



# Germanischer Lloyd

## Notes on approval and arrangement of Emergency Escape Breathing Devices (EEBDs)

The actual requirements for EEBDs are laid down in the following documents:

- a) SOLAS 74 including amendments 2000 (IMO Res. MSC.99(73), Reg. II-2/13.3.4 and 13.4.3;
- b) International Code for Fire Safety Systems (IMO Res. MSC.98(73), Chapter 3, Para. 2.2;
- c) MSC/Circ. 849 – Guidelines for the performance, location, use and care of emergency escape breathing devices (EEBDs).
- d) MSC/Circ.1081 – Unified interpretations of SOLAS Regulations II-2/13.3.4 and II-2/13.4.3

### **Application:**

All passenger ships and all cargo ships ( $\geq 500$  GT) shall be provided with EEBDs as follows:

- newbuildings* – on all newbuildings with keel laying date on or after 01.07.2002,
- existing ships* – on all existing ships not later than the date of *the first survey\* after 1 July 2002.*

### **Approval:**

EEBDs shall be of approved type according to the requirements of the Code for Fire Safety Systems [b]).

The devices shall be approved either by Germanischer Lloyd, the flag-state Authority or organisations recognised by the relevant flag state (e.g. other IACS classification societies). According to the 3<sup>rd</sup> amendments (2002/75/EC) to the Directive (96/98/EC), which have been entered into force on 23.09.2002, EEBDs are included in the Annex A.1 to the EC Marine Equipment Directive.

### **Number:**

#### *Cargo Ships:*

- accommodation area 2 [a] Reg. II-2/13, 3.4.2];
- machinery spaces at least 2 (acc. to room arrangement and number of persons normally working there, see Safe Manning Certificate) [a] Reg. II-2/13,4.3.1];
- spare units 1 [a] Reg. II-2/13, 3.4.1];
- training units 1, which is clearly marked [c] Para. 6].

#### *Passenger Ships:*

- accommodation area 2 in each main vertical zone [a] Reg. II-2/13, 3.4.3];  
(more than 36 passengers) + 2 add. in each main vertical zone [a] Reg. II-2/13, 3.4.4];
- machinery spaces at least 2 (acc. to room arrangement and number of persons normally working there, see Safe Manning Certificate) [a] Reg. II-2/13,4.3.1];
- spare units 2 [a] Reg. II-2/13, 3.4.1];
- training units 1, which is clearly marked [c] Para. 6].

*The indicated numbers must be increased acc. to additional national requirements if any or if required by the arrangement on board.*

### **Arrangement:**

Unless personnel are individually carrying EEBDs, consideration should be given for placing such devices along the escape routes within the machinery spaces or at the foot of open escape ladders within the spaces. In addition, control spaces, workshops and similar working places located within the machinery spaces should also be considered for the possible location of such devices [c] para. 4.6]. Please see [d)] [MSC/Circ.1081](#) for further clarification.

Recommended places for storage of EEBDs within the accommodation area are the bridge, the mess rooms and the galley, either within these spaces or near those spaces within means of escape.

### **Indication in the fire control plan:**

The number and location of these devices shall be indicated in the fire control plan [a] Reg. II-2/13,4.3.2]. The revision shall be endorsed by the attending GL surveyor.

Recommended symbol (colour green) for indication on board and in the fire control plan:



### **Emergency escape breathing device**

The provided EEBDs have to be listed also in the *Record of approved Cargo Ship Safety Equipment* (Form F410).

### **Maintenance:**

According to manufacturers instruction. Compressed air cylinders should be subject to a hydrostatic test at least once every five years.

### **GL approved types:**

- „M-20.2 EEBD“ of Ocenco, Inc. (17096-00 HH)
- „S-Cap-Air“ and „UNISCAPE 15H“ of MSA AUER GmbH (40902-01 HH)
- “Sabre Elsa 2000” of Protector Technologies Ltd (42605-02 HH)
- “Saver PP” and “Saver CF” of Dräger Safety AG (42730-02 HH)  
(42731-02 HH)
- “SPIROSCAPE HP15” of INTERSPIRO AB (42933-02 HH)
- “ATLANTIC-AIR” of Delta Gemi Donatim Ltd.Sti. (43043-02 HH)
- “TH10” and “TH15” of Danyang Huayan Marine Equipment (43292-02 HH)

Approval list may be found at GL homepage [www.gl-group.com](http://www.gl-group.com) under *Newbuildings / GL Approvals*.

**For assistance the attached Self-Checklist may be used.**

- \*) **first survey:**
- *Passenger ships, the first initial or renewal survey for the issue of the PSSC;*
  - *Cargo ships, the first initial, annual, periodical or renewal survey for the issue of the CSSEC;*
  - *or any occasional survey which implies the confirmation of validity of the a.m. certificates.*



# Germanischer Lloyd

## Number and arrangement of Emergency Escape Breathing Devices Self - Checklist

Name of Ship:		Nationality:	
IMO-No.:		Type of Ship:	
GL Register No.:		Gross Tonnage:	
<b>Number of EEBDs:</b>	<b>Total</b> (in machinery and accommodation spaces): [ ]	<b>Spare devices:</b> [ ]	<b>Training devices:</b> [ ]

No.		Yes	No	N/A
<b>1.</b>	<b>General</b>			
1.1	<b>Product information</b>			
1.1.1	Manufacturer:			
1.1.2	Type:			
1.1.3	<b>Approval- number:</b> (the devices to be of GL-approved type or to be approved by an other authorised body)			
1.2	<b>Service and maintenance instructions</b>			
	Instructions of the manufacturer included in the maintenance plan or program, (II-2/14)	<input type="checkbox"/>	<input type="checkbox"/>	
1.3	<b>National requirements</b>			
	Number and arrangement comply with the national requirements (information in internet under <a href="http://www.gl-group.com">www.gl-group.com</a> / Fleet/ Ship Safety / EEBDs)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.4	<b>Fire control plans</b> (II-2/13.4.3.2)			
1.4.1	Location and numbers of EEBDs indicated in the fire control plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.4.2	Indications on the fire control plan comply with the arrangement on board	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.4.3	Revisions to the fire control plan endorsed by the attending GL surveyor	<input type="checkbox"/>		
<b>2.</b>	<b>Accommodation</b> (II-2/13.3.4.2 to 13.3.4.5)			
2.1	Number			
2.1.1	cargo ships (at least 2) : [ ]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.1.2	Passenger ships (at least 2 in each main vertical zone): [ ]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.1.3	Passenger ships carrying more than 36 pass. (at least 4 in each main vertical zone): [ ]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

