



EQUIPMENT LIST & SURVEY REQUIREMENTS FOR **CLASS 2B/2C VESSELS**

**OVER 25 Metres in Length
& over 400 ton but under 1000 ton GRT**

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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
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AT EACH PERIODICAL SURVEY OF THE VESSEL, THE SURVEYOR MAY ALSO INSPECT THE FOLLOWING:

- 39 Load Line survey requirements for vessels with load lines issued by the Government of Western Australia.
40 IOPP (International Oil Pollution Prevention) Certificate requirements.
41 Main and auxiliary machinery, controls and instruments: engines will be run whenever practical.
42 Cooling system, exhaust system and fuel system, (exhausts must be lagged).
43 Steering systems, emergency steering, (recommended but not mandatory on twin-screw vessels).
44 LPG installation, (LPG audible alarm and solenoid cut-off to be functional). Pressure vessels. Electrical installation, (Note: RCD's required on systems exceeding 32 volts i.e supply to GPO's).
45 Pipe work, (sea water rubber hoses must be double-clipped each end). Where allowable, approved rubber hose to be used eg "Dunlop Diamond 404".
46 Machinery guards on all rotating machinery.
47 Cargo/fishing gear, including winches, cranes, deck machinery etc.
48 Alarm systems, (**All vessels** require a machinery space bilge alarm, **audible at helm**).
49 A bilge alarm is required in all compartments where sea water pumping systems are fitted.
50 **The bilge alarm must not operate off the same float switch that operates any electric bilge pump.**
51 Bilge system. Pumps will be tested whenever practical.
52 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.

CLASS 2B/2C EQUIPMENT CHECK LIST for Vessels OVER 25 metres : (To be read with corresponding notes).

NOTE	SURVEY ITEM	VESSEL LENGTH	REQUIREMENTS	Class	
1	LIFERAFT	ALL LENGTHS	A Coastal Lifeboat for 100% complement on each side of the vessel, or A Coastal Lifeboat for 100% complement capable of being launched from either side of the vessel, or A Coastal Liferaft for 100% complement and a Rescue boat, or A Coastal life raft for 100% complement on each side of the vessel. SEE NOTE 1	Both	
2	LIFEBUOYS	Over 60m 45 – 60m 25 – 45m	8 Lifebuoys, } At least 50% to have self-igniting lights 6 Lifebuoys, } including two with smoke signals. Two of the 4 Lifebuoy } remaining to be fitted with buoyant line.		
3	LIFEJACKETS	ALL LENGTHS	An approved lifejacket with light and whistle for each person, SEE NOTE 3		
4	PYROTECHNICS	Over 45m 25 – 45m	12 Parachute Rockets, 6 Parachute Rockets 4 red hand flares and 2 orange smoke signal, (2C over 25 metres)	2B Both	
5	ELECTRIC ALARM SIGNAL	ALL LENGTHS	Electric alarm signal for mustering crew (where efficient mustering cannot be carried out by voice)		
6	SOUND SIGNAL	ALL LENGTHS	Horn or portable air/gas horn.		
7	MISCELLANEOUS EQUIPMENT	ALL LENGTHS	Chronometer or Deck Watch, <i>Sextant (Exemption may be allowed),</i> Pair of Binoculars fitted with neck strap and carrying case, Barometer or Barograph, Depth sounding device (echo sounder), <i>Hand lead line (Exemption may be allowed),</i> Daylight signalling lamp, One copy of "International Code of Signals", One set of International Code Flags	Both 2B 2B Both	
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15			500t and Over	Charts for areas of operation,	2B
16			Less than 500t	Gangway or means of safe access approved by the Department,	2B
17			ALL LENGTHS	One set of International Code Flags	Both
18				N & C flags,	
19				Charts for areas of operation,	
20				Gangway or means of safe access approved by the Department,	
21				One set of International Code Flags	
22				N & C flags,	
23				Charts for areas of operation,	
24				Gangway or means of safe access approved by the Department,	
25				One set of International Code Flags	
26				N & C flags,	
27				Charts for areas of operation,	
28				Gangway or means of safe access approved by the Department,	
29		FIRE PUMPS	Less than 500t 500t and Over	1 Fire pump, hydrants, 2 hoses (plus a spare) and nozzles to suit. 2 Fire pumps, hydrants, 2 hoses (plus a spare) and nozzles to suit.	
30		EMERGENCY FIRE PUMPS	Less than 500t 500t and Over	A manually operated pump in a position outside the machinery space. A portable power driven pump.	
31		HYDRANTS IN MACHINERY SPACES	500t and Over	2 with hose and fittings in each space one on the port side and one on the starboard side in addition to hydrants and hoses carried outside the machinery spaces.	
32		FIXED FIRE INSTALLATION	ALL LENGTHS	Fitted in main machinery space or spaces having total aggregate Brake power of not less than 750kW for auxiliary purposes as detailed in Appendix E of USL Code Section 11.	
33		NON PORTABLE EXTINGUISHERS	500t and Over	A 45 kg Foam or 15 kg CO ₂ in main machinery space or spaces having total aggregate Brake power of not less than 750kW for auxiliary purposes	
34		PORTABLE FIRE EXTINGUISHERS	Less than 500t 500t and Over	Minimum of 2 readily available for use in any part of the accommodation and service space, 2, suitable for extinguishing oil fires, in each firing space and each space containing any part of an oil fuel installation. 1 in each control station (2B Only) Minimum of 2 suitable for extinguishing oil fires, in manned and unmanned machinery spaces, to a maximum of 6 suitable for extinguishing oil fires in any such space. Minimum of 3 readily available for use in any part of the accommodation and service space, 1 in galleys with deck area less than 15m ² , 2 in larger galleys. SEE NOTE 34 1 in each control station (2B Only) Minimum of 2 suitable for extinguishing oil fires, fitted in main machinery space or spaces having total aggregate Brake power of not less than 750kW for auxiliary purposes, to a maximum of 6 suitable for extinguishing oil fires in any such space. 2, suitable for extinguishing oil fires, in each firing space and each space containing any part of an oil fuel installation, these shall be in addition to any furnished in lieu of a non-portable foam or CO ₂ extinguisher	Both 2B Both 2B Both
35	FIRE BLANKET	ALL LENGTHS	1 if overall Galley deck area is less than 15m ² , 2 in larger galleys.		
36	FIREMAN'S OUTFIT	All lengths 500t and Over	1 Outfit (At least 1 outfit to include a breathing apparatus of the air hose type). On vessels 25m and over with refrigeration machinery installed, a breathing apparatus is to be provided		
37	FIREMAN'S AXE	Less than 500t	1 Fireman's axe		
38	EMERGENCY ELECTRICAL INSTALLATION	500t and over Less than 500t	A self contained Emergency Electrical Installation, in addition to the main generating set, able to simultaneously operate lighting, alarm signals, navigation lights, fire detection systems and communications equipment and capable of continuous operation for 3 hours. (2B only) 2 waterproof torches Emergency Electrical Installation as for above, although normal engine starting batteries may be acceptable provided they are suitably positioned in the vessel.	2B 2C	
	39 to 52 VARIOUS	ALL LENGTHS	ITEMS CHECKED AT PERIODIC SURVEY SEE NOTES 39 to 52		

Refer to corresponding notes

CLASS 2B/2C EQUIPMENT CHECK LIST for Vessels OVER 25 metres over 400 ton but under 1000 ton GRT

NOTES

THESE NOTES REFER TO CORRESPONDING EQUIPMENT NOTE NUMBERS ABOVE

- 1 **Inflatable Liferrafts to be serviced annually.** Liferaft/Lifeboats shall be marked with vessel's name/I.D., fitted with reflective tape 300mm long, 50mm wide and spaced at 500mm centres. The raft/boat shall be fitted in a place for easy access, be fitted with hydrostatic release and weak link, or be float free with a weak link, or be fitted to approved launching device.
- 2 Lifebuoys are to be marked with vessel's name and four bands of reflective tape at 90° to each other. A minimum of 27.5m of buoyant line is to be attached to those Lifebuoys requiring buoyant line. Lifebuoys must be readily accessible at all times.
- 3 Lifejackets are to be marked with vessel's name, fitted with reflective tape and SOLAS approved self-igniting lights, which are to be renewed by the expiry date. Jackets are to be stowed in an easily accessible place for emergency use, i.e. in escape trunks from machinery spaces.
"SOLAS" jackets are required for class B vessels. "COASTAL" jackets are required for class C vessels. ("SOLAS" jackets may be used).
- 4 Pyrotechnics are to be renewed by the manufacturer's expiry date marked on each one.
- 6 Horn must give a minimum of 110 dB.
- 7 Chronometer or Deck Watch is to be in view of radio installation.
- 12 Hand lead line if used is to consist of at least a 3kg lead and line of at least 46m, correctly marked.
- 13 Daylight Signalling lamps require a facility for flashing, not just on/off switch, and shall not be solely dependent upon the vessel's main source of power.
- 16 The minimum size of the flags is 600mm x 400mm.
- 19 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 fitted.
A manual anchor winch is required for anchors over 30kg, with a powered anchor winch for anchors over 50kg.
- 22 For a complete First Aid equipment list, contact the Department, (contact numbers can be found on the front of this Pamphlet).
- 23 A book designated as the log book for 2B vessels over 35 m and over 50m for 2C is required to be kept on board at all times and made available to the surveyor on completion of the survey, a vessel record book is required for vessels under those corresponding lengths and classes.
- 24 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.
 A call sign and tuning card for these frequencies must 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.
- 25 An approved EPIRB for waters class D and above (121.5/243 or 406 MHz) shall be carried, mounted in wheelhouse or liferaft.
- 26 Navigation lights will be tested at survey. Anchor and Masthead lights are to be individually switched.
- 27 The compass is to be adjusted every 3 years and the deviation card displayed adjacent to the steering position.
- 28 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.
- 29 Fire pump will be tested with the fire hose and nozzle fitted, (deck hoses are only acceptable if nozzle is readily attachable in an emergency).
- 30 A manually operated emergency fire pump is required; if the main fire pump and its source of power and sea connection are not situated outside the compartment containing oil-fired boilers or internal combustion type propelling machinery. The emergency fire pump and its source of power (as required) and sea connection are to be located in a position outside the main machinery space containing the main fire pump.
- 32 Fixed fire fighting installation is to be serviced annually and a copy of the service document provided to this department. Fixed fire fighting systems are to have an alarm fitted that is audible from the helm whilst underway. CO₂ systems to be fitted with a lock of valve (AS 4214).
- 34 Minimum size of foam fire extinguisher is 9 litre,
 Minimum size of dry powder extinguisher is 4.5kg,
 Minimum size of CO₂ extinguisher is 3kg. } **All portable extinguishers must be serviced annually.**
- 36 Vessels 25 m and over, with a refrigeration installation, are to carry a breathing apparatus in accordance with Note 36, the apparatus is to be located in a position unlikely to become inaccessible in the event of leakage of gas,
- 38 Torches fitted in inflatable liferafts shall not be counted toward torches for item 38.
 Starting batteries on new or modified vessels are to be fitted as high as possible, at least above the deepest loaded waterline.