

BACKER-BAU, Hainichen

Project:	Headquater BACKER-BAU
Place:	Hainichen/Sachsen
Engineers:	Phase10
Time:	2012 / 4 months
Use:	offices
Area:	1.300 m ²
Type:	Drywall ceiling and activated prefabricated concrete elements

The suspended plasterboard ceiling is activated with BEKA capillary tube mats. The ceiling is used for cooling and heating. Capillary tube mats are also installed within the facade and underneath the photovoltaic elements on the roof. Here, they absorb the sun energy and regenerate the ice storage.

After only four months of construction, the innovative office building in the business park of Hainichen was inaugurated on 12th October 2012. Special features of the new head quarters are the use of ice storage, thermally activated fronts and a hybrid photovoltaic system.

The ice storage ensures that the building can be cooled in summer and heated in winter with very low additional energy input. The whole system is using solar energy exclusively.

