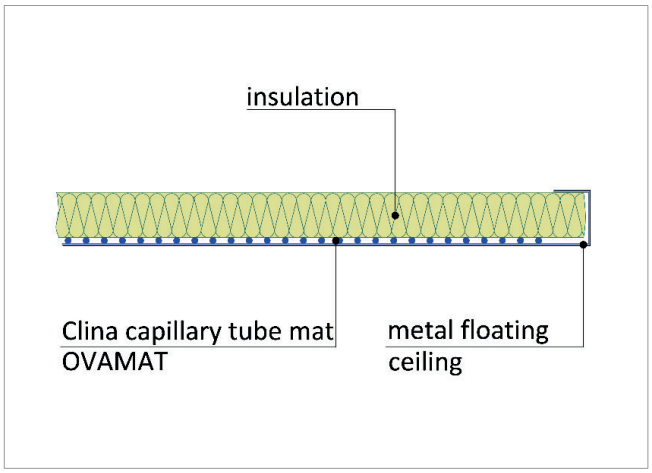
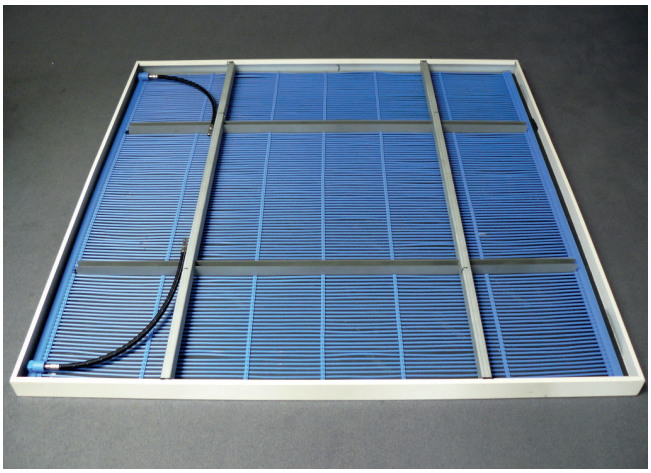
METAL FLOATING CEILING

with capillary tube mat OVAMAT U10 / UM 10 / G 10 / GM 10

System data sheet





CLINA - BETTER HEATING AND COOLING

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DESCRIPTION

- metal canopies are usually made of sheet steel or aluminum, **with or without perforations**. Metal canopies from any manufacturer can be used
- the metal canopies are suspended freely in the room from the ceiling, this design has an effect on the sound absorption coefficient
- in the case of perforated metal canopies, which are usually covered on the inside with an acoustic fleece, the capillary tube mat is fixed on the fleece, mostly with adhesive
- in the case of unperforated metal canopies the capillary tube mat is fixed directly on the metal
- the connections of the capillary tube mats or metal canopies to each other and the connection to the supply and return lines/ceiling sub-distributors are made on site usually via a proven push-lock system with flexible hoses.
- the leak test according to the factory guideline is carried out after the installation of the canopies

ADVANTAGES

OPTIMIZED ROOM COMFORT

Perforated metal canopies noticeably and efficiently improve the room comfort both thermally and acoustically.

HIGH PERFORMANCE

The open design allows more convection and the specially developed capillary tube mat with an oval mat distributor pipe results in a larger contact surface.

GOOD ACOUSTICS - PERFORATED VERSION

The capillary tube mat does not require any heat-conducting profiles that would cover the perforation and thus reflect the sound. The sound absorption values of the metal canopies specified by the manufacturers are maintained without restriction.

EASY RETROFITTING

Clina capillary tube mats turn any metal floating ceiling into a heating and cooling floating ceiling, quickly and economically.

MAXIMUM DEGREE OF ACTIVATION

The dimensions of the capillary tube mat are individually adapted to the size of the metal canopies.

TECHNICAL DATA

HEATING CAPACITY
according to DIN EN 14037/5

depending on the design

COOLING CAPACITY
according to DIN EN 14240

depending on the design

ACOUSTICS
(applies only to perforated version)

weighted sound absorption coefficient as specified by the manufacturer of the metal canopies

INSTALLATION HEIGHT: depending on kind of canopy

SYSTEM WEIGHT: 1 kg/m² plus canopy

Component	Material	Dimensions	Other
CAPILLARY TUBE MAT	polypropylene (PP-R), recyclable	**oval** mat distributor pipe: 20 x 12 x 2,0 mm capillary tube: 3,4 x 0,55 mm distance of the capillaries: 10 mm length & width: 10-20 mm smaller than the inner dimension of the canopy	designation: OVAMAT U 10/UM 10/G 10/GM 10 weight (incl. water): approx. 1 kg/m² pressure stage: PN 10
METAL CANOPY	sheet steel, aluminium	as specified by the manufacturer	all standard metal canopies can be used
INSULATION (if required)	mineral wool or equivalent		preferably shrink-wrapped in foil
PUSH-LOCK CONNECTION	polypropylene (PP-R), recyclable brass, partially nickel-plated	push-lock system: 10 mm	O-ring sealing
CONNECTING HOSE	inside: rubber (EPDM) outside: high pressure nylon fabric connector: nickel-plated brass	lengths: 500/800/1200/5000 mm diameter hose: DN 10 outside diameter connector: 10 mm	flexible, pressure stage: PN 10 push-lock system
SUPPLY AND RETURN LINES	polypropylene (PP-R), recyclable	depending on room size	can be delivered prefabricated

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