

16	<p>All vessels require the following distress frequencies: 4125, 6215, 8291 kHz, (it is recommended that 2182 kHz be retained). All vessels must also fit at least ONE of the following weather warning frequencies appropriate to the area of operation:- 2056, 4149, 6230, 8113, 12362, 16528 kHz, as well as the navigation warning frequency of 8176 kHz. VHF frequencies vary – see the Bureau of Meteorology (<a href="http://www.bom.gov.au/marine">www.bom.gov.au/marine</a>).</p> <p>Vessels fitted with VHF Radio are limited to operate within 20NM radius of Fremantle, or an approved 24-hour manned coastal radio station.</p> <p>A call sign and tuning card for these frequencies shall be displayed next to the radio. The radio station licence and operator's certificate are to be produced at the time of survey. A test call will be made.</p> <p>An approved EPIRB for waters class D and above (121.5/243 or 406 MHz) shall be carried, mounted in the wheelhouse or liferaft.</p> <p>The Fire pump(s) will be tested with the fire hose and nozzle fitted. (Deck hoses are only acceptable if nozzle is readily attachable in an emergency.)</p> <p>Fixed fire fighting installation is to be serviced annually and a copy of the service document provided.</p> <p>Fixed fire fighting systems are to have an alarm fitted that is audible from the helm whilst underway. Detectors that are fitted in lieu of structural fire protection in accommodation, control and high risk spaces are to meet the same requirements as, and can be incorporated in, the detection system fitted for the propulsion machinery space.</p> <p>CO<sub>2</sub> systems to be fitted with an isolation valve (AS 4214).</p> <p>Minimum size of foam fire extinguisher is 9 litre,  Minimum size of dry powder extinguisher is 4.5kg,  Minimum size of CO<sub>2</sub> extinguisher is 3kg.</p> <p>One of these torches may be the vessel's signalling light (<b>see note 8</b>).</p> <p>Starting batteries on new or modified vessels shall be fitted as high as practicable, above the deepest loaded waterline.</p>
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19	<p><b>All portable extinguishers must be serviced annually.</b></p>
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<p><b>AT EACH PERIODICAL SURVEY OF THE VESSEL, THE SURVEYOR MAY ALSO INSPECT THE FOLLOWING:  (MANY SMALL VESSELS WILL NOT HAVE ALL OF THE FOLLOWING ITEMS).</b></p>	
21	Main and auxiliary machinery, controls and instruments: engines will be tested whenever practical.
22	Cooling system, exhaust system and fuel system, (exhausts shall be lagged).
23	Steering systems, emergency steering, (recommended but not mandatory on twin-screw vessels).
24	LPG installation, (LPG audible alarm and solenoid cut-off to be functional). Pressure vessels. Electrical installation, (Note: Residual Current Device's (RCD's) required on systems exceeding 32 volts)
25	Pipe work, (sea water rubber hoses must be double-clipped each end). Approved rubber hose to be used eg "Dunlop Diamond 404".
26	Machinery guards on all rotating machinery.
27	Cargo/fishing gear, including winches, cranes, deck machinery etc.
28	Alarm systems. ( <b>All vessels</b> require a machinery space bilge alarm, <b>audible at helm</b> ).
29	A bilge alarm is required in all compartments where sea water pumping systems are fitted.
30	<b>The bilge alarm must not operate off the same float switch that operates the electric bilge pump.</b>
31	Bilge system. Pumps will be tested whenever practical.
32	Emergency shut-offs on fuel valves, engine room fans etc, vent closures. Watertight integrity - doors, hatches, closing devices, windows, ventilators, etc. Guardrails, freeing ports, emergency escapes.

**EQUIPMENT LIST &  
SURVEY REQUIREMENTS FOR  
CLASS 1C VESSELS**

**Less than 25 Metres in Length  
and under 500 tons GRT**

**DATE OF ISSUE: DEC 2004**

**IMPORTANT**

This leaflet has been designed to assist a vessel owner in preparing a vessel for periodical survey in accordance with the Western Australian Marine Act.

This leaflet is not intended to cover every aspect of survey, and compliance with this leaflet does not necessarily constitute compliance with all relevant statutes.

For further information, please contact the **COMMERCIAL VESSEL SAFETY BRANCH** at:.

1 ESSEX ST, FREMANTLE.  
P.O. BOX 402, FREMANTLE, W.A. 6959  
TELEPHONE: (08) 9216 8237  
FAX: (08) 9216 8978

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PO BOX 68, GERALDTON, W.A. 6530  
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**CLASS 1C EQUIPMENT CHECK LIST: (To be read with corresponding note numbers below).**

NOTE	SURVEY ITEM	VESSEL LENGTH	REQUIREMENTS
1	LIFERAFT	LESS THAN 25m	Coastal liferaft/lifeboat for 100% complement, <b>REFER NOTE 1</b>
2	LIFEBUOYS	10m TO 25m LESS THAN 10m	2 Lifebuoys, one with self-igniting light, one with buoyant line, 1 Lifebuoy, with self-igniting light.
3	LIFEJACKETS	ALL LENGTHS	An approved Coastal Lifejacket with whistle for each adult and child aboard the vessel, (each crew lifejacket shall be fitted with a light and a whistle).
4	PYROTECHNICS	ALL LENGTHS	3 Parachute Rockets, 2 Red hand flares and 1 Orange smoke signal.
5	SOUND SIGNAL	ALL LENGTHS	Horn or portable air/gas horn.
6	MISCELLANEOUS EQUIPMENT	ALL LENGTHS	Clock, Barometer, Depth Sounding Device (Echo Sounder) or a Hand Lead Line, Signalling light, Flags N & C of International Code of Signals, Charts and Nautical publications suitable for the vessel's area of operation, Gangway or a safe means of access approved by the Department, Anchors, anchor chain (or rope), anchor winch, Ropes and Lines of sufficient number, length and strength for the size and service of the vessel, First aid kit to Scale F (Unberthed passengers), Scale E (Berthed passengers), Vessel Record Book, (Log Book), Navigation lights and shapes appropriate to vessel's operation, Compass, Gas detector for LPG installations, Approved radio installation.
17	FIRE PUMP	15m TO 25m	1 Fire pump, with hydrants and hoses with nozzles to suit for every hydrant fitted.
	EMERGENCY FIRE PUMP	OVER 15 m	1 manually operated fire pump in a position outside compartment containing propelling machinery. (Required if Main Fire Pump is not situated outside compartment containing propelling machinery).
18	FIXED FIRE SYSTEM	12.5m AND OVER	Fitted in propulsion machinery space.
19	FIRE EXTINGUISHERS	ALL LENGTHS 20m TO 25m 15m TO 20m LESS THAN 15m	1 for each passenger space and crew space on each deck and one in each galley, 3 suitable for extinguishing oil fires, for use in each propelling machinery spaces, 2 suitable for extinguishing oil fires, for use in each propelling machinery spaces, 1 suitable for extinguishing oil fires, for use in each propelling machinery spaces. <b>REFER NOTE 19</b>
	FIRE BUCKETS	LESS THAN 15m	2 with lanyard.
20	EMERGENCY ELECTRICAL EQUIPMENT	ALL LENGTHS	2 Waterproof Torches. An emergency power source capable of operating the navigation lights, fire detection system, signalling lamps (where operated from main power source) and radio for at least 3 hours. Normal engine starting batteries may be acceptable provided they are suitably positioned.
	<b>21 to 32</b> VARIOUS	ALL LENGTHS	ITEMS CHECKED AT PERIODIC SURVEY - <b>REFER NOTES 21 to 32 BELOW</b>

**NOTES**

**THESE NOTES REFER TO CORRESPONDING EQUIPMENT NOTE NUMBERS ABOVE**

- Inflatable Liferaft's shall be serviced annually.** Inflatable Liferaft's shall be identified with vessel's name, fitted with reflective tape 300mm long, 50mm wide and spaced at 500mm centres. Liferaft's are to be fitted with hydrostatic release and weak link, or be float free with a weak link, or be fitted to approved launching device.  
Vessels of less than 15 metres fitted with approved internal buoyancy in lieu of single compartment subdivision are required to carry the prescribed Liferaft(s) for 100% complement.
- Lifebuoys shall be identified with vessel's name and four bands of reflective tape at 90° to each other. The self-igniting light is to be attached to one lifebuoy and a minimum of 27m of buoyant line attached to the other. Lifebuoys must be readily accessible at all times.
- Lifejackets shall be identified with vessel's name, fitted with reflective tape and whistle (crew jackets to be fitted with SOLAS approved self igniting lights). It is recommended that all life jackets be fitted with Solas Approved Lifejacket lights. Jackets are to be stowed in an easily accessible place for emergency use.  
**"COASTAL" jackets are minimum requirement for Class C vessels. "SOLAS" jackets may be used.**
- Pyrotechnics shall be renewed by the manufacturer's expiry date marked on each one.
- Horn must give a minimum of 110 dB.
- Clock shall be positioned so to be in view of radio installation.
- Hand Lead Line if used is to consist of at least a 3kg lead and line of at least 46m, correctly marked.
- Signalling light requires a facility for flashing, not just on/off switch. This torch may be one of the 2 torches required for the emergency electrical installation requirements.
- The minimum size of the flags is 600mm x 400mm.
- Anchors up to 25kg may be fitted with rope in lieu of chain; but at least 3m of chain must be shackled between rope and anchor,  
Anchors 25kg to 49kg may be fitted with rope, providing 6m of chain is shackled between rope and anchor,  
Anchors 50kg to 100kg:- one anchor to have a chain shackled to it, the other anchor may be fitted with rope with 6m of chain shackled to it.  
Anchors over 100kg:- both anchors require chain to be shackled to them.  
**A manual anchor winch is required for anchors over 30kg, with a powered anchor winch for anchors over 50kg.**
- For a complete First Aid equipment list, contact the Department, (contact numbers can be found on the front of this Pamphlet).
- A book designated as the log book is required to be kept on board at all times and made available to the surveyor on completion of the survey
- Navigation lights will be tested at survey. Anchor and Masthead lights are to be individually switched.
- The compass is to be adjusted every 3 years and the deviation card displayed adjacent to the steering position.
- If LPG is fitted a gas detector is required if it is possible for the gas to leak below deck or accumulate in the vessel.

**CONTINUED OVERLEAF**

Refer to corresponding notes