



## TEST CERTIFICATE CERTIFICATO DI COLLAUDO

N. 2018/XM/01/41-1

RINA file No. 2018/XM/01/41  
*Pratica RINA N.*

Manufacturer or Supplier:  
*Fabbricante o Fornitore*

Work order No.: 17/12/160-A  
*Commessa N.*

Purchaser:  
*Committente*

Order No.: ASL/PO18-01795 Intended for: RI 96752 (Hull No.H1174)  
*Ordine N. Destinazione*

**THIS IS TO CERTIFY** that the items, particulars of which are given below, have been tested and found to be in compliance with the requirements of the RINA rules

*SI CERTIFICA* che gli oggetti / apparecchi, le cui caratteristiche sono di seguito indicate, sono stati sottoposti a collaudo e sono stati riscontrati conformi alle prescrizioni dei regolamenti del RINA.

The calibration status and adequacy of the test measurements devices used have been satisfactorily verified.

*Lo stato di taratura e l'adeguatezza degli strumenti di misura utilizzati per il collaudo sono stati verificati con esito soddisfacente*

Description of material and tests carried out:

*Descrizione del materiale e prove eseguite:*

- 1) Aluminium Bolted Window (15mm T) (Quantity: 3)  
*Serial no.: 9374-W1 & W2 (see test report for details)*
- 2) Aluminium Bolted Window (10mm T) (Quantity: 8)  
*Serial no.: 9374-W3 & W4 (see test report for details)*
- 3) Aluminium Bolted Window (8mm T) (Quantity: 2)  
*Serial no.: 9374-W5 (see test report for details)*
- 4) Aluminium Weather tight Door (Quick Acting) (600mm x 1650mm) (Quantity: 1)  
*Serial no.: 9473-D1 (see test report for details)*
- 5) A30 Steel Watertight Door (Quick Acting) (600mm x 1400mm) (Quantity: 1)  
*Serial no.: 9374-D2 (see test report for details)*
- 6) Aluminium Weather tight Hatch (Quick Acting) (654mm x 654mm) (Quantity: 1)  
*Serial no.: 9374-H1 (see test report for details)*
- 7) Aluminium & Steel Watertight Hatch (Quick Acting) (Quantity: 3)  
H2: 654mm x 654mm x 2 pcs & H2a: 770mm x 814mm x 1 pce  
*Serial no.: 9374 (see test report for details)*
- 8) Steel Watertight Hatch (1500mm x 1420mm) (Quantity: 2)  
*Serial no.: 9374-H3 (see test report for details)*

Inspection and tests carried out:

- Review of Approved Drawing:
  - a) Bolted Windows - SHST-29858[1, 2, 3],
  - b) WT & We.T Doors - SHST-29858[4, 5],
  - c) WT & We.T Hatch - SHST-29858[6, 7, 8],
- Visual and dimensional examination[1, 2, 3, 4, 5, 6, 7, 8]
- Hose test or Equivalent[1, 2, 3, 4, 6, 7, 8]
- Hydrostatic test[2, 5,7, 8]
- Functioning test[4, 5, 6, 7, 8]

Comments:

- Random dimensional examination was carried out and found in order
- Hydrostatic test up to a pressure head of 0.40bar on 10% of total A30 Water Tight Door found satisfactory
- Hydrostatic test up to a pressure head of 0.25bar on 10% of total Hatches and Windows found satisfactory

Markings: Marche apposte:	93 74		Testing date: Data collaudo:	14/03/2018
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Enclosures: Maker Quality Inspection Report dated 14 March 2018  
 Allegati:

Issued at: Kuala Lumpur on: 15 March 2018  
 Rilasciato a: il:



  
 RINA  
 Muhammad Faizal Bin Mamat  
 RINA Services S.p.A

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# AQUA LOGISTICS PTE LTD

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Tel : 6566 5166 (5 Lines) Fax : 6566 6303

E-mail Address : aqualog@singnet.com.sg

Website : www.aqualogistics.com.sg



## QUALITY INSPECTION REPORT

CLIENT : \_\_\_\_\_

OUR REF. : ALP/QIR-03004/18

HULL NO. : H1174 - 16.8M SURVEY BOAT "POLARIS 1 & 2"

RINA REF. NO. : SHST/2018/HERSA

CLIENT PO NO. : ASL/PO18-01795

WORK ORDER NO. : 17/12/160-A

### TYPE-3 BOLTED TYPE WINDOW

Drawing No. Q11050-17 (W1) ~ (W5) REV. C dated 16th Jan 2018

MARKING	MATERIAL	CLEAR SIZE (W x H)	TYPE	TOUGHENED GLASS	CLEAR RADIUS	RINA NO.	REQUIRED NO.		
							P	S	TOTAL
W1	ALUMINIUM	946 x 905	FIXED	15mmt CLEAR	R100			1	
W2	ALUMINIUM	895/895 x 876	FIXED	15mmt CLEAR	R100		1	1	
W3	ALUMINIUM	898/479 x 800	FIXED	10mmt CLEAR	R100		1	1	
W4	ALUMINIUM	925 x 800	FIXED	10mmt CLEAR	R100			6	
W5	ALUMINIUM	550 x 550	FIXED	8mmt CLEAR	R100			2	
TOTAL QTY : (NOS)								<b>13</b>	

REMARK : - ALL WINDOWS WERE VISUALLY EXAMINED AND DIMENSIONALLY CHECKED AGAINST THE MANUFACTURER DRAWINGS.  
MATERIAL CERTIFICATES REVIEWED AND FOUND SATISFACTORY.  
- HYDROSTATIC TEST WERE CARRIED OUT ON THE SAMPLE OF WINDOW MARKED W3 (1 QTY) & W4 (1 QTY) ; WITH WATER PRESSURE HEAD  
OF 0.25 BAR (2.5 METER) AND VISUAL EXAMINATION CARRIED OUT AND FOUND NO LEAKS OR DEFORMATION ON THE WINDOW  
- ALL WINDOWS WILL BE ACCEPTED SUBJECT TO INSTALLATION ON BOARD THE VESSEL TO THE SATISFACTION OF THE ATTENDING  
SURVEYOR

THIS IS TO CERTIFY THAT CLASS AUTHORITIES OR CLIENT REPRESENTATIVES HAVE INSPECTED THE PRODUCT LISTED ABOVE  
ON 14TH MARCH 2017.

COMMENTS :-

*Satisfactory*

WITNESS BY :

**RINA**  
Muhamad Faizal Bin Mamat  
(ATTENDING SURVEYOR) Services S.p.A  
NAME : MR. MUHAMAD FAIZAL BIN MAMAT  
DATE : 14TH MARCH 2018

VERIFIED BY :

**AQUA LOGISTICS PTE LTD**  
(MANUFACTURER'S QA DEPARTMENT)  
NAME : LOW JOO TANG  
DATE : 14TH MARCH 2018

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## QUALITY INSPECTION REPORT

CLIENT : \_\_\_\_\_

OUR REF. : ALP/QIR-03005/18

HULL NO. : H1174 - 16.8M SURVEY BOAT "POLARIS 1 & 2"

RINA REF. NO. : SHST/2018/HERSA

CLIENT PO NO. : ASL/PO18-01795

WORK ORDER NO. : 17/12/160-A

### WATERTIGHT & WEATHERTIGHT DOORS

Drawing No. Q11050-17 (D01) & (D02) REV. A dated 14th Dec 2017

MARKING	MATERIAL	CLEAR SIZE (W x H)	TYPE	RINA NO.	REQUIRED NO.		
					L.O.	R.O.	TOTAL
D1	ALUM.	600 x 1650	WEATHERTIGHT DOOR [QUICK ACTING MECHNISM]		1	1	
D2	STEEL	600 x 1400	A30 WATERTIGHT DOOR [QUICK ACTING MECHNISM]		1	1	
TOTAL QTY : (NOS)						2	

REMARK : - ALL DOORS WERE VISUALLY EXAMINED AND DIMENSIONALLY CHECKED AGAINST THE MANUFACTURERS DRAWING.  
MATERIAL CERTIFICATES REVIEWED AND FOUND SATISFACTORY.  
- HYDROSTATIC TEST WERE CARRIED OUT ON THE SAMPLE OF A30 WATERTIGHT DOOR MARKED D2 (1 QTY); WITH WATER HEAD PRESSURE HEAD OF 0.40 BARS (4 METER) VISUAL EXAMINATION CARRIED OUT AND FOUND NO LEAK OR DEFORMATION ON THE DOOR  
- CHALK TEST WERE CARRIED OUT ON THE REMAINING DOORS WITH GASKET UNDER TENSION AND FOUNS SATISFACTORY  
- ALL DOORS WILL BE ACCEPTED SUBJECT TO INSTALLATION ON BOARD THE VESSEL TO THE SATISFACTION TO THE ATTENDING SURVEYOR

THIS IS TO CERTIFY THAT CLASS AUTHORITIES OR CLIENT REPRESENTATIVES HAVE INSPECTED THE PRODUCT LISTED ABOVE ON 14TH MARCH 2017.

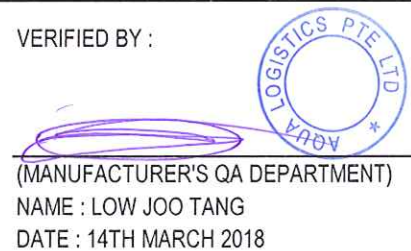
COMMENTS :-

*SATISFACTORY*

WITNESS BY :

  
(ATTENDING SURVEYOR)  
NAME : MR. MUHAMMAD FAIZAL BIN MAMAT  
DATE : 14TH MARCH 2018

VERIFIED BY :

  
(MANUFACTURER'S QA DEPARTMENT)  
NAME : LOW JOO TANG  
DATE : 14TH MARCH 2018



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## QUALITY INSPECTION REPORT

CLIENT : \_\_\_\_\_ OUR REF. : ALP/QIR-03006/18  
HULL NO. : H1174 - 16.8M SURVEY BOAT "POLARIS 1 & 2" RINA REF. NO. : SHST/2018/HERSA  
CLIENT PO NO. : ASL/PO18-01795 WORK ORDER NO. : 17/12/160-A

### HATCH

Drawing No. Q11050-17 REV. D (H1) ~ H4 dated 25th Jan 2018

MARKING	MATERIAL	COAMING SIZE (W x H x L)	TYPE	RINA NO.	REQUIRED NO.		
					-	-	TOTAL
H1	ALUMINIUM	654 x 654	WEATHERTIGHT HATCH [QUICK CLOSING]				1
H2	ALUM/ STEEL	654 x 654	WATERTIGHT HATCH [QUICK CLOSING]				2
H2a	ALUM/ STEEL	770 x 814	WATERTIGHT HATCH [QUICK CLOSING]				1
H3	STEEL	1500 x 1420	WATERTIGHT FLUSH HATCH				2
TOTAL QTY : (NOS)							6
REMARK : - ALL HATCHES WERE VISUALLY EXAMINED AND DIMENSIONALLY CHECKED AGAINST THE MANUFACTURERS DRAWINGS. MATERIAL CERTIFICATES REVIEWED AND FOUND SATISFACTORY. - HYDROSTATIC TEST WERE CARRIED OUT ON THE SAMPLE OF WATERTIGHT HATCH MARKED H2 (1 QTY), H2a (1 QTY) & H3 (1 QTY); WITH PRESSURE HEAD OF 0.25 BARS (2.5 METER) AND VISUAL EXAMINATION CARRIED OUT AND FOUND NO LEAK OR DEFORMATION ON THE HATCH. - CHALK TEST WERE CARRIED OUT ON THE REMAINING HATCH WITH GASKET UNDER TENSION AND FOUNDS SATISFACTORY - ALL HATCH WILL BE ACCEPTED SUBJECT TO INSTALLATION ON BOARD THE VESSEL TO THE SATISFACTION TO THE ATTENDING SURVEYOR							

THIS IS TO CERTIFY THAT CLASS AUTHORITIES OR CLIENT REPRESENTATIVES HAVE INSPECTED THE PRODUCT LISTED ABOVE ON 14TH MARCH 2017.



COMMENTS :-

*Satisfactory*

WITNESS BY :

  
**RINA**  
Muhamad Faizal Bin Mamat  
(ATTENDING SURVEYOR) *RINA Services S.p.A*  
NAME : MR. MUHAMAD FAIZAL BIN MAMAT  
DATE : 14TH MARCH 2018

VERIFIED BY :

  
  
(MANUFACTURER'S QA DEPARTMENT)  
NAME : LOW JOO TANG  
DATE : 14TH MARCH 2018