



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 ***

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 13th DAY OF
JANUARY 2021, AT WASHINGTON D.C.

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

TERMS: The approval of the item described on the face of the Certificate has been based upon the submittal of satisfactory evidence that the item complies with the applicable provisions of the navigation and shipping laws and the applicable regulations in Title 33 and/or Title 46 of the Code of Federal Regulations. The approval is subject to any conditions noted on this Certificate and in the applicable laws and regulations governing the use of the item on vessels subject to Coast Guard inspection or on other vessels and boats.

Consideration will be given to an extension of this approval provided application is made 3 months prior to the expiration date of this Certificate.

The approval holder is responsible for making sure that the required inspections or tests of materials or devices covered by this approval are carried out during production as prescribed in the applicable regulations.

The approval of the item covered by this certificate is valid only so long as the item is manufactured in conformance with the details of the approved drawings, specifications, or other data referred to. No modification in the approved design, construction, or materials is to be adopted until the modification has been presented for consideration by the Commandant and confirmation received that the proposed alteration is acceptable.

NOTICE: Where a manufacturer of safety-at-sea equipment is offering for sale to the maritime industry, directly or indirectly, equipment represented to be approved, which fails to conform with either the design details or material specifications, or both, as approved by the Coast Guard, immediate action may be taken to invoke the various penalties and sanctions provided by law including prosecution under 46 U.S.C. 3318, which provides:

"A person that knowingly manufactures, sells, offers for sale, or possesses with intent to sell, any equipment subject to this part (*Part B. of Subtitle II of Title 46 U.S.C.*) and the equipment is so defective as to be insufficient to accomplish the purpose for which it is intended, shall be fined not more than \$10,000, imprisoned for not more than 5 years or both."