



DET NORSKE VERITAS

EC TYPE-EXAMINATION CERTIFICATE

CERTIFICATE NO. **RCD-B-384**

This is to certify that the

Hatches

with type designation(s)

Luxury Deck Hatch

Type LDHR & LDHS

Manufacturer

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.

Høvik, 2009-06-25
for **Det Norske Veritas AS**



Notified Body No.: **0575**

Marianne Strand Valderhaug
Head of Section

Asbjørn Lønmo
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 the applied standards may render this certificate invalid. The product liability rest with the manufacturer or his representative in accordance with Council Directive 94/25/EC as amended

Except for any liability caused by DNV's gross negligence or wilful misconduct, DNV's maximum cumulative liability arising out of or related to the use or reliance of this document shall be limited to USD 300 000.

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

Round and semi-round shaped outward opening type deck hatch.

Type designations are listed below.

- Framing made from stainless steel (SS) 316
- Glazing made from polymethylmethacrylate (PMMA)
- Glazing attached to frame by silicon sealant
- Handles made from nylon
- Seal of PVC-elastomer

Type	Model	Inside opening (mm)	Glazing thickness (mm)	No of handles/hinges
Luxury Deck Hatch, Round	LDHR-40	Ø 419	12.7	2 / 1
	LDHR-50	Ø 495	12.7	2 / 1
	LDHR-60	Ø 609	12.7	3 / 1
	LDHR-70	Ø 787	12.7	4 / 1
Luxury Deck Hatch, Semi-Round	LDHS-40	242 x 419	12.7	2 / 2
	LDHS-50	280 x 495	12.7	2 / 2
	LDHS-60	337 x 609	12.7	3 / 2
	LDHS-70	425 x 787	12.7	4 / 2

The certificate covers products with varying dimensions within the smallest and largest dimensions listed for each type.

Applications/Limitations

Type	Model	Location Area	Craft type	Design Category
Luxury Deck Hatch, Round	LDHR-40	IIa, III, IV	Any	B
	LDHR-50			
	LDHR-60			
	LDHR-70			
Luxury Deck Hatch, Semi-Round	LDHS-40	IIa, III, IV	Any	B
	LDHS-50			
	LDHS-60			
	LDHS-70			

The hatches do not comply with:

- EN ISO 12216 as Multihull Escape Hatch
- EN ISO 9094 as emergency exit

Technical documentation

Drawings.

- Luxury Deck Hatch model LDHR, dated 97.12.20 rev.1
- Luxury Deck Hatch model LDHS, dated 97.12.20 rev.1

Applied Standards/Tests carried out

Standard:

- EN ISO 12216:2002 Small Craft – Windows, Portlights, Hatches, Deadlights and Doors – Strength and Tightness requirements

Tests:

- Test report for EC Type Examination certification of Deck Hatch, dated 2009-04-16
- Glue Product test report, dated February 18, 1987

Terms and conditions

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 shall 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)

The product shall at the time of purchase, have an information notice which indicates the upper design category, boat type and location area allowed.

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