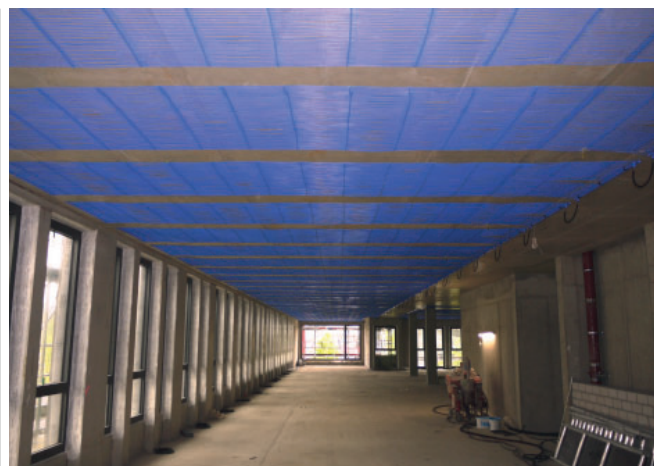
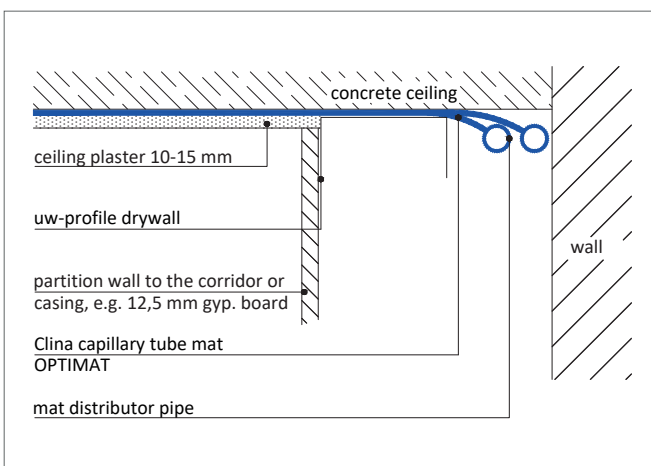


# PLASTER ON CONCRETE - CEILING

with capillary tube mat OPTIMAT SB 20.00



System data sheet



CLINA - BETTER HEATING AND COOLING

# PLASTER ON CONCRETE - CEILING

with capillary tube mat OPTIMAT SB 20.00



System data sheet

## DESCRIPTION

- the capillary tube mats are directly plastered underneath a concrete ceiling and can be individually adjusted in width at the construction site
- the capillary tube mats are connected to each other by heating element socket welding
- they are arranged axially or over the entire surface and, depending on the nature of the substrate, are fastened to the ceiling either with Clina-OptiFix or double-sided adhesive tape (for load-bearing substrates), Knauf plaster pins or plaster support grids; alternatively, the capillary tube mats can be pressed into the damp plaster
- the leak test according to the factory guidelines takes place before plastering, the test pressure is maintained during plastering
- the temperature can be regulated room-by-room

## ADVANTAGES

### LOW INSTALLATION HEIGHT

Complete embedding is achieved with a plaster layer thickness of **10-15 mm**, whereby mat distributor pipes and supply lines are accommodated in a slot, in a casing at the front of the room or in the suspended ceiling of the corridor. The void of the suspended ceiling can be used for further installations.

### EASY RETROFITTING

With this system, every concrete ceiling can be retrofitted quickly and inexpensively as a heating and cooling ceiling.

### BEATS COMPONENT ACTIVATION

significantly higher dynamics, performance and surface quality

### HIGH PERFORMANCE

The installation of the capillary tube mat below the concrete ceiling enables a maximum degree of activation and thus a very high performance.

## TECHNICAL DATA



**HEATING CAPACITY**  
according to DIN EN 14037/5

**105,3 W/m<sup>2</sup>** (MP 75)  
ΔT = 15 K, active mat surface



**COOLING CAPACITY**  
according to DIN EN 14240

**90,3 W/m<sup>2</sup>** (MP 75)  
ΔT = 10 K, active mat surface



**ACOUSTICS**

weighted sound absorption coefficient according to plaster manufacturer's specifications

**INSTALLATION HEIGHT: 10-15 mm**  
(without mat distributor pipes and supply lines)

**SYSTEM WEIGHT** (filled with water): **750 g/m<sup>2</sup>** plus plaster

Component	Material	Dimensions	Other
<b>CAPILLARY TUBE MAT</b>	polypropylene (PP), recyclable	mat distributor pipe: 20 x 2,0 mm capillary tube mat: 4,3 x 0,8 mm distance of the capillary tubes: 20 mm length: 600-6000 mm width: 150-1000 mm	description: OPTIMAT SB 20.00 weight (incl. water): 750 g/m <sup>2</sup> open mat distributor pipes pressure stage: 10 PN
<b>PLASTER</b>	gypsum, lime, cement or clay	10-15 mm layer thickness	commercially available plasters can be used
<b>SUPPLY AND RETURN LINES</b>	polypropylene (PP), recyclable	depending on the room size	connection alternating according to Tichelmann principle

## CONTACT

Clina Heiz- und Kühlelemente GmbH  
Eichhorster Weg 80 | 13435 Berlin

Fon: + 49 30 402054 – 0  
Fax: + 49 30 402054 – 19

www.clina.de  
info@clina.de