

Annex 1
Supplies from the emergency source

	Item	Required time			
		S 92	S 81	S 74	S 60
1	Emergency lighting at every muster and embarkation station and over the sides	3h	3h	6h	6h
2	Emergency lighting in service and accommodation alleyways, stairways and exits and (S 81, S92) personnel lift cars and personnel lift trunks	18h	18h	6h	6h
3	Emergency lighting in machinery spaces and main generating stations	18h	18h	6h	6h
4	Emergency lighting in all control stations, control rooms main and emergency switchboards (S 74: only navigating bridge)	18h	18h	6h	6h
5	Emergency lighting at all stowage positions for fireman's outfits	18h	18h	-	-
6	Emergency lighting at the steering gear	18h	18h	-	-
7	Emergency lighting at the fire emergency pump	18h	18h	-	-
8	Navigation lights	18h	18h	6h	6h
9	VHF radio installation (IV/7.1.1, 7.1.2) (1.2.95)	18h	18h	-	-
10	MF radio installation (IV/9.1.1, 9.1.2, 10.1.2, 10.1.3)	18h	-	-	-
11	Ship earth station (IV/10.1.1)	18h	-	-	-
12	MF/HF radio installation (IV/10.2.1, 10.2.2, 11.1)	18h	-	-	-
13	All internal emergency communication (a)	18h	18h	-	-
14	The shipborne navigational equipment (a)	18h	18h	-	-
15	Fire detection and alarm system (a)	18h	18h	-	-
16	Daylight signalling lamp (a)	18h	18h	6h	6h
17	Ship's whistle (a)	18h	18h	-	-
18	Manually operated call points (a)	18h	18h	-	-
19	Emergency internal signals (a) (S 74: only general alarm)	18h	18h	6h	6h
20	Emergency steering gear	(b)	(b)	-	-

(a) Unless they have an independent supply for 18 hours.

(b) Ships ≥ 10000 GT: 30', other ships: 10'.

Note S 74, S 60: requirements valid for ships ≥ 5000 GT. Other ships need only item 1 for 3h.

Annex 2
Servicing of fire bottles/extinguishers

Permanently installed fire-fighting systems			
Type of system	Charge check	Hydrostatic test	Test pressure
CO2	content check at 2-year intervals	10 % of the bottles at 10-year intervals	25 N/mm ²
NITROGEN			1,5 times the w.p.
HALON			
FOAM	analysis at 3-year intervals (twice during the 5-year period)	—	—
POWDER	smoothness test each year; quantity check at 5-year intervals	—	—

Portable fire extinguishers			
Type of extinguisher	Charge check	Hydrostatic test	Test pressure
Water and foam	replacement of charge each year	at each special survey (5-year intervals)	1,5 times the w.p. (2 N/mm ² if the w.p. is unknown)
Powder with shell not kept under pressure	check each year replacement of charge at 5-year intervals		
CO2	at 2-year intervals	extinguishers sent ashore for refilling when found empty or low charged (less than 90% for CO2, 95% for halon and with low pressure for powder ones)	25 N/mm ²
Halon Powder with shell kept under pressure			1,5 times the w.p. (2 N/mm ² if the w.p. is unknown)
Small compressed air or gas bottles used in fire extinguishers not permanently kept under pressure.	internal inspection at 5-year intervals	at 5-year intervals where internal inspection is not possible	2 times the w.p. 25 N/mm ² if of a CO2 type with safety devices 35 N/mm ² if of a CO2 type without safety devices

Except for the refilling of the water extinguishers, foam extinguishers and pressurised powder extinguishers, all the checks of the charge and hydrostatic tests are to be carried out under the surveillance of a RINA surveyor.

All the containers of extinguishing agents are to be checked when the inspections and test required at ordinary (annual), intermediate and special survey are carried out.

Attention is drawn to compliance with any additional and/or more stringent requirements issued by the Administration of the State whose flag the ship is entitled to fly.

Annex 3
Lifeboat fittings

	Item	Required no.			
		S 92	S 74	S 60	S 48
1	Automatic draining valve with cap (S 92) or plug attached with lanyard	1	2	2	2
2	Rudder and tiller	1	1	1	1
3	Buoyant (S 92) lifeline around the lifeboat	1	1	1	1
4	Handholds underside the hull	2	2	2	2
5	Watertight lockers for storage of small items	suff	suff	suff	suff
6	Means for storage of collected rainwater	suff	-	-	-
7	Release mechanism for hooks	1	-	-	-
8	Release device for forward painter	1	-	-	-
9	Skates and fenders (not free-fall)	suff	-	-	-
10	Externally manually controlled lamp on top of lifeboat	1	-	-	-
11	Electric lamp inside lifeboat	1	-	-	-
12	Permanently attached foldable canopy (partially enclosed lifeboats)	1	-	-	-
13	Self-contained air support system with pressure indicators (toxic cargoes)	1	-	-	-
14	Water spray system (inflammable cargoes)	1	-	-	-

Annex 4
Lifeboat inventory

	Item	Required no.			
		S 92	S 74	S 60	S 48
1	Boarding ladder	1	1	1	1
2	Buoyant oars, thole pins and crutches (not free-fall lifeboats)	suff	(a)	(a)	(a)
3	Boat hooks	2	-	-	-
4	Buoyant (S 92) bailer	1	1	1	1
5	Buckets	2	2	2	2
6	Survival manual	1	-	-	-
7	Efficient compass in binnacle provided with means of illumination	1	1	1	1
8	Sea-anchor with (S 92) shock-resistant hawser and tripping line	1	1	1	1
9	Painters of 15 m/twice distance stowed lifeboat/waterline (not free-fall lifeboats)	2	2	2	2
10	Hatchets	2	2	2	2
11	Fresh water in watertight receptacles (litres per person)	3	3	3	3
12	Rustproof dipper with lanyard	1	-	-	-
13	Rustproof graduated drinking vessel	1	-	-	-
14	Food ration (b) in airtight packaging (ration per person)	1	1	1	1
15	Rocket parachute flares	4	4	4	2
16	Hand flares	6	6	6	6
17	Buoyant smoke signals	2	2	2	2
18	Waterproof Morse electric torch with spare batteries and bulb	1	1	1	1
19	Daylight signalling mirror with instructions	1	1	1	1
20	Copy of life-saving signals on (S 92) waterproof card/in waterproof container	1	1	1	-
21	Whistle	1	1	1	-
22	First-aid outfit in waterproof case	1	1	1	1
23	Anti-seasickness medicine (doses per person)	6	-	-	-
24	Seasickness bag (per person)	1	-	-	-
25	Jack-knife with lanyard and (not S 92) with tin-opener	1	1	1	1
26	Tin-openers	3	-	-	-
27	Buoyant rescue quoits with 30 m buoyant line	2	-	-	-
28	Manual pump	1	1	1	1
29	Set of fishing tackle	1	1	1	-
30	Tools for minor adjustment to the engine and its accessories	suff	-	-	-
31	Portable fire extinguisher (S 74: only motor lifeboats)	1	1	1	1
32	Searchlight	1	-	-	-
33	Radar reflector or radar transponder stowed in lifeboat	1	-	-	-
34	Thermal protective aids (percentage of persons) but not less than 2	10	-	-	-
35	Efficient 15 m painters suitable for towing (free-fall lifeboats)	2	-	-	-
36	Lamp with oil for 12 hours	-	1	1	1
37	Mast with galvanised wire stays and orange sails	-	1	1	1
38	Vessel with 4,5 l oil attachable to the sea anchor	-	1	1	1
39	Buoyant heaving lines	-	2	2	2
40	Cover of a highly visible colour for protection against exposure	-	1	1	-

(a) A single banked complement of buoyant oars, two spare buoyant oars and a buoyant steering oar; one set and a half of thole pins or crutches attached to the lifeboat by lanyard or chain, a boat hook.

(b) Ration to be 10000 kJ (S 92), to the satisfaction of the Administration (S 74, S 60), 1 kg (S 48).

suff = sufficient

Annex 5
Rescue boat fittings and inventory

	Item	Required no. (S 92)
1	Automatic draining valve with cap or plug attached with lanyard	1
2	Rudder and tiller	1
3	Buoyant lifeline around the rescue boat	1
4	Handholds underside the hull	2
5	Release mechanism for hooks	1
6	Release device for forward painter	1
7	Watertight lockers for storage of small items	1
8	Arrangement for towing liferafts	sufficient
9	Buoyant oars or paddles to make headway in calm seas	sufficient
10	Thole pins and crutches attached with lanyard or equivalent arrangements	for each oar
11	Buoyant bailer	1
12	Efficient compass in binnacle provided with means of illumination	1
13	Sea-anchor and tripping line with hawser of adequate strength (10 m length)	1
14	Painter of sufficient length and strength attached to the release device	1
15	Buoyant line for towing liferafts (50 m length)	1
16	Waterproof Morse electric torch with spare batteries and bulb	1
17	Whistle	1
18	First-aid outfit in waterproof case	1
19	Buoyant rescue quoits with 30 m buoyant line	2
20	Searchlight	1
21	Efficient radar reflector	1
22	Thermal protective aids	10% persons / 2 (the greater)
23	Boat-hook (rigid rescue boats)	1
24	Bucket (rigid rescue boats)	1
25	Knife or hatchet (rigid rescue boats)	1
26	Buoyant safety knife (inflated rescue boats)	1
27	Sponges (inflated rescue boats)	2
28	Efficient manually operated bellows or pump (inflated rescue boats)	1
29	Punctures repair kit in suitable container (inflated rescue boats)	1
30	Safety boat-hook (inflated rescue boats)	1

Annex 6
Rigid liferafts fittings and inventory

	Item	Required no.			
		S 92	S 74	S 60	S 48
1	Boarding ladder (S 74, S 60: at each opening)	1	1	1	-
2	Efficient painter	1	1	1	-
3	Manually controlled lamp powered by cell on top of canopy	1	-	-	-
4	Manually controlled lamp inside the liferaft	1	-	-	-
5	Lifeline around the liferaft and (S 74, S 60) inside	1	1	1	-
6	Painter around the liferaft	1	-	-	-
7	Buoyant rescue quoit with 30 m buoyant line	1	1	1	-
8	Knives of the non-folding type with buoyant handle and lanyard	(a)	(a)	(a)	-
9	Buoyant (S 92) bailers	(a)	(a)	(a)	-
10	Sponges	2	2	2	-
11	Sea-anchor with (S 92) shock-resistant hawser and tripping line	2	2	2	-
12	Buoyant (S 92) paddles	2	2	2	-
13	Tin-openers	3	3	3	-
14	First-aid outfit in waterproof case	1	1	1	-
15	Whistle	1	1	1	-
16	Rocket parachute flares	4	2	2	-
17	Hand flares	6	6	6	-
18	Buoyant smoke signals	2	-	-	-
19	Waterproof Morse electric torch with spare batteries and bulb	1	1	1	-
20	Radar reflector or radar transponder stowed in liferaft	1	-	-	-
21	Daylight signalling mirror with instructions	1	1	1	-
22	Copy of life-saving signals on (S 92) waterproof card/in waterproof container	1	1	1	-
23	Set of fishing tackle	1	1	1	-
24	Food ration (b) in airtight packaging (ration per person)	1	1	1	-
25	Fresh water in watertight receptacles (litres per person)	1,5	1,5	1,5	-
26	Rustproof graduated drinking vessel	1	1	1	-
27	Anti-seasickness medicine (doses per person)	6	6	6	-
28	Survival manual	1	1	1	-
29	Instructions for immediate action	1	-	-	-
30	Thermal protective aids (percentage of persons) but not less than 2	10	-	-	-
31	Canopy	1	1	1	-
32	Buoyant battery powered light with lanyard	-	1	1	-

(a) Liferafts permitted to accommodate 13 persons or more: 2, others: 1.

(b) Ration to be 10000 kJ (S 92), to the satisfaction of the Administration (S 74, S 60).