

OPTIPANEL 18 (PERFORATED) - CEILING

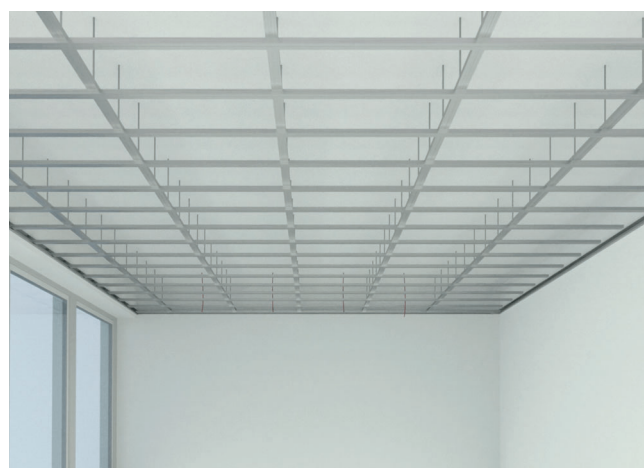
with integrated capillary tube mat OPTIMAT GB 18



System data sheet



T.CON GMBH & CO. KG PLATTLING MODERNES BÜRO © DAUPHIN-GROUP



CLINA - BETTER HEATING AND COOLING




OPTIPANEL 18 (PERFORATED) - CEILING

with integrated capillary tube mat OPTIMAT GB 18



DESCRIPTION	ADVANTAGES
<ul style="list-style-type: none"> in perforated 12,5 mm gypsum board panels, with a hole pattern 8/18 R (standard) parallel slots are milled on the back at a distance of 18 mm; the capillary tubes are inserted into these slots and a black acoustic fleece backing is glued on the back of the panel on site, the Clina OPTIPANEL 18 are screwed into the holes at right angles to the profiles of the substructure (axis dimension of fine grid ceiling 333 mm) using Knauf-Caps 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> <p>GOOD ACOUSTICS The sound absorption values of the perforated gypsum board panels remain unchanged.</p>

TECHNICAL DATA

 <p>HEATING CAPACITY according to DIN EN 14037/5</p> <p>92,0 W/m² ΔT = 15 K, active mat surface</p> <p>80,7 W/m² ΔT = 15 K, total panel surface</p>	 <p>COOLING CAPACITY according to DIN EN 14240</p> <p>72,6 W/m² ΔT = 10 K, active mat surface</p> <p>63,7 W/m² ΔT = 10 K, total panel surface</p>	 <p>ACOUSTICS (applies only to perforated version)</p> <p>weighted sound absorption coefficient up to α_w = 0,7 (Class C)</p>
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<p>INSTALLATION HEIGHT: depending on kind of substructure plus 12,5 mm OPTIPANEL 18</p>	<p>SYSTEM WEIGHT OPTIPANEL 18 (filled with water): 9 kg/m² plus substructure + insulation</p>
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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: 18 mm	description: OPTIMAT GB 18 push-lock connection: 10 mm angular position: 0° pressure stage: PN 10
GYPSUM BOARD PANEL	gypsum, cardboard	length: 1.988 mm width: 1.188 mm panel thickness: 12,5 mm	straight hole pattern: 8/18 R (standard) 12/25 R; 8/18 Q; 12/25 Q with black acoustic fleece backing
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 outer diameter connector: 10 mm	flexible pressure stage: PN 10 brass connector on both sides push-lock system
SUPPLY AND RETURN LINES	polypropylene (PP-R), recyclable	depending on room size	

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