

ACOUSTICs PREMIUM/DOT

AIR-CONDITIONED CEILING WITH ADMONTER ACOUSTIC'S

IN GENERAL

The Admonter „ACOUSTICs Premium“ can be combined with commercially available ceiling air conditioning systems in order to regulate the room climate. When comparing this combination with Acoustics Premium sole use, there might be slightly more joint formation due to higher varying differences in humidity of the wood between summer and winter. The achieved cooling power mainly depends on the air conditioning system used. For dimension and installation of the air conditioning unit the manufacturer's instructions need to be followed.

MECHANICS / INSTALLATION

- Installation according to the current „Installation Instructions ACOUSTICs“
- Alternatively: mount the profile clamps directly onto the air condition profiles if applicable
- All pipework systems must not pressurise the Admonter ACOUSTICs Premium at any stage.

CLIMATE TECHNOLOGY

- **Minimum flow temperature (=heat sink temperature) 5K (°C) above dew point of the room climate*)**
- Active regulation of the flow temperature of the cooling device (not only the max. power of turning on and off!)
- Automatic regulation (based on the room climate) of the flow temperature; the sole passive dew switch, attached on the flow temperature pipe is not sufficient.
- It is recommended to install one Fidbox per cooling circuit between the ceiling air conditioner and the acoustic element. In this way the different climates are documented, which protects the installer of the Admonter Acoustics.
- Fidbox: Side with adhesive strip = up side (side with air conditioning system)
- Disregarding this climate limit causes too much humidity, which results in defects of the ACOUSTICs elements.
- *) subject to minimum measuring precision +/- 1K as well as +/- 5% rH

Calculation Models (Basis: h,x-Diagram):

28°C room temperature; 55 % rel. air humidity --> require 23°C min. heat sink temperature
30°C room temperature; 60 % rel. air humidity --> require 26°C min. heat sink temperature