

**MARINE DIVISION**

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**Certificate number:** 16357/A0 BV

**File number :** ACC 125/86

**Product code :** 64671

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

## TYPE APPROVAL CERTIFICATE

*as per Bureau Veritas Classification Rules*

*This certificate is issued to*

**Pacific Coast Marine Industries, Inc.**  
Everett, WA - UNITED STATES OF AMERICA

*for the type of product*

### WATERTIGHT DOORS

Stainless Steel, Steel or Aluminium Quick Acting Watertight Door/Hatch

**Regulations and standards :**

Bureau Veritas Rules for the Classification of Steel Ships 2005

*This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of the Regulations and standards mentioned above.*

**This certificate is valid until : 04 May 2011**

At Paris la Défense, on : 04 May 2006

**For BUREAU VERITAS,**  
*By order of the Secretary*

Approval office

Local office : BV PORT EVERGLADES  
CENTRE

Surveyor : F. Rosas



**J. BENOIT**



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

## **THE SCHEDULE OF APPROVAL**

### **1. PRODUCT DESCRIPTION :**

#### **Stainless Steel, Steel or Aluminium Quick Acting Watertight Door/Hatch**

##### **Optional items:**

- **Hinges :** Face mount, Concealed & Pantograph
- **Port light :** Fixed port light without dead light cover  
Fixed port light with hinged dead light cover

#### **Aluminium Door/Hatch**

##### **Door construction:**

##### **Framing options:**

- 6063 Aluminium
- ASTM A-36 Steel
- 304 Stainless steel

##### **Panel construction options:**

- 5052 Aluminium
- ASTM A-36 Steel
- 304 Stainless steel

**Size of door: 50" x 84"**

### **2. DOCUMENTS AND DRAWINGS :**

#### **Main design appraisal documents:**

- type approval Rev A sheet 1 of 6 Bom and approval drawing
- type approval Rev A sheet 2 of 6 Frame assembly details
- type approval Rev A sheet 3 of 6 Door panel assembly details
- type approval Rev A sheet 4 of 6 Linkage assembly and details
- type approval Rev A sheet 5 of 6 Exterior door skin forming
- type approval Rev A sheet 6 of 6 Cover pan forming

### **3. TEST REPORTS :**

- Test report Everett dated 03.11.2005 and 16.02.2006 under the supervision of DNV surveyor.
- LR test report n°LAN 040108 dated 15.06.2005 and 27.06.2005

### **4. APPLICATION / LIMITATION :**

4.1 This certificate is only issued to attest that the resistance of these watertight doors as described above were found satisfactory for a maximum pressure head ( m ) : 3,5

4.2 **These doors cannot be used in location where fire integrity is requested.**

4.3 On board installation is to be tested in accordance with the BV Rules

### **5. PRODUCTION SURVEY REQUIREMENTS :**

Arrangement should be made for a Society's surveyor to inspect the door which is intended for use on Bureau Veritas registered ships. Hose testing conditions are given in the BV Rules.

**6. MARKING OF PRODUCT:**

Every door is to be affixed with the following details:

- Maximum design pressure
- Manufacturer's name
- Bureau Veritas relevant die-stamp
- Bureau Veritas relevant certificate

**7. OTHERS :**

This approval is given on the understanding that the manufacturer will accept full responsibility for informing shipbuilders or their sub-contractors of the proper methods of fitting and general maintenance of the approved equipment and the conditions of this approval.

**\*\*\* END OF CERTIFICATE \*\*\***