Saint-Gobain Isover SA
Les Miroris
18 Avenue d'Alsace
92096 La Defense CEDEX
France

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Assessment of use of double insulation layer solution

Saint-Gobain Isover SA has requested DBI – Danish Institute of Fire and Security Technology to make a fire technical assessment of the use of a double layer insulation solutions for circular steel ducts.

Fire technical evaluation

It is DBI's evaluation that a double layer solution will have an improved fire resistance performance compared to a single layer solution because the double layer gives an improved protection of the insulation joints.

A double layer solution will have a wired net inside the insulation (the wired net from the inner layer) this layer lies perpendicular to the heat transmission and will there for not contribute to an increased transport of heat.

It is the opinion of DBI that a double insulation layer solution can be used for wired mats installed around circular duct as described DBI assessment PH13234 and PH13235 and any later supplementary assessments increasing the field of application for PH13234 and PH13235. On condition that:

- The total thickness of the double layer is equal to or larger than the thickness of the single layer required in PH13234 and PH13235.
- A distance of minimum 200 mm is used between the joints in the two layers.

Remarks

This assessment is considered a supplementary assessment to PH13234 and PH13235 and any later supplementary assessments increasing the field of application for PH13234 and PH13235.

This assessment should only be used in relation to national classification.

Danish Institute of Fire and Security Technology

Trine Dalsgaard Jensen
M.Sc. (Eng.)

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Anders Drustrup
M.Sc. (Eng.)