

# SC99 Flexible bellows of combustible materials

(1994)  
(Rev.1  
Nov 2005)  
(Rev.2  
Aug 2014)

## (SOLAS Reg. II-2/9.7.1.1)

7.1.1 Ventilation ducts shall be of steel or equivalent material. However, short ducts, not generally exceeding 2 m in length and with a free cross-sectional area\* not exceeding 0.02 m<sup>2</sup>, need not be steel or equivalent, subject to the following conditions:

\* The term "free cross-sectional area" means, even in the case of a pre-insulated duct, the area calculated on the basis of the inner diameter of the duct.

.1 subject to paragraph 7.1.1.2 the ducts are made of any material which has low flame-spread characteristics;

.2 on ships constructed on or after 1 July 2010, the ducts shall be made of heat resisting non-combustible material, which may be faced internally and externally with membranes having low flame-spread characteristics and, in each case, a calorific value\*\* not exceeding 45 MJ/m<sup>2</sup> of their surface area for the thickness used;

\*\* Refer to the recommendations published by the International Organization for Standardization, in particular publication ISO 1716:2002, Determination of calorific potential.

.3 the ducts are only used at the end of the ventilation device; and

.4 the ducts are not situated less than 600 mm, measured along the duct, from an opening in an "A" or "B" class division including continuous "B" class ceiling.

### Interpretation

A short length, not exceeding 600 mm, of flexible bellows constructed of combustible material may be used for connecting fans to the ducting in air conditioning rooms.

---

### Notes:

1. Rev.2 of this UI shall be uniformly implemented by IACS Societies on ships contracted for construction on or after 1 January 2015.
2. The "contracted for construction" date means the date on which the contract to build the vessel is signed between the prospective owner and the shipbuilder. For further details regarding the date of "contract for construction", refer to IACS Procedural Requirement (PR) No. 29.

End of Document
--------------------