

EGOLF AGREEMENT 019-2016

Subject of Agreement	testing flexible air ducts & PVC/PP plastic ducts to protect electrical wires
Related test standard	EN 13823
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Keywords (max. 20)	flexible, air, duct, plastic, electrical, wing, cover, linear

Problem 1:

Customers (producers of flexible air ducts) require classification according to EN13501-1. Flexible air ducts are made of multi-layer aluminium and polyester foil, strengthened with high tension hard steel spring wire. These ducts can also be insulated using mineral wool (glass wool).

Examples of flexible air ducts are shown here:

Non-insulated version



Insulated version



There is no product standard regarding such products and no harmonised testing method.

Problem 2

Several doubts have been raised about the mounting and fixing of PP/PVC plastic ducts to protect electrical wires used as construction material. No figures or schema are available where an explanation is laid down as to how to perform the test on the SBI. In this picture an example of these plastic ducts is found.



Recommendation

Ducts have to be tested with the smallest and maximum diameter (not more than 200 mm) and shall be tightly placed next to each other and hung from a calcium-silicate substrate board. Ducts shall fully cover short and long wings of the SBI test specimen.

This PVC/PP plastic duct protecting electrical wires is not considered as linear product of EN 13501 clause 10.

EGOLF TC1 concluded that test experience on flexible air ducts is not relevant