PLASTER ON GYPSUM BOARD - CEILING

with capillary tube mat OPTIMAT SB 20.00

System data sheet

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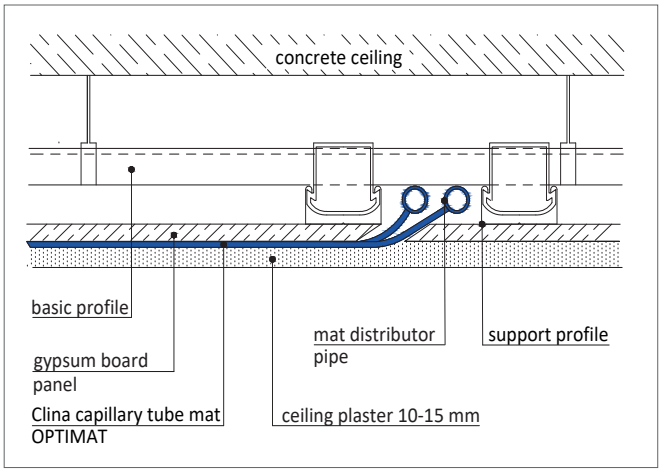

CLINA - BETTER HEATING AND COOLING

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DESCRIPTION

- the capillary tube mats are plastered underneath a suspended gypsum board 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
- easy fixation on gypsum board
- the mat distributor pipes and supply lines are accommodated in the hollow space of the ceiling
- 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 the mat distributor pipes and supply lines are accommodated in the ceiling void. The void of the suspended ceiling can be used for further installations.

EASY RETROFITTING

With this system, every 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 gypsum board 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/m² (MP 75)
ΔT = 15 K, active mat surface

COOLING CAPACITY
according to DIN EN 14240

90,6 W/m² (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/m²** plus gypsum board + plaster

Component	Material	Dimensions	Other
CAPILLARY TUBE MAT	polypropylene (PP-R), 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/m² open mat distributor pipes pressure stage: 10 PN
GYPSUM BOARD CEILING	gypsum board standard	gypsum board: 2,5 mm suspension height: min. 150 mm	centre distance of the substructure acc. to load class 0,30 < p ≤ 0,50 kN/m²
PLASTER	gypsum, lime, cement or clay	10-15 mm layer thickness	commercially available plasters can be used
SUPPLY AND RETURN LINES	polypropylene (PP-R), recyclable	depending on the room size	connection alternating according to Tichelmann principle

CONTACT

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