

EGOLF RECOMMENDATION 008-2016

Subject of Agreement	Field of application – suspension of ducts
Related test standard	EN 1366-1
Date of issue	October 2016
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Keywords (max. 20)	

Problem

Concerning the distance between the suspension device and the duct/insulation joints EN 1366-1 § 13.6.4 provides the following:

13.6.4 The maximum tested distance between the suspension device and the closest innermost duct joint on the underside (inside the furnace, when testing horizontal duct A) shall not be exceeded with a tolerance of 100 mm. The maximum tested distance between the suspension device and the closest joint of the outermost layer of insulation material on the underside (outside the furnace, when testing horizontal duct B) shall not be exceeded with a tolerance of 100 mm.

Problem

Summary of analysis of the problem after discussion in the TC2 WG, dealing with this item:

- For duct A (fire outside duct) the max. distance between suspension and innermost duct joint is defined.
- For duct B (fire inside duct) the max. distance between suspension and outermost insulation joint is defined.
- The classification standard EN 13501-3 allows for classification in one direction $i \rightarrow o$ (duct B) or $o \rightarrow i$ (duct A) or in both directions $i \leftrightarrow o$ (ducts A and B).
- For a classification in both directions the max. distances can be defined on the text above. For a classification in only one direction, only one test (duct A or B) is available and the standard does not provide information on the following:
 - Duct A: max. distance between suspension and outermost insulation joint;
 - Duct B: max. distance between suspension and innermost duct joint.

Recommendation

After discussion, the conclusion is that, in EN 1366-1 (2014) it has not been taken into account that the classification standard allows classification in only one direction, but that it is not correct to have no limits for the max. distance for the outermost insulation joint for duct A, nor for the innermost duct joint for duct B.

Required classification	Tests required	Max. distance to suspension	
		Innermost duct joint	Outermost insulation joint
$o \rightarrow i$	Duct A	Inside furnace duct A	Outside furnace duct A
$i \rightarrow o$	Duct B	Inside furnace duct B	Outside furnace duct B
$i \leftrightarrow o$	Ducts A and B	Inside furnace duct A	Outside furnace duct B