze inserts
- Seal of rectangular shaped silicone rubber is glued to the glazing by silicone adhesive or alternatively, EDPM self backed adhesive seal

<i>Shape</i>	<i>Glazing -thickness / -size</i>	<i>Nos. of hinges</i>	<i>Nos. of thumb turns</i>
Curved Rectangular	10 mm / 600 mm x 300 mm	2	5
Oval	15 mm / 700 mm x 300 mm	3	5
Upright Parallelogram	10 mm / 580 mm x 275 mm	1	5
Large Segmented	15 mm / 1040 mm x 265 mm	5	5
Large Opening Oval	15 mm / 682 mm x 479 mm	2	7
Long True Elliptical	15 mm / 1035 mm x 260 mm	3	8

Applications/Limitations

May be used on Recreational Craft subject to CE-marking under the Directive 94/25/EC as amended in the following *Areas* as defined in ISO12216 on *Any* Craft Type of *Any* Design Category

<i>Shape</i>	<i>Area I</i>	<i>Area IIb</i>	<i>Area III</i>	<i>Area IV</i>
Curved Rectangular	√	√	√	√
Oval	√	√	√	√
Upright Parallelogram	√	√	√	√
Large Segmented	√	√	√	√
Large Opening Oval		√	√	√
Long True Elliptical	√	√	√	√

Technical documentation

Applied Standards/Tests carried out

ISO12216:2002 Small craft – Windows, portlights, hatches, deadlights and doors -
Strength and tightness requirements

Test reports: - Pressure Tightness Test, dated 11/10/01, 24/02/03, 9/04/03 & 2/10/07

Terms and conditions

The product liability rests with the manufacturer, his representative or, in the absence of a representative, the importer, in accordance with the General Product Safety Directive 2001/95/EC.

The following conditions may render this certificate invalid:

- Changes in the design or construction of the product
- Changes or amendments to the Directive
- Changes or amendments in the standards which form the basis for documenting compliance with the essential requirements of the Directive

Marking of product

This Certificate is concerned with the design of the product, only. In order to fully meet with the requirements of the Directive and legally affix the CE mark, the manufacturer must also have the final product and/or production assessed according to one of the procedures listed below and finally draw up an EC declaration of conformity.

Conformity assessment procedures for production:

- Conformity to type (Annex VIII/Module C)
- Production quality assurance (Annex IX/Module D)
- Product quality assurance (Annex XVI/Module E)
- Product verification (Annex X/Module F)

Other directives, covering other phenomena, and also having requirements related to CE marking, might also apply.

END OF CERTIFICATE