

SUB-COMMITTEE ON SHIP SYSTEMS AND
EQUIPMENT
11th session
Agenda item 9

SSE 11/9
21 November 2024
Original: ENGLISH
Pre-session public release:

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

Proposal on a new guidance document

Submitted by IACS

SUMMARY

Executive summary: This document proposes that the 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,
if applicable:* 7

Output: 7.48

Action to be taken: Paragraph 9

Related document: SSE 10/17/1

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 this session.

2 Document SSE 10/17/1 (IACS) pointed out that many of the existing MSC circulars contained explanatory figures which were considered useful to visualize the intent of the interpretations. It was further suggested that the Sub-Committee might 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 This document suggests a content for a draft MSC circular, containing explanatory figures relevant to SOLAS regulation II-2/9.

Discussion

4 The following existing guidance documents contain explanatory sketches intended to enhance the understanding of the relevant unified interpretations of SOLAS regulation II-2/9:

SOLAS reference	MSC circular	Content
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	Examples of ducts contiguous to enclosed spaces

5 A compilation of the existing explanatory figures is provided in the annex.

Draft clarification to the existing explanatory figures

6 SOLAS regulation II-2/9.3.4 reads, as follows:

"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."

7 In the annex, clarifications of the sketches in MSC/Circ.1120, MSC.1/Circ.1510 and MSC.1/Circ.1276 are proposed to reflect the 450 mm distance requirement to prevent heat transmission. The draft clarifications are marked in the form of "clouds" for ease.

Proposal

8 IACS suggests compiling the existing explanatory figures from MSC circulars which provide guidance on SOLAS regulation II-2/9 into a new guidance document, for example, an MSC circular, as set out in the annex.

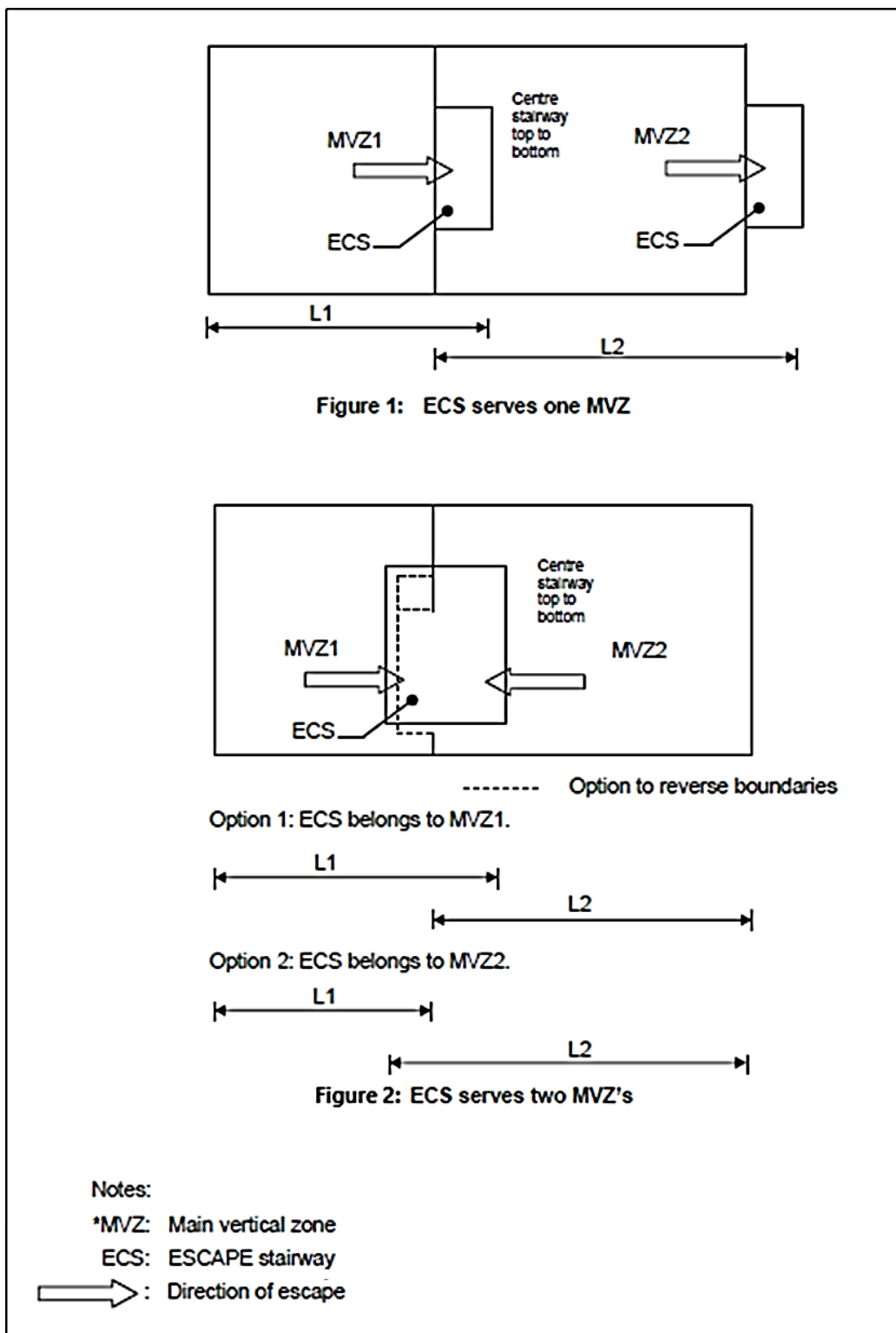
Action requested of the Sub-Committee

9 The Sub-Committee is invited to consider the foregoing, the proposal in paragraph 8, and to take action, as appropriate.

ANNEX*

DRAFT COMPILATION OF EXPLANATORY SKETCHES

Regulation 9.2.2.1 – Main vertical zones and horizontal zones: arrangement of a stairway serving two main vertical zones (Source: MSC/Circ.1120)



* The annex is provided in English only.

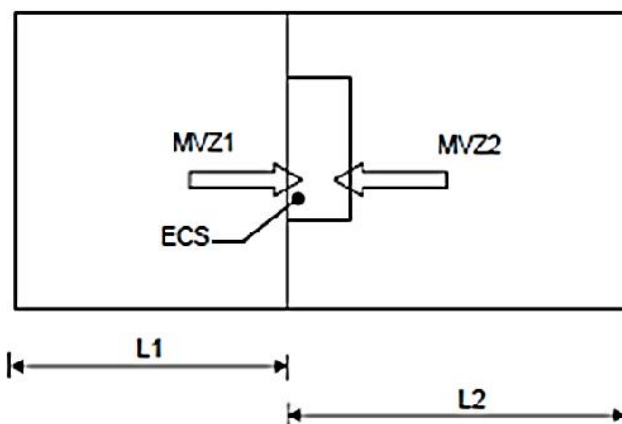
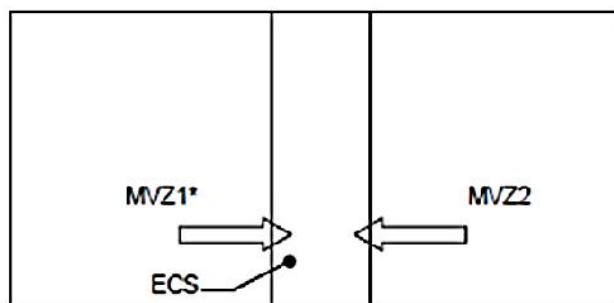
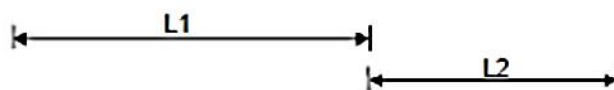


Figure 3: ECS serves two MVZ's (ECS belongs to MVZ2)



Option 1: ECS belongs to MVZ1.



Option 2: ECS should be treated as MVZ.

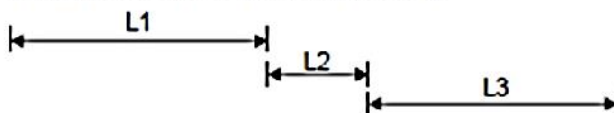


Figure 4: ECS serves two MVZ's

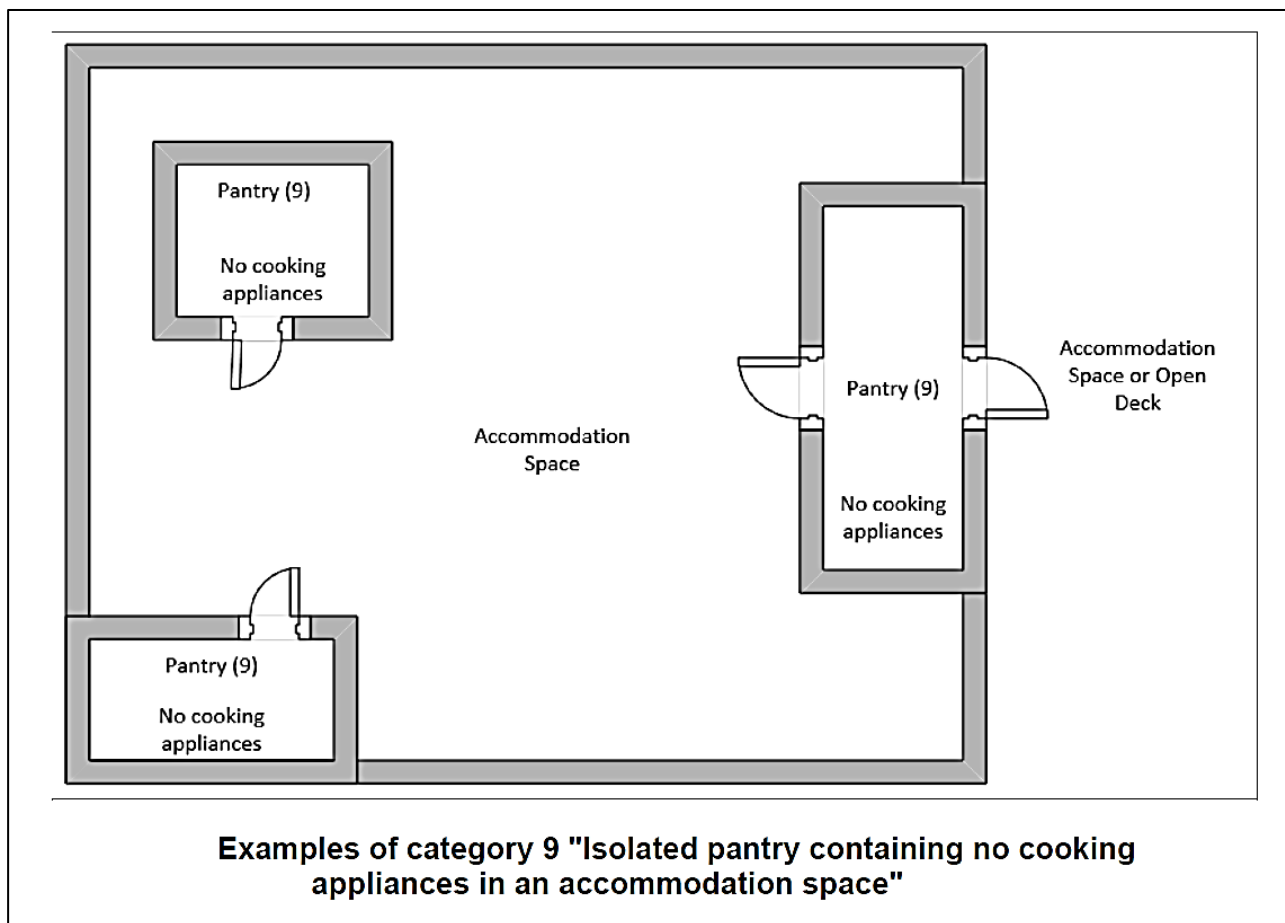
Notes:

*MVZ: Main vertical zone

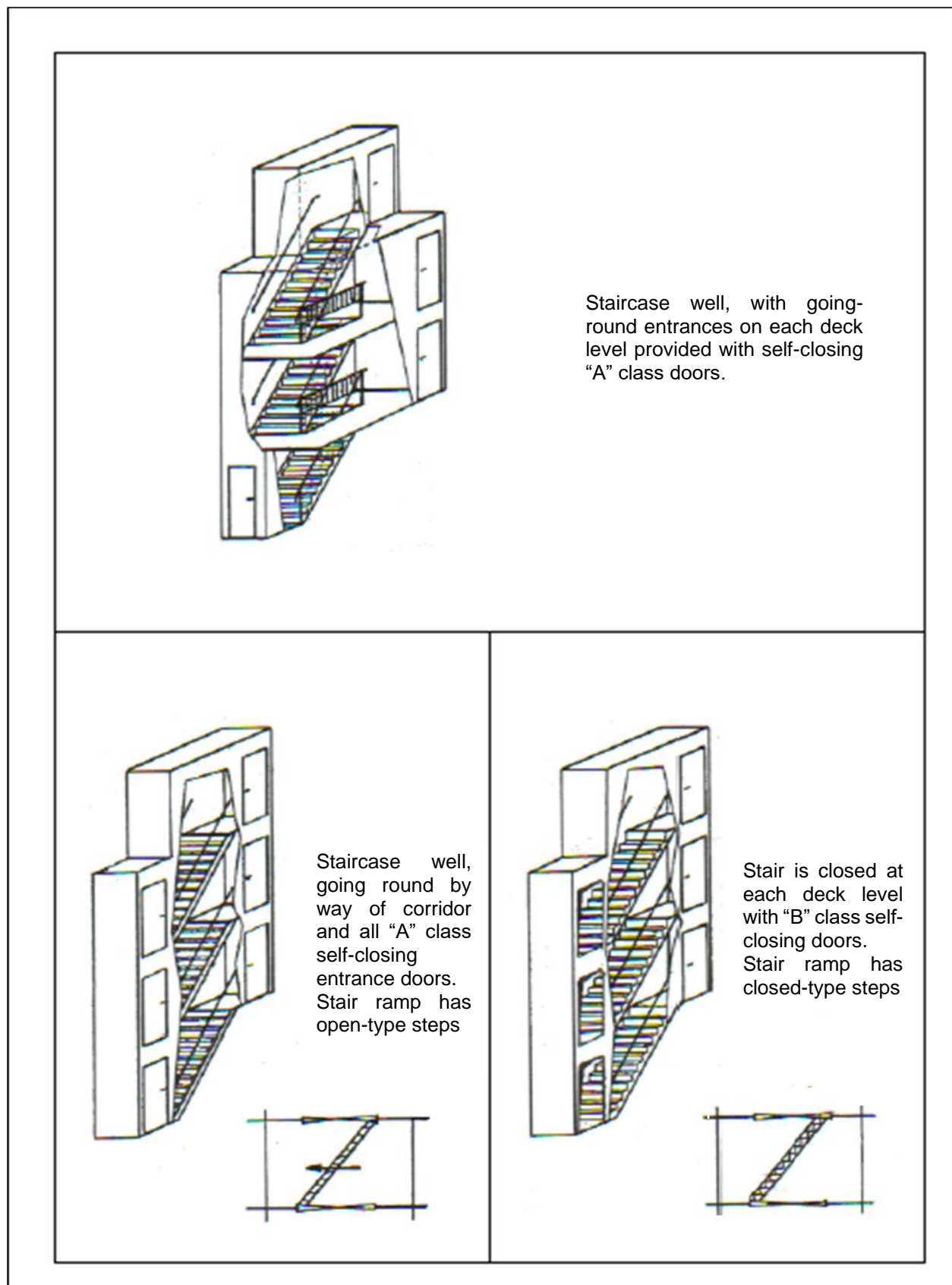
ECS: ESCAPE stairway

➡ : Direction of escape

Regulation 9.2.2.3.2.2(9) – Pantries: arrangement and access to isolated pantries enclosed in an accommodation space (Source: MSC.1/Circ.1634)



Regulation 9.2.3.4.1 – Construction of protected stairways on cargo ships
(Source: MSC/Circ.1120)



Regulation 9.3.4 – Prevention of heat transmission at intersections by insulation and structural detail for drainage (Source: MSC/Circ.1120)

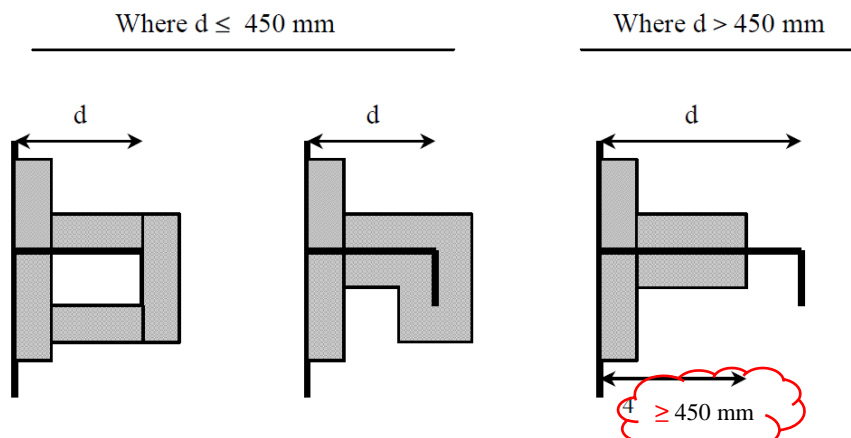


Figure 1

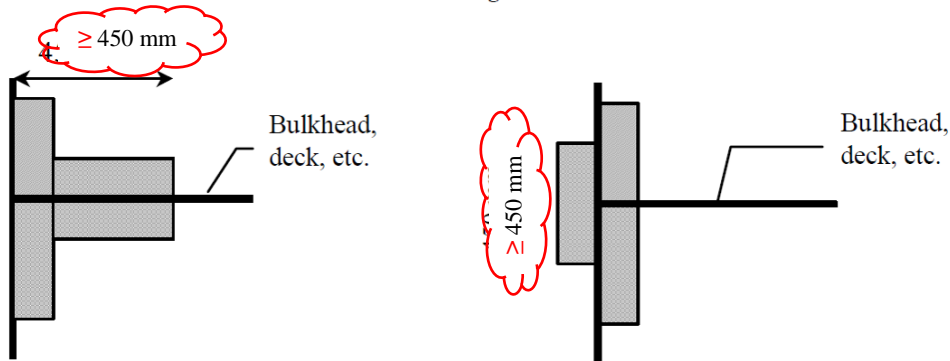


Figure 2

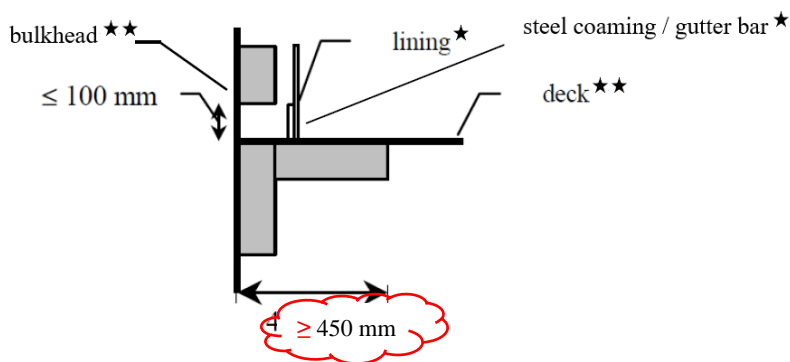


Figure 3: in case lower part of insulation has to be cut for drainage.

Notes:

d = depth of stiffener on girder

★ Lining and steel coaming/gutter are for accommodation spaces only.

★★ For the purpose of figure 3, bulkhead and deck are of steel construction only.

Regulation 9.7.2.2, 9.7.2.3, 9.7.2.5 and 9.7.5.1 – Fire insulation requirements of ducts provided for the ventilation of machinery spaces of category A, galleys, vehicle spaces, ro-ro spaces or special category spaces, passing through accommodation spaces, service spaces, or control stations, and vice versa
(Source: MSC.1/Circ.1276/Rev.1)

