

**gabotherm®**

# Heating and Cooling Registers for Concrete Ceilings



- gabocool OBR 12** Site-Mixed Concrete Register (prices upon request) 110
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## OBR 12 Site-Mixed Concrete Register:

Premanufactured register mats made from oxygen-impermeable polybutene pipes 12 x 1.3 mm in object-specific dimensions tied onto mats of structural steel. The register mats are laid directly onto the ceiling formwork and then covered with concrete on the site. They are thus located below the lower reinforcement layer, which on one hand does not interfere with the structural safety and on the other hand produces a quick reaction time due to the position just below the ceiling surface.



The pipe registers are pressurised at the factory and contain an air pressure of approx. 5 bar upon delivery (verification on construction site possible using test pressure valve), the upward or downward feed through the ceiling is made using special weaving shoes, the collecting pipes are laid in hollow spaces of the ceiling (e.g. in corridors).

This heating and cooling system is used for new industry and office building constructions in which the concrete for the storey floors is poured on-site.

## **DR 8 Ceiling Register for Plaster Cover:**

Premanufactured ceiling registers made from oxygen-impermeable polybutene pipes 8 x 1.0 mm in object-specific dimensions. The ceiling registers consist of one or several partial circuits laid in meanders, which are fastened using pipe clamping strips.



The ceiling registers are connected to the collecting pipe made from oxygen-impermeable polybutene pipe 15 x 1.5 mm or 16 x 2.0 mm using T-pieces.

The heating and cooling registers for covering with plaster on existing ceiling structures are superbly suited for the renovation of old buildings, but also for new private or industrial building constructions.

## **BA Building Component Heating/Cooling:**

In concrete core heating/cooling, the oxygen-impermeable gabotherm® polybutene pipes 18 x 2.0 mm and 20 x 2.0 mm or gabotherm® PE-Xc pipes 17 x 2.0 mm and 20 x 2.0 mm are laid in the “middle layer” of the concrete ceiling. The pipes are laid using factory-made register mats in object-specific dimensions or the registers are created by mounting the pipes on the reinforcement trellis on-site.

The polybutene pipes are laid in meanders with different spacings. The upward or downward feed through the ceiling is made using special weaving shoes, the collecting pipes are laid in hollow spaces of the ceiling (e.g. in corridors) or in double floors. The connection can be made via manifolds or collecting pipes.

This heating and cooling system is mainly used for new office and administrative building constructions.

----- **Prices upon request!** -----