



**VIKING
NORSAFE**
Boats and davits

Enterprise No.: NO940411696
www.VIKING-life.com

Minima-88 PELB



TECHNICAL SPECIFICATION

VIKING Norsafe Life-Saving Equipment Norway AS
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VIKING Project No.: TBA
Rev. Date: 15.08.2019

VIKING Doc. No.: TSB-0229
Rev. No: 1

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1. REGULATION AND CERTIFICATION

Applicable rules and regulations In accordance with IMO/ SOLAS requirements, LSA Code and European Council Directive 2014/90/EU on Marine Equipment (MED)

Certificate	MED
Other certificate	Class certificate or flag acceptance on request

2. BOAT SPECIFICATION

2.1. GENERAL BOAT

Type	Partially enclosed Life Boat (PELB)
Model	Minima-88 PELB
Length overall (on fender)	8,87 m
Length of hull	8,80 m
Beam	4,25 m
Height	3,70 m
Hook distance	8,18 m
Hook height aft & forward	2,40 m
Capacity, SOLAS maximum	150 persons
Weight, fully equipped	6,500 kg
Davit load, with 150 pers@75 kg	17,750 kg
External Color	Red Canopy, White Hull
Internal Color	Light Gray (RAL 7032)
Operation temperature:	-15°C till +40°C (other range on request)
Hull/deck material	Fire retardant glass reinforced polyester (GRP)
Buoyancy material	Polyurethane foam
Windows	PU or Toughened glass
Bollards/towing	Aft bollard, painter hook in bow
Steering	Hydraulic
Fender	PVC-fender
Skates / bobbins	If lifeboat is to be installed on a vessel
Hatches	2 aft hatches / 2 side embarkation area/ 1 top hatch / 1 front hatch
Loose equipment	According to SOLAS

Partially Enclosed Lifeboat (PELB) designed and manufactured according to latest SOLAS requirements.

The lifeboat provides a secure and protected means of escape for person onboard passenger vessels. The lifeboat is for launch and retrieval by a suitable davit. Design and construction fulfill the need for reliable, low maintenance standby and operation.



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The space between hull and hull liner, is filled with polyurethane buoyancy foam. If damaged below the waterline, buoyancy is sufficient to float the boat at safe level.

When installed on ship's side, the boat is fitted with a shock absorbing fender and skates.

The lifeboat is fitted with approved On Load Release Hooks with a hydrostatic Interlock. The hook release is operated by a handle mounted at the steering position. The mechanism provides simultaneous release of the two hooks when the lifeboat is fully water-borne. The hooks are protected from accidental release by the hydrostatic interlock. On-load release of the hooks are possible by manual override, but the system is secured against accidental release.

Prime embarkation to the lifeboat is through the side entrance areas. The spacious cockpit in the middle of the boat provides excellent overview during embarkation as well as a 360 degree view for the helmsman and also good visibility upwards towards the davits during launching/retrieval as well as forward during normal sailing.

The lifeboat is equipped with hydraulic steering. A steering nozzle gives optimum maneuverability and increased bollard pull. The steering position is in the middle of the boat.

2.2 PROPULSION AND PERFORMANCE

Propulsion	Diesel engine with gearbox, shaft, propeller and propeller nozzle
Engine	NLDE-4, 30 kW
Gearbox	ZF25M
Propeller	Brass, 18 inch.
Propeller nozzle	GRP
Speed	Minimum 6 knots in calm water
Bollard pull, approx.	4700 N
Instrument gauges:	Tachometer (subject to standard engine type), audible alarm for temperature and oil pressure
Cooling system	Fresh water cooling with header tank and external cooling loop
Exhaust system	Dry exhaust with water lock to prevent water ingress
Fuel tank	200 L, Seawater resistant aluminum
Fuel valves	Shut off on top of fuel tank & tank drain

Typical data – subject to variation in engine installation and specified equipment. Engines of at least 36 HP and up to 94HP can be installed. Please note that boat weight and bollard pull are only for reference and may vary with several factors.

2.3. LIFTING/RELEASE SYSTEM

Release system	Release hooks, release handle unit, hydrostat and cables
Release hooks	Tor Mk2-S



4. OPTIONS

Note: Some options influence weight and performance, some option combinations may be incompatible. Maximum certified weight must not be exceeded.

marking means to be supplied by maker, marking means not supplied by maker.

GENERAL BOAT	
Spare parts for 2 years, 5 years or 10 years	<input type="checkbox"/>
Alternative color, with hull and canopy in different color schemes (White, Red, Yellow, Orange), Specify color (RAL code); - Hull: White - Canopy: Red	<input checked="" type="checkbox"/>
Seat padding	<input type="checkbox"/>
De-humidifier	<input type="checkbox"/>
HVAC connection	<input type="checkbox"/>
Labelling in dual language	<input type="checkbox"/>
Plastic shrink wrap	<input type="checkbox"/>
Handrails in stainless steel	<input type="checkbox"/>
Side hatches, additional/larger side hatches available, side or top hinged	<input type="checkbox"/>
Side windows in canopy for improved passenger comfort	<input type="checkbox"/>
Skylight windows in canopy for improved passenger comfort	<input type="checkbox"/>
Winterization package / cold climate heating / defroster	<input type="checkbox"/>
Altered seating space or weight of people	<input type="checkbox"/>
Other options on request	<input type="checkbox"/>

PROPULSION AND PERFORMANCE	
Fuel level instruments	<input type="checkbox"/>
Oil pressure instruments	<input type="checkbox"/>
Water temp. instruments	<input type="checkbox"/>
Rudder pos. instruments	<input type="checkbox"/>
Spring starter	<input type="checkbox"/>
Dual filters	<input type="checkbox"/>
Stainless steel fuel tank	<input type="checkbox"/>
Alternative engine with equal or higher power	<input type="checkbox"/>
Bow thruster for improved maneuverability	<input type="checkbox"/>

ELECTRIC SYSTEM AND NAVIGATION	
AIS system	<input type="checkbox"/>
12V outlet in console	<input type="checkbox"/>
Ex plug for ext. power supply	<input type="checkbox"/>
Ex cover over marking light	<input type="checkbox"/>
Ex battery box	<input type="checkbox"/>
Bilge water detector in engine room	<input type="checkbox"/>



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Crew finder	<input type="checkbox"/>
Echo sounder	<input type="checkbox"/>
Cabin heater	<input type="checkbox"/>
Engine heater	<input type="checkbox"/>
EPIRB	<input type="checkbox"/>
Fire detector in engine room	<input type="checkbox"/>
GPS equipment	<input type="checkbox"/>
HID or LED searchlights	<input type="checkbox"/>
LED illumination in engine room, inst. panel or cabin	<input type="checkbox"/>
Loose el. cable for ext. power supply	<input type="checkbox"/>
Electrical system according to NMD requirements	<input type="checkbox"/>
SART	<input type="checkbox"/>
VHF equipment	<input type="checkbox"/>
DOCUMENTATION	
Factory acceptance test procedure	<input type="checkbox"/>
Factory acceptance test report	<input type="checkbox"/>
Inspection and test plan	<input type="checkbox"/>
Shipping, handling and lifting procedure	<input type="checkbox"/>
Packing & unpacking procedure	<input type="checkbox"/>
Commissioning procedure	<input type="checkbox"/>
TAG list	<input type="checkbox"/>
Fuel system drawing	<input type="checkbox"/>
Steering system drawing	<input type="checkbox"/>
Engine, propulsion, exhaust and cooling system drawing	<input type="checkbox"/>
Bilge system drawing	<input type="checkbox"/>
Release system drawing	<input type="checkbox"/>
Noise test report	<input type="checkbox"/>
Weight and COG datasheet	<input type="checkbox"/>
Weighing report/certificate	<input type="checkbox"/>
Other drawings/documentation/procedures	<input type="checkbox"/>

5. POSSIBLE DAVIT SOLUTIONS

The VIKING Norsafe Mnima-88 PELB fits below davit models and variants.

LHD-200	LH-200
Others on request	



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6. YARD SUPPLY / RESPONSIBILITY

Transport	Depending on contract
Fuel	Marine diesel oil according to engine manual specification
Installation of 42VAC Supply cable	From starter cabinet to lifeboat supply plug
Testing according to regulation after installation onboard	
Preservation and maintenance after boat arrived yard and installed	