



Seit 1877

Kiefer

Luft- und Klimatechnik

Neue Wege mit Luft

Concrete core cooling with air CONCRETCOOL

Puma AG, Oensingen



The new headquarters building for Puma Schweiz AG in Oensingen is a classical reinforced concrete frame structure. The basement is a massive reinforced concrete construction. The floors above it are rest on pre-cast spun concrete supports. The façade of the open frame structure is clad with a glass curtain wall. The floors above the second floor are used as offices. The ground floor comprises a factory outlet and a bistro restaurant, while the first floor is occupied by a showroom for trade customers.

Function of CONCRETCOOL

In contrast to conventional systems, in which supply air is fed directly into the working areas, the air first flows through aluminium cooling tubes cast into the ceilings. Thereby the supply air cools the ceiling. At the same time the gain of heat is used to warm up the supply air.

System advantages

- Optimum thermal comfort
- Additional ceiling cooling with water is not required
- Free cooling provides energy savings of up to 50%
- Full flexibility due to modular positioning of cooling tubes
- Cooling with outdoor air – no air circulation required
- Construction costs reduced due to low floor height

Building:	Puma AG, Oensingen
Architects:	Mühlemann + Partner Architekten und Planer GmbH Grenchen
Proprietor:	Puma Schweiz AG
Scope:	3.000 m² conditioned area
System:	Concrete core cooling with air CONCRETCOOL Per fitout module, one linear diffuser Air flow guide vanes are invisibly integrated into the ceilings.
Air flow rate:	8.3 m³/hm² (exch. rate = 2.7 x / h)

