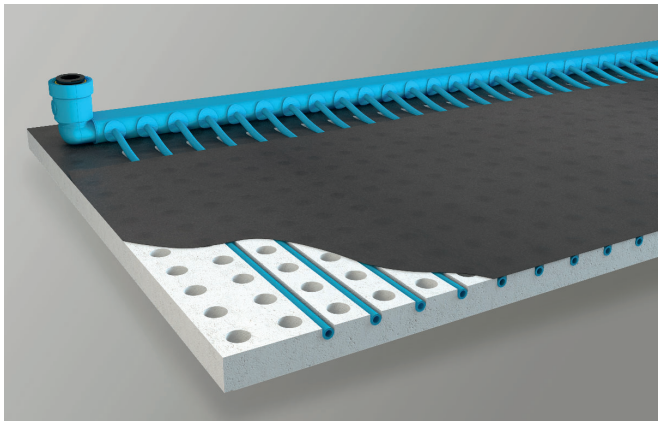
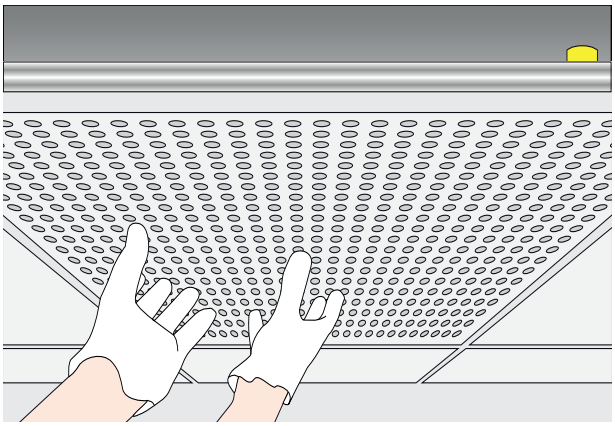
GYPSUM BOARD CEILING TILE - PERFORATED & UNPERFORATED

lay-in ceiling tiles for insertion into T-rails T15/T24,
with integrated capillary tube mat OVAMAT GB 18 / GB 15

Clina
System data sheet

VOGL DECKENSYSTEME System partner





CLINA - BETTER HEATING AND COOLING

GYPSUM BOARD CEILING TILE - PERFORATED & UNPERFORATED

lay-in ceiling tiles for insertion into T-rails T15/T24
with integrated capillary tube mat OVAMAT GB 18 / GB 15

System data sheet

DESCRIPTION

- the lay-in tiles consist of perforated or unperforated gypsum board panels from the company Vogl
- Clina capillary tube mats are inserted in milled slots on the back of the gypsum board ceiling tile
- the slots of the perforated tiles are covered with a black acoustic fleece and the slots of the unperforated tiles are covered with a cover paper; an insulating material is placed
- the lay-in tiles are inserted into standard T-rail constructions
- the hydraulic connection to the supply and return lines is made using a proven push-lock system with flexible hoses
- the leak test according to factory guidelines is carried out after all active tiles have been inserted

ADVANTAGES

HIGH DEGREE OF FLEXIBILITY

Changes in the reflected ceiling plan can be easily taken into account during installation.

LOW INSTALLATION COSTS

Due to the high degree of prefabrication, the low weight and the easy installation, working time and possible sources of error are reduced to a minimum. Complete installation is possible in the drywall construction works, which ensures a smooth process on the construction site.

EASY RETROFITTING

Can be inserted into existing T-rail systems, whereby the supply lines are located in the ceiling void.

GOOD ACOUSTICS

Values from the ceiling tile manufacturer remain unchanged.

TECHNICAL DATA

HEATING CAPACITY
according to DIN EN 14037/5

85,1 W/m² ΔT = 15 K, active mat surface
77,4 W/m² ΔT = 15 K, ceiling tile surface 600 x 600 mm
71,5 W/m² ΔT = 15 K, ceiling tile surface 625 x 625 mm

COOLING CAPACITY
according to DIN EN 14240

71,8 W/m² ΔT = 10 K, active mat surface
65,3 W/m² ΔT = 10 K, ceiling tile surface 600 x 600 mm
60,3 W/m² ΔT = 10 K, ceiling tile surface 625 x 625 mm

ACOUSTICS
(applies only to perforated version)

weighted sound absorption coefficient
up to α_w **= 0,7** (Class C)

INSTALLATION HEIGHT: 12,5 mm gypsum board ceiling tile, recommended installation height **≥ 200 mm**

SYSTEM WEIGHT: gypsum board ceiling tile (filled with water): **10 kg/m²** plus substructure

Component	Material	Dimensions	Other
CAPILLARY TUBE MAT	polypropylene (PP-R), recyclable	mat distributor pipe **oval**: 20 x 12 x 2,0 mm capillary tube: 4,3 x 0,8 mm distance of the capillaries: 15/18 mm (GB-ceiling tile unperforated 15 mm/perforated 18 mm)	description: OVAMAT GB 15/GB 18 push-lock connection: 10 mm angular position: 90° pressure stage: PN 10
GYPSUM BOARD CEILING TILE	gypsum, cardboard surface finished in dull white, black acoustic fleece on the back or paper	length x width: 1.250 x 625 mm, 1.200 x 600 mm, 625 x 625 mm (standard), 600 x 600 mm panel thickness: 12,5 mm	hole pattern: 8/18 R (standard); 6/18 R; 12/25 R; 8/18 Q; 12/25 Q
INSULATION	100% polyester fibre, tested for harmful substances	length & width: according to ceiling tile dimensions height: 30 mm	CARUSO-ISO-BOND, WLG 040
PUSH-LOCK CONNECTION	polypropylene (PP-R), recyclable, brass, partially nickel-plated	push-lock system: 10 mm	O-ring sealing
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 push-lock system
SUPPLY AND RETURN LINES	polypropylene (PP-R), recyclable	depending on the room size	can be delivered prefabricated

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