



Substrate Preparation for Suspended Ceilings – Air tightness

2013/1

General Requirements for the base (ceiling / wall)

For the adhesion of BASWaphon systems the base must fulfil the following requirements:

1. It must be a suspended system
2. Must conform to the required final form
3. Must be stable
4. Adhesive strength $> 250 \text{ N/m}^2$ (25 kg/m^2)
5. Must be airtight
6. Prevention of dew point must be guaranteed

Substrate must be airtight

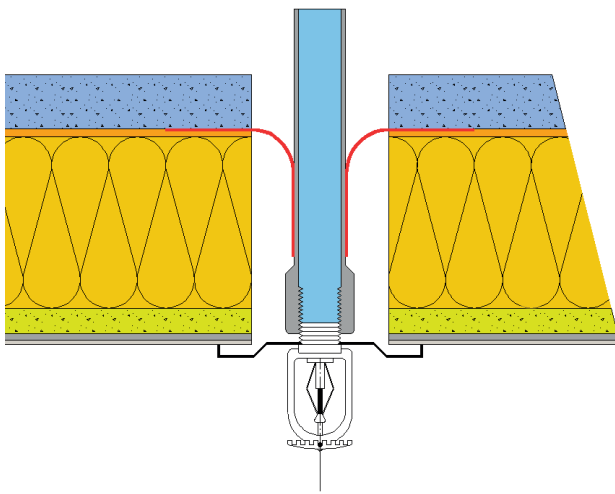
All panel joints in suspended ceilings must be grouted and reinforced, so that an even, stable and sealed substrate is formed (air tightness!)

All penetrations to the installation and gaps in the connections to the components are to be sealed with vapour barrier adhesive tape before the acoustic panels are glued. This sealing prevents air circulation through the open-pored acoustic system (prevents partial dust deposits in the final coating).

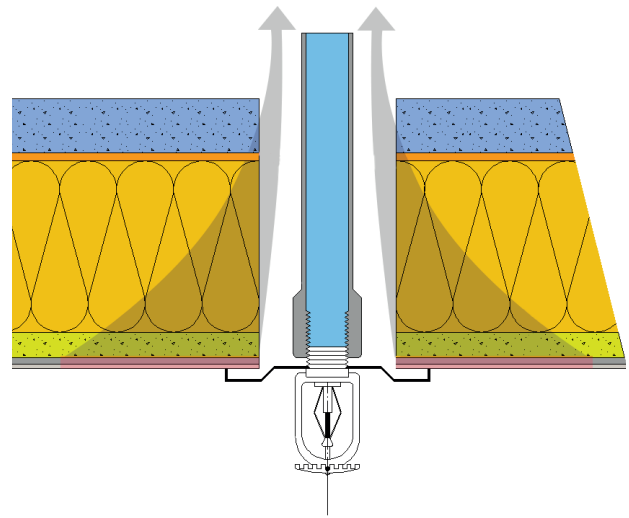
The fine pored BASWaphon surfaces act as filters if there are changes in pressure due their permeability. Over the years fine dust particles can accumulate in the pores and thus make the surface to slightly grey. Under normal conditions this greying process is very fine and regular and is hardly recognisable to the eye. This ageing also has no influence on the acoustic performance of the system.

Since the BASWaphon acoustic systems are exclusively applied to larger substrates, flows of air through the system can be basically excluded. Ageing and greying thus occur evenly.

Example installation of a sprinkler



Airtight (vapour barrier adhesive tape – red)



permeable to air

Ageing process in the case of air flows

If connections of suspended substrates are not airtight, the air circulates through the open-pored acoustic system. The dust transported by this flow of air is filtered in the end coatings and during the lifetime of the installation, this leads to heavy localised deposits (see photos).



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