This block to be completed by CG-ENG-4 staff,	manufacturer leave blank:
Corr track number:	
Model name:	
Type (rigid hull/inflatabale/rigid hull inflatab	le):
Fast rescue boat (Y/N):	
Length:	
0	
Occupancy:	*.4* 1 1 1
New or modified design: {if modified enter ex	asting approval number}
Name of Manufacturer:	
Location of Manufacture:	
Independent Lab:	
PREAPPROVAL	PLAN REVIEW
46 CFR 160.156-9(d) Plan quality. The plans and	
specifications submitted to the Commandant under this section	
must— (1) Be provided in English, including all notes, inscriptions,	
and designations for configuration control;	
(2) Address each of the applicable items in paragraph (b) of	
this section in sufficient detail to show that the lifeboat meets	
the construction requirements of this subpart;	
(3) Accurately depict the proposed lifeboat;(4) Be internally consistent;	
(4) Be internary consistent; (5) Be legible; and	
(6) If reviewed by an independent laboratory under paragraph	
(c) of this section, include the independent laboratory's	
attestation that the plans meet the quality requirements of this	
section.	
46CFR 160.156-9(b) (1) A list of drawings, specifications, manuals, and any other	
documentation submitted, with each document identified by	
number, title, revision issue, and date;	
(2) General arrangement and assembly drawings, including	
principal dimensions;	
(3) Seating arrangement plan, including a dimensioned seat	
form to scale; (4) A complete material list, with each material referenced to a	
U.S. national standard or, if a copy is provided in English, an	
equivalent international standard;	
(5) Plans for carriage and, in detail, stowage of equipment;	
(6) Hull, canopy, and critical parts lay-up schedule for a Fiber	
Reinforced Plastic (FRP) lifeboat;	
(7) Hull and canopy construction drawings, including	
particulars of joints, welds, seams, and other fabricating details;	
(8) Weights and thickness of each major FRP structural	
component, including the hull, canopy, and inner liners, before	
outfitting;	
(9) Specification and identification of materials such as steel,	
aluminum, resin, foam, fiberglass, cloth, and plastic used in the lifeboat's manufacture;	
(10) Fabrication details for each major structural component,	
including details of each welded joint;	
(11) Lines plans;	
(12) Propulsion system specifications and arrangement and	
installation drawings;	
(13) Steering system drawings and specifications;	

(14) Release mechanism installation drawings and the	
mechanism's Coast Guard approval number (when	
permanently installed with the rescue boat);	
(15) Plans for critical subassemblies;	
(16) Hydraulic systems drawings and specifications, if	
installed;	
(17) Electrical system schematics and specifications;	
(18) Stability data, including righting arm curves in the light	
and loaded condition for both intact and flooded stability;	
(19) Drawings of all signs and placards, showing actual	
inscription, format, color, size, and location on the rescue boat;	
(20) Complete data pertinent to the installation and use of the	
proposed rescue boat, including—	
(i) The light load (condition A) and full load (condition B)	
weights; and	
(ii) Complete details of the lifting arrangement to include	
enough detail for operators of the rescue boat to select a	
suitable release mechanism approved under subpart 160.133 or	
160.170 of this part;	
(21) An operation, maintenance, and training manual as	
described in §§ 160.156–19 and 160.156–21 of this subpart;	
(22) A description of the quality control procedures and record	
keeping that will apply to the production of the rescue boat,	
which must include but is not limited to—	
(i) The system for checking material certifications received	
from suppliers;	
(ii) The method for controlling the inventory of materials;	
(iii) The method for checking quality of fabrication, seams,	
and joints, including welding inspection procedures; and	
(iv) The inspection checklists used during various stages of	
fabrication to assure that the approved rescue boat	
complies with the approved plans and the requirements of this	
subpart;	
(23) Full details of any other unique capability;	
(24) Any other drawing(s) necessary to show that the rescue	
boat complies with the requirements of this subpart;	
(25) The location or address of all manufacturing sites,	
including the name and address of any subcontractors, where	
the rescue boat will be constructed;	
(26) The name of the independent laboratory that will perform	
the duties prescribed in §§ 160.156–11 and 160.156–15 of this	
subpart.	
At the request of the manufacturer and discretion of the	
Commandant, an independent laboratory may conduct	
preapproval review required by this section so long as the	
preapproval review is conducted in accordance with the	
procedures agreed upon between the independent laboratory	
and Commandant under 46 CFR part 159, subpart 159.010.	
	STRUCTION REQUIREMENTS
	STRUCTION REQUIREMENTS
Rescue boats may be either of rigid or inflated construction or	
a combination of both and shall:	
.1 be not less than 3.8 m and not more than 8.5 m in	
length; and	
.2 be capable of carrying at least five seated persons	
and a person lying on a stretcher.	
Fast rescue boats must have a hull length between 6 m and 8.5	
m	
Unless the rescue boat has adequate sheer, it shall be provided	
Chiess the rescue boat has adequate sheer, it shall be provided	
with a bow cover extending for not less than 15% of its length.	

Each rescue boat must be designed to be operable by persons	
wearing immersion suits.	
Arrangements for towing shall be permanently fitted in rescue	
boats and shall be sufficiently strong to marshal or tow liferafts	
carried on the ship when loaded with its full complement of	
persons and equipment or its equivalent at a speed of at least 2	
knots.	
Provided with effective means of bailing or be automatically	
self bailing.	
Fast rescue boats must be self-bailing or be capable of being	
rapidly cleared of water	
Fitted with weather tight stowage for small items of equipment	
Each rescue boat should be designed following standard	
human engineering practices described in ASTM F 1166.	
Design limits should be based on a range from the fifth	
percentile female to the 95th percentile male values for critical	
body dimensions and functional capabilities as described in	
ASTM F 1166. The dimensions for a person wearing an immersion suit correspond to the arctic clothed dimensions of	
ASTM F 1166.	
Visibility from operator's station.	
(i) The operator's station must be designed such that the	
operator, when seated at the control station, has visibility 360	
degrees around the rescue boat, with any areas obstructed by	
the rescue boat structure or its fittings visible by moving the	
operator's head and torso. (ii) The operator, while still being able to steer and control the	
speed of the rescue boat, must be able to see the water—	
(A) Over a 90 degree arc within 3 m (9 ft, 10 in) of each side	
of the lifeboat;	
(B) Over a 30 degree arc within 1 m (3 ft, 3 in) of each side of	
the lifeboat; and	
(C) Within 0.5 m (1 ft, 8 in) of the entrances designated for	
recovering persons from the water.	
(iii) In order to see a person in the water during recovery or	
docking operations, a hatch must be provided so that the	
operator can stand with his or her head outside the rescue boat	
for increased visibility, provided the operator can still steer and	
control the speed of the rescue boat.	
Construction. Each major rigid structural component of each	
rescue boat must be constructed of steel, aluminum, Fiber	
Reinforced Plastic (FRP), or materials accepted by the	
Commandant as equivalent or superior.	
	ON MATERIALS
Hulls and rigid covers shall be fire retardant or non-	
combustible.	
FIBER REINFO	RCED PLASTIC
Resin . Any resin used for the hull, canopy, hatches, rigid	
covers, and enclosures for the engine, transmission, and engine	
accessories, must be fire retardant and accepted by the	
Commandant in accordance with 46 CFR part 164, subpart	
164.120.	
Glass reinforcement. Any glass reinforcement used must have	
good laminated wet strength retention and must meet the	
appropriate specification in this paragraph. Glass cloth must be	
a finished fabric woven from "E" electrical glass fiber yarns	
meeting ASTM D 4029 commercial style designation 1564.	
Woven roving must conform to MIL–C–19663D. Other glass	
materials equivalent or superior in strength, design, wet out,	

and efficiency will be given consideration on specific request to the Commandant.	
Laminate. All exposed surfaces of any finished laminate must	
present a smooth finish, and there must be no protruding	
surface fibers, open voids, pits, cracks, bubbles, or blisters.	
The laminate must be essentially free from resin-starved or	
overimpregnated areas, and no foreign matter must remain in	
the finished laminate. The entire laminate must be fully cured	
and free of tackiness, and must show no tendency to	
delaminate, peel, or craze in any overlay. The laminate must	
not be released from the mold until a Barcol hardness reading	
of not less than 40–55 is obtained from at least 10 places on	
the non-gel coated surface, including all interior inner and	
outer hull surfaces and built-in lockers. The mechanical	
properties of the laminate must meet the requirements for a	
Grade 3 laminate in Table I of MIL–P–17549D(SH). Other	
grades will be given consideration on specific request to the	
Commandant.	
General. Metals in contact with each other must be either	
galvanically compatible or insulated with suitable non-porous	
materials. Provisions must also be made to prevent loosening	
or tightening resulting from differences of thermal expansion,	
freezing, buckling of parts, galvanic corrosion, or other	
incompatibilities.	
•	TALS
Steel. Sheet steel and plate must be low carbon, commercial	ALS
quality, either corrosion resistant or galvanized as per ASTM	
A 653, coating designation G90. Structural steel plates and	
shapes must be carbon steel as per ASTM A 36, or an	
equivalent or superior steel accepted by the Commandant. All	
steel products, except corrosion resistant steel, must be	
galvanized to provide high quality zinc coatings suitable for	
the intended service life in a marine environment. Corrosion	
resistant steel must be a type 302 stainless steel per ASTM A	
276, ASTM A 313 or ASTM A 314 or another corrosion	
resistant stainless steel of equal or superior corrosion resistant	
characteristics.	
Aluminum . Aluminum and aluminum alloys must conform to	
ASTM B 209 and be high purity for good marine corrosion	
resistance, free of iron, and containing not more than 0.6	
percent copper.	
Welding. Welding must be performed by welders certified by	
the Commandant, a classification society recognized by the	
Commandant in accordance with 46 CFR 8.220, the U.S.	
Navy, or the national body where the rescue boat is	
constructed or the national body's designated recognized	
organization. Only electrodes intended for use with the	
material being welded may be used. All welds must be	
checked using appropriate non-destructive tests.	
	FABRIC
Any coated fabric used in the construction of inflatable	
chambers on a rescue boat must be shown to have been	
subjected to the criteria listed in IMO MSC Circ. 980 for	
Inflation Chamber Characteristics Test by meeting the	
requirements of ISO 15372	
The color of the finished fabric must be vivid reddish orange	
color number 12197 of FED–STD–595C, or a durable	
fluorescent color of a similar hue.	
Each seam must be at least as strong as the weakest of the	
materials joined by the seam. Each seam must be covered with	
tape where necessary to prevent lifting of and damage to fabric	
edges	

ACCESS, SEATING, ACCOMMODATION AND INTERIOR LAYOUT Seating, shall be provided on the themsman, may be provided on the floor, provided that the 1.54 Code EV/4.4.2.3), but altered to an overall length of 1190 mm to provide for extended legs. Fachs waiting position need not be clearly indicated in the rescue boat No part of a scating-space shall be on the gunwale, transom, or on inflated buoyancy at the sides of the boat. The vertical distance between the floor surface and the interior of the enclosure or canopy over 50 % of the floor area shall be: 1		
Seating, except for the helmsman, may be provided on the floor, provided that the ISA Codes Evaling space analysis uses shapes similar to figure I (ISA Code IV/4.4.2.3), but altered to an overall length of 1190 mm to provide for extended legs. Each seating position need not be clearly indicated in the execute boat. No part of a seating space shall be on the gunwale, transoon, or on influted howavery at the sides of the boat. The vertical distance between the floor surface and the interior of the enclosure or canopy over 90 % of the floor area shall be: 1 not less than 1.3 m for a rescue boat permitted to accommodate nine persons or less; 2 not less than 1.5 m for a rescue boat permitted to accommodate Persons or more; and 3 not less than the distance as determined by linear interpolation between 1.3 m and 1.7 m for a rescue boat permitted to accommodate between nine and 24 persons. The number of persons which a rescue boat to be launched by falls shall be permitted to accommodate between nine and 24 persons. The number of persons which a rescue boat to be launched by falls shall be permitted to accommodate shall be equal to the lesser of: 1 the number of persons having an average mass of 82.5 kg, all wearing lifejackets, that can be seated in a normal position without interfering with the means of propulsion or the operation of any of the rescue boat's equipment: or 2 the number of spaces that can be provided on the seating arrangements in accordance with the seating dimension of figure 1 of MacC44660. The shapes may be overlapped as shown, provided footrests are fitted and there is sufficient room for legs and the vertical separation between the upper and lower seat is not less than 350 mm. BIOVANCY AND STABILITY All rescue boats shall have inherent buoyancy or shall be fitted with inherently buoyant material, equal to the leader shall be not less than 0.4 m below the rescue boat on enable persons in the water to board the lifeboat. The lowest step of the ladder shall be not less than 0.4 m below the		ATION AND INTERIOR LAYOUT
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	All rescue boats shall be stable and have a positive GM value	

when loaded with 50 % of the number of persons the rescue	
boat is permitted to accommodate in their normal positions to	
one side of the centerline.	
The buoyancy material must be accepted by the Commandant	
as meeting the performance requirements of the IMO Revised	
recommendation on testing, part 1, 6.2.2 to 6.2.7, with a	
density of 32 ± 8 kg/m ³ (2 ± 0.5 lb/ft ³). The buoyancy foam or	
rescue boat manufacturer must certify the results of the testing	
to IMO Revised recommendation on testing, part 1, 6.2.2 to	
6.2.7 and submit those results to the Commandant. A list of	
accepted buoyancy foams may be obtained from the	
Commandant upon request and online at http://cgmix.uscg.mil .	
All voids in the hull and canopy required to provide buoyancy	
for positive stability and self righting must be completely filled	
with Coast Guard accepted buoyancy material.	
The buoyancy of an inflated rescue boat shall be provided by	
either a single tube subdivided into at least five separate	
compartments of approximately equal volume or two separate	
tubes neither exceeding 60% of the total volume. The	
buoyancy tubes shall be so arranged that the intact	
compartments shall be able to support the number of persons	
which the rescue boat is permitted to accommodate, each	
having a mass of 75 kg, when seated in their normal positions	
with positive freeboard over the rescue boat's entire periphery	
under the following conditions:	
.1 with the forward buoyancy compartment deflated;	
.2 with the entire buoyancy on one side of the rescue	
boat deflated; and	
.3 with the entire buoyancy on one side and the bow	
compartment deflated.	
The buoyancy tubes forming the boundary of the inflated	
rescue boat shall on inflation provide a volume of not less than	
0.17 m3 for each person the rescue boat is permitted to	
accommodate.	
Each buoyancy compartment shall be fitted with a nonreturn	
valve for manual inflation and means for deflation. A safety	
relief valve shall also be fitted unless the Administration is	
satisfied that such an appliance is unnecessary.	
Underneath the bottom and on vulnerable places on the outside	
of the inflated rescue boat, rubbing strips shall be provided to	
the satisfaction of the Administration.	
Where a transom is fitted it shall not be inset by more than	
20% of the overall length of the rescue boat.	
Suitable patches shall be provided for securing the painters	
fore and aft and the becketed lifelines inside and outside the	
boat.	
Fast rescue boats must be self-righting or capable of being	
readily righted by not more than two of the boat's crew.	
PROPULSION AN	D FUEL SYSTEMS
Engines	
Rescue boats must be powered by a spark or compression	
ignition inboard engine or outboard motor. If it is fitted with	
an outboard motor, the rudder and tiller may form part of the	
engine. No engine shall be used for any lifeboat if its fuel has	
a flashpoint of 43°C or less (closed cup test)	
In order to be accepted by the Commandant, any spark ignition	
1 In order to be accepted by the Communicant, any spark ignition	
engine fitted to an approved rescue boat must meet the U.S.	

ignition engine the requirements in 40 CFR part 89, part 94, or part 1042, as applicable, and have reports containing the same information as recommended by MSC Circ. 980 certified and witnessed by a U.S. Coast Gama impector or an independent laboratory. Air cooled engines fitted in fully enclosed rescue boats must have a duct system to take in cooling air from, and exhaust it to, the outside of the rescue boat. Manually operated dampers shall be provided to enable cooling air to be taken in from, and exhaust it to, the outside of the interior of the rescue boat. Starting System. The engine shall be provided with either a manual starting system, and provided with either a manual starting system, and the system of the system with two independent rechargeable energy sources. Any necessary starting asids shall also be provided. The starting systems shall not be impeded by the engine casing, seating or other obstructions. Past rescue boat engines must stop automatically or be supped by the behansman's emergency release switch, in the event the boat capixes. Once righted, the enginemotor must be capable of resturting once the emergency release switch, has been propeller to the propeller shafting shall be so arranged that the propeller. The propeller shafting shall be so arranged that the propeller can be disengaged from the engine. Provision shall be made for ahead and astern propulsion of the resure boat. Propeller guard with a maximum opening of 76 mm (3 in) or all slides or must be fitted with a propeller guard with a maximum opening of 76 mm (3 in) or all slides or make the fitted with a propeller guard with a maximum opening of 76 mm (3 in) or all slides or make the propeller on the water and to the possibility of damage to the propeller on the water and to the possibility of damage to the propeller on the water and to the possibility of damage to the propeller on the water and to the possibility of damage to the propeller on the source of the propeller on the source of the propeller on the starter is shal		
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near the engine starting controls.	
A hydraulic starting system, if installed, must be in accordance with 46 CFR part 58, subpart 58.30, with hose and fittings in accordance with 46 CFR part 56, subpart 56.60, except that— (A) Push-on type fittings such as Aeroquip 1525–X, 25156–X, and FC332–X are not permitted; and (B) The length of nonmetallic flexible hose is limited to 760 mm (30 in). Longer, nonmetallic flexible hoses may be allowed in emergency steering systems at the discretion of the Commandant. (iii) If a hand pump is provided, or if the engine has a manual starting system, adequate space must be provided for the hand pump or hand start operation. The length of nonmetallic flexible hose is limited to 760 mm	
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Fuel system . (i) The fuel system must meet 46 CFR 56.50–75(b) and, except as specified in this paragraph, the fuel tank must meet 46 CFR 58.50–10.	
Fuel Tanks constructed with— (A) Aluminum must be at least 5 mm (0.20 in) thick of ASTM B 209 or 5086 alloy; (B) Nickel-copper must be at least 0.9 mm (0.0375 in) thick of ASTM B 127 hot-rolled sheet or plate; (C) Steel or iron must be at least 1.9 mm (0.0747 in) thick. Diesel tanks of steel or iron must not have interior galvanizing; (D) Fiberglass reinforced plastic must be at least 5 mm (0.187 in) thick; be sealed against porosity by at least one ply of chopped strand mat; be reinforced in the way of tank openings; be fitted with corrosion-resistant fittings; have each joint at the top of the tank; and have each joint bonded and through-bolted; or (E) Roto-molded plastic must be at least 5 mm thick; must meet the requirements of 33 CFR 183.510 (a), (b), and (e) regardless of tank capacity; must be able to pass all static pressure tests as required in 33 CFR 183.510 at a minimum pressure of 5 psi; and be fitted with corrosion-resistant fittings. (iii) Each fuel tank over 0.75 m (30 in) long must be baffled at intervals not exceeding 0.45 m (18 in). (iv) A fuel level indicator must be provided for each fuel tank. (v) Any fuel tank vent piping must be at least 6 mm (0.25 in) outside diameter tubing.	
A shut-off valve must be provided at the fuel tank and must not be provided at the fuel pump. The valve must be clearly labeled. The position of the valve must be clearly indicated by a permanent marking inside the lifeboat. The marking must be an arrow pointing in the direction of the valve, and the words "Fuel Shut-Off Valve" must be in a color that contrasts with their background. The marking must be legible to a person within the vicinity of the engine.	
Starting system batteries. Any battery fitted in a totally enclosed lifeboat must be stored in a sealed compartment with exterior venting. If the lifeboat has more than one engine, then only one starting battery is required per engine. Exhaust. Engine exhaust must be routed away from bilge and potential oil drips. Any paint used on engines, manifolds, or exhaust must not give off fumes when heated. All exhaust lagging must be non-absorbent.	

CONTROL AN	 ND STEERING
General. Rescue boat starting, maneuvering, and steering	AD STEERING
controls must be provided at the control and steering station. (i) The throttle must be a continuous manual control and must be able to be set and locked at any position. (ii) The control and steering station must be designed and laid out in accordance with ASTM F 1166 sections 9 and 10, so that controls and displays are unambiguous, accessible, and easy to reach and use from the operator's normal seated position, while wearing an immersion suit or a lifejacket. Each control, gauge, or display must be identified by a marking posted on, above, or adjacent to the respective item. Each control must operate in a logical manner and be marked with an arrow to show direction of movement of control which will cause an increased response. Each gauge must be marked with the normal operating range and indicate danger or abnormal conditions. Each marking must be permanent and weatherproof. (iv) Gauges, and audio and visual alarms must be provided to monitor at least the following parameters <i>on inboard engines only</i> —	
(A) Coolant temperature, for a liquid cooled engine;	
(B) Oil pressure, for an engine with an oil pump; (C) Tachometer, for an engine not provided with over-speed	
protection;	
and	
(D) State of charge, or rate of charge, for each rechargeable	
engine starting power source Remote steering (when installed). The procedure to change	
over from remote to local steering must be simple, not require the use of tools, and be clearly posted. There must be sufficient clear space to install, operate, remove, and stow the removable tiller arm. The tiller arm and its connection to the rudder stock must be of sufficient strength so that there is no slippage or bending of the tiller arm. Rudder stops or other means must be provided to prevent the rudder from turning too far on either side.	
Fast rescue boats must be steered by a wheel at the	
helmsman's position remote from the tiller. An emergency steering system providing direct control of the rudder, water jet, or outboard motor must also be provided.	
	ENTLY INSTALLED EQUIPMENT
Hull drain plug. Rescue boats must be provided with at least one drain valve fitted near the lowest point in the hull, which shall automatically open to drain water from the hull when the rescue boat is not waterborne and must automatically close to prevent entry of water when the rescue boat is waterborne. Each drain valve shall be provided with a cap or plug to close the valve, which shall be attached to the lifeboat by a lanyard, a chain, or other suitable means. Drain valves shall be readily accessible from inside the rescue boat and their position shall be clearly indicated.	
The position of each drain plug must be clearly indicated by a permanent marking inside the rescue boat. The marking must be an arrow pointing in the direction of the plug, and the words "Drain Plug" must be 76 mm (3 in) high and have letters of a color that contrast with their background. The marking must be clearly visible to a person within the vicinity of the drain plug.	

Handholds . Except in the vicinity of the rudder and propeller,	
suitable handholds shall be provided or a buoyant lifeline shall	
be becketed around the outside of the rescue boat above the	
waterline and within reach of a person in the water.	
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D 4363	
Buoyant lifelines must be of ultraviolet resistant material.	
Rails provided as handholds on rigid and rigid-inflated rescue	
boats must extend for half the length of the rescue boat on both	
sides of the hull, and the clearance between the rail and hull	
must be at least 38 mm (1.5 in). The rails must be attached to	
the hull below the chine or turn of the bilge, must be faired to	
prevent any fouling, and not project beyond the widest part of	
the rescue boat.	
Storage compartments	
All rescue boats shall be fitted with sufficient watertight	
lockers or compartments to provide for the storage of the	
equipment required by 46 CFR 199.175.	
Each storage compartment must be supported and secured	
against movement. It must have adequate hand access for	
removing and storing the required equipment, provisions, or	
water, and for cleaning the inside of the compartment.	
Release mechanism. Each release mechanism fitted to any	
rescue boat must be identified at the application for approval of	
the prototype rescue boat and must be approved under subparts	
160.133 or 160.170 of this part.	
Fast rescue boats must, if possible, be equipped with a single-	
point suspension arrangement or equivalent.	
The release lever or control in the rescue boat must be red in	
color, and the area immediately surrounding the control must	
be a sharply contrasting light color. An illustrated operating	
instruction plate or placard showing the correct off-load and	
emergency on-load release procedure and recovery procedure	
must be posted so that it is visible and legible from the	
helmsman's normal operating position. The plate or placard	
must be corrosion resistant and weatherproof and must be	
marked with the word "Danger".	
Painter release. Each rescue boat must be fitted with a device	
to secure the painter near the bow of the rescue boat. The	
device must be arranged such that the rescue boat does not	
exhibit unsafe or unstable characteristics when being towed by	
the ship with the ship underway at 5 knots. A quick-release	
device must be provided, which allows the painter to be	
released from inside the rescue boat while under tension. The	
quick-release handle must be clearly identified by a label.	
Canopy lamp. Any exterior rescue boat position-indicating	
light must be approved by the Commandant under approval	
series 161.101.	
Navigating lights. Each rescue boat must have navigation	
lights that are in compliance with the applicable sections of the	
International and Inland Navigation Rules and meet 46	
CFR111.75–17.	
Manually controlled interior light (for fully enclosed rescue	
boats). Any interior light must be approved by the	
Commandant under approval series 161.101.	
Bilge pump. Each rescue boat that is not automatically self-	
bailing, must be fitted with a manual bilge pump approved	
under 46 CFR part 160, subpart 160.044, or an engine powered	

bilge pump.	
Exterior color . The primary color of the exterior of the hull,	
exterior of any canopy or bow cover, and the interior of a	
rescue boat not covered by a canopy or bow cover must be a	
highly visible color equivalent to vivid reddish orange color	
number 12197 of FED–STD–595C, or a durable fluorescent	
color of a similar hue.	
Retroreflective material. The exterior of each rescue boat and	
its canopy, where installed, must be marked with Type II	
retroreflective material approved under 46 CFR part 164,	
subpart 164.018. The arrangement of the retroreflective	
material must comply with IMO Res. A.658(16)	
Labels and notices. Any labels, caution and danger notices,	
and operating, maintenance, or general instructions, must be in	
accordance with ASTM F 1166, Section 15, in terms of format,	
content, lettering size and spacing, color, and posted location.	
They must be illustrated with symbols in accordance with IMO	
Res. A.760(18), as applicable. Information and instruction	
plates, not specifically mentioned in this section, must not be	
posted in the vicinity of the control and steering station without	
prior approval from the Commandant. Identification label	
plates, if required, must be posted on or above the component	
or equipment to be identified.	
Fast rescue boats must have a hands-free, watertight VHF	
radio set .	
Air b	ottles
Air bottles. Each compressed gas air cylinder must meet the	
requirements in 46 CFR 147.60. The cylinders must be	
accessible for removal and charging in place.	
8 160.156–15 Production inspections, tests, qui	ality control, and conformance of rescue boats.
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