

Class 3B Survey Equipment List



Commercial Marine Services | **FACT SHEET**

This Fact Sheet provides a general description of the class 3B survey equipment list.

< means less than, > means greater than

≤ means equal to and less than, ≥ means equal to and greater than

tons means gross tons, xxm means measured length in metres

LIFE SAVING APPLIANCES

Liferafts and Rescue Boats	3B
Inflatable coastal liferaft/s for 100% complement and a non Solas Rescue Boat	L ≥ 25m
Inflatable Coastal Liferaft/s for 100% complement	L < 25m
Lifebuoys	3B
8 x lifebuoys minimum. 2 with light and smoke signals, 2 with lights and 2 with buoyant lines. (L2)	L ≥ 60m
6 x lifebuoys minimum. 2 with light and smoke signals, 1 with light and 2 with buoyant lines. (L2)	L ≥ 45m L < 60m
4 x lifebuoys minimum. 2 with light and smoke signals and 2 with buoyant lines. (L2)	L ≥ 25m L < 45m
2x lifebuoys minimum. 1 with light and 1 with buoyant line. (L2)	L ≥ 15m L < 25m
1x lifebuoy minimum with a light (L2)	L < 15m

Key: (L2) Light and smoke signals shall be self-activating

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Lifejackets	3B
SOLAS lifejacket with a light and whistle: for all persons of a mass \geq 32kg and all persons < 32kg (L5)	All lengths
Key: (L5) Light shall be self-activating	
Distress Signals	3B
EPIRB (406 MHz) ¹	All lengths
Parachute distress rockets [Quantity to be carried: 12]	L \geq 45m
Parachute distress rockets [Quantity to be carried: 6]	L \geq 25m L < 45m
Parachute distress rockets [Quantity to be carried: 3]	L < 25m
Red hand-held flares [Quantity to be carried:4]	L \geq 25m L < 45m
Red hand-held flares [Quantity to be carried: 2]	L < 25m
Hand-held orange smoke signals [Quantity to be carried: 2]	L \geq 25m L < 45m
Hand-held orange smoke signals [Quantity to be carried:1]	L < 25m
- ¹ 121.5/243 MHz frequencies will not be in use after February 2009	
On-board Communications and Alarm Systems	3B
Electric alarm system for mustering crew and passengers (where efficient mustering cannot be carried out by voice)	L \geq 25m
Emergency Electrical Installation/Equipment	3B
Self contained emergency electrical installation additional to the main generating set. Able to simultaneously operate lighting, alarm signals, navigation lights and communications equipment continuously for: (1) vessels \geq 125m and \geq 5000tons for 6 hours. (2) vessels <125 m and <5000 tons for 3 hours	L \geq 50m \geq 500t

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<p>(1) a number of electric torches or hand lamps as determined by the Authority</p> <p>(2) emergency installation capable of operating navigation lights (where solely electric) for 3 hours, and (E1)</p> <p>(3) emergency installation capable of operating signalling lamps (where they are normally operated from main electrical power source) and communication equipment for 3 hours. (E1)</p>	<p>L < 50m < 500t</p>
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(E1) In relation to (2) and (3) the emergency installation can be the normal starting batteries provided they are suitably placed in the vessel.

Miscellaneous Equipment	3B
Deck watch or clock	All lengths
Barometer or Barograph	All lengths
Mechanical depth sounder	All lengths
Hand lead line	All lengths
Mechanical depth sounder or hand lead line	L < 25m
One set of International Code of Flags	L ≥ 35m
One copy or the International Code of Signals	L ≥ 35m
Signalling light	All lengths
International Code Flags “N” and “ C”	15 ≤ L < 35m
“V” distress sheet	L < 15m
Charts and nautical publications for the vessel’s area or operation	All lengths
Electronic navigation aids to the satisfaction of the Authority	All lengths
Gangway capable of being used on each side of the vessel or a safe means of access approved by the Authority	All lengths
Windlass anchors and cables	All lengths
Hawsers and warps	All lengths
Medical stores in accordance with Appendix L	All lengths
Vessel record book	All lengths
Navigation lights and day shapes as per the Prevention of Collision at Sea Regulations	All lengths
Radio: HF single side band with minimum frequencies 4125, 6215, 8291 and 8176	All lengths
Sound signal	All lengths
Bell (M2)	L ≥ 20m

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Compass (M3)	All lengths
Bilge pumps (M4)	All lengths
Self contained breathing apparatus (M5)	L ≥ 25m
Canister respirator (M6)	L < 25m

(M1) Class 3D and 3E vessels not fitted with navigation lights are restricted to operation in daylight hours only.

(M2) 300 mm diameter bell for vessels 20 metres and over in length.

(M3) Minimum diameter of compass:-

75mm diameter for vessels less than 10 metres in length.

100mm diameter for vessels 10 metres and over but less than 20 metres in length.

125mm diameter for vessels 20 metres and over in length.

(M4) Number and minimum capacity of bilge pumps

(M5) Vessels that have refrigeration machinery on board are required to carry a breathing apparatus in a position that is not likely to become inaccessible in the event of a gas leakage.

(M6) Required on vessels that have ammonia as a refrigerant. To be located in a position that is not likely to become inaccessible in the event of a gas leakage.

Measured Length of Vessel (L)	Manual pumps with discharge capacity		Power pumps with discharge capacity	
	Number	Capacity in kl/hr	Number	Capacity in kilolitre/hour
L < 7.5m	1	4.0		
L < 10m L ≥ 7.5m	2	4.0		
L < 12.5m L ≥ 10m	1	5.5	1	5.5
L < 17.5m L ≥ 12.5m	1	5.5	1	11.0
L < 20m L ≥ 17.5m	1	8.0	1	11.0
L < 25m L ≥ 20m			2	11.0
L < 35m L ≥ 25m			2	15.5

FIRE FIGHTING EQUIPMENT

Tons = Gross Tonnage

SIZE	REQUIREMENTS
Main Fire Pumps	
1000 tons and over	Two fire pumps complying with Section 11 of the USL Code Appendix B, each capable of delivering simultaneously a jet of water from each of any two fire hydrants.

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≥ 500 tons < 1000 tons	Two fire pumps complying with Section 11 of the USL Code Appendix B, each capable of delivering simultaneously one jet from any fire hydrants.
L ≥ 25m but < 500 tons	One fire pump complying with Section 11 of the USL Code Appendix B, capable of delivering one jet of water from any hydrant.
L ≥ 15m L < 25m	One power driven fire pump capable of delivering one jet of water from any hydrant, hose or nozzle maintaining a pressure of 150 kilopascals.

Emergency Fire Pumps to Appendix C

≥ 500 tons	If a fire in any one compartment could put all the main fire pumps out of action then a fixed independently driven power operated emergency fire pump in a position outside that compartment. Any vessel less than 1000 tons the emergency fire pump may be a portable power driven fire pump.
< 500 tons L ≥ 25m	If main fire pump, its source of power and sea connections are not situated outside the compartment containing oil fired boilers or internal combustion propelling machinery. A manually operated emergency fire pump in a position outside that compartment.

Fire main Water Service Pipes, Hydrants (other than hydrants in boiler and machinery spaces) and Jets of Water

≥ 1000 tons	Must comply with Section 11 of the USL Code Appendix D and provide two jets of water in accordance with sub item 1.3 of Appendix D
L ≥ 15m < 1000 tons	Shall comply with Section 11 of the USL Code Appendix D and provide one jet of water in accordance with sub-item 1.4 of Appendix D

Hydrants in Boiler and Machinery Spaces

≥ 500 tons	Two hydrants including hoses and combined spray/plain nozzles in each space containing oil-fired boilers or internal combustion propelling machinery, one on the port side and one on the starboard side. Where there is access to the space by shaft tunnel, one hydrant shall be positioned in the end or the tunnel adjacent to that space and the supply to that hydrant shall be from a source outside of the space and the supply line shall not pass through the space.
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Hoses

	Fire hoses and their fittings shall comply with Section 11 of the USL Code Appendix D. The hoses required shall be in addition to any hoses required for the machinery spaces.
≥ 1000 tons	One for each 30m length of vessel, but in any case not less than five. Total length of hoses shall be at least 60% of the length of the vessel. A spare hose shall be provided in addition to such hoses.
< 1000 tons L ≥ 25m	Two, the total length shall be at least 50% of the length of the vessel. A spare hose shall be provided in addition to such hoses.
15m ≤ L < 25m	One hose

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Fixed Fire Extinguishing installations Machinery Space

L ≥ 25m	<p>One installation complying with Section 11 of the USL Code Appendix E for the protection of any space containing:</p> <p>(a) any oil-fired boiler, oil fuel settling tank or oil fuel unit.</p> <p>(b) Internal combustion machinery used for main propulsion, or having in the aggregate a total brake power or not less than 750 kW for auxiliary purposes.</p> <p>Vessels of 500 tons and over but less than 1000 tons may use steam in lieu of foam, water or gas.</p>
L ≥ 12.5m L < 25m	<p>Vessel fitted with oil fired boilers or internal combustion machinery used for main propulsion and decked in way or the machinery space, a fixed fire extinguishing installation complying with Appendix F section 11 of the USL code.</p> <p>There may be substituted for this installation a water spraying system supplied from a hand pump situated outside the machinery space. The pump shall be connected by fixed piping to a sufficient number of water spraying nozzles suitably sited in the machinery space and capable of extinguishing oil fires. When such a system is installed means shall be provided for detecting the product of combustion prior to or resulting from an outbreak of fire in the machinery space.</p>

Non Portable Foam and CO₂ Extinguishers

≥ 500 tons	<p>(a) In each boiler room if the number of burners is five or more one foam fire extinguisher of 45 litres capacity or a carbon dioxide fire extinguisher of 15 kilograms capacity. If the number of burners is less than five then for each burner one portable fire extinguisher suitable for extinguishing oil fires.</p> <p>A vessel of less than 1000 tons which is provided with a fixed fire steam smothering installation and steam for the installation is generated by water tube boilers then in each boiler room one foam fire extinguisher or 135 litres capacity or a carbon dioxide fire extinguisher or 45 kilograms capacity.</p> <p>Any space containing internal combustion machinery used for main propulsion, or having in the aggregate a total brake power or not less than 750 kW for auxiliary purposes shall be provided with. One foam extinguisher of 45 litres capacity; or one CO₂ extinguisher of 15 kilograms capacity.</p>
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Portable Fire Extinguishers

	Portable fire extinguishers shall comply with Section 11 of the USL Code Appendix G
	Accommodation
≥ 500 tons	<p>(a) A sufficient number to ensure that one will be readily available for use in any part of the accommodation or service spaces, The number of extinguishers shall not be less than five on vessel of 1000 tons and over, and not less than three on vessels of 500 tons and over but less than 1000 tons.</p> <p>(b) One in a galley where the overall deck area is less than 15 square metres and two in larger galleys.</p>
L ≥ 25m < 500 tons	A sufficient number to ensure that one will be readily available for use in any part of the accommodation or service spaces, but not less than two.

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15m ≤ L < 25m	One readily available for use in each of the accommodation and service space.
Engine spaces	
> 500 tons	<p>(a) In each space containing internal combustion machinery used for main propulsion, or having in the aggregate a total brake power of not less than 750 KW for auxiliary purposes, one for each 750 kW brake power or part thereof. At least two but no more than six shall be provided in any such space. The extinguisher shall be suitable for extinguishing oil fires.</p> <p>(b) Two, suitable for extinguishing oil fires. In each firing space and each space containing any part of any oil fuel installation. These shall be in addition to any furnished in lieu of a non-portable foam or CO₂ extinguisher.</p>
L ≥ 25m < 500 tons	<p>(1) Two, suitable for extinguishing oil fires, in each firing space and each space containing any part of an oil fuel installation</p> <p>(2) In each unmanned machinery space, which contains internal combustion machinery used for main propulsion, or having in the aggregate a total brake power of not less than 750 KW for auxiliary purposes, one for each 750 kW brake power or part thereof. At least two but no more than six shall be provided in any such space. The extinguisher shall be suitable for extinguishing oil fires.</p>
L ≥ 15m < 25m	<p>(a) In each space which is continually manned at sea and which contains internal combustion type machinery used for main propulsion, or having in the aggregate a total brake power of not less than 750kW for auxiliary purposes, and which is not provided with:</p> <p>(1) a foam fire extinguisher of 45 litres capacity or a carbon dioxide fire extinguisher of 15 kilograms capacity together with two portable fire extinguishers; or</p> <p>(2) a fixed fire extinguishing installation complying with Appendix E together with two portable fire extinguishers</p> <p>One portable fire extinguisher suitable for extinguishing oil fires for each 75kW brake power or part thereof but not less than two nor more than seven.</p>
L < 25m	Two suitable for extinguishing oil fires for use in each space containing propelling machinery.
Sand	
	Each boiler firing space shall be provided with the following:
≥ 1000 tons	<p>(a) 0.25 cubic metres of sand or other dry material suitable for quenching oil fires. A scoop shall be provided for distribution ;or</p> <p>(b) An additional portable fire extinguisher suitable for extinguishing oil fires.</p>
L ≥ 25m < 1000 tons	<p>(a) 0.15 cubic metres of sand or other dry material suitable for quenching oil fires. A scoop shall be provided for distribution ;or</p> <p>(b) An additional portable fire extinguisher suitable for extinguishing oil fires.</p>

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Fire Smothering Blanket	
L ≥25m	One in a galley where the overall deck area is less than 15 square metres and two in larger galleys.
Firemen's Outfits	
	Firemen's outfits shall comply with Section 11 of the USL Code Appendix H
≥4000 tons	3 outfits At least one outfit shall include breathing apparatus of the air hose type. In any vessel which only carries firemen's outfits of the air hoses type and a air hose exceeding 35 metres would be necessary to reach from the open to any part of the accommodation, service, cargo or machinery spaces then: At least one additional sets of breathing apparatus of the self-contained type shall be provided.
≥ 2500 tons < 4000 tons	2 outfits At least one outfit shall include breathing apparatus of the air hose type. In any vessel which only carries firemen's outfits of the air hoses type and an air hose exceeding 35 metres would be necessary to reach from the open to any part of the accommodation, service, cargo or machinery spaces then: At least one additional set of breathing apparatus of the self-contained type shall be provided.
≥ 500 tons < 2500 tons	1 outfit At least one outfit shall include breathing apparatus of the air hose type. In any vessel which only carries firemen's outfits of the air hoses type and a air hose exceeding 35 metres would be necessary to reach from the open to any part of the accommodation, service, cargo or machinery spaces then: At least one additional sets of breathing apparatus of the self-contained type shall be provided.
International Shore Connection	
≥ 1000 tons	One complying with Section 11 of the USL Code Appendix J
Fireman's Axe	
<500 tons ≥35m	One fire axe
Fire Buckets	
L <25m	Two metal 9 litre buckets with lanyards

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