

QS - CERTIFICATE OF ASSESSMENT - EC (MODULE D)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Quality System for the products

with type designation(s) as specified in the Appendix to this Certificate

Issued to

Jiangsu Hailu Technology Incorporated Corporation
JIANGYIN JIANGSU, China

is found to comply with the applicable requirements.

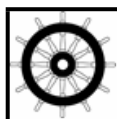
The quality system has been assessed with respect to the procedure of conformity assessment described in Annex II, Module D in the directive 2014/90/EU and regulation (EU) 2017/306.

This Certificate is valid until **2022-09-04**.

Issued at **Hamburg** on **2017-09-05**

DNV GL local station:
Jiangyin

Approval Engineer:
Roland Priebe

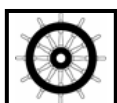


Notified Body
No.: **0098**

for **DNV GL SE**

Sven Dudsus
Head of Notified Body

The manufacturer is allowed to affix the U.S. Coast Guard approval number(s) as stated in the appendix attached hereto and as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004.



0098/yyyy

0098: Notified Body number undertaking quality surveillance
yyyy: The year in which the mark is affixed

The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate authorizes the manufacturer in conjunction with the valid EC Type Examination (Module B) Certificate(s) of the equipment listed before to affix the Mark of Conformity (wheelmark) to the product described herein.

This certificate loses its validity if the manufacturer makes any changes to the approved quality system, which have not been notified to, and agreed with the notified body named on this certificate. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

The Manufacturer has to apply for periodical audits to verify the maintenance and application of the quality system every 12 months.



Job Id: **344.1-007299-1**
Certificate No: **MEDD0000180**

APPENDIX

Item no. MED/3.11a "A" Class divisions, fire integrity

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
Marine JCP-AL4, Class A-30 Light Structure Bulkhead ¹	1981411 HH	2019-06-09	0098	164.108/EC0098/1981411
Marine AZ-I, Class A-60 Bulkhead ¹	1981011 HH	2019-05-25	0098	164.108/EC0098/1981011
Marine AZ-II, Class A-60 Deck ¹	1982011 HH	2019-05-25	0098	164.105/EC0098/1982011
Marine JCP-A1, Class A-30 Bulkhead ¹	1982811 HH	2019-05-25	0098	164.108/EC0098/1982811
JCP-DF2, Class A-60 Floating Floor ¹	6032913 HH	2018-04-29	0098	164.105/EC0098/6032913

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Item no. MED/3.11b "B" Class divisions, fire integrity

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
JCP-C2, Class B-15 Ceiling with fittings ¹	MEDB000032D	2022-09-04	0098	164.108/EC0098 /MEDB000032D
JCP-B1-L and JCP-B3-L, Class B-15 Bulkhead ¹	1136014 HH	2019-11-19	0098	164.108/EC0098 /1136014
JCP-C2A, Class B-15 Ceiling ¹	1136114 HH	2019-11-19	0098	164.110/EC0098 /1136114
JCP-C2-L, Class B-0 Ceiling ¹	1136514 HH	2019-11-19	0098	164.110/EC0098 /1136514
JCP-C6C, Class B-0 Ceiling ¹	1136314 HH	2019-11-19	0098	164.110/EC0098 /1136314
JCP-C6D, Class B-15 Ceiling ¹	1136414 HH	2019-11-19	0098	164.110/EC0098 /1136414
JCP-C8C, Class B-0 Ceiling ¹	1136214 HH	2019-11-19	0098	164.110/EC0098 /1136214
JCP-L2-L and JCP-L5-L, Class B-0 Bulkhead ¹	1135914 HH	2019-11-19	0098	164.108/EC0098 /1135914
JCP-C8 A, Class B-15 Ceiling and JCP-DC8 A, Class A-30 Ceiling / Steel Deck Construction ¹	9531914 HH	2019-10-26	0098	164.110/EC0098 /9531914
JCP-C7, Class B-15 Ceiling and Class A-30 Deck ¹	1927011 HH	2019-06-09	0098	164.110/EC0098 /1927011
Marine HL-BED-A, Class B-15 Stealth Bed Ceiling ¹	1245410 HH	2019-06-09	0098	164.110/EC0098 /1245410
Marine HL-BJXM-A, Class B-15 Single-Leaf Lining Access Door (with Frame) ¹	1982211 HH	2019-06-09	0098	164.108/EC0098 /1982211
Marine HL-BJXM-A, Class B-15 Single-Leaf Lining Access Door (without Frame) ¹	1982411 HH	2019-06-09	0098	164.108/EC0098 /1982411
Marine HL-TJXM, Class B-15 Ceiling Access Hatch ¹	1981211 HH	2019-06-09	0098	164.110/EC0098 /1981211
Marine HL-TJXM-A, Class B-15 Ceiling Access Hatch ¹	1982611 HH	2019-06-09	0098	164.108/EC0098 /1982611
Marine HL-TJXM-B, Class B-0 Ceiling Access Door ¹	1245510 HH	2019-06-09	0098	164.110/EC0098 /1245510
Marine JCP-L7, Class B-0 Lining ¹	1245310 HH	2019-06-09	0098	164.108/EC0098 /1245310
JCP-C7, Class B-0 Ceiling ¹	2039311 HH	2019-05-25	0098	164.110/EC0098 /2039311
Marine JCP-A2, Class A-60 Light Structure Bulkhead ¹	1983011 HH	2019-05-25	0098	164.108/EC0098 /1983011
Marine JCP-C9, Class B-0 Ceiling and Class A Deck combination ¹	1983211 HH	2019-05-25	0098	164.110/EC0098 /1983211
JCP-C2, Class B-15 Ceiling ¹	6165914 HH	2019-01-06	0098	164.110/EC0098 /6165914
JCP-C4, Class B-15 Ceiling (Sound Absorbing) ¹	6057413 HH	2019-01-06	0098	164.110/EC0098 /6057413
JCP-C6A, Class B-0 Ceiling (Sound Absorbing) ¹	6056613 HH	2019-01-06	0098	164.110/EC0098 /6056613
JCP-C6B, Class B-15 Ceiling ¹	6052613 HH	2019-01-06	0098	164.110/EC0098 /6052613

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JCB-L3, Class B-15 Bulkhead ¹	6054513 HH	2019-01-05	0098	164.108/EC0098 /6054513
JCP-B1, Class B-15 Bulkhead ¹	6058613 HH	2019-01-05	0098	164.108/EC0098 /6058613
JCP-B3, Class B-15 Bulkhead ¹	6057613 HH	2019-01-05	0098	164.108/EC0098 /6057613
JCP-L1A, Class B-15 Bulkhead ¹	6058413 HH	2019-01-05	0098	164.108/EC0098 /6058413
JCP-L1B, Class B-0 Bulkhead ¹	6052413 HH	2019-01-05	0098	164.108/EC0098 /6052413
JCP-L2, Class B-0 Bulkhead ¹	6057813 HH	2019-01-05	0098	164.108/EC0098 /6057813
JCP-L4, Class B-15 Bulkhead ¹	6053713 HH	2019-01-05	0098	164.108/EC0098 /6053713

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Item no. MED/3.16 Fire Doors

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
MUG-CO-A0, Class A-0 Center-Opening Fire Door for Ship Elevator ¹	1447015 HH	2020-09-13	0098	164.136/EC0098/1447015
MUG-CO-A60, Class A-60 Center-Opening Fire Door for Ship Elevator ¹	1447215 HH	2020-09-13	0098	164.136/EC0098/1447215
MUGS-CO-A0, Class A-0 Center-Opening Fire Door for Ship Elevator ¹	1447315 HH	2020-09-13	0098	164.136/EC0098/1447315
MUGS-CO-A60, Class A-60 Center-Opening Fire Door for Ship Elevator ¹	1447115 HH	2020-09-13	0098	164.136/EC0098/1447115
CGFM-1D, Class A-60 Door ¹	1136814 HH	2019-11-19	0098	164.136/EC0098/1136814
CGFM-1E, Class A-60 Double Leaf Door ¹	1138614 HH	2019-11-19	0098	164.136/EC0098/1138614
CGFM-1T, Class B-15 Door ¹	1136614 HH	2019-11-19	0098	164.136/EC0098/1136614
JCP-SM, Class A-60 Door ¹	1136714 HH	2019-11-19	0098	164.136/EC0098/1136714
CGFM-1E, Class A-60 Double Leaf Door ¹	9531514 HH	2019-10-26	0098	164.136/EC0098/9531514
HLDJRT, Class B-15 Double Leaf Door ¹	1926711 HH	2019-06-09	0098	164.136/EC0098/1926711
HLJRT, Class B-15 Fire Door ¹	1926811 HH	2019-06-09	0098	164.136/EC0098/1926811
Marine CGFM-1H, Class A-60 Fire Door ¹	1179110 HH	2019-06-09	0098	164.136/EC0098/1179110
Marine CGFM-1X, Class A-60 Fire Door ¹	1178910 HH	2019-05-25	0098	164.136/EC0098/1178910
Marine CGFM-2X, Class A-0 Fire Door ¹	1179010 HH	2019-05-25	0098	164.136/EC0098/1179010
CGFM-1, Class A-60 Single-Leaf Fire Door ¹	6058013 HH	2019-01-26	0098	164.136/EC0098/6058013
CGFM-1F, Class A-60 Weathertight Gastight Single-Leaf Door ¹	6053913 HH	2019-01-26	0098	164.136/EC0098/6053913
CGFM-1G, Class A-60 Weathertight and Gastight Double-Leaf Door ¹	6054313 HH	2019-01-26	0098	164.136/EC0098/6054313
CGFM-2, Class A-15 Fire Door ¹	6058213 HH	2019-01-26	0098	164.136/EC0098/6058213
CGFM-3, Class B-15 Fire Door with components ¹	6056813 HH	2019-01-26	0098	164.136/EC0098/6056813
Marine CGFM-3X B-30, Class B-15 Fire Door (with escape & vent grid) ¹	6073613 HH	2018-11-13	0098	164.136/EC0098/6073613
Marine CGFM-3A, Class B-15 Double-Leaf Fire Door ¹	6100913 HH	2018-08-26	0098	164.136/EC0098/6100913

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Item no. MED/3.18a Surface materials and floor coverings with low flame-spread characteristics: decorative veneers

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
HL-3, accidented flower pattern colour plate ¹	6073813 HH	2018-08-26	0098	164.112/EC0098/6073813
HL-4 PET, compound plate ¹	6074413 HH	2018-08-26	0098	164.112/EC0098/6074413

Places of production

1.Jiangsu Hailu Technology Incorporated Corporation, No. 228, Railway Station West Rd, JIANGYIN, China