

Roto Development Centre

Bad Mergentheim



© David Franck, Ostfildern

Design and office workplaces for creative working in an open workshop ambience.

Client's requirements

For the development of prototypes, the management at the company Roto wanted a building in the form of a multifunctional space. This space for about 80 people is intended to foster the employees' creativity on the one hand, and to attract creative people due to its outer appearance on the other.

Architectural Draft

As part of the material implementation of this open space design, particularly attention was paid to the integration of acoustic measures. Consequently, panels made of glass granulate (Sorp 10®) were integrated in the exposed concrete ceilings as early as the shell construction stage. Not only do these open glass granulate strips make a critical contribution to the pleasant acoustics in the building, but at the same time they act as a design element in the building dominated by exposed concrete.

The different ways of using the space and the diverse spatial experiences in the new development centre show that not only do people work at Roto – people live at Roto and this fosters creativity!

Air conditioning technology

Concrete core temperature control is used for the cooling and heating technology and is integrated in the building shell. In addition, underfloor convector heaters were installed in the cavity floors in order to also ensure the temperature of the rooms can be controlled in a short space of time. The integration of cooling and heating pipes together with the visible Sorp 10® room-acoustic sound absorber in the shell construction posed a particular challenge

Type of building:

Clients and Developers:

Roto Frank Bauelemente GmbH
www.roto-dachfenster.de

Architect:

SHA Sigrid Hintersteiner Architects
www.sigridhintersteiner.net
Kalis Innovation GmbH
www.kalisinnovation.de

Engineers/ Specialist Planners:

Mayer-Vorfelder und Dinkelacker
Ingenieurgesellschaft für Bauweisen
GmbH
www.mvd-plan.de RW Bauphysik
Ingenieurgesellschaft mbH & Co.KG
www.rw-bauphysik.de

Building contractor:

Completion:

2017

Roto Development Centre

Bad Mergentheim



in terms of structural engineering. Furthermore, the concrete had to meet the aesthetic requirements of exposed concrete.

By using renewable energies, a sustainable energy supply system with concrete core temperature control and highly technical materials, the operating costs are reduced to a considerable extent.

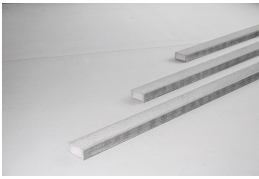
„The building is oriented on and reacts to the outside climate.“
Dr.-Ing. Sigrid Hintersteininger, Architect

Roto Development Centre

Bad Mergentheim



Products used:



Room-acoustic sound absorber
Sorp 10®



© David Franck, Ostfildern



© David Franck, Ostfildern



© David Franck, Ostfildern



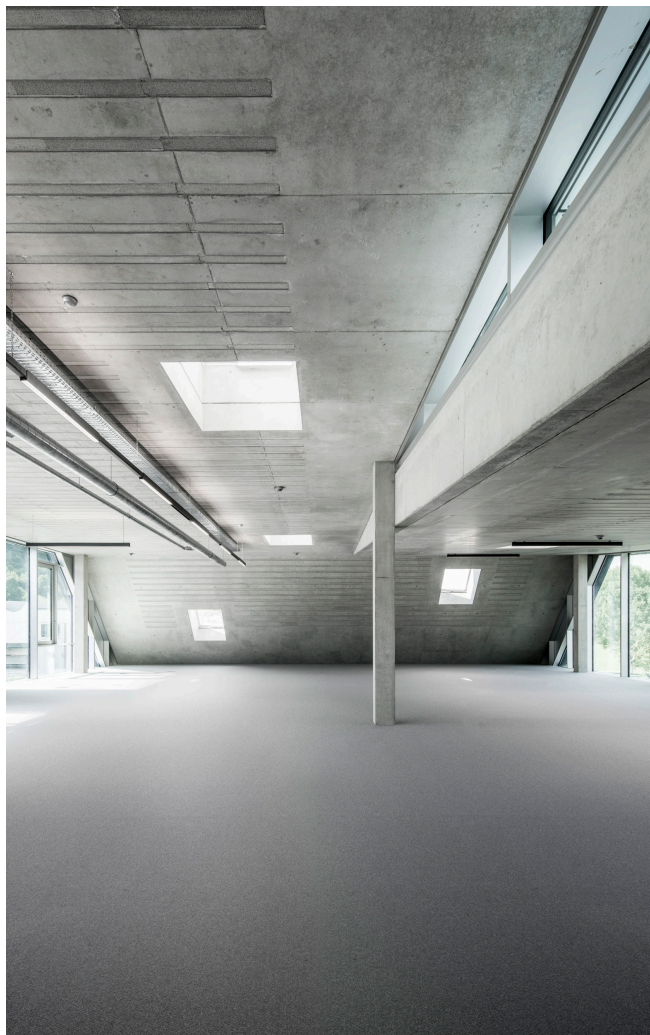
© David Franck, Ostfildern

Roto Development Centre

Bad Mergentheim



© David Franck, Ostfildern



© David Franck, Ostfildern



© David Franck, Ostfildern



© David Franck, Ostfildern

Roto Development Centre

Bad Mergentheim



© David Franck, Ostfildern



© David Franck, Ostfildern



© David Franck, Ostfildern



© David Franck, Ostfildern

Roto Development Centre

Bad Mergentheim



© David Franck, Ostfildern



© David Franck, Ostfildern



© David Franck, Ostfildern



© David Franck, Ostfildern



© David Franck, Ostfildern



© David Franck, Ostfildern

Roto Development Centre

Bad Mergentheim



© David Franck, Ostfildern



© David Franck, Ostfildern



© David Franck, Ostfildern



© David Franck, Ostfildern

Roto Development Centre

Bad Mergentheim



© David Franck, Ostfildern



© David Franck, Ostfildern



© David Franck, Ostfildern



© David Franck, Ostfildern



© David Franck, Ostfildern



© David Franck, Ostfildern