



# U. S. Department of Homeland Security

## United States Coast Guard

### Certificate of Approval

Coast Guard Approval Number: 163.003/4/1

Expires: 13 January 2026

PILOT LADDER

COAST MARINE & INDUSTRIAL SUPPLY  
1480 BANCROFT AVE.  
SAN FRANCISCO, CA 94124

COMAR/MARK/I Pilot Ladder, of all synthetic construction. Maximum ladder length 48.5 m (160 ft.), at 310 mm (12-1/4 in.) nominal step spacing.

Ladder features solid one-piece steps and spreaders of "RIM" injection molded polyurethane plastic with internal reinforcement, and 60 mm (2-1/4 in.) circumference polyester jacketed ultra-strong safety core rope consisting of 3/4" diameter blend of polyester and Olefin fibers with blue safety-core 3 strand rope. Steps and spreaders are attached to suspension members with "COMAR WEDGE" assemblies.

COMAR/MARK/I Pilot Ladder meets the requirements as set forth in:

IMO Resolution A.1045(27)  
IMO MSC.48(66) LSA Code  
46 CFR 163.003

Identifying Data: ABS PDA Certificate No. 19-HS1883828-PDA, and design documentation as referenced thereon.

Ladder assembled by Coast Marine & Industrial Supply, Inc., San Francisco, CA (COMAR SFC).

Production inspections and tests are supervised by American Bureau of Shipping (ABS); yearly report of inspections and tests in accordance with 46 CFR 159.007-11 due annually in February.

Supersedes certificate dated January 13, 2016 to update product description and identifying data.

\*\*\* End \*\*\*

THIS IS TO CERTIFY THAT the above named manufacturer has submitted to the undersigned satisfactory evidence that the item specified herein complies with the applicable laws and regulations as outlined on the reverse side of this Certificate, and approval is hereby given. This approval shall be in effect until the expiration date hereon unless sooner canceled or suspended by proper authority.



GIVEN UNDER MY HAND THIS 13<sup>th</sup> DAY OF  
JANUARY 2021, AT WASHINGTON D.C.

A. M. GAROFALO  
CHIEF, SYSTEMS ENGINEERING DIVISION  
BY DIRECTION OF THE COMMANDANT



# U. S. Department of Homeland Security

## United States Coast Guard

### Certificate of Approval

Coast Guard Approval Number: 160.117/1/0

Expires: 13 January 2026

EMBARKATION LADDER (SOLAS)

COAST MARINE & INDUSTRIAL SUPPLY  
1480 BANCROFT AVE.  
SAN FRANCISCO, CA 94124

COMAR/DEBARKATION Ladder, of all synthetic construction. Maximum ladder length is 97.5 m (320 ft.) at 380 mm (15 in.) nominal step spacing; or 76.2 m (250 ft.) at 310 mm (12-1/4 in.) step spacing.

Ladder features solid one-piece steps of "RIM" injection molded polyurethane plastic with internal reinforcement, and 60 mm (2-1/4 in.) circumference polyester jacketed ultra-strong safety core rope consisting of 3/4" diameter blend of polyester and Olefin fibers with blue safety-core 3 strand rope. Steps are attached to suspension members with "COMAR WEDGE" assemblies. Ladder may be produced with step spacing reduced to 310 mm (12-1/4 in.), and marketed as a "COMAR Workboat Ladder," provided weight of ladder does not exceed 470 kg (1034 lb.).

COMAR/DEBARKATION Ladder meets the requirements as set forth in:

IMO Resolutoin A.1045(27)  
IMO MSC.48(66) LSA Code  
46 CFR 160.117

Identifying Data: ABS PDA Certificate No. 19-HS1183828-PDA, and design documentation as referenced thereon.

Approval valid for ladders assembled by Coast Marine & Industrial Supply, Inc., San Francisco, CA (COMAR SFC).

Production inspections and tests are supervised by American Bureau of Shipping (ABS); yearly report of inspections and tests in accordance with 46 CFR 159.007-11 due annually in February.

Supersedes certificate dated January 13, 2016 to update product description and identifying data.

\*\*\* End \*\*\*

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