

U.S. COAST GUARD MARINE SAFETY CENTER GUIDELINE

FOR USE OF FLAMMABLE LIQUID & GAS STORAGE CABINETS

The U.S. Coast Guard Marine Safety Center revised its MSC Guideline for the use of flammable Liquid & Gas storage cabinets on July 2018 (Procedure Number : SOLAS-05).

In spaces where a limited supply of flammable liquids or gases is necessary for the practical utility of the space, it may be permissible to install an approved flammable liquid cabinet to stow small quantities of items for daily use. These cabinets must :

1. Provide adequate thermal insulation to protect the contents from an external fire. This thermal protection must be at least at the level required by SOLAS II-2, Table 9.1 between a category 14 space and the space in which the cabinet is located ;
2. Be designed to contain leakage and spills ; and
3. Be gas/fume-tight.

Cabinets manufactured and approved to EN14470-1, Type 60 or Type 90 are acceptable. Cabinets meeting NFPA 30 or UL 1275, only provide protection for 10 minutes and should only be used in category 11, 12 or 14 spaces.

In all cases cabinets must be suitable for the intended use as determined by the flag administration. When used, these lockers must be permanently mounted to the deck and indicated on the Fire Control Plan or otherwise be included in the ship's Safety Management System (SMS) and training program. The quantity and types of materials contained in these lockers must be consistent with the manufacturer's recommendations.

Reference Text

SOLAS II-2/9.2.2.3.2.2

(11) Auxiliary machinery spaces, cargo spaces, cargo and other oil tanks and other similar spaces of moderate fire risk... Auxiliary machinery spaces, as in category (10), which contain machinery having a pressure lubrication system or where storage of combustibles is permitted.

(12) Machinery spaces and main galleys.

(13) Store-rooms, workshops, pantries, etc... Lockers and store-rooms having areas greater than 4m², other than those spaces that have provisions for the storage of flammable liquids.

(14) Other spaces in which flammable liquids are stowed, paint lockers, store-rooms containing flammable liquids (including dyes, medicines, etc.), laboratories (in which flammable liquids are stowed).

THE GOOD QUESTIONS TO ASK

- Do you carry chemical or dangerous products on your vessel ?
- If yes, what quantities by chemical family ? Flammable, corrosives (acids & bases) ? Toxic ?
- How do you currently store them ?
- What kind of storage space do you have available (size & surrounding) ?
- Did you get any customer complain regarding vapour smell or spillage ?
- If yes, would you consider equipping your cabinet with a ventilation or filtration filter ?

Do not hesitate to contact your local Maritime partner or Ecosafe directly for any advice or technical request.

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SAFETY CABINETS – EN 14470-1 & FM

105 MINUTES FOR THE STORAGE OF FLAMMABLE PRODUCTS ON BOARD TRANSPORTATION AND MARITIME MOTION



CONFORMITY

- Tested and approved according to EN 14470-1 (04/2004) and EN- 1363-1 (06/2000).
- Tested and approved 10 minutes according to FM 6050 (Factory Mutual International).
- Normalized labelling according to ISO 3864, ISO 7010, 92/58/CEE European directive and norm EN 14470-1 (04/2004).

ACTIVE SECURITY

- 105 minutes fire resistant as per ISO 834 fire heating curve
- Double wall construction : Outer housing made of sheet steel 12/10th with high quality epoxy coating RAL 9010.
- Inner body built in white RAL 9010 melamine.
- Thermal insulation panel between the walls avoiding thermal bridges.
- Doors equipped with Thermo-expanding seals
- Adjustable containment shelves Étagères (in steps of 6,4 cm) and

- removable containment sump at the bottom.
- Normalized labelling.
- Earthing link.
- Doors equipped with self-closing system and key-locking.
- Door holding system in open position with thermo-regulated automatic closing at 50 ° C.
- Ventilation ducts with thermo-fuse system to isolate the contents of the cabinet in case of fire.
- Air duct with 100 mm diameter outlet for potential connection.
- Wall fixation kit to prevent maritime motion.
- Non-slipping mat to avoid possible sliding of recipients during maritime motion.
- 3 Ground fastenings by screwing.

OPTIONS

- Shelves reinforcement for evenly distributed allowable load up to 75 KG.

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▲ Option Code lock SERCODE (1 per door)



CABINETS WITH EQUIPMENTS

Door's reference	Description	Type	Number of door(s)	Outside dimensions H x W x D (mm)	Storage capacity (L)	Delivered with		Maximum load by shelf (kg)	Weight (kg)
						Containment shelf	Containment sump		
white	yellow								
791+BE	-	Cabinet equipped	1	630 x 635 x 570 ⁽¹⁾	30	1	1	30	127
792+BE	-	Cabinet equipped	2	630 x 1137 x 570 ⁽¹⁾	60	1	1	50	213
793+BE	-	Cabinet equipped	2	1100 x 1137 x 670 ⁽²⁾	115	2	1	50	297
798+BE	-	Cabinet equipped	1	1100 x 635 x 670 ⁽²⁾	65	2	1	30	182
794+BE	794+PJBE	Cabinet equipped	1	1950 x 635 x 620 ⁽³⁾	130	3	1	30	287
795+BE	795+PJBE	Cabinet equipped	2	1950 x 1137 x 620 ⁽³⁾	250	3	1	50	453
795+900BE	-	Cabinet equipped	2	1950 x 905 x 620 ⁽³⁾	200	3	1	40	438

ACCESSORIES

P/N	Description	Outside dimensions H x W x D (mm)	Weight (kg)
E1	Containment shelf for 1 door cabinet type 791+B	30 x 490 x 285	3
E2	Containment shelf for 2 doors cabinet type 792+B	30 x 1000 x 285	6
E48	Containment shelf for 1 door cabinet - W: 635 – D: 670 mm	30 x 490 x 410	3
E35	Containment shelf for 2 doors cabinet - W: 1135 – D: 670 mm	30 x 1000 x 410	6
E235-900	Containment shelf for 2 doors cabinet - W: 900 – D:670 mm	30 x 765 x 410	6
C1	Perforated cover plate for 1 door cabinet type 791+B	90 x 480 x 315	3
C2	Perforated cover plate for 2 doors cabinet type 792+B	90 x 990 x 315	6
C48	Perforated cover plate for 1 door cabinet - W: 635 - D: 670 mm	90 x 460 x 390	4
C35	Perforated cover plate for 2 doors cabinet - W:1135 - D: 670 mm	90 x 990 x 400	8
C235-900	Perforated cover plate for 2 doors cabinet - W:900 - D:670 mm	90 x 755 x 400	8
T48	Self retracting shelf for 1 door cabinet - W: 635 mm - D: 670 mm	80 x 420 x 380	6
T35	Self retracting shelf for 2 doors cabinet - W:1135 mm - D:670 mm	80 x 930 x 380	12
T235-900	Self retracting shelf for 2 doors cabinet - W:900 mm - D:670 mm	80 x 695 x 380	12
SE48	PVC containment shelf for E79148 (for E79235 model, 2 pieces by level are required)	30 x 488 x 377	3
SB48	PVC Containment sump for 1 door cabinet in W: 670 mm. For 2 doors models in W: 1135, 2 pieces by level are required).	100 x 471 x 409	5
TP48	Sloping roof for cabinet 1 door cabinet	235 x 640 x 620	10
TP35	Sloping roof for cabinet 2 doors cabinet	235 x 1140 x 620	20
SERCODE	Code lock (1 per door)		-

(1) Depth with the connecting sleeve at the back. Depth without connecting sleeve : 520 mm
 (2) Depth with the connecting sleeve at the back. Depth without connecting sleeve : 620 mm
 (3) Height with the connecting sleeve at the back. Height without connecting sleeve : 1900 mm