

## OPTIPANEL 15 (UNPERFORATED) - WALL

with integrated capillary tube mat OPTIMAT GB 15



System data sheet



CLINA - BETTER HEATING AND COOLING

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## DESCRIPTION

- 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 onto the wooden or metal stud frame; the screws are screwed in through holes drilled in the factory
- the hydraulic connection to the supply and return lines is made using a proven push-lock system with flexible hoses in the cavity of the wall
- pipes and sub-distributors are located in the cavity of the wall
- the leak test according to the factory guidelines is carried out before the filling work

## ADVANTAGES

### HIGH DEGREE OF PREFABRICATION

Quality and performance assurance through factory prefabrication.

### EASY RETROFITTING

Can be screwed onto an existing stud frame. The hydraulic connection is located in the cavity of the wall.

### QUICK AND EASY INSTALLATION

The system can be installed completely in the drywall works, which insures that everything runs smoothly on the construction site.

## TECHNICAL DATA



### HEATING CAPACITY (wall)

**110,0 W/m<sup>2</sup>**

$\Delta T = 15\text{ K}$ , active mat surface

**93,0 W/m<sup>2</sup>**

$\Delta T = 15\text{ K}$ , total panel surface



### COOLING CAPACITY (wall)

**73,0 W/m<sup>2</sup>**

$\Delta T = 10\text{ K}$ , active mat surface

**62,0 W/m<sup>2</sup>**

$\Delta T = 10\text{ K}$ , total panel surface



### ACOUSTICS (wall)

sound insulation values according to manufacturer's specifications are maintained

**WALL STRUCTURE:** depending on kind of stud frame plus **12,5 mm** OPTIPANEL 15

**SYSTEM WEIGHT** OPTIPANEL 15 (filled with water): **11 kg/m<sup>2</sup>**

Component	Material	Dimensions	Other
<b>CAPILLARY TUBE MAT</b>	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
<b>GYPSUM BOARD PANEL</b>	gypsum, cardboard	length: 2.000 mm width: 625 mm/1.250 mm panel thickness: 12,5 mm	
<b>INSULATION</b>	mineral wool or equivalent	d: min. 40 mm	
<b>PUSH-LOCK CONNECTION</b>	polypropylene (PP-R), recyclable brass, partially nickel-plated	push-lock system: 10 mm	lying flat on the back of the panel
<b>CONNECTING HOSE</b>	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
<b>SUPPLY AND RETURN LINES</b>	polypropylene (PP), recyclable	depending on wall area	

## CONTACT

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