



DET NORSKE VERITAS

EC TYPE-EXAMINATION CERTIFICATE

CERTIFICATE NO. RCD-B-343

This Certificate consists of 4 pages

This is to certify that the product

Portlights

274.20

with type designation(s)

**Round, Oval and Rectangular Opening Portlights,
Type LSR, LSO & LS**

Manufactured by

Man Ship Machinery & Hardware Co. Ltd.

KAOHSIUNG 81245, Taiwan

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

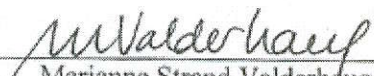
Further details are given overleaf.

Place and date

Høvik, 2008-05-05

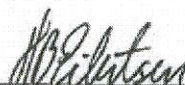
for DET NORSKE VERITAS AS




Marianne Strand Valderhaug
Head of Section

Notified Body No.: 0575





Hallgeir B. Eilertsen
Surveyor

Notice: The certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product 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" means 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.: RCD-B-34:
Case No.: 4193-520.0
File No.: 274.20

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 original Certificate.

Product description

Opening type of Portlights. Type designations are listed below.

- Framing of stainless steel (SS) 316
- Glazing of toughened glass
- Glazing attach to framing by silicone sealant
- Hinges of SS 316
- Thumbturns of SS 316 and delrin
- Seal of San-Flex rubber

Applications/Limitations

May be used on Recreational Craft subject to CE-marking under the Directive 94/25/EC, as amended, in the following, as listed, *Application Location Areas* as defined in ISO12216 on *Any Craft Type of Any Design Category*.
(see next page)



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Type	Model No.	Glazing dimension (mm)	Glazing thickness (mm)	Application location Area
LSR	LSR-0500	Ø = 118	8	III & IV
	LSR-0600	Ø = 143	8	III & IV
	LSR-0700	Ø = 169	8	III & IV
	LSR-0800	Ø = 194	8	III & IV
	LSR-1000	Ø = 241	10	III & IV
	LSR-1200	Ø = 292	10	III & IV
	LSR-1400	Ø = 343	10	III & IV
LSO	LSO-0512	114 x 292	8	III & IV
	LSO-0614	140 x 318	8	III & IV
	LSO-0714	165 x 343	8	III & IV
	LSO-0716	165 x 394	8	III & IV
	LSO-0718	165 x 444	8	III & IV
	LSO-0816	190 x 394	8	III & IV
	LSO-0818	190 x 444	8	III & IV
	LSO-1020	241 x 495	10	III & IV
	LSO-1024	241 x 596	10	III & IV
	LSO-1224	292 x 596	10	III & IV
	LSO-1228	292 x 697	10	III & IV
LS	LS-0512	114 x 289	5	III & IV
	LS-0714	165 x 343	5	III & IV
	LS-0716	165 x 394	5	III & IV
	LS-0718	165 x 444	5	III & IV
	LS-0816	190 x 394	5	III & IV
	LS-0818	190 x 444	5	III & IV
	LS-1020	241 x 495	10	III & IV
	LS-1024	241 x 596	10	III & IV
	LS-1224	292 x 596	10	III & IV
	LS-1228	292 x 697	10	III & IV

The certificate covers products with varying dimensions within the smallest and largest dimensions listed for each type. The glazing thickness shall be increased to the thicker size listed when these products exceed the dimension of the following types: LSR-0800, LSO-0818, LS-0818

Technical documentation

Drawings:

- Round Opening Ports, LSR, dated 96.12.20 rev.3
- Oval Opening Ports, LSO, dated 96.12.20 rev.3
- Rectangular Opening Ports, LS, dated 96.12.20 rev.3
- Gluing Procedure



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