

SC64 Fire dampers in ventilation ducts

(1985)
(Rev.1
Nov 2005)
(Rev.2
June 2021)

Interpretation of SOLAS regulation II-2/9.7.3.1 as amended by resolution MSC.365(93)

SOLAS regulation II-2/9.7.3.1 reads as follows

9.7.3.1 Ducts passing through "A" class divisions shall meet the following requirements:

.1 where a thin plated duct with a free cross sectional area equal to, or less than, 0.02 m² passes through "A" class divisions, the opening shall be fitted with a steel sheet sleeve having a thickness of at least 3 mm and a length of at least 200 mm, divided preferably into 100 mm on each side of a bulkhead or, in the case of a deck, wholly laid on the lower side of the decks penetrated;

.2 where ventilation ducts with a free cross-sectional area exceeding 0.02 m², but not more than 0.075 m², pass through "A" class divisions, the openings shall be lined with steel sheet sleeves. The ducts and sleeves shall have a thickness of at least 3 mm and a length of at least 900 mm. When passing through bulkheads, this length shall be divided preferably into 450 mm on each side of the bulkhead. These ducts, or sleeves lining such ducts, shall be provided with fire insulation. The insulation shall have at least the same fire integrity as the division through which the duct passes; and

.3 automatic fire dampers shall be fitted in all ducts with a free cross-sectional area exceeding 0.075 m² that pass through "A" class divisions. Each damper shall be fitted close to the division penetrated and the duct between the damper and the division penetrated shall be constructed of steel in accordance with paragraphs 7.2.4.1.1 and 7.2.4.1.2. The fire damper shall operate automatically, but shall also be capable of being closed manually from both sides of the division. The damper shall be fitted with a visible indicator which shows the operating position of the damper. Fire dampers are not required, however, where ducts pass through spaces surrounded by "A" class divisions, without serving those spaces, provided those ducts have the same fire integrity as the divisions which they penetrate. A duct of cross-sectional area exceeding 0.075 m² shall not be divided into smaller ducts at the penetration of an "A" class division and then recombined into the original duct once through the division to avoid installing the damper required by this provision.

Interpretation

Ducts or pipes with free sectional area of 0.075 m² or less need to be fitted with fire damper at their passage through Class "A" divisions in those cases indicated in Regulations 9.7.2.2 and 9.7.2.3. The fire damper can be omitted if the duct is arranged in compliance with the requirements of 9.7.2.4.2.1 and 9.7.2.4.2.2.

Note:

1. This UI is to be uniformly implemented by IACS Societies for ventilation ducts fitted on or after 1 July 2022.

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