

Refurbishment of the University Library Freiburg **Involving Staff and Others in the Planning process**

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Seminar of LIBER Architecture Group in Freiburg

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Baden-Württemberg

VERMÖGEN UND BAU

AMT FREIBURG

Different Stakeholders including the staff

Directorate of the library

Members of the library staff

Users of the library – the students

Agents of the University

Representatives of the municipal offices

The neighbourhood

University Center

Situation 2006



Foto Rokosch Freiburg



Foto Rokosch Freiburg





Reasons for the Reconstruction

- **Dissatisfied staff** and users (Sick building)
- Outdated buildingtechnology from 1978
- Highrising energy costs
- Dilapitated exposed concrete facade
- Pollution (asbestos, artificial mineral fibres)
- Limitation in the organisation and logistic

Temporary Interim Locations



Opportunities from the Modernisation

- Improvement of the room conditions
- Saving energy – lower energy costs for the university
- More efficient and sustainable organisation of the library > more service (24/7)> flexibility
- A city space with a new urban quality

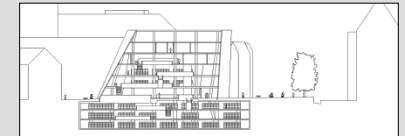
Architecture Competition 2006



1. Preis:
Degelo Architekten, Basel
Itten & Brechbühl, Bern



1010



2. Preis:

Bentham
Crouwel,
Aachen



1014

3. Preis:

Auer+Weber
+Architekten,
Stuttgart



1006

4. Preis:

Sauerbruch
Hutton,
Berlin



1013

Ankauf:

gmp - von
Gerkan, Marg
und Partner,
Berlin



1008

Ankauf:
Léon Wohlhage
Wernik
Architekten,
Berlin



1012

2. Rundgang:
Petzinka Pink
Architekten,
Düsseldorf



1004

2. Rundgang:
McCullough
Mulvin
Architects,
Dublin



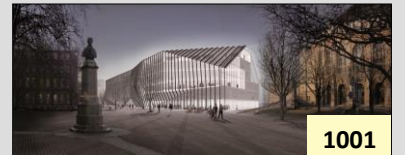
1002

2. Rundgang:
Böge Lindner
Architekten,
Hamburg



1009

2. Rundgang:
Barkow
Leibinger
Architekten,
Berlin



1001

2. Rundgang
ArGe Harter +
Kanzler /
Broghammer-
Jana-Wohleber,
Waldkirch



1005

1. Rundgang:
Wiel Arets
Architects,
Maastricht /
Amsterdam



1003

1. Rundgang:
Ingenhoven
Architekten,
Düsseldorf



1007



View Northeast – from the Place of the Old Synagoge



First Price

Degelo Architects SIA, Basel with Itten & Brechbühl, Bern

Results of the Competition

2nd Price

Bentham and Crowel, Aachen



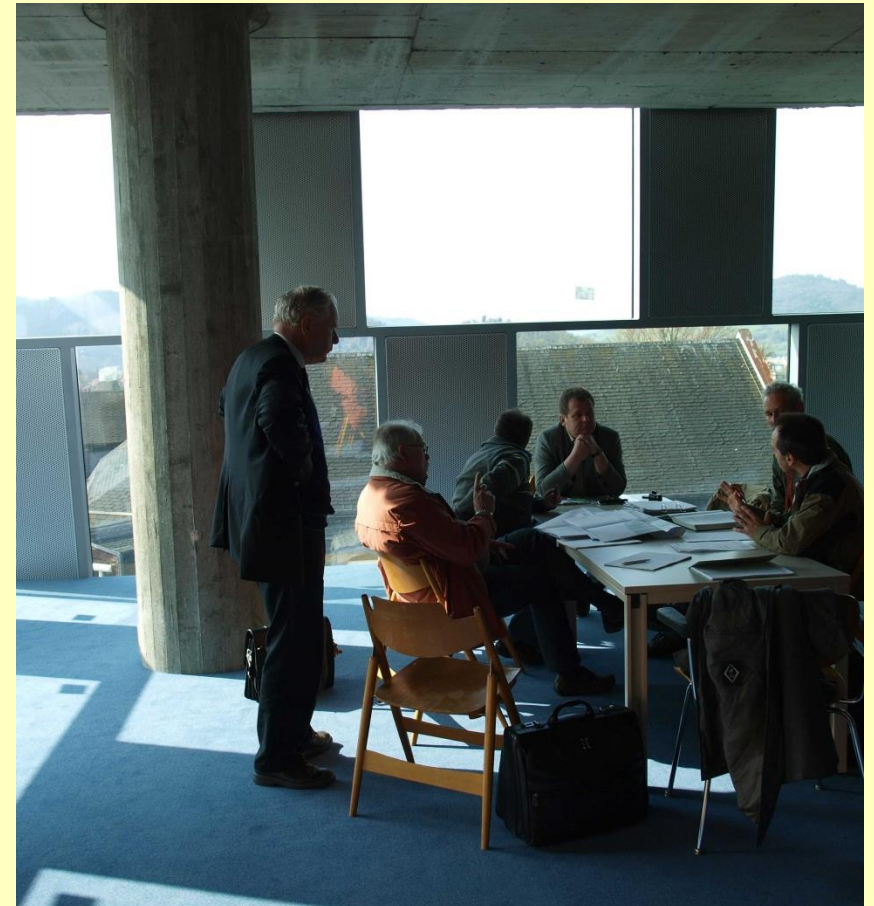
3rd Price

Auer and Weber, Stuttgart



Facadeconception Model

5th floor April 2009 on the old building



Facade in Test and Process



Modified Visualization



Visualization Degelo Basel, Mejdoub Freiburg

Reality



Foto Hath Merzhausen

Reality





Foto Kern Freiburg



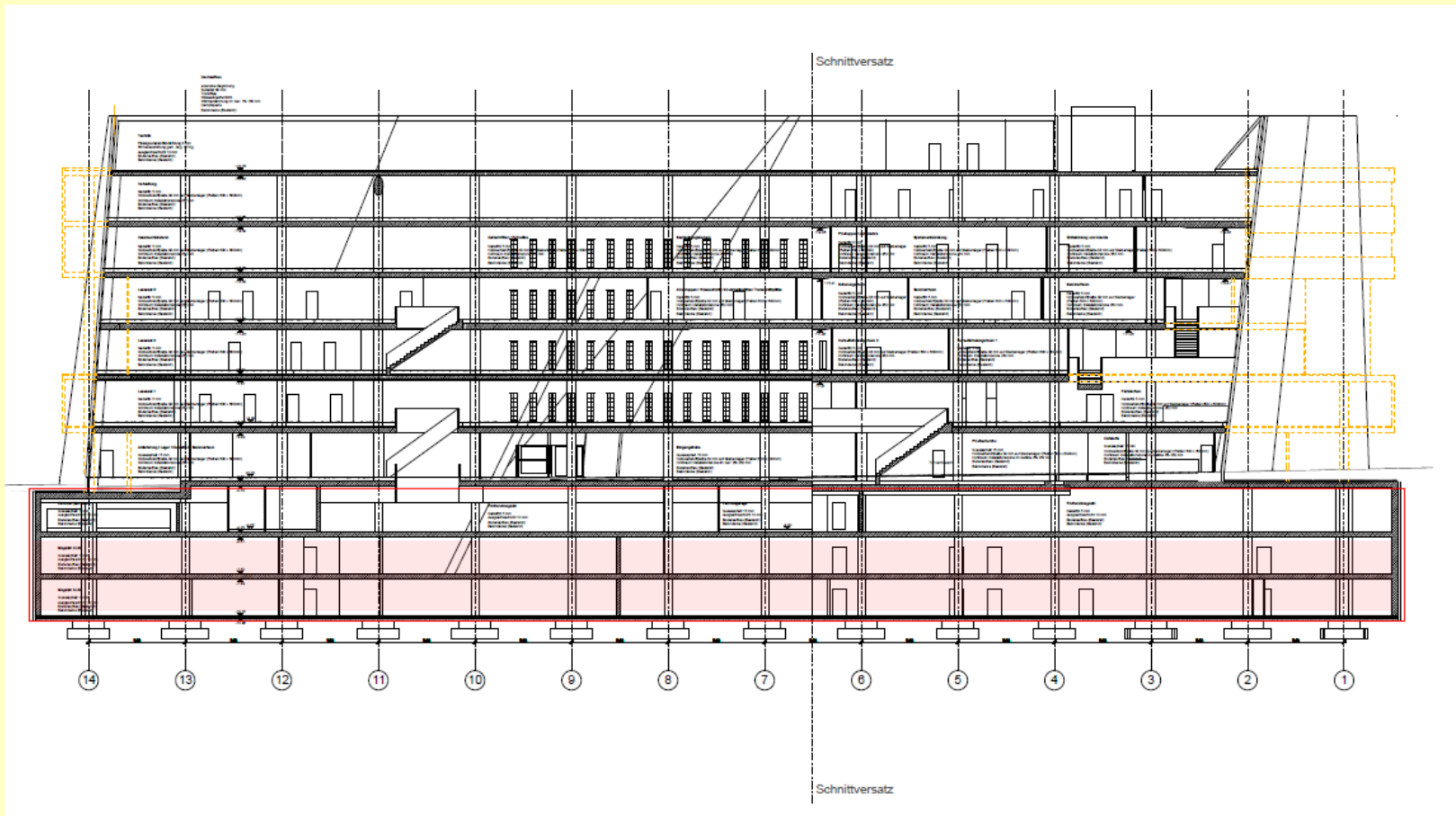


Foto Bender UB Mediacenter

Continious Bookservice while breaking off and new construction

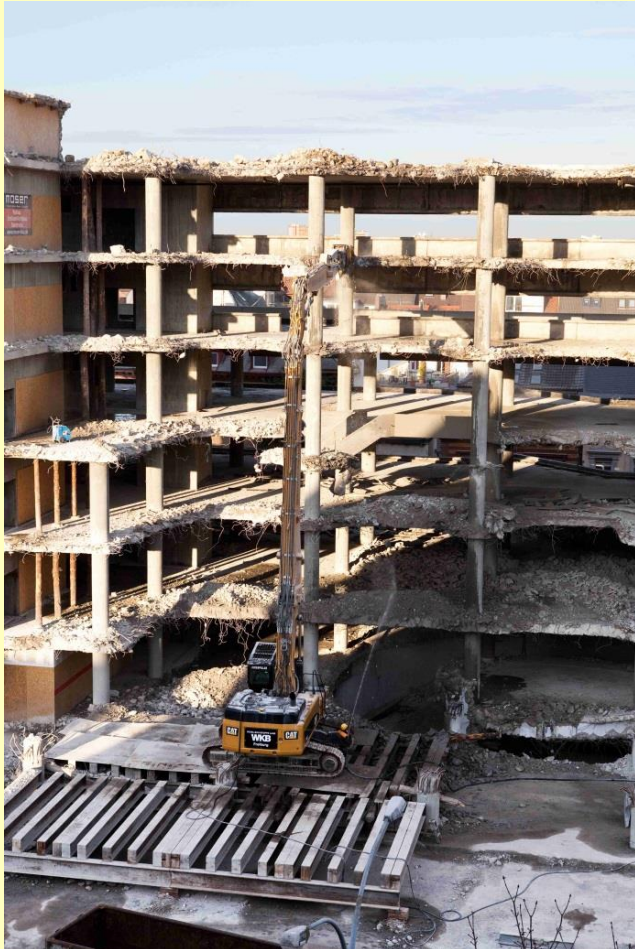


Cross-Section Floor U2 and U3 permanent in Function



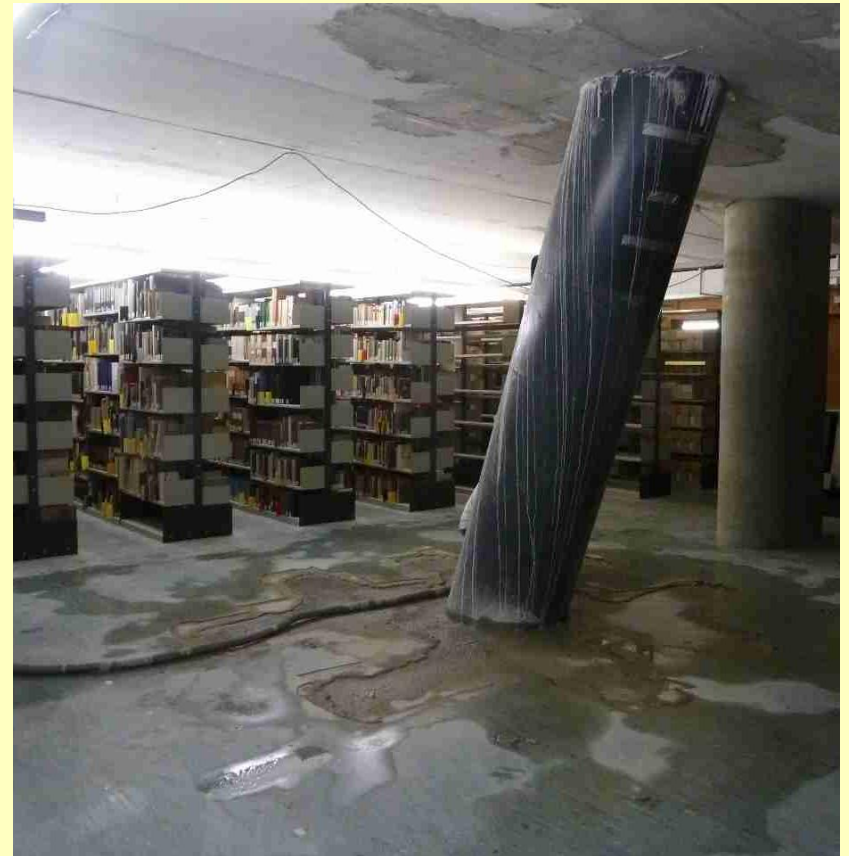
Situation above and below

2012



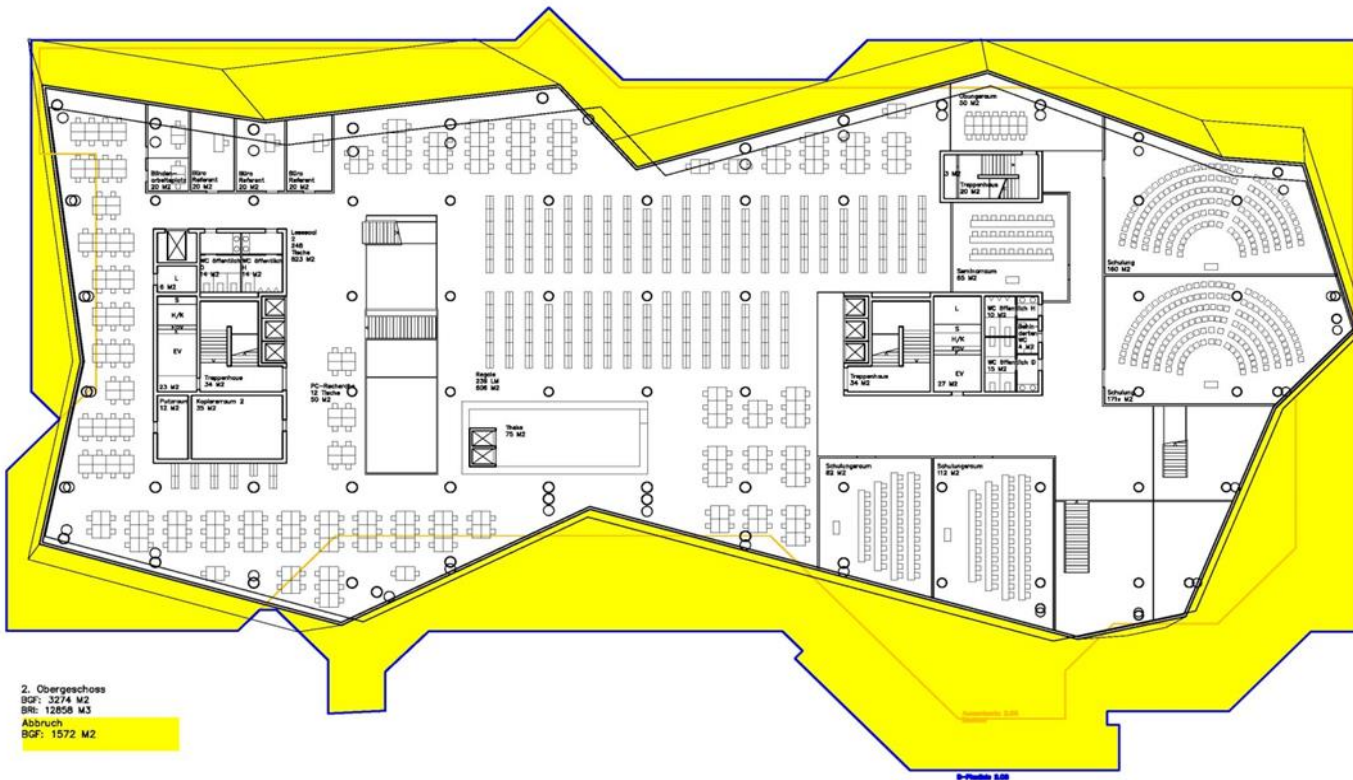
Situation below

2012

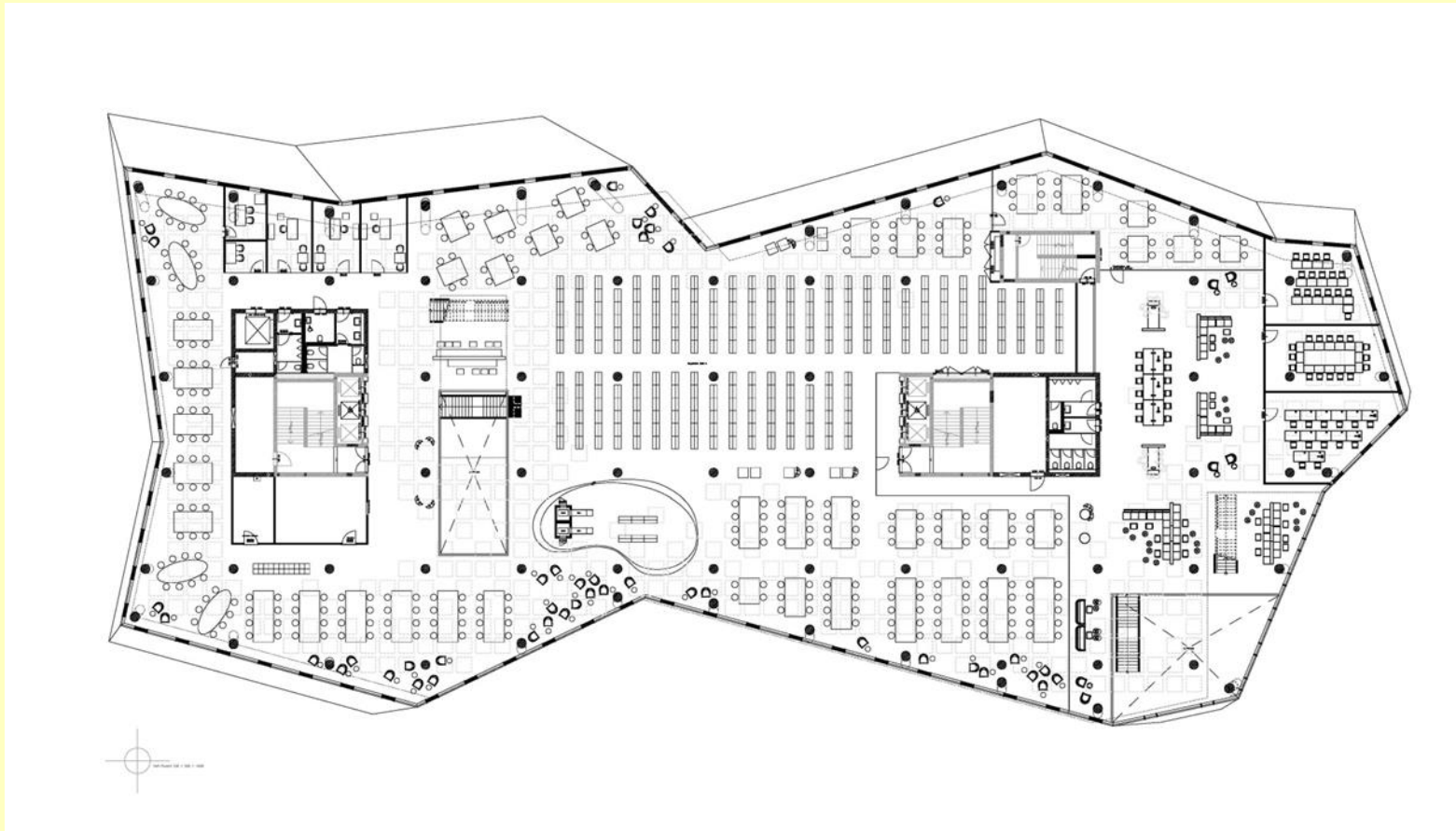


2nd Floor Transformation in Process

2006



2nd Floor Integration Juridicum 2008-2010



2nd Floor current Version 2015



2nd Floor „Juridicum“



Discussion of Materials and Colors



Acting parties

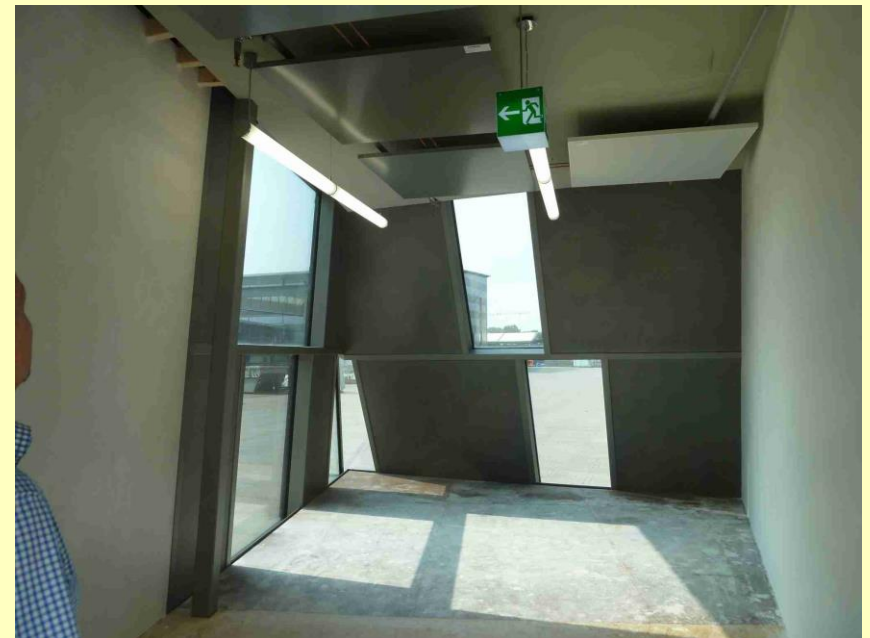
- Library
- University
- Students
- Architects
- Interior Designer
- Medicine Officer
- Firms

Looking for Consensus and Decision 1

Mockup Room behind the facade-corner

Coordination of materials and colors

surface inner metal facade and technical installations



Looking for Consensus and Decision 2

Testlaboratory old convention center:

- Students voting for furniture selection (reading chairs)
- Hard and serious tests of reading lamps by students



Concept of Material and Colour



Foto Bender UB Mediacenter



Foto Bühler Basel

The Change of the Entrance Area

2007

2015



The Change of the Office Area

2007

2016



Facts of the Building old / new

	Old B.	New B
Gross volume (BRI total)	164.900 m ³	158.900 m ³
Gross volume (BRI aboveground)	95.200 m ³	89.200 m ³
Usable floorspace	31.700 m ²	30.700 m ²
Total building cover	14.400 m ²	10.000 m ²
Total costs		53.000.000 Euros

Elements of the Technical Concept

- Cooling with ground water
- Concrete core temperature control
- Quick system with heat- and cooling ceiling out of metal
- Air distribution through the hollow floor CO₂ controlled
- Free exhaust airflow through the air spaces (stairs)
- Lighting time- / movement- and brightness controlled

Central Technical Area in the 6th Floor



Foto Kern Freiburg

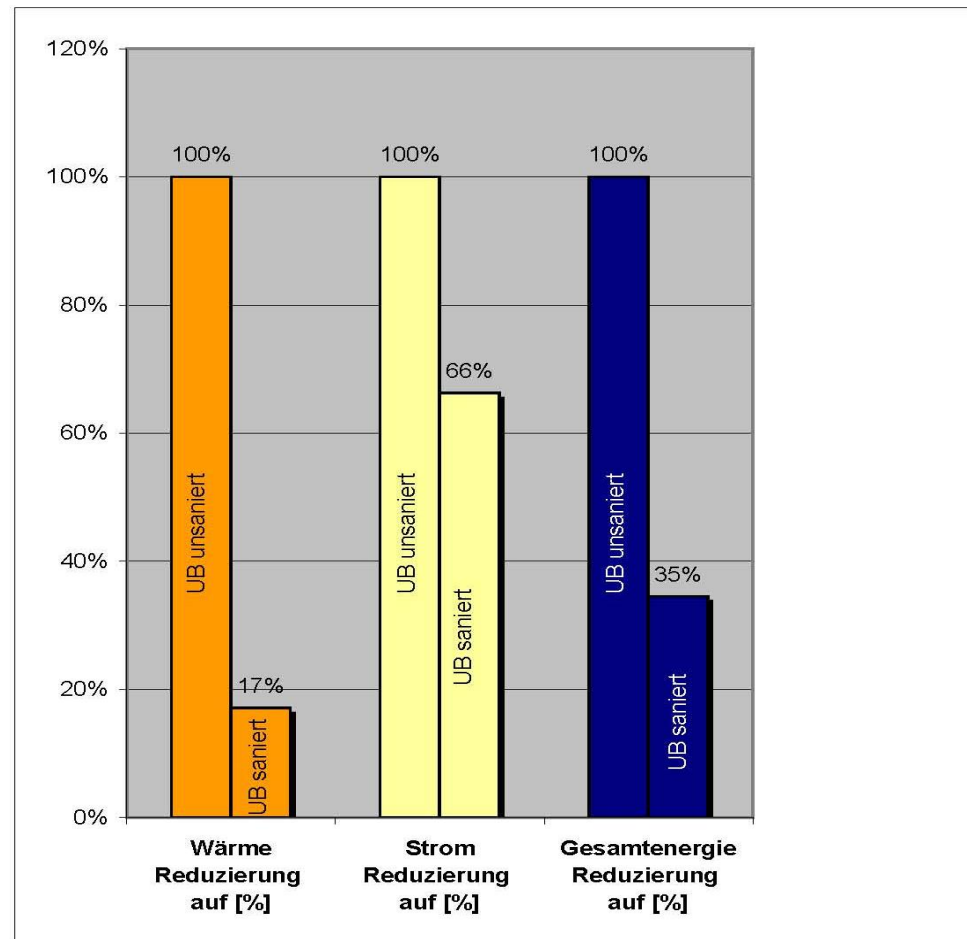
Photovoltaics $2000\text{m}^2 = 200.000 \text{ kwh/a}$



Foto Holtz Freiburg

Prognosis Energy Consumption 24/7

Heat Electricity Total



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Foto Kern Freiburg