Alnatura Campus

Darmstadt

Arbeitswelt von Alnatura in Darmstadt
© Fotografie Brigida González

With the Alnatura working world, an architectural milestone has been reached in terms of sustainability, material efficiency, openness and modern working methods arose.

Type of building:

Clients and Developers:
Alnatura Produktions- und Handels GmbH
www.alnatura.de

Architect:
Martin Haas
Architekturbüro Haas-Cook-Zemmrich Studio 2050

Engineers/ Specialist Planners:
Campus 360 GmbH
Transsolar KlimaEngineering

Completion:
2019

Project link:
https://www.alnatura.de/de-de/ueber-uns/alnatura-campus

The building on the site of the former Kelley-Barracks, where hardly any reminiscent of a conventional office building, offers space on three floors for up to 500 employees. For the 55000 square meter Alnatura Campus the former barracks area was comprehensively renatured: Sealed areas were broken open and the resulting material was used in the open spaces. With a gross floor area of 13500 square meters, the simple construction is the largest office building made of clay in Europe. The buildings are constructed using rammed earth technology. Walls do not only contain clay from the Westerwald and lava gravel from the Eifel, but also recycled material from the tunnel excavation of the railway project Stuttgart 21.
The Alnatura working world follows the principles of an integrated, sustainable architecture, which is expressed among other things in the DGNB certification in platinum. It is a high performance house with low energy consumption and optimized interior comfort, which conserves resources by using natural materials and and recycled materials. The use of ecologicalof harmless building materials leads to a reduction of the costs associated with the construction and significantly improves the ecological balance of a building.

Special requirements for room acoustics
The open-plan building design also presented the planners with special challenges in terms of good room acoustics. In addition to the topics of architecture, sustainability and material efficiency, care had to be taken to ensure that the working environment for the employees meets the high requirements for good office acoustics. Amongst other things, this is achieved by allowing for the Sorp 10® sound absorber to be embedded in the concrete ceiling as strips. On the one hand, Sorp10® sound absorbers contain a sound-absorbing core of recycled waste glass and, on the other hand, the sound

Max Frank GmbH & Co. KG | Mitterweg 1 | 94339 Leiblfing | Tel. +49 9427 189-0 | Fax +49 9427 1588
info@maxfrank.de | www.maxfrank.com

absorbers themselves can be recycled on a long-term basis which underlines the sustainability of this product. Sorp 10® also has a minor effect on thermal efficiency. As a result, thermal comfort is ensured in the concrete core activated building in addition to the acoustic comfort and thus contributes further to energy efficiency.

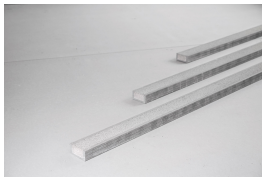
Max Frank GmbH & Co. KG | Mitterweg 1 | 94339 Leiblfing | Tel. +49 9427 189-0 | Fax +49 9427 1588
info@maxfrank.de | www.maxfrank.com

Alnatura Campus

Darmstadt

Products used:

Column formers Tubbox® – smooth finish



Room-acoustic sound absorber Sorp 10®

Alnatura working world in Darmstadt
© Fotografie Brigida González

Open Atrium with Sorp 10® sound absorber
© Fotografie Brigida González

Max Frank GmbH & Co. KG | Mitterweg 1 | 94339 Leiblfing | Tel. +49 9427 189-0 | Fax +49 9427 1588
info@maxfrank.de | www.maxfrank.com

Alnatura Campus

Darmstadt

Open meeting rooms furnished with Sorp 10®
© Fotografie Brigida González

Sustainability - largest clay building in europe
© Alnatura - Fotograf Marc Doradzillo

Raw building with Tubbox® and Sorp 10®
© Alnatura - Fotograf Marc Doradzillo

Two floors with Tubbox® circular columns
© Alnatura - Fotograf Marc Doradzillo

Tubbox® column formers and Sorp 10® absorber already stripped.
© Alnatura - Fotograf Marc Doradzillo

Concrete core activated components with Sorp 10®
© Alnatura - Fotograf Marc Doradzillo

Max Frank GmbH & Co. KG | Mitterweg 1 | 94339 Leiblfing | Tel. +49 9427 189-0 | Fax +49 9427 1588
info@maxfrank.de | www.maxfrank.com

Alnatura Campus

Darmstadt

Rammed clay technique and concrete core temperature contral
© Alnatura - Fotograf Marc Doradzillo

Exposed concrete finish
© Alnatura - Fotograf Marc Doradzillo

Smooth finish mit Tubbox® column formers
© Alnatura - Fotograf Marc Doradzillo

Bottom view Sorp 10® sound absorber for thermally activated components
© Alnatura - Fotograf Marc Doradzillo

Max Frank GmbH & Co. KG | Mitterweg 1 | 94339 Leiblfing | Tel. +49 9427 189-0 | Fax +49 9427 1588
info@maxfrank.de | www.maxfrank.com