

# METAL TILE / METAL PANEL - CEILING

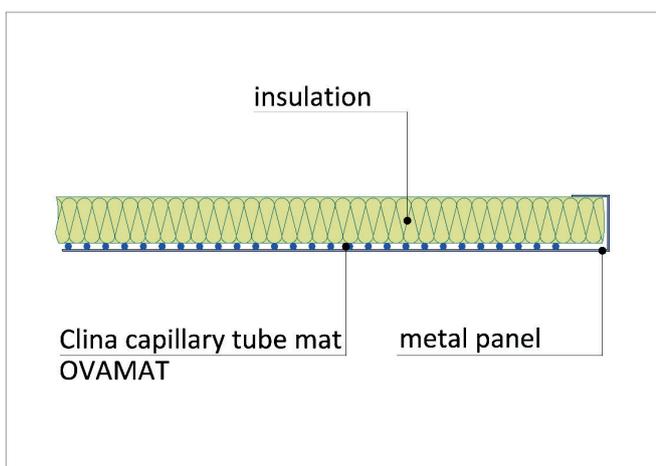
with capillary tube mat OVAMAT U 10 / UM 10 / G 10



System data sheet



New office building in Luxembourg © Clina Heiz- und Kühlelemente GmbH



CLINA - BETTER HEATING AND COOLING

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System data sheet

DESCRIPTION	ADVANTAGES
<ul style="list-style-type: none"> <li>perforated panels are usually covered on the inside with an acoustic fleece on which the capillary tubes are fixed with glue</li> <li>in the case of unperforated tiles/panels the capillary tube mat is fixed directly on the metal with glue</li> <li>the tiles/panels, with the capillary tube mats integrated into them, are inserted into a suspended rail system and provided with an insulating material</li> <li>the capillary tube mats are connected to each other and to the prefabricated supply and return lines with flexible hoses using a proven push-lock system</li> <li>the leak test according to the factory guidelines is carried out before closing the ceiling</li> </ul>	<p><b>HIGH PERFORMANCE</b> The specially developed capillary tube mat with an <b>oval</b> mat distributor pipe results in an increased contact surface.</p> <p><b>GOOD ACOUSTICS</b> The capillary tube mat does not require any heat-conducting profiles which would cover the perforation and thus reflect the sound. The sound absorption values of the tile/panel manufacturers apply without restriction.</p> <p><b>EASY RETROFITTING</b> With Clina capillary tube mats, every metal panel ceiling becomes a heating and cooling ceiling quickly and cost-effectively. The ceiling remains fully accessible for inspection.</p> <p><b>MAXIMUM DEGREE OF ACTIVATION</b> The dimensions of the capillary tube mat are individually adapted to the size of the tile/panel.</p>

## TECHNICAL DATA

	<p><b>HEATING CAPACITY</b> according to DIN EN 14037/5</p> <p><b>108,2 W/m<sup>2</sup></b> ΔT = 15 K, active mat surface</p>		<p><b>COOLING CAPACITY</b> according to DIN EN 14240</p> <p><b>94,5 W/m<sup>2</sup></b> ΔT = 10 K, active mat surface</p>		<p><b>ACOUSTICS</b> (applies only to perforated version)</p> <p>weighted sound absorption coefficient as specified by the manufacturer</p>
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**INSTALLATION HEIGHT:**  
depending on the kind of metal tile/panel ceiling

**SYSTEM WEIGHT: 1 kg/m<sup>2</sup>** plus ceiling

Component	Material	Dimensions	Other
<b>CAPILLARY TUBE MAT</b>	polypropylene (PP-R), recyclable	<b>oval</b> mat distributor pipe: 20 x 12 x 2,0 mm capillary tube: 3,4 x 0,55 mm distance of the capillaries: 10 mm length & width: 10-20 mm smaller than the inner dimensions of the metal tile/panel	description: OVAMAT U 10 / UM 10 /G 10 weight (incl. water): 1 kg/m <sup>2</sup> pressure stage: PN 10
<b>TILE/PANEL</b>	steel sheet, aluminium	according to manufacturer's specifications	all customary metal tiles/panels can be used
<b>INSULATION</b>	mineral wool or equivalent	according to tile/panel size	preferably welded in foil
<b>PUSH-LOCK CONNECTION</b>	polypropylene (PP-R), recyclable brass, partially nickel-plated	push-lock system: 10 mm	O-ring sealing
<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 push-lock system
<b>SUPPLY AND RETURN LINES</b>	polypropylene (PP-R), recyclable	depending on the room size	can be delivered prefabricated

## CONTACT

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