

OPTIPANEL 15 (UNPERFORATED) - CEILING

with integrated capillary tube mat OPTIMAT GB 15



System data sheet



CLINA - BETTER HEATING AND COOLING

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DESCRIPTION	ADVANTAGES
<ul style="list-style-type: none"> parallel slots are milled at intervals of 15 mm into unperforated 12,5 mm gypsum board panels, Clina capillary tube mats are inserted and a cover paper is glued on on site, the OPTIPANEL 15 are screwed at right angles to the profiles of the substructure (axis dimension of fine grid ceiling 500 mm) ; the screws are screwed in through holes drilled in the factory the hydraulic connection to the supply and return lines/ ceiling sub-distributors is made using a proven push-lock system with flexible hoses in the cavity of the ceiling pipes and sub-distributors are located in the cavity of the ceiling the leak test according to the factory guidelines is carried out before the filling work 	<p>HIGH DEGREE OF PREFABRICATION Quality and performance assurance through factory prefabrication.</p> <p>EASY RETROFITTING Can be screwed onto an existing substructure. The hydraulic connection is located in the cavity of the ceiling.</p> <p>QUICK AND EASY INSTALLATION The system can be installed completely in the drywall works, which insures that everything runs smoothly on the construction site.</p>

TECHNICAL DATA



HEATING CAPACITY (ceiling)
according to DIN EN 14037/5

91,0 W/m²
ΔT = 15 K, active mat surface

77,3 W/m²
ΔT = 15 K, total panel surface



COOLING CAPACITY (ceiling)
according to DIN EN 14240

74,4 W/m²
ΔT = 10 K, active mat surface

63,2 W/m²
ΔT = 10 K, total panel surface



ACOUSTICS (ceiling)
(only applies to perforated version)

perforated version see
OPTIPANEL 18

INSTALLATION HEIGHT: depending on kind of substructure plus **12,5 mm** OPTIPANEL 15

SYSTEM WEIGHT OPTIPANEL 15 (filled with water): **11 kg/m²** plus substructure + insulation

Component	Material	Dimensions	Other
CAPILLARY TUBE MAT	polypropylene (PP-R), recyclable	mat distributor pipe: 20 x 2,0 mm capillary tube: 4,3 x 0,8 mm distance of the capillaries: 15 mm	description: OPTIMAT GB 15 push-lock connection: 10 mm angular position: 0° pressure stage: PN 10
GYPSUM BOARD PANEL	gypsum, cardboard	length: 2.000 mm width: 625 mm/1.250 mm panel thickness: 12,5 mm	
INSULATION	mineral wool or equivalent	height: 30 mm	preferably welded in film
PUSH-LOCK CONNECTION	polypropylene (PP-R), recyclable brass, partially nickel-plated	push-lock system: 10 mm	lying flat on the back of the panel
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 brass connector on both sides push-lock system
SUPPLY AND RETURN LINES	polypropylene (PP), recyclable	depending on room size	

CONTACT

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