

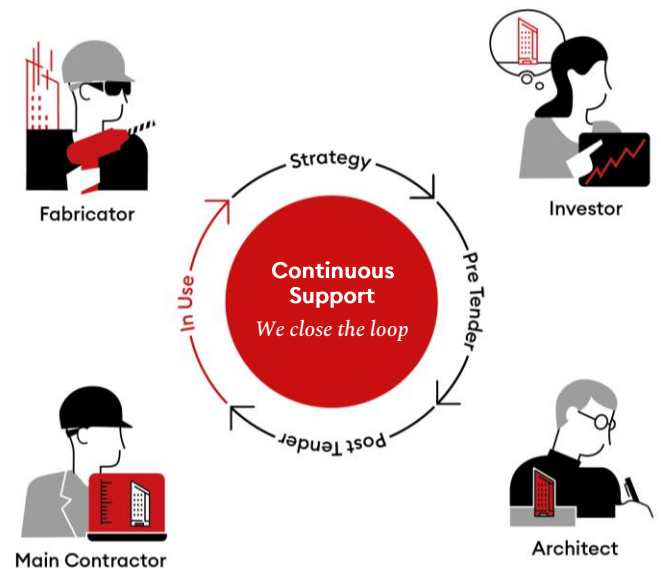
# Continuous Support

*This means taking responsibility for the planning, implementation and use.*

At Priedemann, we take care of facade consulting AND engineering. In this way, we close the gaps between planning and execution.

We ensure that the project knowledge we have gained is transferred to the construction phase. In this way, you can rely on the ONE person responsible for the facade.

With this, we support the architect as design author and generalist on the building site and the client and investor as idea provider, initiator and financier.



## Scope of Services

Consultancy		Engineering		Specials		Facade-Lab		
Strategy	<div></div> Architectural Competitions	Strategy	<div></div> Factory Layout	Sustainability	<div></div> Thermal Building Physics	Collaborate	<div></div> Research & Development	
	<div></div> Refurbishment Concept		<div></div> Prequalification		<div></div> Building Acoustics		<div></div> Showroom	
	<div></div> Feasibility Study	Pre-Tender	<div></div> Bidding Stage Association		<div></div> Simulations		<div></div> Forum	
	<div></div> Project-/Peer Review		<div></div> Value Engineering		<div></div> Decentralized Energy		<div></div> Mock-Up & Prototype	
	<div></div> Technical Due Diligence				<div></div> Green Building Certification		<div></div> Model Workshop	
Pre-Tender	<div></div> Project Objectives & Brief	Post-Tender	<div></div> Construction Objectives & Brief	Digital	<div></div> 3D Modelling	Asset Transformation	<div></div> Coordination/ General Transferee	
	<div></div> Concept/Schematic Design		<div></div> System/Concept Design		<div></div> BIM		<div></div> LEAN Processing	
	<div></div> Detailed/Developed Design		<div></div> Mock-Up Development		<div></div> Parametric		<div></div> Purchasing/ Procurement/ Awarding	
	<div></div> Technical/Construction Design		<div></div> Provision/Shop Drawings		<div></div> Digital Production		<div></div> Execution/ Realization	
	<div></div> Specs/Tender Docs		<div></div> Material Take Off		<div></div> Media Facade			
	<div></div> Tender Evaluation		<div></div> Production Documentation	Sub-Service	<div></div> Maintenance			
Post-Tender	<div></div> Design Compliance Control		<div></div> Installation Documentation		<div></div> Structural Design			
	<div></div> Mock-Up Association		<div></div> As-Built Drawings		<div></div> Design-, Cost Optimization			
	<div></div> Execution Compliance Control				<div></div> BMU Concept & Design			
	<div></div> Approval of As-Built Docs							
	<div></div> Variation Claim Evaluation							
	<div></div> Handover							
In Use	<div></div> Monitoring				Diverse		<div></div> PI Insurance	
	<div></div> Defect-/Failure Investigation							

# More than just classic Building Physics

*Consulting through all phases*

## ● Thermal Building Physics

- Energy verification
- Component Catalogue
- Heat flow calculations
- Radiation-physical characteristics of glazing and solar control systems
- Shading analysis | Sun position analysis
- Design Compliance Control
- Execution Compliance Control

## ● Building and component simulations

- Thermal building simulation
- Hygrothermal simulation

## ● Decentralised energy generation

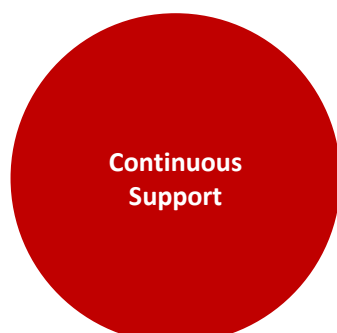
- Photovoltaics & Solar Thermal

## ● Green Building Certification

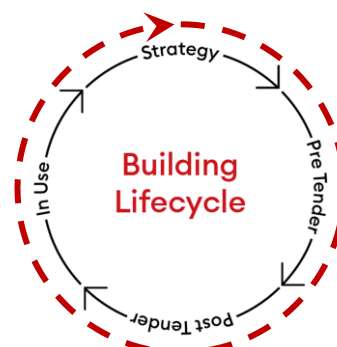
- Energy verification
- Energy Performance Certificate

## ● Building acoustics

- Noise protection
- Noise immission control
- Room acoustics
- Execution Compliance Control | Measurements



for





© Sergei Tchoban,  
nps tchoban voss/ P. Meuser

CityQuartier DomAquaree, Berlin

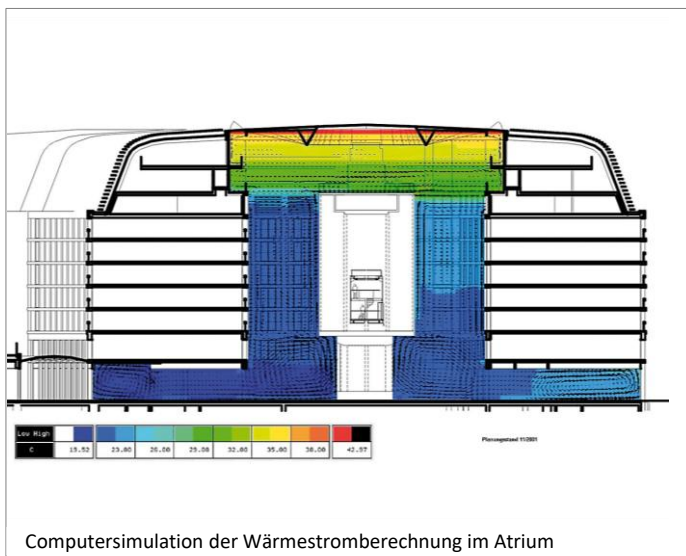
# Thermal Building Physics

*energy-economic, structural, and hygienic thermal insulation*

Wherever a building component borders on different temperatures, air humidity or airflow, physical processes take place and damage can occur; everywhere, thermal protection or comfort can be insufficient, or the energy losses are unacceptable.

Based on the overall energy balance, energy standards, and environmental conditions, we develop the specifications for the entire thermal building envelope and all relevant components' layered structure.

In this way, we avoid unnecessary heat loss, excessive heat input and moisture damage. Moreover, considering the building services concept, we create the basis for comfortable low-energy buildings.





## Energy standards

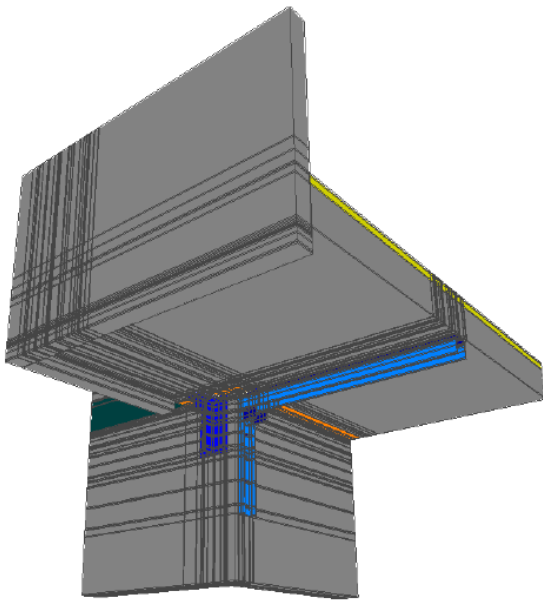
Applying energy standards or low and passive house requirements is routine for us.

Minimising CO<sub>2</sub> emissions and reducing resource consumption is what drives us. Therefore, we are happy to advise and plan what makes sense to achieve green building certification, such as DGNB, LEED or BREEAM.



Mitglied der  
**DGNB**

Deutsche Gesellschaft für Nachhaltiges Bauen  
German Sustainable Building Council



Balkonkonstruktion mit statischer Ertüchtigung und 3D-Wärmestromberechnung

## Total Energy Balance

We determine the necessary values from building services and the entire thermal building envelope and calculate the overall energy balance of a building.

In residential buildings, the transmission heat losses of the building envelope play a unique role. We determine the specific heat losses and can thus advise the architect on how large the proportion of window area in the building envelope may be.

## Isotherm progression and thermal bridges

We analyse the isothermal curve within a planned or executed construction and calculate 2- or 3-dimensional thermal bridges. This enables us to identify weak points and suggest solutions to prevent condensation and eliminate the risk of possible mould growth.

## Material Consideration

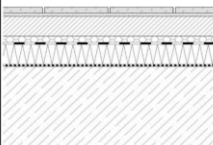
We calculate the necessary U-values and resulting insulation thicknesses, make specific material suggestions considering sound insulation and fire protection; we give advice on the correct wall structure and determine the g-values taking into account the measures selected to provide protection from the sun.

## Component structure with layered structure

We create a catalogue for the entire building or selected components, which shows each element with its layered structure, material qualities and the respective building physics specifications.

Acoustic and fire protection requirements can be added. In this way, those involved in planning receive a clear list of the individual building components, which can also be used as a specification for awarding contracts.

Bauteilkatalog			
Bauteilbezeichnung		Lage	Bauteilnummer
Terrazzoplatten auf Calciumsulfatestrich in Verbindung mit Fb 121.001		Decke über UG Foyer E0	Fb 141.001
Bauteilaufbau (von innen nach außen)			
Nr.	Baustoff	Schichtdicke [m]	Rohdichte [kg/m³]
1	Terrazzoplatten	0,0200	2000
2	Mittelbettmörtel	0,0100	2000
3	Calciumsulfatestrich	0,1000 a)	2100
4	Heiz-/Kühlestrich Montageplatte	0,0300	2100
5	Polyethylenfolie	0,0004	1100
6	extrud. Polystyrol-Hartschaum	0,1000	45
7	Epoxidharz-Beschichtung	0,0020	1200
8	Stahlbetondecke	0,5000 a)	2400
a) gemäß Statik			



Belastung (Flächenlast nach Angabe Statik): 7,5 kN/m<sup>2</sup>

Bauteilaufbau gesamt: 76 cm

Fußbodenhöhe ab OK Decke: 26 cm

**bauphysikalische Bewertung**

Wärmedurchgangskoeffizient (U-Wert): U = 0,28 W/m<sup>2</sup>K

bewerteter Norm-Trittschallpegel: Bauteil ohne baurechtliche Anforderung

bewertetes Schalldämm-Maß: Bauteil ohne baurechtliche Anforderung

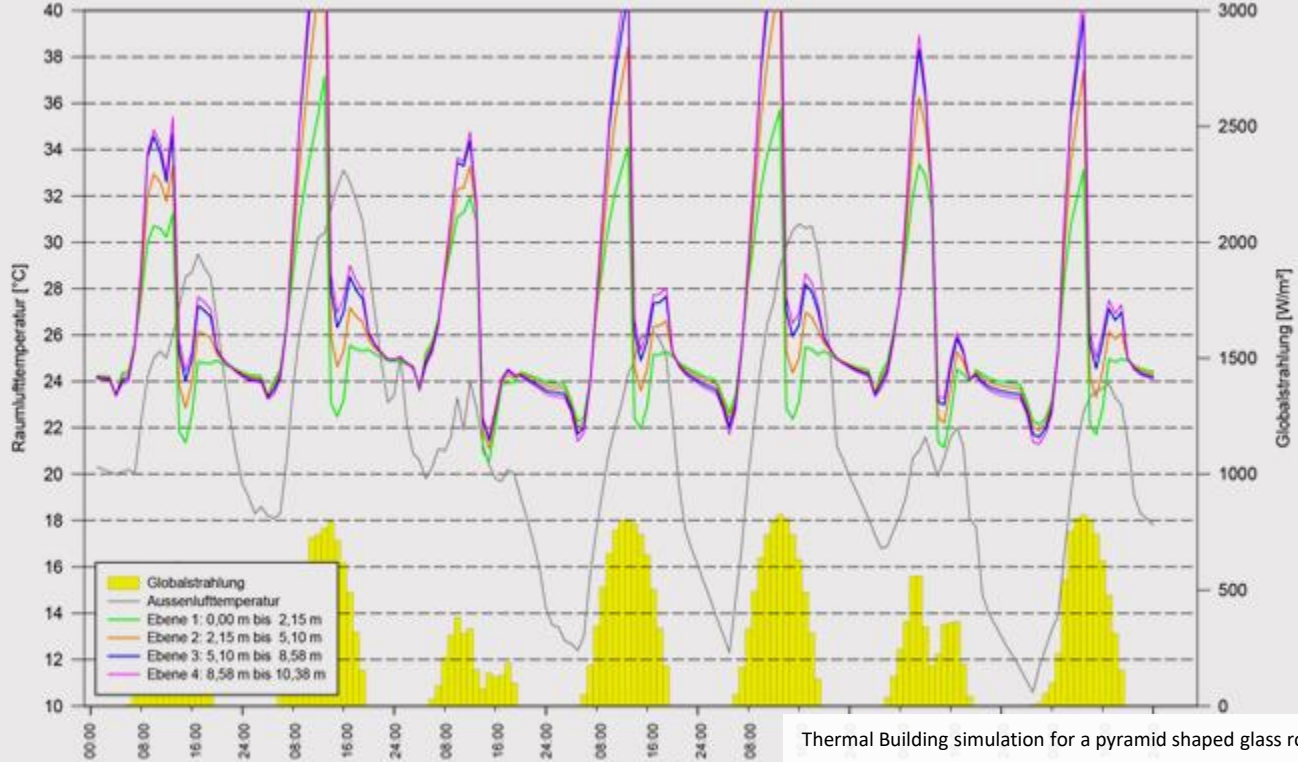
**Anforderungen und Hinweise zu den oben genannten Schichten des Bauteilaufbaus**

1 Rutschhemmung: nach Angabe Architekt

3 Calciumsulfatestrich als Estrich auf Dämmschicht (schwimmender Estrich) nach DIN 18560, Teil 2

Vor Verlegung der Steinbeläge muss der Estrich geschliffen, grundiert und gespachtelt werden. Estrichbewehrung nach allgemein anerkannten Regeln der Technik.

Auszug aus einem Priedemann Bauteilkatalog



Thermal Building simulation for a pyramid shaped glass roof

# Building Simulation

*Anticipating complex realities through digital simulation tools*

## Thermal Building Simulation

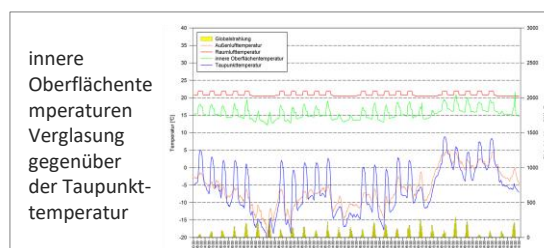
Buildings, their function and construction and their technical systems are becoming increasingly complex. As a result, standardized calculation methods are often insufficient to determine or optimize energy or building physics values. Here we rely on various simulation tools. We integrate the building model, the building services concept and all exterior and interior components and climate data into our programs.

We can thus determine the comfort values according to ISO7730, the heating and cooling loads for a building or different variants to find the best solution. The focus is often on the operative room and max room air temperature or the maximum number of hours in which these values are exceeded.

## Flow Simulation

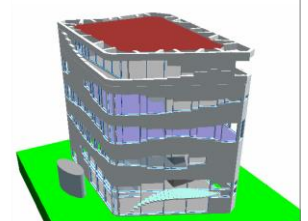
How comfortable are the temperatures on the galleries of a multi-storey atrium, or where do which airflow velocities prevail in a mall, how is the climate distributed in such complex spaces, what changes is it subject to during the course of the day and the seasons, or with changing conditions of use?

To analyze such complex systems and processes, we use 3-dimensional flow simulations (CFD Computational Fluid Dynamics). To do this, we transfer the 3D data of the building model into CFD-readable data. With the energy and building physics values and the weather data, qualified statements can then be made for further planning.



innere  
Oberflächente-  
mperaturen  
Verglasung  
gegenüber  
der Taupunkt-  
temperatur

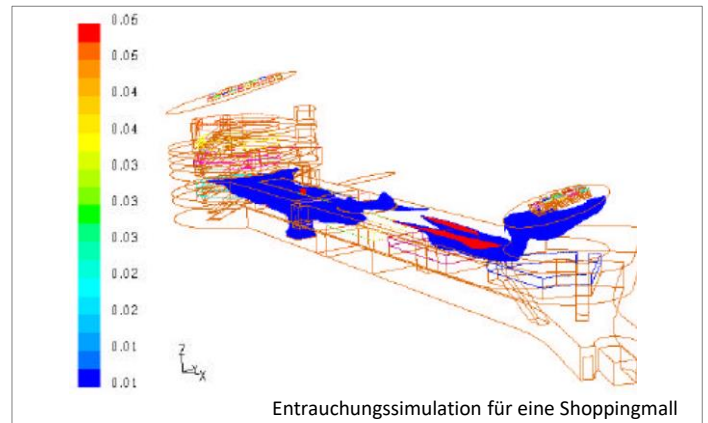
Diagramm, Raum-  
aufteilung und  
3D-Gebäude-  
modell aus einer  
thermischen  
Gebäude-  
simulation



## Smoke extraction scenarios

The verification of the necessary smoke extraction and air leakage cross-sections can be carried out by calculation but often do not do justice to the concrete conditions.

By using CFD programs, the cross-sections and the number of smoke extraction openings can often be reduced, or their arrangement optimized.



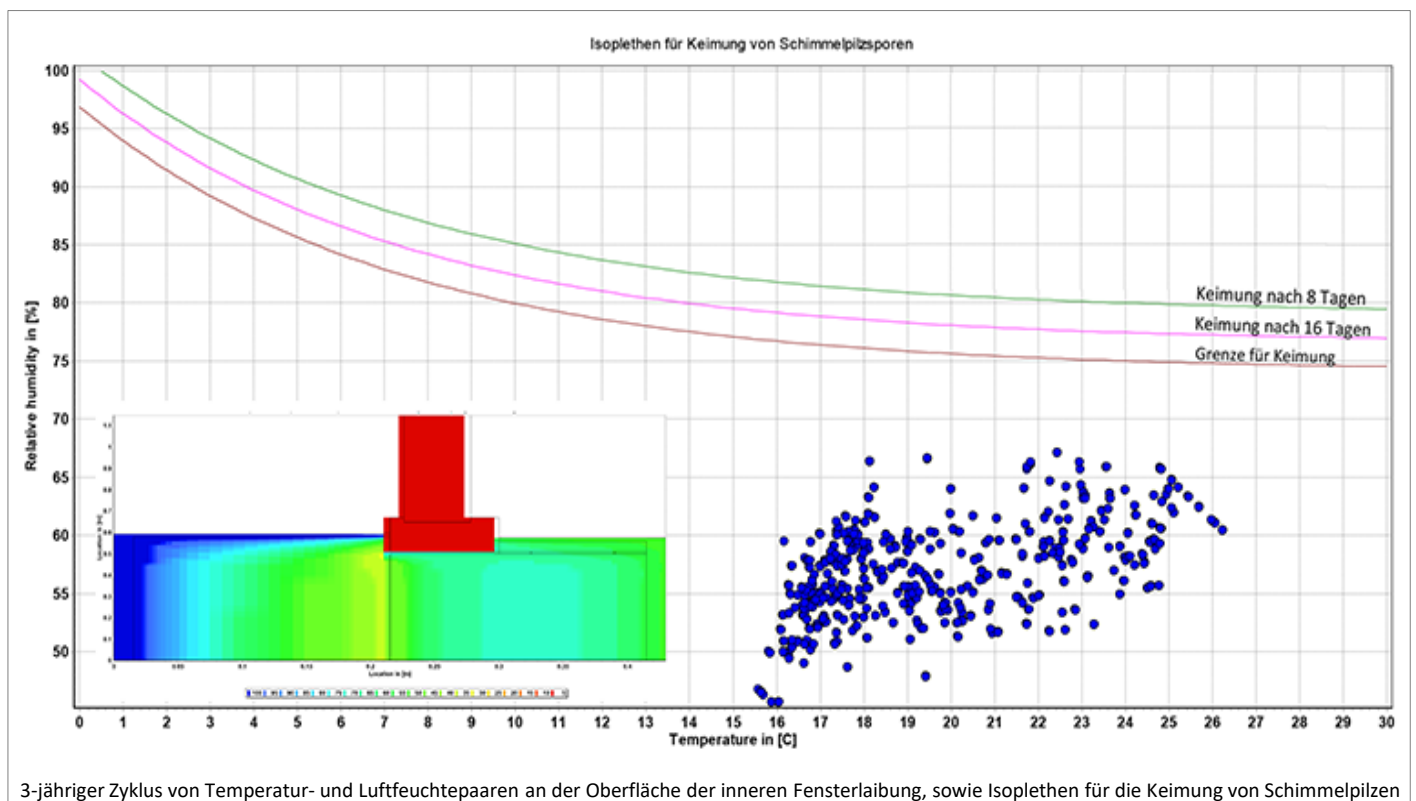
## Hygrothermal Simulation

Moisture balancing is useful for determining possible condensation within structures in order to avoid planning errors and structural damage.

For specific components, the so-called "Glaser method" cannot be used as a simple method of moisture protection with vapour diffusion calculations; it would even lead to incorrect results.

We assess and dimension such components in an overall balance of heat, moisture and mass transfer processes on an unsteady basis.

The transient moisture balance of the components is carried out in a one-dimensional or two-dimensional orientation and is performed according to DIN EN 15026.







Zentrum für Photovoltaik, Berlin

# Decentralised energy generation

*Collecting and harnessing solar energy where it is generated*

**Save fossil energy, reduce operating costs, increase efficiency.**

Worldwide, building operations consume about 1/3 of the total primary energy, more than 80 % of which is generated from fossil fuels, while energy demand is growing. In addition, energy generation is mostly centralized, while provision is via lossy supply networks.

The use of solar energy hitting the building envelope therefore seems more than sensible. In combination with solutions to use energy more efficiently, the consumption of fossil fuels is reduced.

**Potential of solar façade systems:**

today's façade systems can generate both heat and electric power

- facade areas are often larger than roof areas
- roof areas are often already intensively used by building services, terraces or plantings
- the residential sector mainly needs heating energy, the commercial sector mainly needs cooling energy and the industrial sector processes energy
- the highest cooling demand is when the solar radiation is at its highest; this source can be harnessed with solar cooling systems.

We determine the energy demand, evaluate the potential based on local weather data, the building location and orientation, and work out the concepts and solutions for façade-integrated energy generation together with the specialists involved.



# Building acoustics

*The power lies in the silence*

Priedemann offers comprehensive expertise from the determination of noise level values and the resulting requirements for (facade) components to the preparation of noise protection reports and recommendations for the containment of sources of domestic noise. Our services cover the entire planning and execution process.

## **Calculating and adjusting noise level values**

We determine the noise-level values that occur locally as the basis for planning the necessary noise protection and the required noise protection values for individual rooms, taking into account the planned use. We compare the values obtained with the legal and project-specific requirements.

## **Preparation of sound- and noise protection reports**

We prepare sound and noise protection reports as part of the approval process.

## **Ambient noise level**

We determine the ambient noise level and reverberation times in the room and give recommendations on sound absorption and the distribution of sound-absorbing elements and surfaces..

## **Requirements for the facade components**

From this we can deduce the requirements for the facade components and recommend suitable constructions and material qualities. We take into account the flank transmission over adjacent components and spaces and influence the arrangement and design of the substructure, the choice of window and glazing types as well as the selection of materials and sensible arrangement of joins



### **Sound Absorption**

We calculate the sound-absorption surfaces required and propose suitable sound-absorbing materials and surfaces as well as their positioning within the framework of a spatial concept.

Improving the intelligibility of speech: We develop ways to make speech intelligible and to avoid disturbing echoes in the room.

### **Sound Pressure**

We define the structural conditions for the maximum permissible sound pressure level in rooms where protection is required.

### **Evaluation of internal Emission**

We evaluate the emissions of technical installations and give recommendations for compliance with the prescribed noise level values.

### **Improving the intelligibility of speech**

We develop ways to make speech intelligible and to avoid disturbing echoes in the room.



# Thermal Building Physics & Acoustics

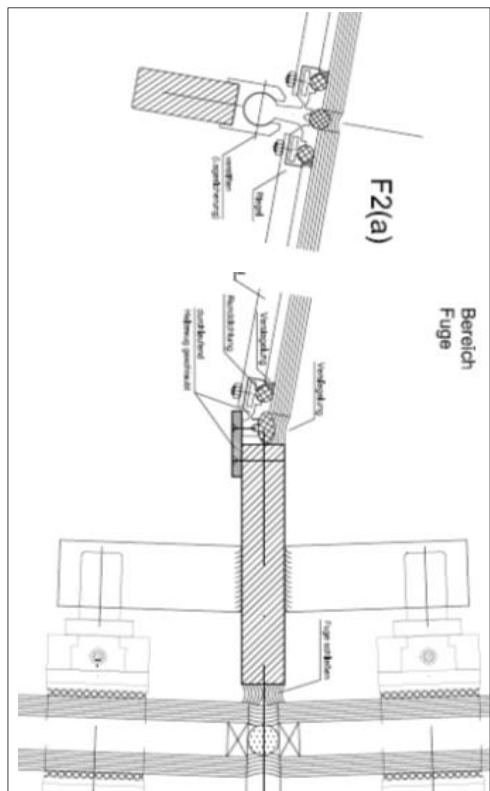
*Reference selection*



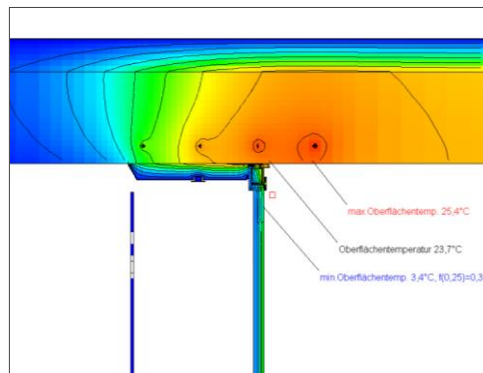


Image by Inge Kanakaris-Wirtl, hosted on wikipedia

Hans Otto Theater in Potsdam at twilight



Typical detailing



Heat flow and surface temperature calculation



Facade elevation of point fixed glazing

**Client**

Provincial capital Potsdam

**Owner ▪ Developer**

Provincial capital Potsdam

**Architect**

Gottfried Böhm

**Project Data**

- approx. 21 m building height
- approx. 350 m<sup>2</sup> facade surface

**Building Function**

Theatre

**Technical Features**

- Polygonal steel facade, point-fixed glazing
- Double skin facade

**Consultancy Services**

- Project Objectives and Brief
- Concept/Schematic Design
- Technical/Construction Design
- Specification/Tender Documentation

**Special Services**

- Thermal Building Physics
- Simulations

**Status**

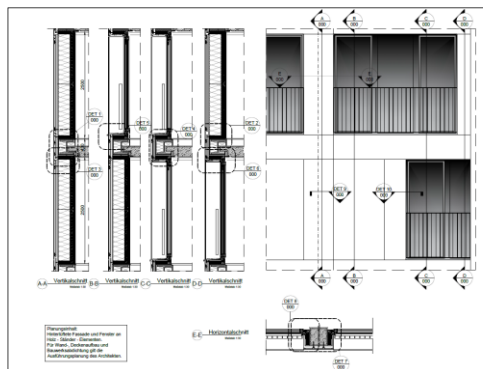
Completed 09/2006



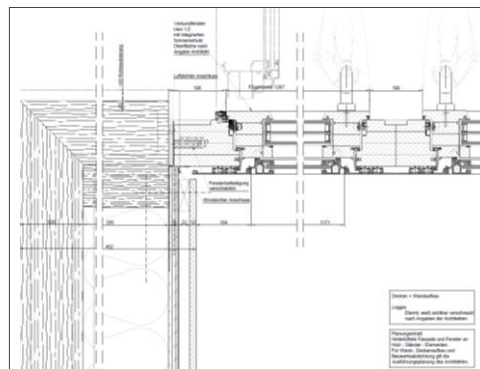


Image by Bernd Borchard

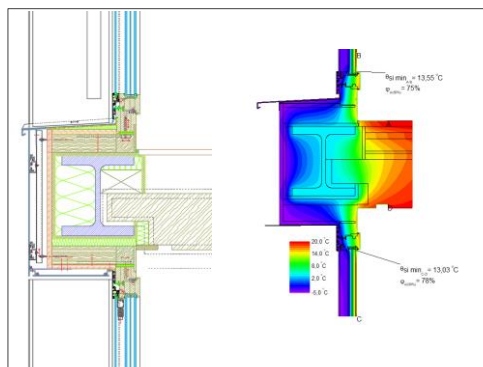
Visualization of SKAIO in Heilbronn



Typical detail overview, wood-aluminium windows



Horizontal loggia detail, lateral connection



Thermal Building Physics



During construction progress

## Client

Stadsiedlung Heilbronn

## Owner • Developer

Stadsiedlung Heilbronn

## Architect

Kaden + Lager

## Project Data

- approx. 34 m building height

## Building Function

Residential

## Technical Features

- Wooden skyscraper
- Rain screen, wood-aluminium, metal sheet
- Composite window, wood-aluminium integrated sunscreen
- Stick-system facade, wood-aluminium

## Consultancy Services

- Project Objectives and Brief
- Concept/Schematic Design
- Detailed/Developed Design
- Technical/Construction Design
- Specification/ Tender Documentation

## Special Services

Thermal Building Physics

## Status

Completed 05/2019

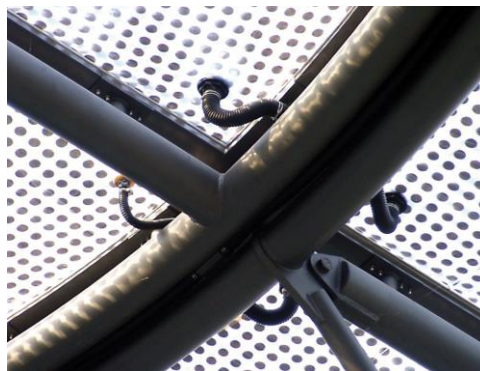




Aerial side perspective, inclined and bended glass roof glazing at the sides and foil roof in the centre



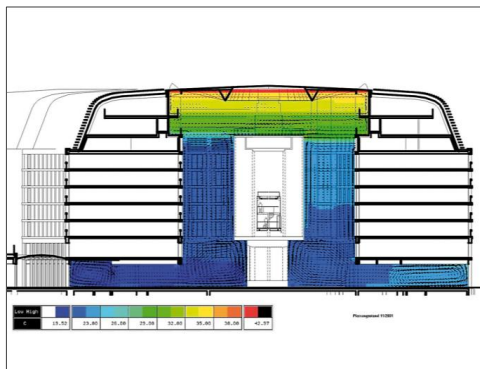
Foil roof structure as seen from below



Foil roof junction



Inclined and bended roof glazing, window cleaners at work



Computer simulation of thermal stratification in the atrium

#### Client

DIFA Deutsche Immobilien  
Fonds AG

#### Owner • Developer

DIFA Deutsche Immobilien  
Fonds AG

#### Architect

nps tchoban voss

#### Project Data

- approx. 30 m building height
- approx. 50,000 m<sup>2</sup> facade surface

#### Building Function

Hotel, Office, Residential,  
Retail

#### Technical Features

- Fully glazed facade, inclined
- Stick system facade
- Integrated sunshade
- Natural stone facade
- Glass roof
- Foil roof

#### Consultancy Services

- Project Objectives and Brief
- Concept/Schematic Design
- Detailed/Developed Design
- Technical/Construction Design
- Specification/Tender Documentation
- Tender Evaluation
- Design Compliance Control
- Execution Compliance Control

#### Special Services

- Thermal Building Physics
- Building Acoustics
- Simulations
- Maintenance, Cleaning, Facade Access, BMU

#### Status

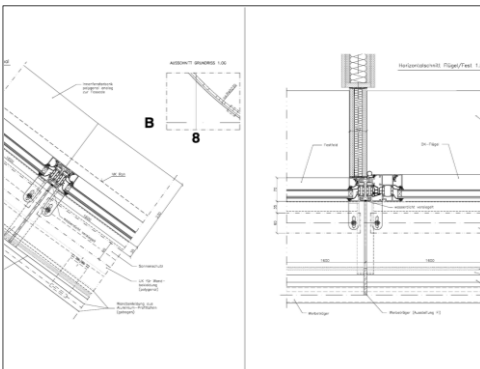
Completed 04/2004



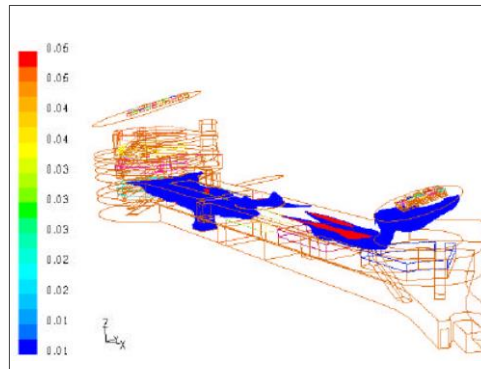


Image by ECE Development

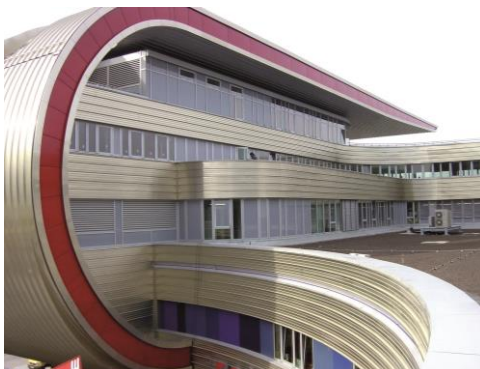
Eastgate Shopping Center in the evening



Typical detailing of stripped window with sunscreen



Computer simulation for smoke extraction



Curved aluminium standing seam profiles



Facade elevation with stick system and curved Kalziprofiles

#### Client

ECE Project Development

#### Owner ▪ Developer

Eastgate KG

#### Architect

- ECE Architects
- Granz Architects

#### Project Data

- approx. 18 m building height
- approx. 26,750 m<sup>2</sup> facade surface

#### Building Function

Shopping Mall

#### Technical Features

- Stick system facade
- Curved Kalziprofiles
- Revolving doors
- Elliptical glass roofs

#### Consultancy Services

- Project Objectives and Brief
- Concept/Schematic Design
- Detailed/Developed Design
- Technical/Construction Design
- Specification/Tender Documentation
- Tender Evaluation
- Design Compliance Control
- Execution Compliance Control

#### Special Services

- Thermal Building Physics
- Simulations

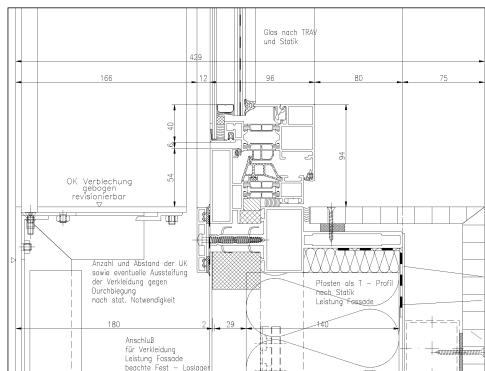
#### Status

Completed 10/2005





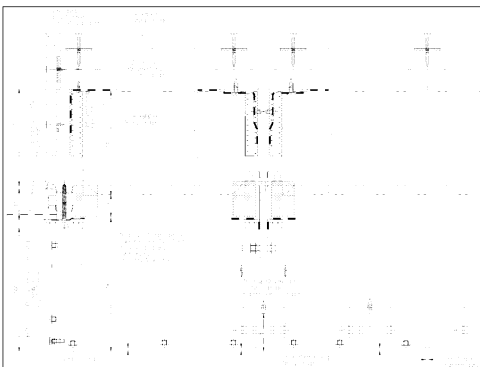
Ottobock HealthCare after completion



Fixture of flashing - vertical section



Facade elevation with a look at the building edge



Fixture of flashing - horizontal section



Metal panel facade with stripped windows, inside elevation

**Client**

VITERRA Development

**Owner ▪ Developer**

Otto Bock HealthCare

**Architect**

Gnädinger Architekten

**Project Data**

- approx. 22 m building height
- approx. 3,500 m<sup>2</sup> facade surface

**Building Function**

Competence Centre for Health Care Technology

**Technical Features**

- Stick system facade, straight mullions, curved transoms, aluminium
- Structural glazing facade, partly curved

**Consultancy Services**

- Project Objectives and Brief
- Concept/Schematic Design
- Technical/Construction Design
- Specification/Tender Documentation
- Execution Compliance Control

**Special Services**

- Simulations

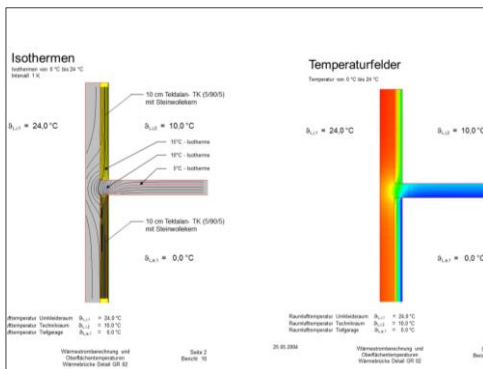
**Status**

Completed 06/2009





KPMG Headquarters Köbis-Dreieck in Berlin



Thermal Building Physics - heat flow calculation



Controlled, vertical glass lamellas as-built



Unitized curtain wall with integrated walkway and rotatable vertical lamellas, external sunshade in open state

#### Client

INVESTA, HOCHTIEF  
and Groth Group

#### Owner • Developer

Köbis Dreieck Berlin-Fonds

#### Architect

- Nicolas Grimshaw &  
Partners, London  
- Claus Neumann Architekten,  
Berlin

#### Project Data

- approx. 27 m building height  
- approx. 12,200 m<sup>2</sup>  
facade surface

#### Building Function

Office

#### Technical Features

- Unitized curtain wall,  
integrated maintenance  
walkway
- External sunshade,  
controllable vertical glass  
lamellas
- Stick system facade
- Parallel opening windows,  
integrated sunscreen
- Atrium skylight

#### Consultancy Services

- Project Objectives and Brief
- Detailed/Developed Design
- Technical/Construction  
Design
- Specification/Tender Doc.
- Tender Evaluation
- Design Compliance Control
- Mock-Up Association
- Execution Compliance Control

#### Special Services

- Thermal Building Physics
- Energy Performance  
Certificates

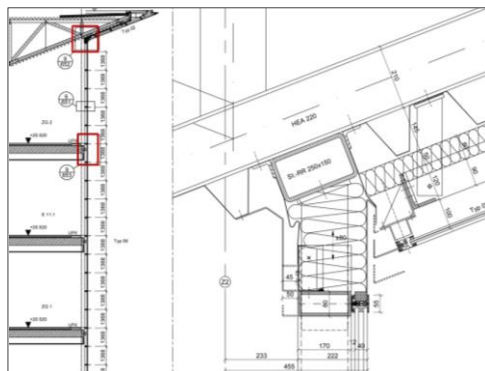
#### Status

Completed 10/2005

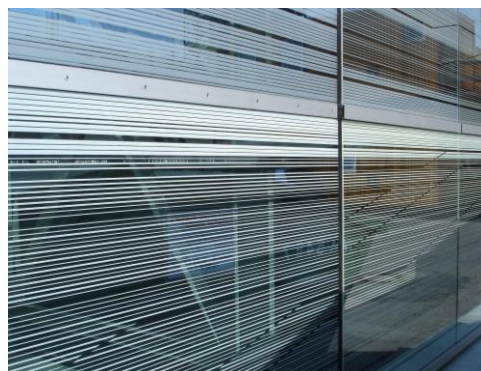




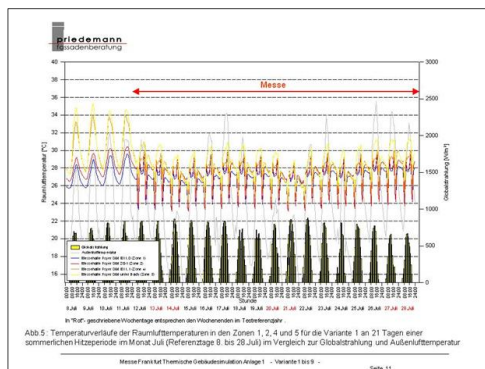
Portal building of the Frankfurt Fair



Typical detailing of the portal building



Glass facade elevation with silk screen printings



Excerpts of computer simulation



Facade elevation of exhibition hall 11 with precast reinforced concrete units

#### Client

Messe Frankfurt Venue  
GmbH & Co.KG

#### Owner ▪ Developer

Messe Frankfurt Venue  
GmbH & Co.KG

#### Architect

Hascher Jehle Architektur

#### Project Data

- approx. 30 m building height
- approx. 73,000 m<sup>2</sup> facade surface

#### Building Function

Exhibition Building

#### Technical Features

- Stick system facade
- Rain screen
- Aluminium cladding
- Silk screen printings
- Lamella facade
- Precast reinforced concrete units

#### Consultancy Services

- Project Objectives and Brief
- Detailed/Developed Design
- Technical/Construction Design
- Design Compliance Control
- Execution Compliance Control

#### Special Services

- Thermal Building Physics
- Simulations

#### Status

Completed 08/2009





Eight Edges in St. Petersburg, after finalization

#### Client

Leorsa Group

#### Owner • Developer

Leorsa Group

#### Architect

GRIMSHAW Architects

#### Project Data

- approx. 45 m building height

#### Building Function

Office

#### Technical Features

- Unitized curtain wall
- Stick system facade
- Point-fixed glass lamella (service floor)

#### Consultancy Services

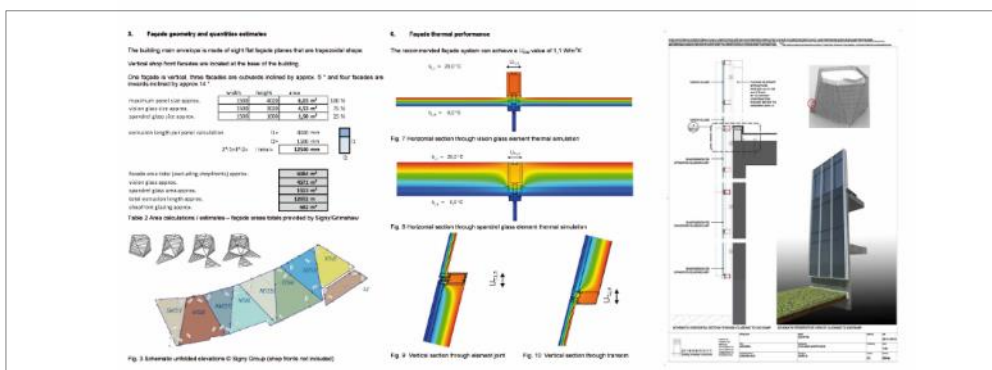
- Project Objectives and Brief
- Concept/Schematic Design
- Detailed/Developed Design
- Technical/Construction Design
- Specification/Tender Documentation
- Tender Evaluation
- Design Compliance Control
- Execution Compliance Control

#### Special Services

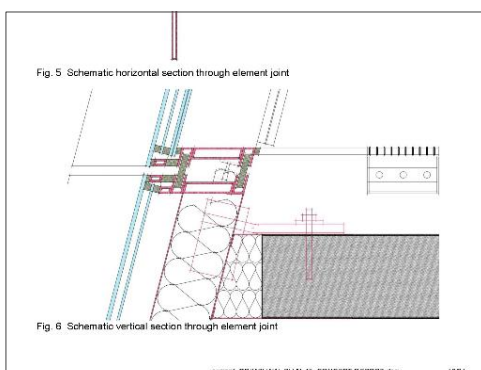
- Thermal Building Physics
- Maintenance, Cleaning, Facade Access, BMU

#### Status

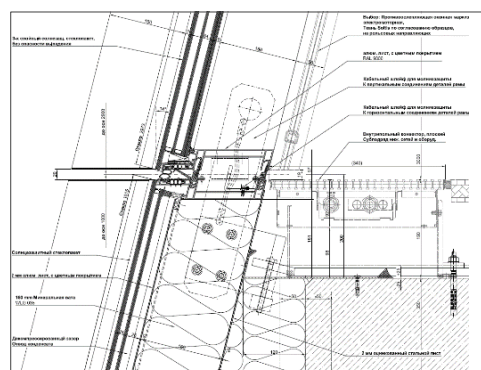
Completed in 2014



Excerpt of the facade concept report



Concept stage, vertical section detail



Typical detailing of unitized curtain wall, vertical section

# Africa Ethiopia

# Julius Nyerere Peace & Security Building of the African Union, Addis Ababa



Architectural model of the Peace & Security Building

Architectural design and model by Hascher Jehle Architektur

## Client

Hascher Jehle Architektur

## Owner • Developer

Deutsche Gesellschaft  
für Technische  
Zusammenarbeit GmbH  
on behalf of the German  
Federal Foreign Office

## Architect

Hascher Jehle Architektur

## Project Data

- ca. 25 m building height
- ca. 4.500 m<sup>2</sup> facade surface

## Building Function

Office

## Technical Features

- Earthquake resistant
- Rain screen,  
natural stone masonry
- Ribbon windows
- External sunshades
- Stick system facade

## Consultancy Services

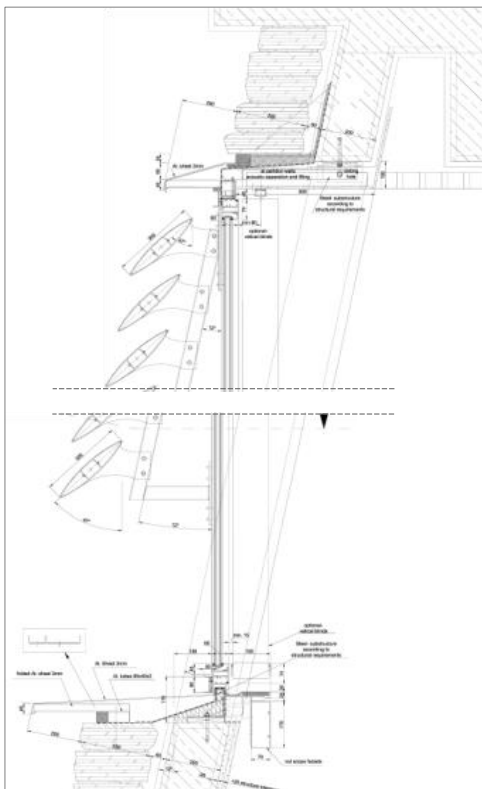
- Project Objectives and Brief
- Concept/Schematic Design
- Detailed/Developed Design
- Technical/Construction  
Design

## Special Services

- Thermal Building Physics
- Simulations

## Status

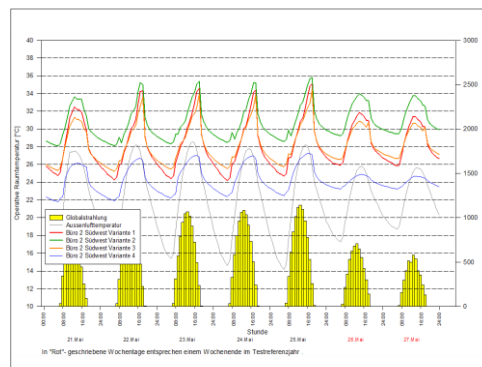
Completed 10/2016



Vertical sections – ribbon window with sun protection  
top and bottom detail



Facade elevation - main facade



Excerpt: Results of thermal building simulation





**Client**  
NORDBORN I S.a.r.l.

**Owner**  
NORDBORN I S.a.r.l.

**Developer**  
FREO Investment  
Management S.a.r.l.

**Architect**  
Stauber Associates  
project-services GmbH

**Project Data**  
- approx. 30 m height  
extension building  
- approx. 45 m height  
existing building  
- approx. 12,500 m<sup>2</sup>  
facade surface

**Building Function**  
Office, Residential, Retail

**Technical Features**  
- Natural stone facade with  
ribbon windows  
(existing building)  
- Stick system facade  
(extension building)

**Consultancy Services**  
- Project Objectives and Brief  
- Refurbishment  
- Concept/Schematic Design  
- Detailed/Developed Design  
- Technical/Construction  
Design  
- Specification/Tender  
Documentation  
- Tender Evaluation

**Special Services**  
- Thermal Building Physics  
- Building Acoustics  
- Energy Performance  
Certificates

**Status**  
Completed 02/2014

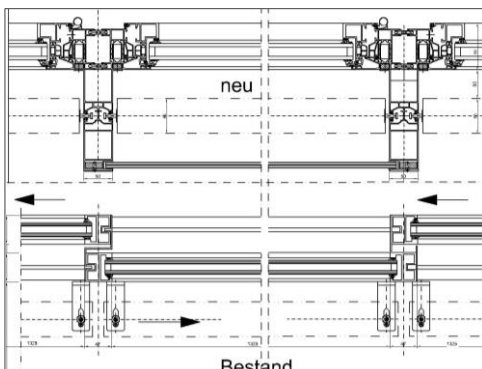
The extension building at Kudamm N°195, view from the Kurfürstendamm



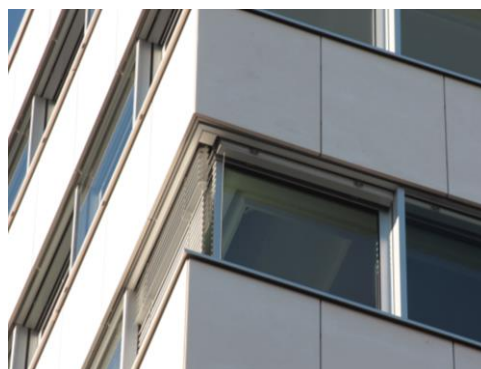
Thermal building physics - zoning



Facade elevation of the extension building



Comparison of actual state and concept for refurbishment, horizontal details

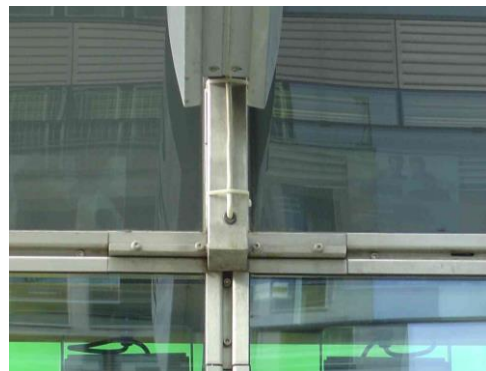


Facade detail after refurbishment

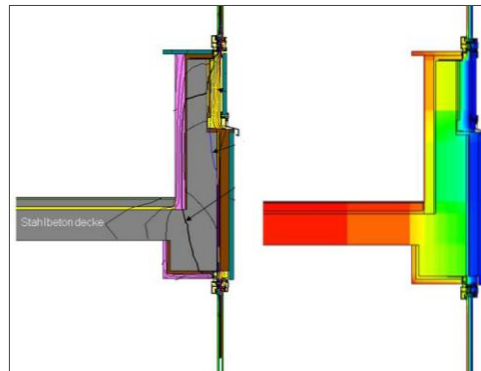




Linder Hotel at the Kurfürstendamm



Facade detail



Excerpt from heat flow calculation



Stick system facade on the first levels



Acoustic windows in historical appearance

#### Client

GEBAU Technik GmbH

#### Owner • Developer

DIFA Deutsche Immobilien  
Fonds AG

#### Architect

Bellmann & Böhm Architekten

#### Project Data

- approx. 22 m building height
- approx. 4,000 m<sup>2</sup> heritage-protected facade

#### Building Function

Hotel

#### Technical Features

- Sound insulation windows in historical appearance
- Integration of existing natural stone matching spandrels
- Colour uniformity with reduced reflection values for sun protection and thermal insulation glass
- Stick system facade

#### Consultancy Services

- Project Objectives and Brief
- Refurbishment
- Concept/Schematic Design
- Technical/Construction Design
- Specification/Tender Documentation
- Execution Compliance Control

#### Special Services

Thermal Building Physics

#### Status

Completed 04/2004



# Priedemann Facade Experts

*Thinking global – Acting local*





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