

SUB-COMMITTEE ON SHIP SYSTEMS AND  
EQUIPMENT  
12th session  
Agenda item 9

SSE 12/9  
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**REVIEW AND UPDATE OF SOLAS REGULATION II-2/9 ON CONTAINMENT OF FIRE TO  
INCORPORATE EXISTING GUIDANCE AND CLARIFY REQUIREMENTS**

**Compilation of existing explanatory figures for SOLAS regulation II-2/9**

**Submitted by IACS**

**SUMMARY**

*Executive summary:* This document proposes amendments to the draft new guidance document proposed in document SSE 11/9, which are based on the comments received in the Fire Protection Correspondence Group 1. Document SSE 11/9 proposed that existing explanatory figures from MSC circulars which provide guidance on SOLAS regulation II-2/9 be compiled into a new guidance document, for example, an MSC circular, if the guidance text is lifted into SOLAS regulation II-2/9.

*Strategic direction, 7  
if applicable:*

*Output:* 7.48

*Action to be taken:* Paragraph 12

*Related documents:* MSC 104/15/2; SSE 10/17/1, SSE 10/WP.6 (annex 5); SSE 11/9 and SSE 12/8

**Background**

1 MSC 108 agreed to include the output on "Review and update SOLAS regulation II-2/9 on containment of fire to incorporate existing guidance and clarify requirements" in the provisional agenda of SSE 11.

2 Document SSE 10/17/1 (IACS) pointed out that many of the existing MSC circulars contain explanatory figures which are considered useful to visualize the intent of the interpretations, suggesting the Sub-Committee consider compiling these explanatory figures in a new guidance document, for example, an MSC circular, when the guidance text is lifted into SOLAS regulation II-2/9.

3 Accordingly, document SSE 11/9 (IACS) suggested the possible content for a draft MSC circular containing the existing explanatory figures relevant to SOLAS regulation II-2/9.

4 During the discussion at SSE 11, views were expressed that consolidating existing explanatory figures providing guidance on SOLAS regulation II-2/9 into a new guidance document would improve accessibility, promote and improve visualization of uniform interpretation, and facilitate compliance with fire containment regulations. It was further noted that the proposed consolidation could also reduce ambiguities in the application of SOLAS regulation II-2/9, enhance consistency within the maritime industry and improve the clarity and user-friendliness of guidance documents.

5 SSE 11 agreed to refer the document to the Fire Protection Working Group for further consideration. The Working Group did not consider the document due to time constraints, and it was referred further to the Fire Protection Correspondence Group 1 (FP CG 1) to be considered under its TOR 4.

## Discussion

6 Similar to the views expressed at SSE 11, the FP CG 1 supported the compilation of the explanatory figures which are currently available in various MSC circulars into a new guidance document for SOLAS regulation II-2/9 (SSE 12/8, paragraph 200).

7 The relevant guidance documents containing explanatory sketches, as set out in document SSE 11/9, are listed below for reference:

<b>SOLAS reference</b>	<b>MSC circular</b>	<b>Content</b>
II-2/9.2.2.1	MSC/Circ.1120	Arrangement of main vertical zones
II-2/9.2.2.3.2.2(9)	MSC.1/Circ.1634	Examples of category 9 "Isolated pantry containing no cooking appliances in an accommodation space"
II-2/9.2.3.4.1	MSC/Circ.1120	Construction of protected stairways of cargo ships
II-2/9.3.4	MSC/Circ.1120 MSC.1/Circ.1510	Prevention of heat transmission by insulation and structural details for drainage
II-2/9.7.2 and 9.7.5	MSC.1/Circ.1276/Rev.2	Examples of ducts contiguous to enclosed spaces

8 The following comments were provided by the FP CG 1 regarding the consolidated explanatory figures in the annex to document SSE 11/9 (SSE 12/8, paragraph 201):

- .1 illustrations should be updated, especially those concerning heat transmission at intersections, as referred to in MSC/Circ.1120 and MSC.1/Circ.1510; and
- .2 the interpreted SOLAS text should be added to the circular to enhance useability.

9 IACS has proposed updates to the draft consolidated guidance document to reflect the comments in paragraph 8 above. However, noting that the scope of this output is to incorporate "existing" guidance, the updates to the figures are limited to enhancing their visual clarity, without altering their content or interpretation.

10 The shaded text in the annex represents the draft amendments to SOLAS regulation II-2/9 to incorporate the existing guidance text as per the output. The text is identical to that in the annex to document SSE 12/8. Therefore, this new MSC circular should

be finalized when the drafting of SOLAS amendments is concluded. These explanatory figures are not expected to change in the process of development of the amendments to SOLAS, as the purpose is to incorporate "existing" guidance from the current circulars.

### **Proposal**

11 IACS proposes that the existing explanatory figures from MSC circulars be compiled into a new consolidated guidance document, to be finalized once the draft amendments to SOLAS regulation II-2/9 are agreed, incorporating the views expressed in the FP CG 1, as set out in the annex.

### **Action requested of the Sub-Committee**

12 The Sub-Committee is invited to consider the above, the proposal in paragraph 11 and to take action as appropriate.

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ANNEX

EXPLANATORY FIGURES FOR SOLAS REGULATION II-2/9

1 Arrangement of stairways serving two main vertical zones

SOLAS regulation II-2/9.2.2.1 – Main vertical zones and horizontal zones

2.2.1.3.1 If a stairway serves two main vertical zones, the maximum length of one main vertical zone shall be measured from the far side of the main vertical zone stairway enclosure. In this case, all boundaries of the stairway enclosure shall be insulated as main vertical zone bulkheads and access doors leading into the stairway shall be provided from the zone. However, the stairway shall not be included in calculating the size of the main vertical zone if it is treated as its own main vertical zone.\*

\* [Refer to figures in a new MSC circular, proposed to be developed.]

Explanatory figures <sup>1</sup>

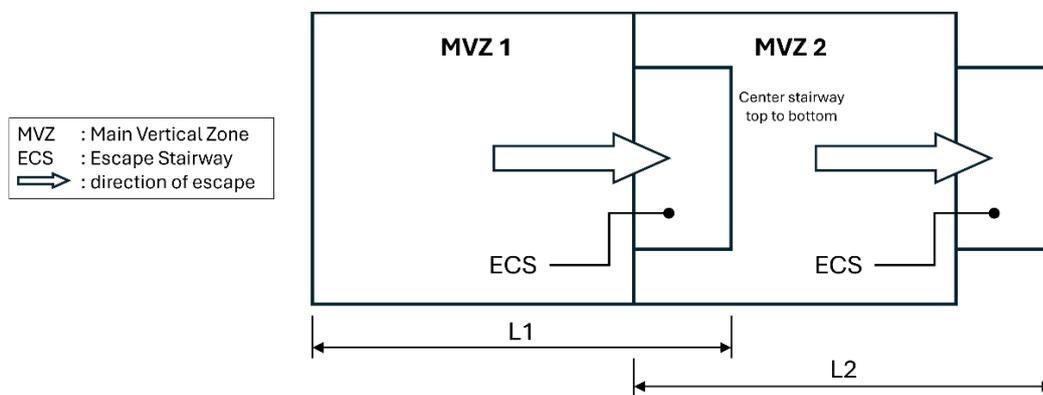


Figure 1.1: ECS serves one MVZ

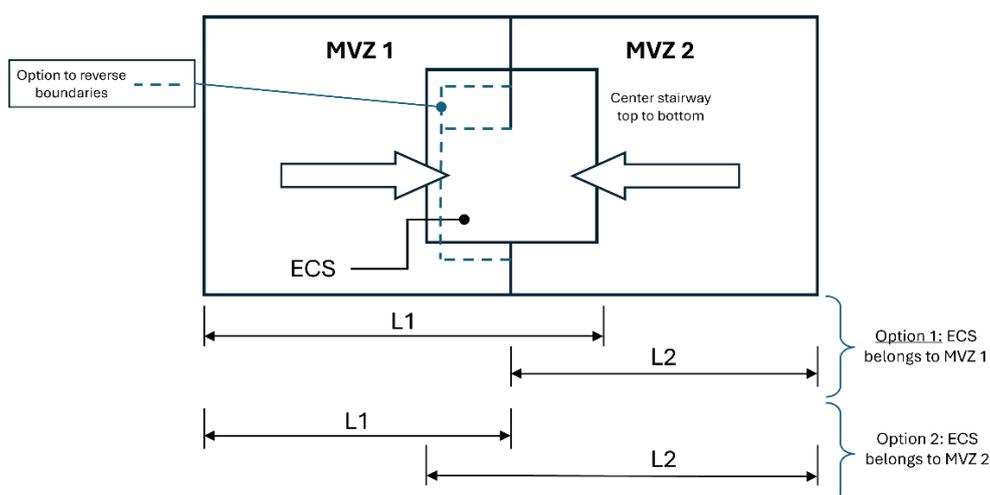


Figure 1.2: ECS serves two MVZ's

<sup>1</sup> Source: Unified interpretations of SOLAS chapter II-2, the FSS Code, the FTP Code and related fire test procedures (MSC/Circ.1120).

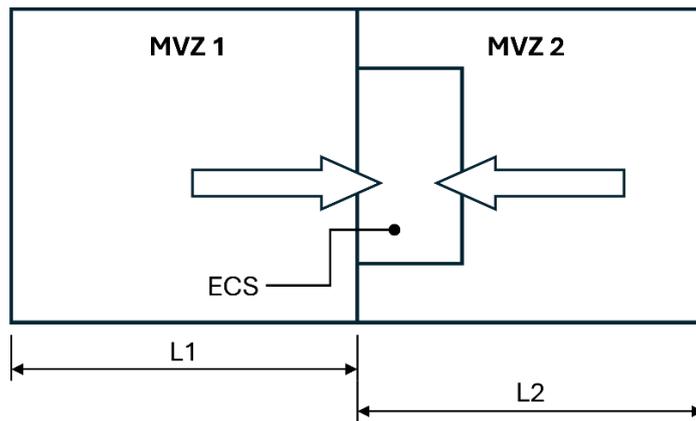


Figure 1.3: ECS serves two MVZs but belongs to MVZ 2

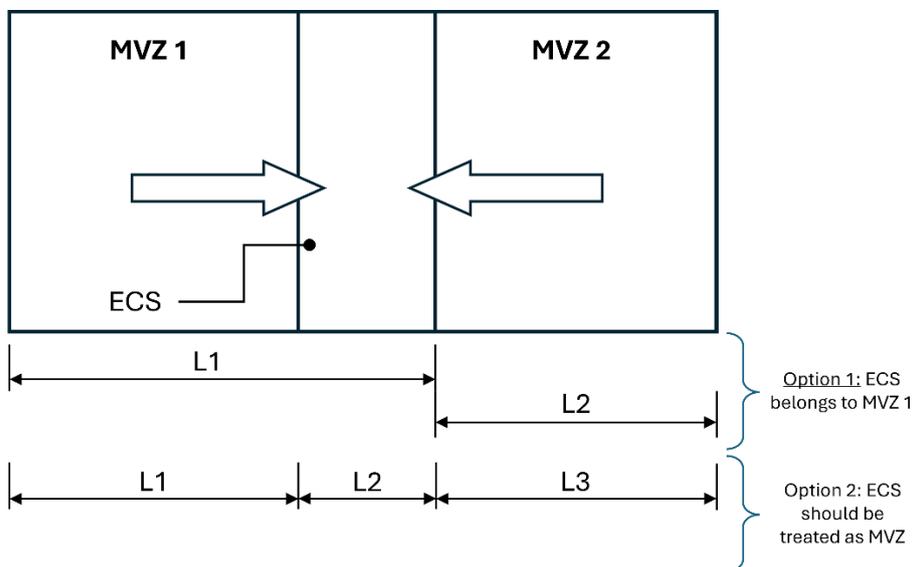


Figure 1.4: ECS serves two MVZs

## 2 Arrangement of and access to isolated pantries in accommodation spaces

### **SOLAS regulation II-2/9.2.2.3 – Fire integrity of bulkheads and decks in ships carrying more than 36 passengers**

#### 9.2.2.3.2.2(9) Sanitary and similar spaces

Communal sanitary facilities, showers, baths, water closets, etc.

Small laundry rooms.

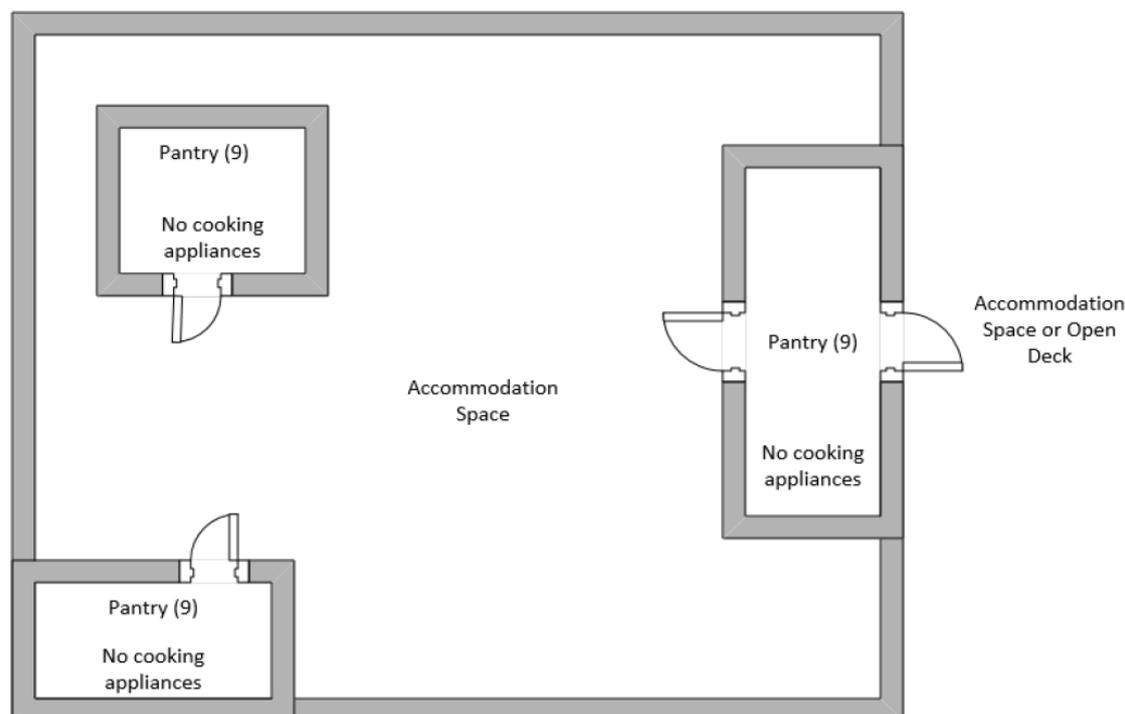
Indoor swimming pool area.

Private sanitary facilities shall be considered a portion of the space in which they are located.

Isolated pantries containing no cooking appliances in accommodation spaces. To be considered in this category, the isolated pantries are to be enclosed\* in an accommodation space and are only accessible from accommodation spaces and/or open deck. These pantries shall not have communicating openings to spaces other than accommodation spaces, such as a category (12), main galley.

\* [Refer to figures in a new MSC circular, proposed to be developed].

**Explanatory figures <sup>2</sup>**



*Figure 2.1: Examples of category 9 "Isolated pantry containing no cooking appliances in accommodation spaces"*

**3 Construction of protected stairways on cargo ships**

***SOLAS regulation II-2/9.2.3.4 – Protection of stairways and lift trunks in accommodation spaces, service spaces and control stations***

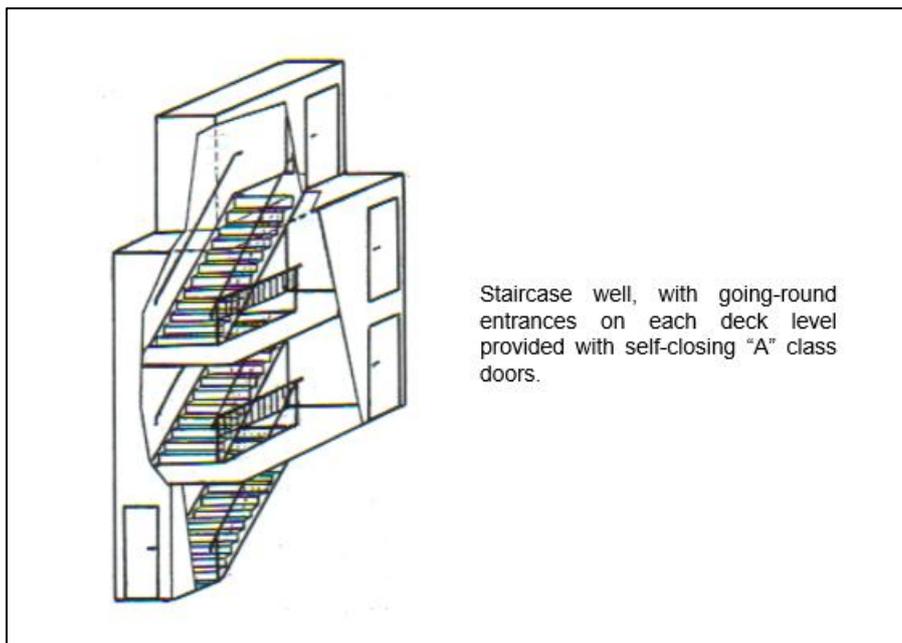
2.3.4.1.1 The required protection of stairways penetrating more than a single deck shall be achieved by:

- .1 a stairway enclosure allowing access from one stair to a superimposed stair within such enclosure, the entrances to which shall consist self-closing "A" class fire doors at each deck level (refer to figure in new MSC circular); or
- .2 a stairway enclosure enclosing the stairs only, in combination with self-closing "A" class fire doors at each deck level and at each end of a stair. No requirements apply to the stairs except that they shall be of steel frame structure or be made of equivalent material (refer to figure in new MSC circular); or
- [.3 stairways that penetrate only one single deck shall be protected, at a minimum, at one level by at least "B-0" class division and self-closing doors.\*

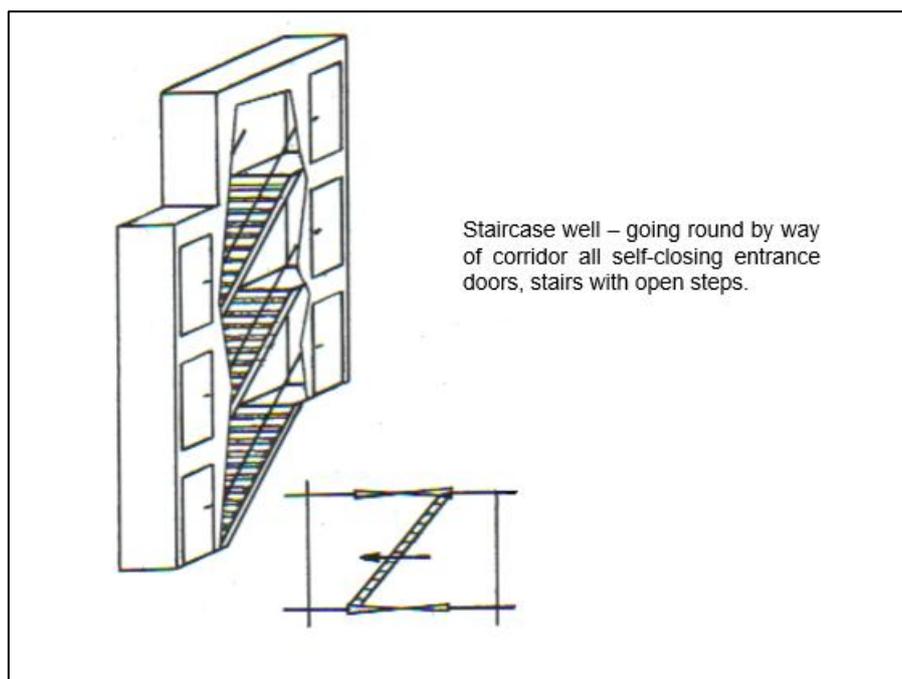
\* (Refer to the figure in a new MSC circular, proposed to be developed)].

<sup>2</sup> Source: *Unified interpretations of SOLAS chapter II-2 (MSC.1/Circ.1634)*.

**Explanatory figures<sup>3</sup>**



*Figure 3.1: SOLAS regulation II-2/9.2.3.4.1.1.1*



*Figure 3.2: SOLAS regulation II-2/9.2.3.4.1.1.2*

<sup>3</sup> Source: *Unified interpretations of SOLAS chapter II-2, the FSS Code, the FTP Code and related fire test procedures* (MSC/Circ.1120).

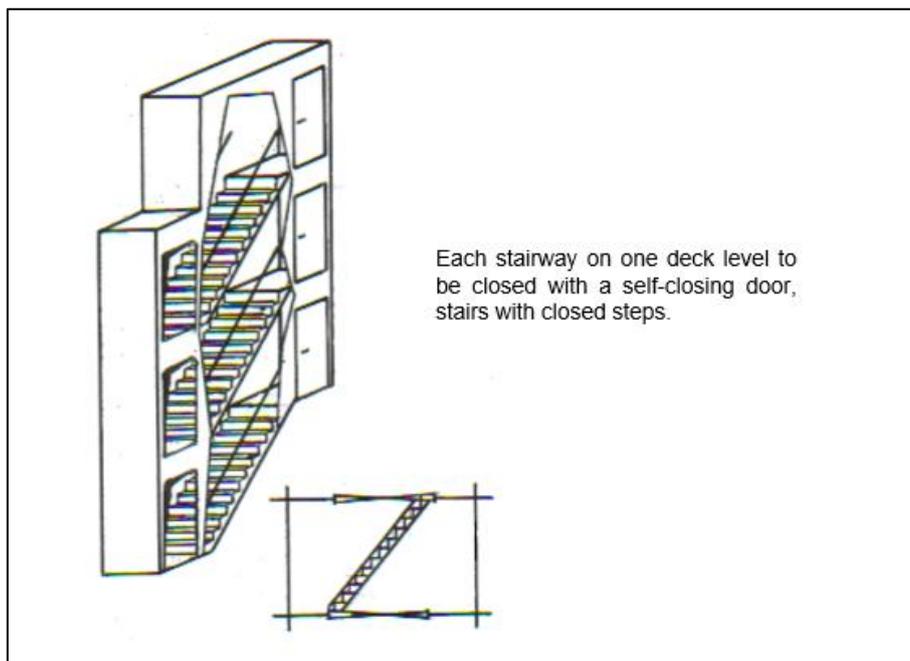


Figure 3.3: SOLAS regulation II-2/9.2.3.4.1.1.3

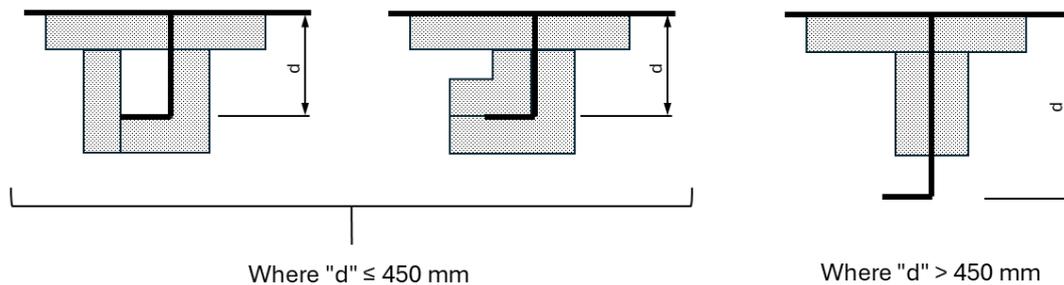
#### 4 Prevention of heat transmission

##### ***SOLAS regulation II-2/9.3 – Penetration in fire-resisting divisions and prevention of heat transmission***

3.4 In approving structural fire protection details, the Administration shall have regard to the risk of heat transmission at intersections and terminal points of required thermal barriers. The insulation of a deck or bulkhead shall be carried past the penetration, intersection or terminal point for a distance of at least 450 mm in the case of steel and aluminium structures. If a space is divided with a deck or a bulkhead of "A" class standard having insulation of different values, the insulation with the higher value shall continue on the deck or bulkhead with the insulation of the lesser value for a distance of at least 450 mm.

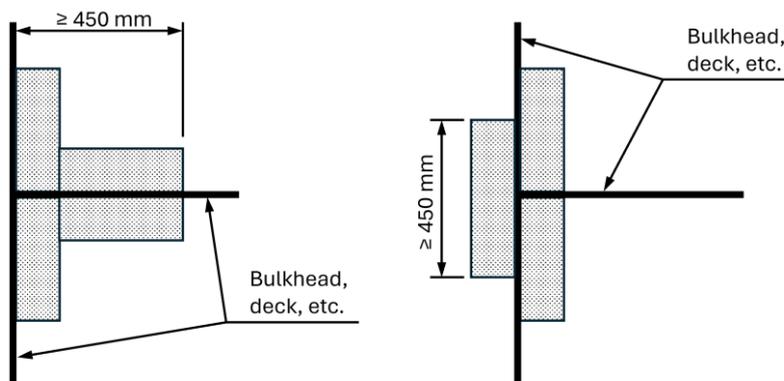
\* [Refer to figures in a new MSC circular, proposed to be developed].

**Explanatory figures 4**



**Note:**  
"d" = depths of stiffener or girder

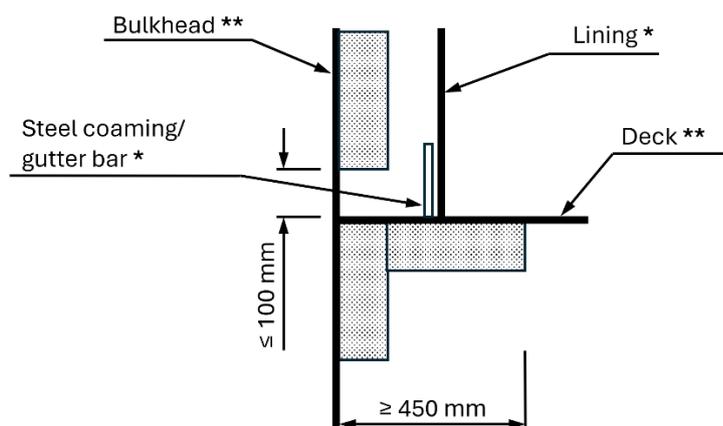
*Figure 4.1: Stiffeners, girders, etc.*



*Figure 4.2: Bulkheads, decks*

**Notes:**

- \* Lining and steel coaming/gutter are for accommodation spaces only
- \*\* For the purpose of figure 3, bulkhead and deck are of steel construction only



*Figure 4.3: Case where lower part of insulation has to be cut for drainage/moisture*

<sup>4</sup> Source: *Unified interpretations of SOLAS chapter II-2, the FSS Code, the FTP Code and related fire test procedures (MSC/Circ.1120) and Amendment to the unified interpretations of SOLAS chapter II-2, the FSS Code, the FTP Code and related fire test procedures (MSC/Circ.1120) (MSC.1/Circ.1510).*

## 5 Ventilation ducts passing through enclosed spaces

### **SOLAS regulation II-2/9.7.2 – Arrangement of ducts**

7.2.2 Ducts provided for the ventilation of machinery spaces of category A, galleys, vehicle spaces, ro-ro spaces or special category spaces shall not pass through accommodation spaces, service spaces, or control stations unless they comply with paragraph 7.2.4 \*.

\* [Refer to figures in a new MSC circular, proposed to be developed].

7.2.3 Ducts provided for the ventilation of accommodation spaces, service spaces or control stations shall not pass through machinery spaces of category A, galleys, vehicle spaces, ro-ro spaces or special category spaces unless they comply with paragraph 7.2.4 \*.

\* [Refer to figures in a new MSC circular, proposed to be developed].

7.2.5 For the purposes of paragraphs 7.2.4.1.4 and 7.2.4.2.2, ducts shall be insulated over their entire cross-sectional external surface. Ducts that are outside but adjacent to the specified space, and share one or more surfaces with it, shall be considered to pass through the specified space, and shall be insulated over the surface they share with the space for a distance of 450 mm past the duct \*.

\* ~~Sketches of such arrangements are contained in the *Unified Interpretations of SOLAS chapter II-2* (MSC.1/Circ.1276).~~ [Refer to figures in a new MSC circular, proposed to be developed].

### **SOLAS regulation II-2/9.7.5 – Exhaust ducts from galley ranges**

#### **7.5.1 Requirements for passenger ships carrying more than 36 passengers**

7.5.1.1 In addition to the requirements in sections 7.1, 7.2 and 7.3, exhaust ducts from galley ranges shall be constructed in accordance with paragraphs 7.2.4.2.1 and 7.2.4.2.2 and insulated to "A-60" class standard throughout accommodation spaces, service spaces, or control stations they pass through. They shall also be fitted with ...

7.5.1.2 Exhaust ducts from ranges for cooking equipment installed on open decks shall conform to paragraph 7.5.1.1, as applicable, when passing through accommodation spaces or spaces containing combustible materials.

**Explanatory figures<sup>5</sup>**

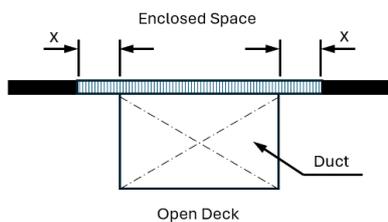


Figure 5.1

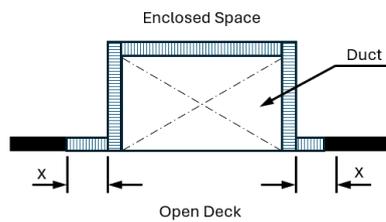


Figure 5.2

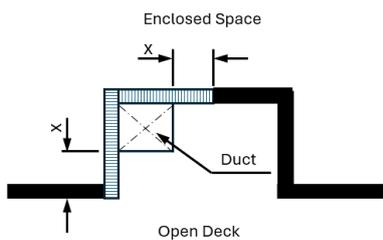
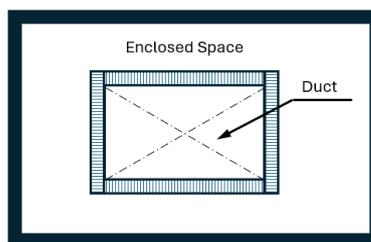


Figure 5.3



Open Deck

Figure 5.4

**Notes:**  
 $x : \geq 450 \text{ mm}$   
 : fire insulation

*Figure 5: Examples of ventilation ducts passing through enclosed spaces*

<sup>5</sup> Source: Revised unified interpretations of SOLAS chapter II-2 (MSC.1/Circ.1276/Rev.2).