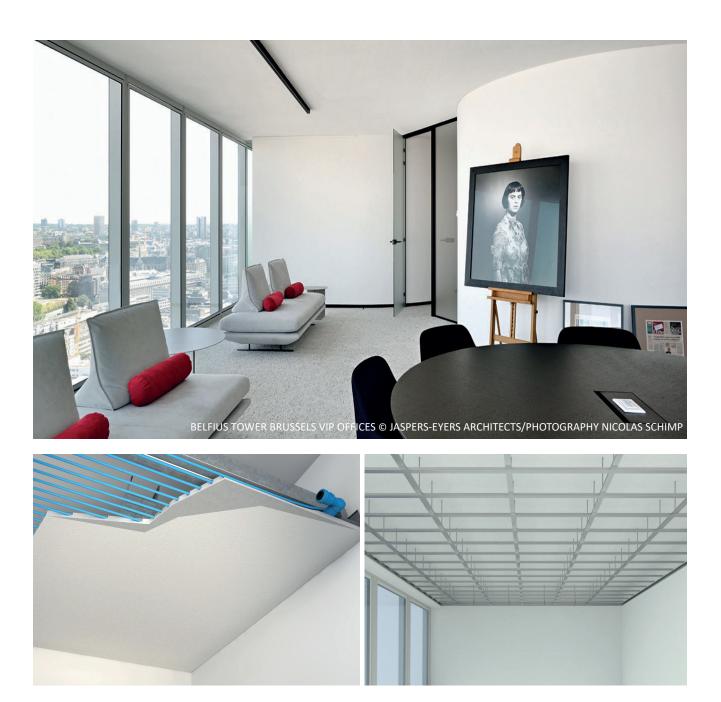
OPTIPANEL 15 (UNPERFORATED) - CEILING

with integrated capillary tube mat OPTIMAT GB 15





CLINA - BETTER HEATING AND COOLING

OPTIPANEL 15 (UNPERFORATED) - CEILING

with integrated capillary tube mat OPTIMAT GB 15



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 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

ADVANTAGES

HIGH DEGREE OF PREFABRICATION

Quality and performance assurance through factory prefabrication.

EASY RETROFITTING

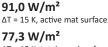
Can be screwed onto an existing substructure. The hydraulic connection is located in the cavity of the ceiling.

QUICK AND EASY INSTALLATION

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



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



 $\Delta T = 15$ K, total panel surface



COOLING CAPACITY (ceiling) according to DIN EN 14240

ΔT = 10 K, active mat surface

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

TECHNICAL DATA

74,4 W/m²

63,2 W/m²



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

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