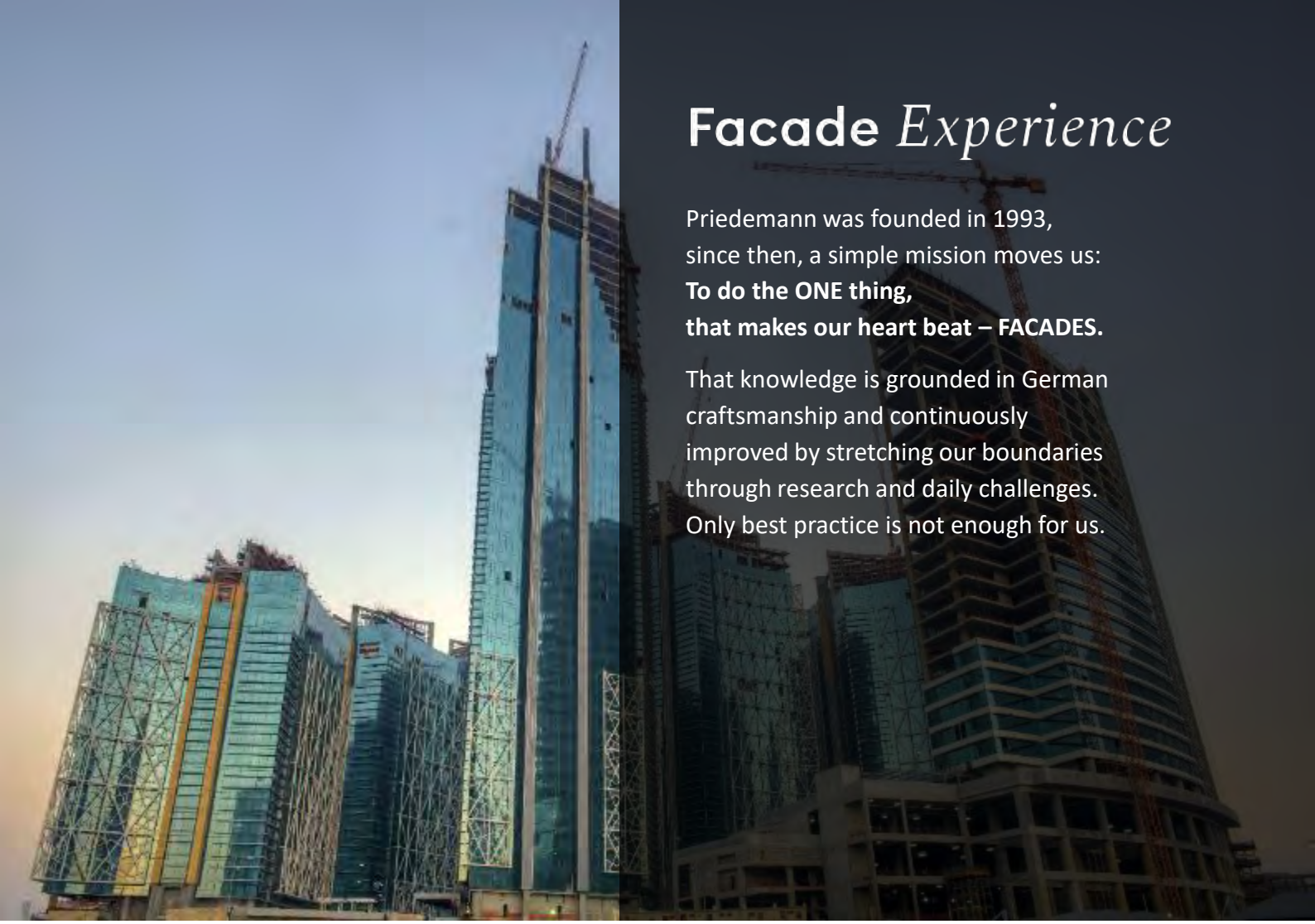
priedemann
facade experts

Responsibility

from concept beyond completion



Facade *Experience*

Priedemann was founded in 1993,
since then, a simple mission moves us:
To do the ONE thing,
that makes our heart beat – FACADES.

That knowledge is grounded in German craftsmanship and continuously improved by stretching our boundaries through research and daily challenges. Only best practice is not enough for us.

Building *Skins*

Facade Consultancy & Engineering Services

We are focused on Facades: Priedemann Facade Experts are global operating engineering offices with the focus specifically on the building envelope. In a unique way we make our holistic full-service facade competency available to investors, architects and building contractors. Beside façade consultancy and third-party execution control, we develop the system design and prepare the final shop drawings. Mastered facade techniques, brave to own responsibility and the passion to chase nearly impossible objectives are our strengths.

Services

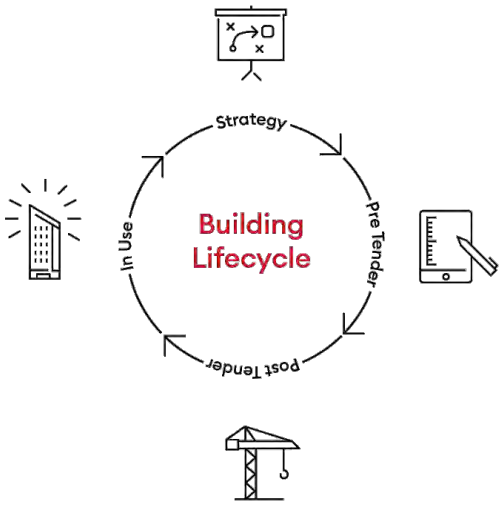
Whether it is the comprehensive consultancy package or a single engineering discipline; our clients can rely on Priedemann's competency from project conceptualization to the stages beyond commissioning. We understand the envelope as an interface to almost all adjacent trades and we consider ourselves as the partner of all five main construction participants, namely the investor/ developer to the architect/ general consultant, the general contractor and the façade fabricator extending finally to the supplier of the envelope's components and materials. Over 1,000 successfully completed projects world over and long-term client relationship tells its own tale.

Beyond standard Solutions

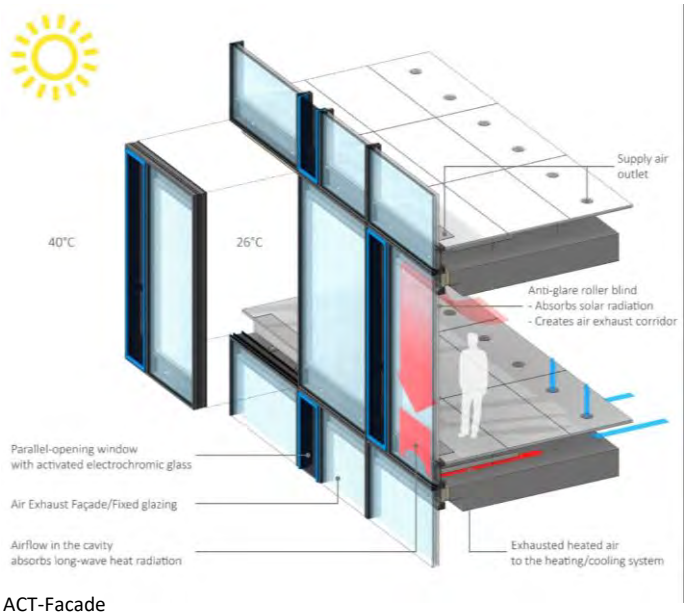
Dare to tackle something new, exceed expectations – Priedemann Facade Experts stands for innovative solutions with a practical approach. Beside applied implementation of sophisticated facade projects in all climate zones, we contribute in research and engage in professional knowledge exchange. The Facade-Lab, a subsidiary of Priedemann, drives the quest for innovative facade solutions and develops specific and customized products. We develop and test these products together with our partners from the science and research industry. In addition, a separate facade forum offers a platform for the exchange with colleagues and manufacturers. In a showroom of 750 sqm we exhibit over 60 mock-ups, material samples and information.

Sustainability *Concept*

We at Priedemann Facade Experts understand our great responsibility for the sustainable use of material and energy resources. With this in mind, we are a member of the **Council on Tall Buildings and Urban Habitat (CTBUH)**, the **German Sustainable Building Council (DGNB)** and the **Aluminium Wertstoffkreislauf (A|U|F; aluminum reusable material cycle),** among others.



Furthermore, under the guiding principle **"Close The Loop"**, we pursue a comprehensive approach in our planning services, which considers the building envelope in interaction with the overall structure, from planning, through production and operation, to deconstruction and reuse. In this context, our understanding of sustainability is based on an ecological, economic, and social approach. Additionally, following current **DGNB** criteria, we consider the technical quality of the facades we construct, the quality of their manufacturing processes, and their impact on the project site.



ACT-Facade

We are convinced that providing innovative technologies is key to achieving ambitious sustainability goals. That is why we are actively developing new technical solutions in our R&D department with academic and industrial partners from various research backgrounds and networks, such as the **Innovation Network on Functional Facades** or the **Cradle-2-Cradle Façade Network**. These endeavours include façade integration of renewable energy generation in the **TABSOLAR** or **BIPVslim** project, performance enhancement of façade structures through adaptive capabilities in the **ACT Facade** and **ADAPTEX** projects, as well as the application of new materials to the façade, for example, in the **NEERO FACADE** project. Thereby we are also familiar with the methods and tools of **Life-Cycle Assessments (LCA)** of materials. Lately, we also got awarded a first prize at the international *"Metals in Construction - Design Challenge 2022"* with our concept **EVOCON**, a circular and highly adaptable façade construction.

Sustainability at Priedemann is created at the interface of façade consulting, engineering and R&D. Many of our realized projects confirm the Priedemann sustainability concept. For example, the Festo AutomationCenter high-rise completed in 2015 received the DGNB Platinum certificate, in which the novel ACT Facade developed by us was used.

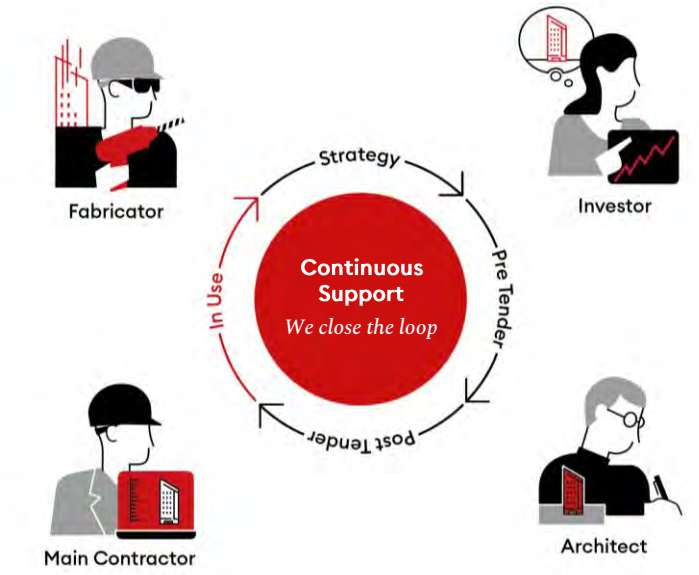
ADAPTEX in the Facade-Lab Showroom

Continuous *Support*

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

Strategy
- Architectural Competitions
- Refurbishment Concept
- Feasibility Study
- Project-/Peer Review
- Technical Due Diligence

Pre-Tender
- Project Objectives & Brief
- Concept/Schematic Design
- Detailed/Developed Design
- Technical/Construction Design
- Specs/Tender Docs
- Tender Evaluation

Post-Tender
- Design Compliance Control
- Mock-Up Association
- Execution Compliance Control
- Approval of As-Built Docs
- Variation Claim Evaluation
- Handover

In Use
- 1401 Monitoring
- 1402 Defect-/Failure Investigation

Engineering

Strategy
- Factory Layout
- Prequalification

Pre-Tender
- Bidding Stage Association
- Value Engineering

Post-Tender
- Construction Objectives & Brief
- System/Concept Design
- Mock-Up Development
- Provision/Shop Drawings
- Material Take Off
- Production Documentation
- Installation Documentation
- As-Built Drawings

Specials

Sustainability
- Thermal Building Physics
- Building Acoustics
- Simulations
- Decentralized Energy
- Green Building Certification

Digital
- 3D Modelling
- BIM
- Parametric
- Digital Production
- Media Facade

Sub-Service
- Maintenance
- Structural Design
- Design-, Cost Optimization
- BMU Concept & Design

Diverse
- PI Insurance

Facade-Lab

Collaborate
- Research & Development
- Showroom
- Forum
- Mock-Up & Prototype
- Model Workshop

Asset Transformation

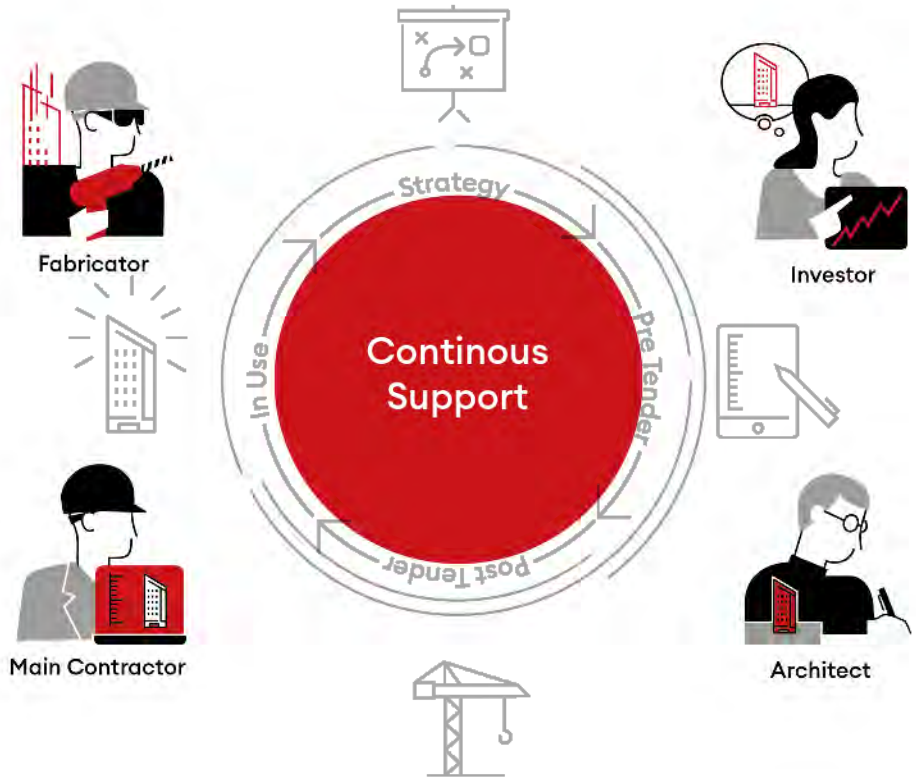
Clients as *Partners*

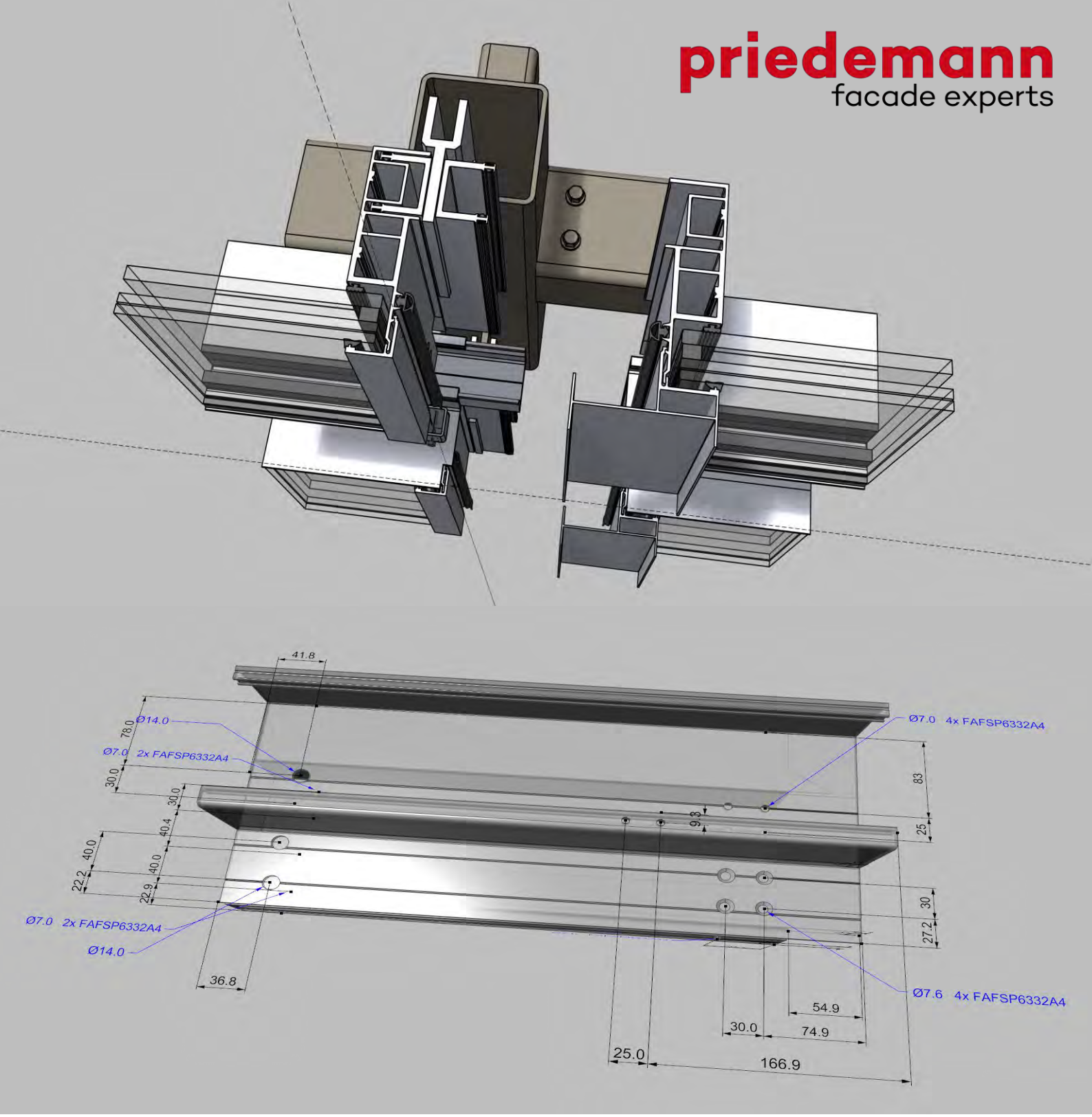
Our clients range from architects, developers, general contractors, fabricators to system suppliers.

The difference arises from the responsibility, for each planning stage and every customer

We are constantly aiming to deliver the best possible services to our clients, sharing their prime interest of accomplishing a well-constructed project.

Supporting them from the first concept sketch in an architectural competition until the last screw is tightened on the building, as well as during the entire operational phase





Priedemann Digital Twin

The efficient support in 3D and BIM for Design, Construction and Production

Clear concepts. Individual solutions. Suitable tools for every project.

We close the loop.

With Digital Twin to sustainable buildings! We optimise the building envelope through comprehensive 3D BIM planning, avoid errors, and increase efficiency.

Priedemann Digital Twin supports your project with decades of experience in the digitally supported implementation of facade projects.

We are a strong partner at every stage, from early analysis and design optimisation to models for bidding and contracting to production data development and beyond.

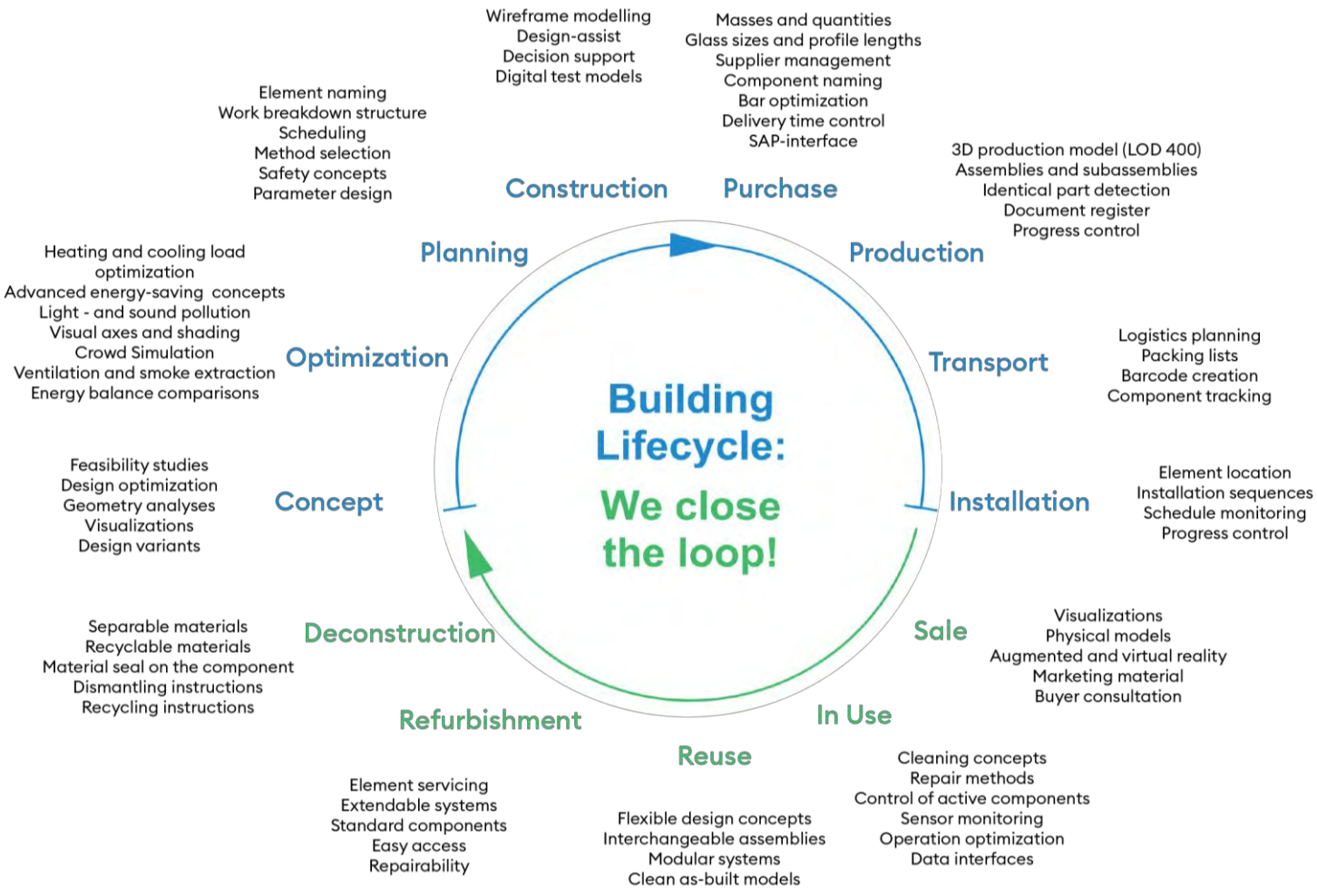
We select the most efficient digital processes for your project and, if required, develop customised methods and tools for optimal implementation of even the most complicated facades.

Through comprehensive planning of all essential aspects of each project, we optimise the entire building lifecycle, including operation, conversion or deconstruction.

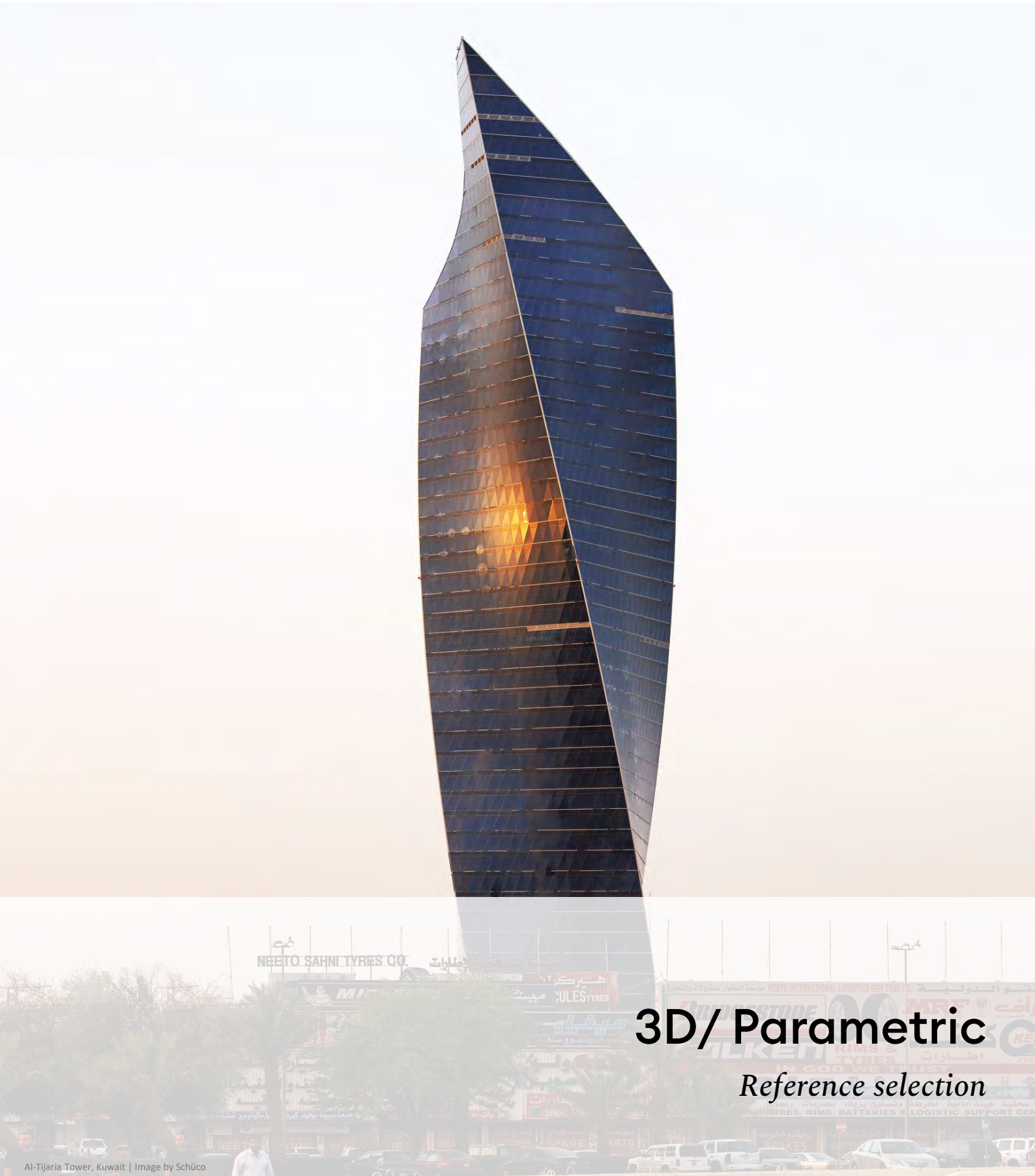
Thanks to the best digital planning, you benefit from cost-effective buildings executed with foresight and high quality.

This way, you increase planning reliability, reduce your risk, save energy and time.

Our methods based on our experience are your profit.



priedemann
facade experts



3D/ Parametric

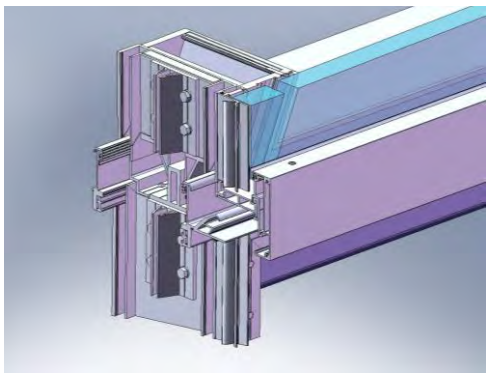
Reference selection

Al-Tijaria Tower, Kuwait | Image by Schüco

Asia
Kuwait

Al-Tijaria Tower
Kuwait City

Progress of construction work



3D construction detail

Finalized Al-Tijaria Tower

Site installation check

Mock-Up test

Client
Alico Aluminium and Light Industries Co. Ltd.

Owner ▪ Developer
The Commercial Real Estate Co.

Architect
- Al Jazera Consultants
- NORR Group Consultants

Project Data
- approx. 219 m building height
- approx. 29,000 m² facade surface

Building Function
Office

Technical Features
- Twisted facade
- Unitized curtain wall
- Structural glazing

Engineering Services
- Value Engineering
- Construction Objectives and Brief
- System/Concept Design
- Structural Design
- Mock-Up Development
- Provision/Shop Drawings
- Material Take Off
- Production Documentation
- Installation Documentation

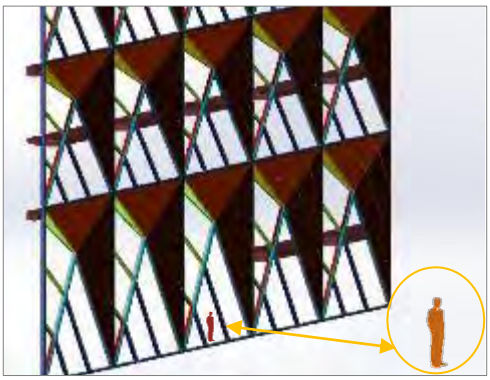
Special Services
- 3D Modelling
- Parametric Design

Status
Completed 07/2009

Asia
Russia

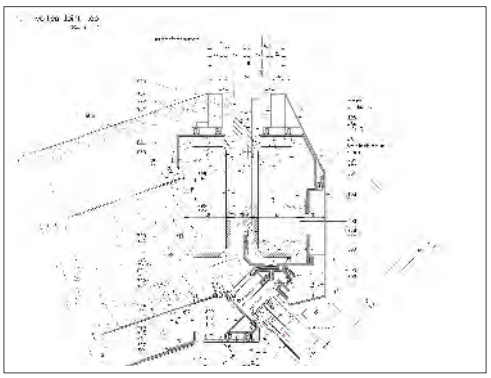
RMK New Headquarters
Yekaterinburg

RMK New Headquarters during construction progress



Façade 3D Model, different element sizes

Mock-Up on site, January 2017



Shop drawing, horizontal section of unitized curtain wall

Digital production of a junction detail

Client
- Pre-Tender: Foster + Partners
- Post-Tender: Diamond Building

Owner
Russian Copper Company

Architect
Foster + Partners

Project Data
- approx. 90 m building height
- approx. 12,500 m² facade surface

Building Function
Office

Technical Features
- Diamond shaped facade
- Oversized elements, max. element size 12 m height, 6 m width
- Semi-unitized curtain wall
- Coloured stainless steel cladding

Consultancy Services
- Detailed/Developed Design
- Technical/Construction Design
- Specification/Tender Documentation
- Tender Evaluation

Engineering Services
- System/Concept Design
- Structural Design
- Mock-Up Development
- Provision/Shop Drawings
- Material Take Off
- Production Documentation
- Installation Documentation

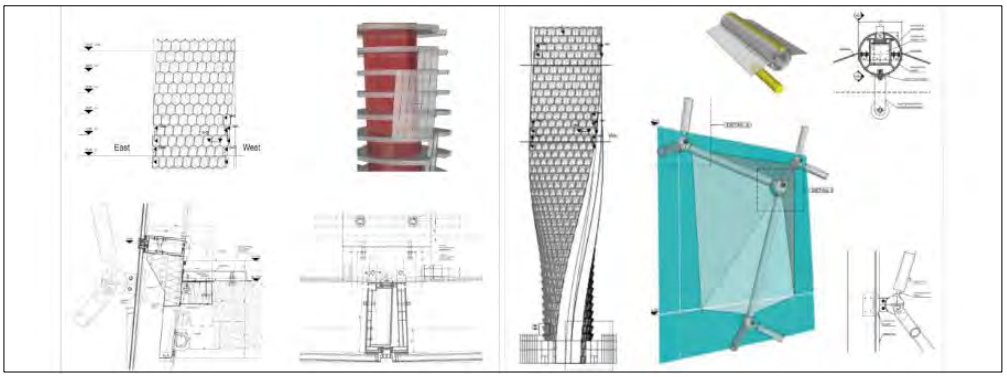
Special Services
- 3D Modelling
- Maintenance, Cleaning, Facade Access, BMU

Status
Completion 2020

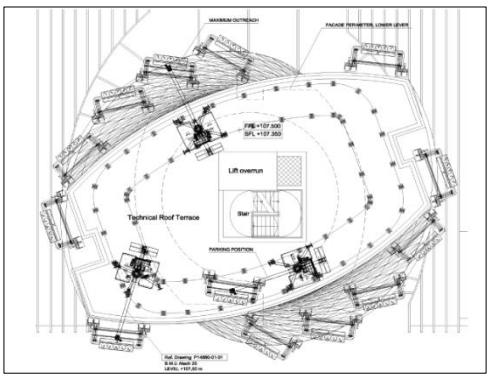
Asia
Qatar

NPP Control Tower
Doha

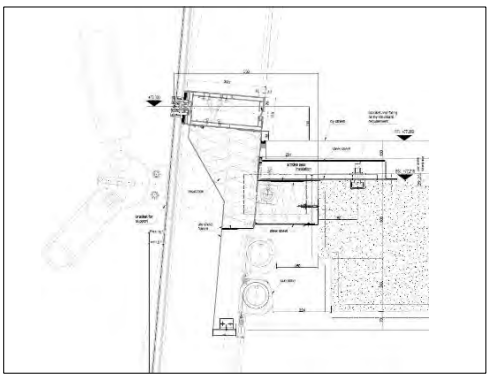
NPP Control Tower at twilight, rendering and the progress during construction



Facade design development, typical details of the main facade wall type 04 and the facade spider system wall type 07



Facade access and maintenance strategy, proposal - track mounted roof BMU with dedicated cradle, detailed overview



Typical in detail in process, vertical cross section main facade

Client
Arab Engineering Bureau

Owner ▪ Developer
Port Authority, State of Qatar

Architect
PLP Architecture

Project Data
- approx. 110 m building height
- approx. 26,000 m² facade

Building Function
Mixed-Use, Office,
Port Navigation

Technical Features
- Twisted facade
- Unitized curtain walls, cold-bent glass
- Stick system, structural glazing, glass fins
- Sunshade elements

Consultancy Services
- Project Objectives and Brief
- Concept/Schematic Design
- Detailed/Developed Design
- Technical/Construction Des.
- Specification/Tender Doc.
- Feasibility Study

Engineering Services
- Construction Object. & Brief
- System/Concept Design
- Structural Design
- Mock-Up Development
- Provision/Shop Drawings
- Material Take Off
- Production Documentation
- Installation Documentation
- As-Built Drawings

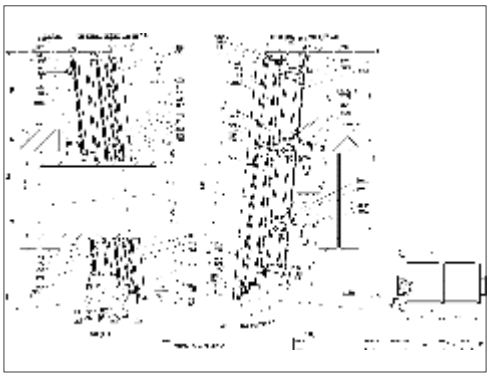
Special Services
- Parametric
- Maintenance, Cleaning, Facade Access, BMU

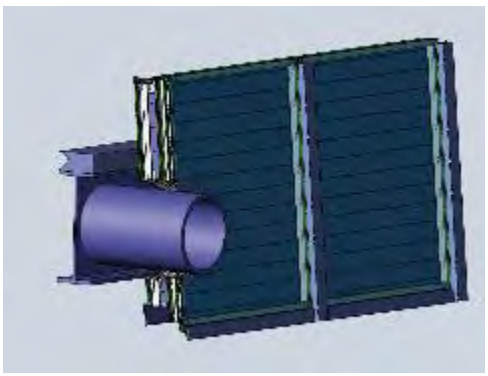
Status
Completed 03/2017

Asia
Kuwait

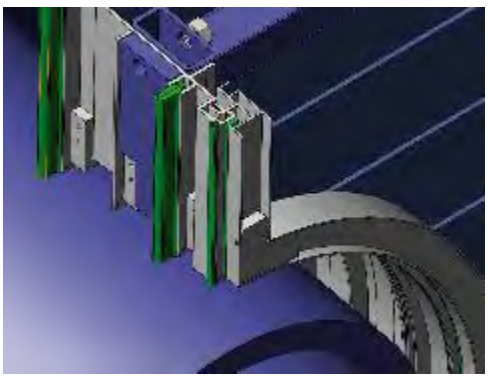
Central Bank of Kuwait
New Headquarters, Kuwait City

The New Headquarters – Central Bank of Kuwait at dawn


Unitized curtain wall, Excerpt of production paper


3D model of UCW


Detail of facade elevation


3D detail of facade element module

Client
SCHÜCO International KG

Owner ▪ Developer
Central Bank of Kuwait

Architect
HOK International Ltd.

Project Data
- approx. 240 m building height
- approx. 34,000 m² facade surface

Building Function
Office

Technical Features
- Unitized curtain wall, blast resistant

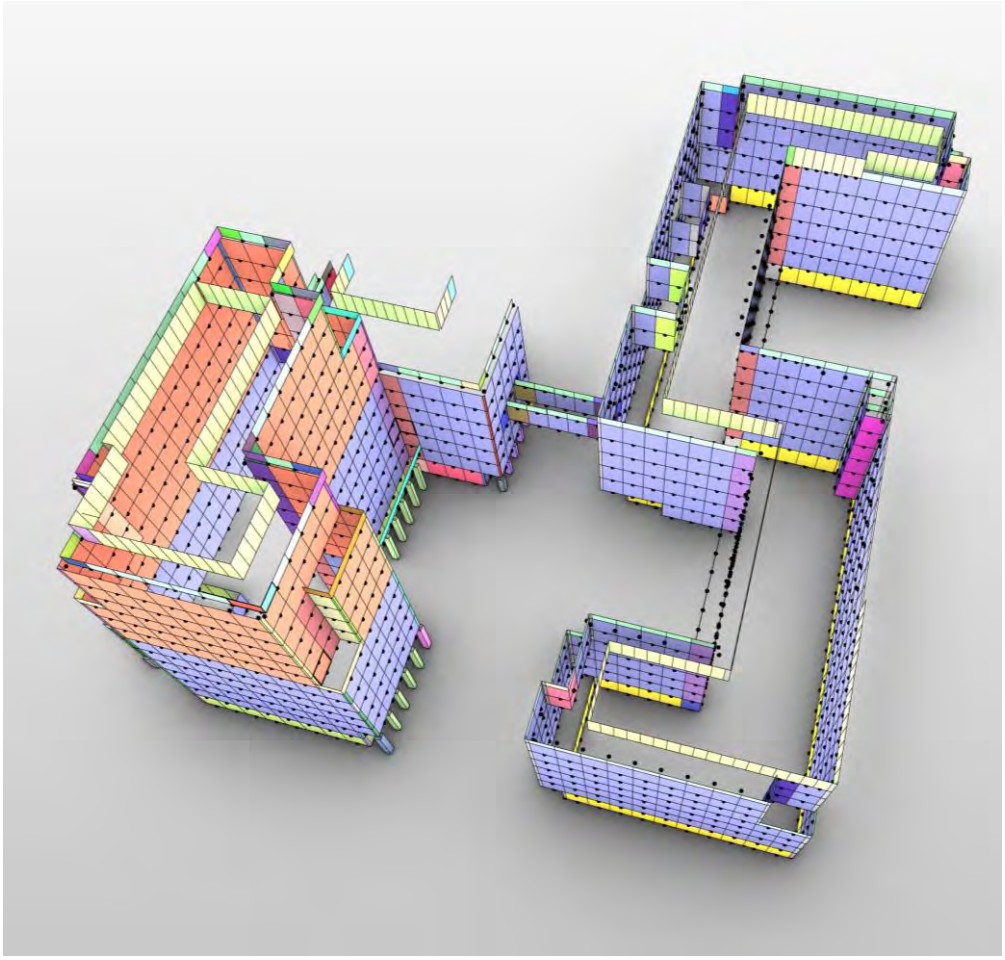
Engineering Services
- Construction Objectives and Brief
- Provision/Shop Drawings
- Material Take Off
- Production Documentation

Special Services
Parametric Design

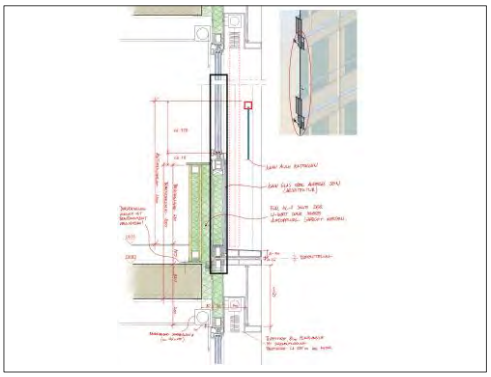
Status
Completed in 2014

Europa
Deutschland

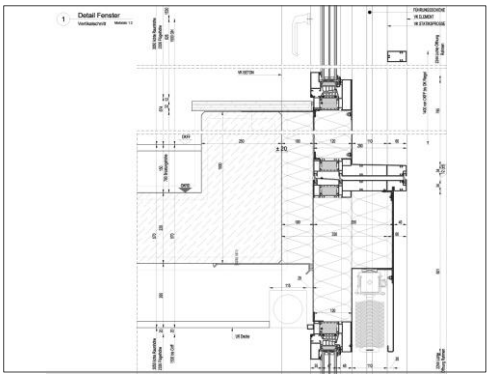
Europa-Center Eschborn 1+2
Frankfurt am Main



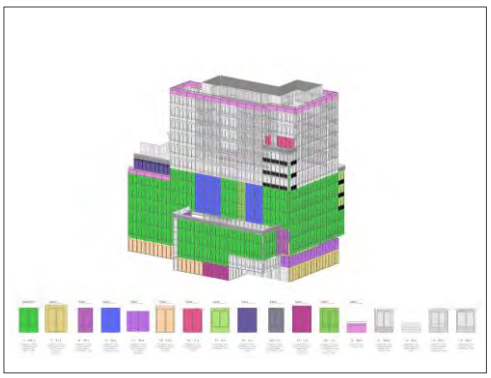
3D-Analyse zur Ermittlung der Elementvariationen des Gesamtareals mit Bauteil 1 und 2



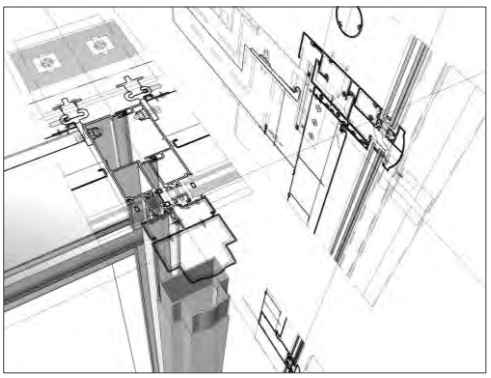
Fassadenskizze Standardelement, Vertikalschnitt



Vertikalschnitt, Standard-Fensterelement



3D-Fassadentypenübersicht, selektierter Bereich



3D Modelling

Auftraggeber
Europa-Center AG

Bauherr ▪ Projektentwickler
Europa-Center AG

Architekt
Europa-Center AG

Projektdaten
- ca. 51 m Gebäudehöhe
- ca. 30.000 m² Fassadenfläche
- ca. 25.000 m² BGF

Gebäudefunktion
Office

Technische Daten
- Elementfassade, teilweise als Kaltfassade
- Entwurf W90 Brüstung
- DGNB Vorzertifikat in Gold wird angestrebt

Consultancy Services
- Grundlagenermittlung und Zielstellung
- Entwurf
- Leitdetailplanung

Special Services
- BIM, Stufe 1
- 3D Modelling
- Parametrik
- Fassadenstatik, Entwurf
- Bauphysik, Vordimensionierung U_{CW}-Werte
- Kostenschätzung

Status
In Planung – on hold

priedemann
facade experts

Germany

Reference selection

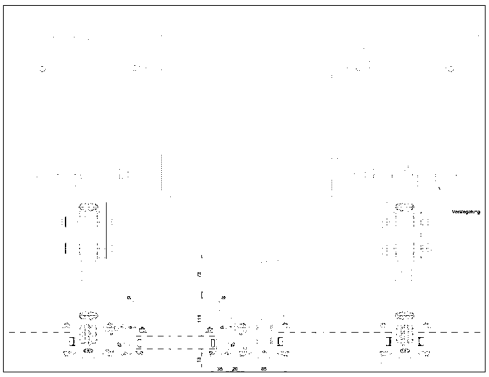
Zoofenster Waldorf Astoria, Berlin

Europe
Germany

Zoofenster Waldorf Astoria
Berlin

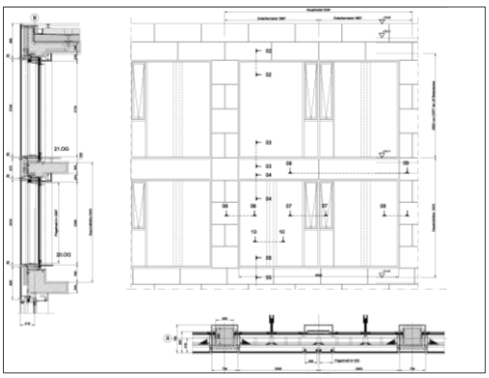
Zoofenster Waldorf Astoria in Berlin, November 2011

Installation of the natural stone cladding panels



Typical detailing, horizontal section, top hung window

Facade elevation with casement window



Typical detailing of casement windows, elevation and overview of sections

Owner
BIC Ingenieur-Consulting

Owner ▪ Developer
Swan Operations Limited

Architect
Prof. Christoph Mäckler Architekten

Project Data
- approx. 119 m building height
- approx. 20,500 m² facade surface

Building Function
Mixed-Use, Hotel, Office, Retail

Technical Features
- Unitized curtain wall
- Interior sunshade
- Rain screen, natural stone
- Casement windows
- Composite windows
- Top hung windows

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

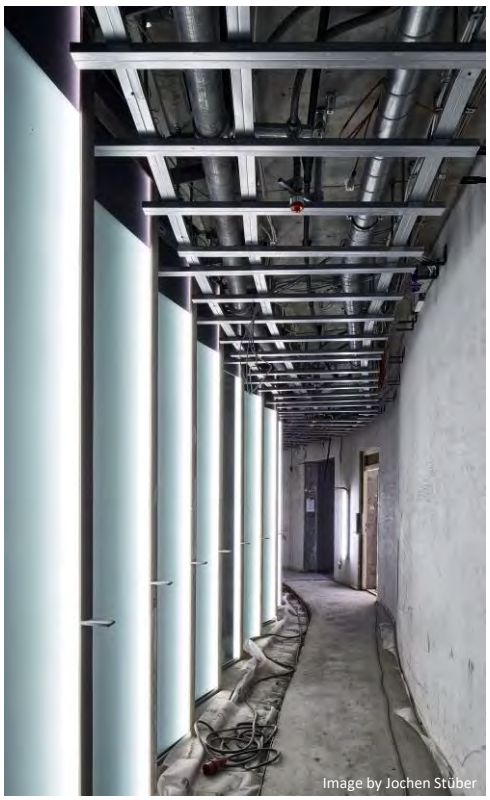
Special Services
Maintenance, Cleaning, Facade Access, BMU

Status
Completed 01/2013

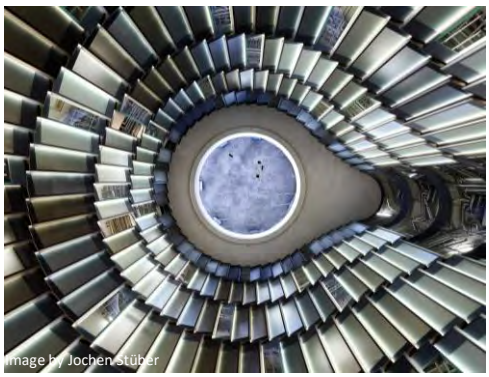
Europe
Germany

Grandhotel The Fontenay
Hamburg

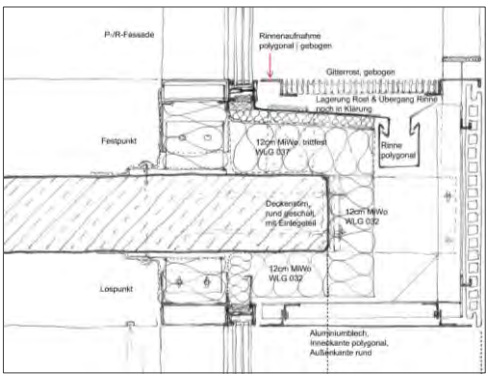
The Fontenay at dusk



Certical section, hotel facade



Fontenay from a bird's-eye view



Concept/Schematic Design

Client
ARGE GP Fontenay consisting of:
- Störmer Murphy Partners
- Höhler + Partner

Owner ▪ Developer
Kühne Immobilia GmbH

Architect
Störmer Murphy Partners

Project Data
- approx. 30 m building height
- approx. 14,000 m² facade surface

Building Function
Hotel

Technical Features
- Amorphous-shaped facade
- Filigree sliding doors, glass
- Rain screen, bent, ceramic
- Ribbon windows, aluminium-wood windows
- Glass fin facade

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

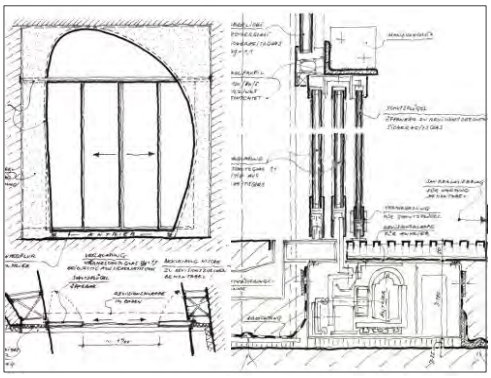
Special Services
Maintenance, Cleaning, Facade Access, BMU

Status
Completed 03/2018

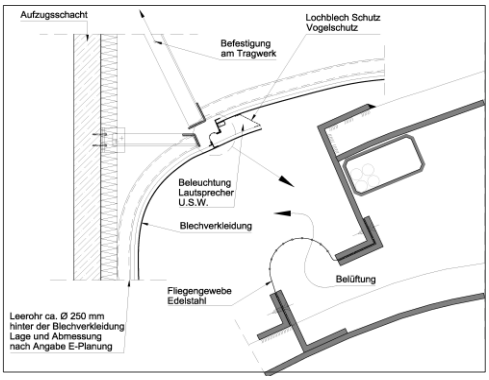
Europe
Germany

Porsche Pavilion
Wolfsburg

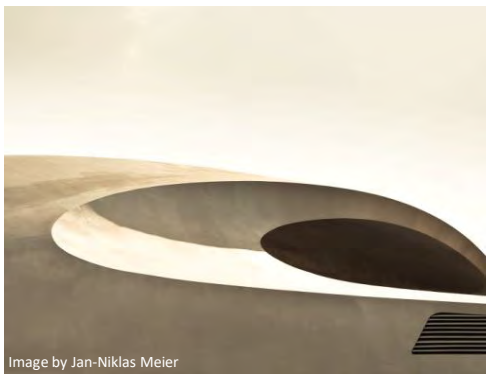
Porsche Pavilion in Wolfsburg



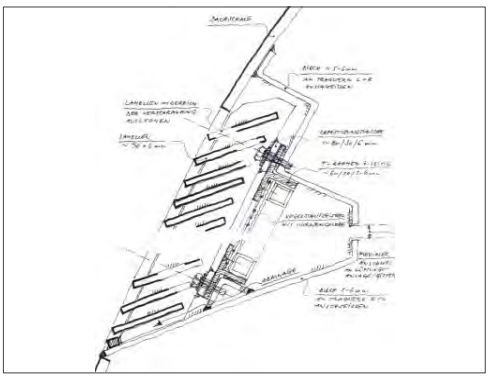
Automatic sliding door detail



Roof shell detail, design of joint



Facade elevation with ventilation lamella



Typical detailing of ventilation lamella

Client
HENN Architects

Owner ▪ Developer
Dr. Ing.h.c.F. Porsche AG

Architect
HENN Architects

Project Data
- approx. 9 m building height
- approx. 2,900 m building surface

Building Function
Building for exhibition and public assembly

Technical Features
- Sculptural facade shape
- Pavilion in monocoque-construction – homogeneously welded and coated shell structure with stainless steel skin
- Ventilation lamella in fixed slab shell
- Sliding doors, all-glass

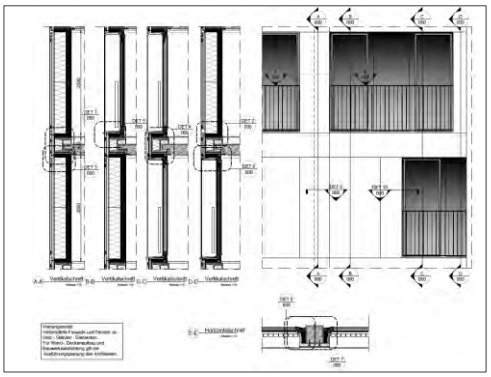
Consultancy Services
- Project Objectives and Brief
- Concept/Schematic Design
- Detailed/Developed Design
- Tender Evaluation

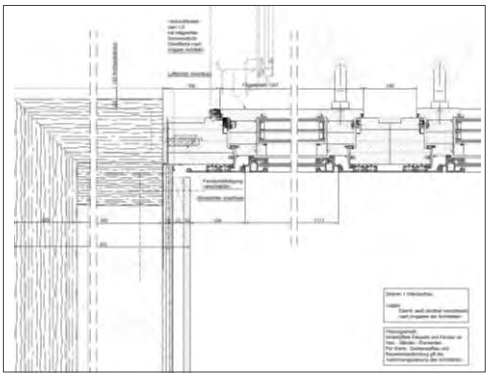
Status
Completed 06/2012

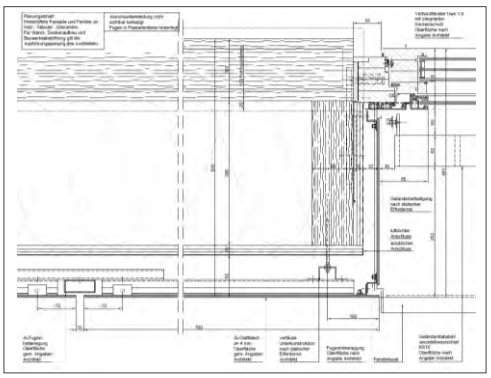
Europe
Germany

SKAIO
Heilbronn

Visualization of SKAIO in Heilbronn


Typical detail overview, wood-aluminium windows


Horizontal loggia detail, lateral connection


Typical horizontal detail


During construction progress

Client
Stadtsiedlung Heilbronn

Owner ▪ Developer
Stadtsiedlung 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

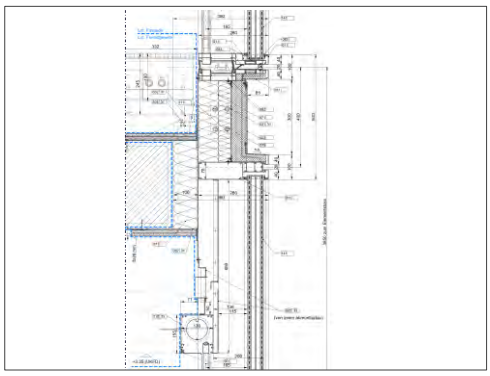
Consultancy Services
- Project Objectives and Brief
- Concept/Schematic Design
- Detailed/Developed Design
- Technical/Construction Design
- Specification/Tender Documentation

Status
Completed 05/2019

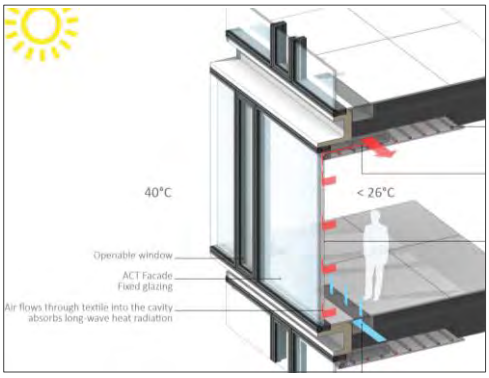
Europa
Deutschland

Continental Headquarters
Hannover

Wettbewerbsentwurf von HENN Architekten



Vertikalschnitt



Fassadenansicht

Wettbewerbsentwurf von HENN Architekten

Auftraggeber
Continental AG/ HENN GmbH

Bauherr ▪ Projektentwickler
Continental AG

Architekt
HENN GmbH

Projektdaten
- ca. 20 m Gebäudehöhe
- ca. 15.000 m² Fassadenfläche

Gebäudefunktion
Büro

Technische Daten
- ACT Facade
- Elementfassade

Facade-Lab
Forschung & Entwicklung

Consultancy Services
- Grundlagenermittlung und Zielstellung
- Entwurf
- Genehmigungsplanung
- Ausführungsplanung
- Leistungsbeschreibung/ Vergabe-Dokumentationen
- Mitwirkung bei der Vergabe
- Werkplanprüfung
- Mitwirkung bei der Mock-Up Ausführung
- Ausführungs-Überwachung

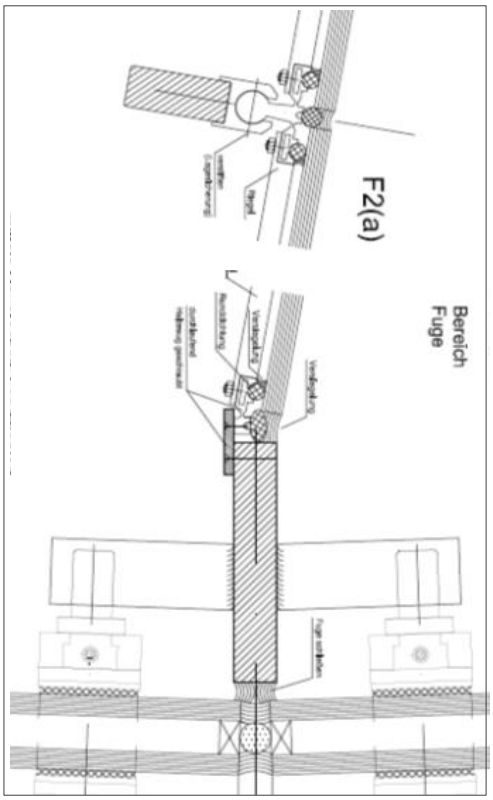
Status
Im Bau

Europe
Germany

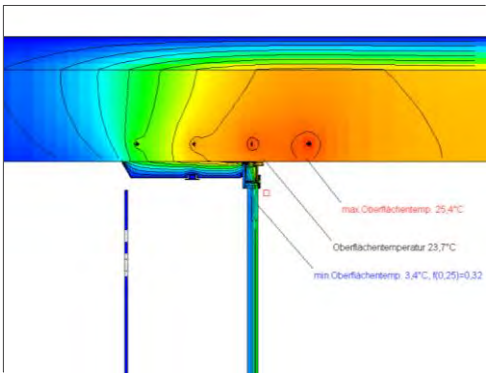
Hans Otto Theater
Potsdam


Image by Inge Kanakaris-Wirtl, hosted on wikipedia

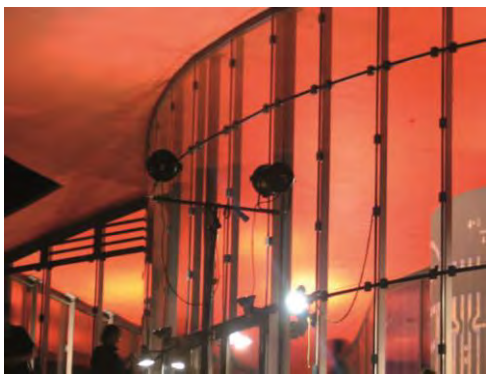
Hans Otto Theater in Potsdam at twilight



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 m² 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

priedemann
facade experts

Middle East

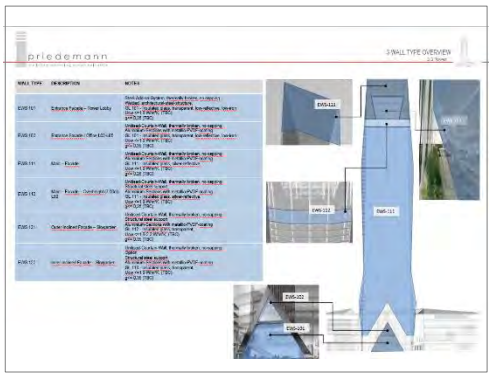
Reference selection (Consultancy & Engineering)

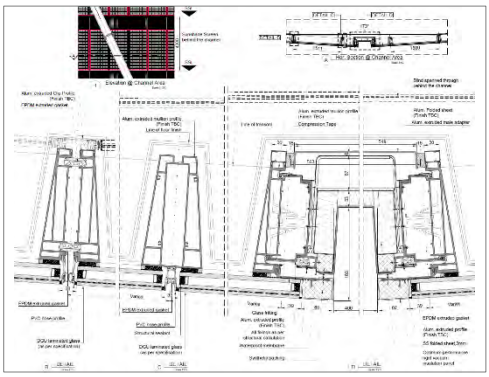
ICD Brookfield Place, Dubai | Image by ICD Brookfield

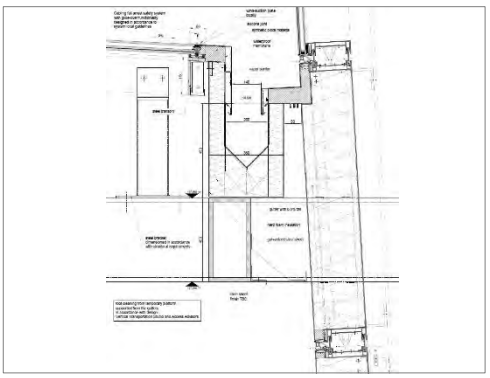
Asia
United Arab Emirates

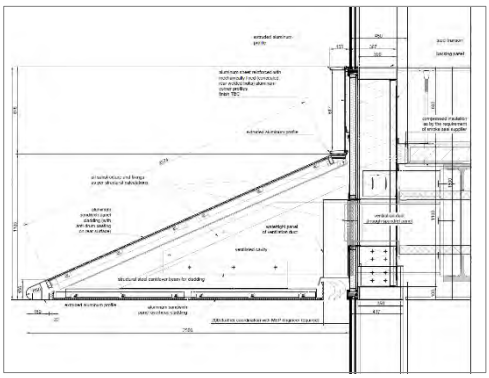
ICD Brookfield Place
Dubai

Rendering of ICD Brookfield Place in Dubai


Concept report, separation of facade types


Tower office facade, vertical section channel interface


Podium glass roof over summer garden,
Vertical section detail - interface tower


Podium main facade, vertical section,
floor/ slab interface with 2.5m fin

Client
ICD Brookfield Management

Owner ▪ Developer
ICD Brookfield Management

Architect
Foster + Partners

Project Data
- approx. 283 m tower height
- approx. 46,000 m² facade surface
- approx. 45 m podium height
- approx. 15,000 m² facade surface
- LEED Platinum

Building Function
Mixed-Use, Office, Retail

Technical Features
- Razor-sharp building skin
- Unitized curtain wall
- Freeform steel structure add-on system
- Skygarden, inclined unitized curtain wall
- Stainless Steel cladding (A-Frame)
- Louvres

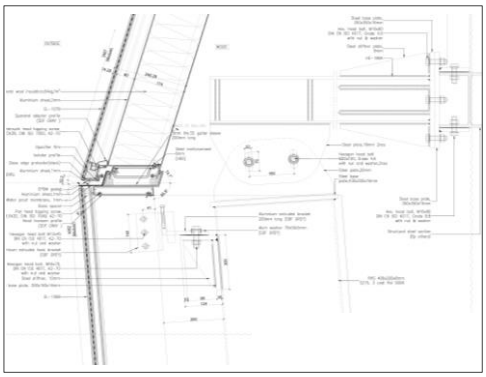
Consultancy Services
- Project Objectives and Brief
- Concept/Schematic Design
- Detailed/Developed Design
- Technical/Construction Design
- Specification/Tender Documentation
- Tender Evaluation
- Design Compliance Control
- Mock-Up Association
- Execution Compliance Control

Status
Completed 09/2020

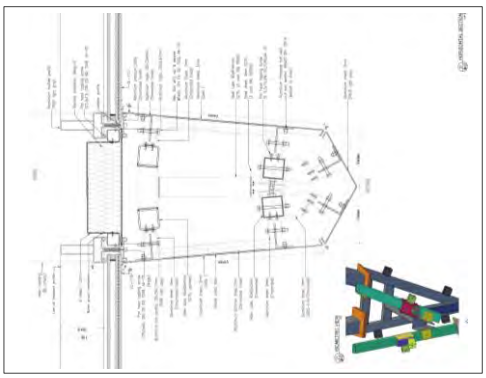
Asia
United Arab Emirates

Expo 2020 Metro Station
Dubai

Expo 2020 Metro station on commissioning



Typical detail, vertical section



Horizontal section of diamond shaped facade

Diamond shaped cladding

Client
JML FACADES

Owner ▪ Developer
RTA Dubai

Architect
Parson Systra

Project Data
- ca. 37 m building height
- ca. 12.200 m² facade surface

Building Function
Transport

Technical Features
- Unitized curtain wall
- Stick curtain wall
- Diamond-shaped cladding, aluminum
- Ceiling
- Automatic sliding door

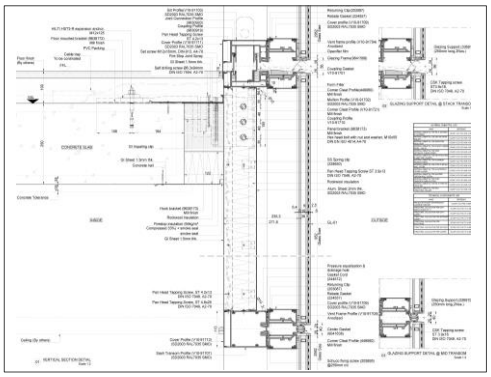
Engineering Services
- Construction Objectives and Brief
- System/Concept Design
- Material Take-Off
- Mock-Up Development
- Production Documentation
- Installation Documentation

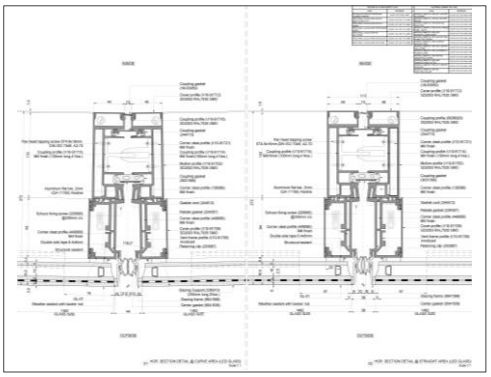
Status
Completed 11/2020

Asia
Qatar

The View Hospital
Doha

Rendering of The View Hospital in Doha


Shop drawing, front façade, vertical section detail


Front facade, horizontal section detail (LED glass)

Under construction, almost finalized


Under construction

Client
Profession Aluminium Company

Owner ▪ Developer
Assets Real Estate Development Co. W.L.L.

Architect
Lacasa Qatar

Project Data
- approx. 70 m building height
- approx. 18,000 m² facade surface

Building Function
Hospital

Technical Features
- Unitized curtain wall panels
- Media facade integrated in Unitized curtain wall
- Unitized curtain wall, glass fibre reinforced concrete
- Stick curtain wall system
- Steel add-on curtain wall system

Engineering Services
- Construction Objectives and Brief
- System/Concept Design
- Mock-Up Development
- Provision/Shop Drawings
- Material Take Off
- Production Documents
- Installation Documentation
- As-Built Drawings

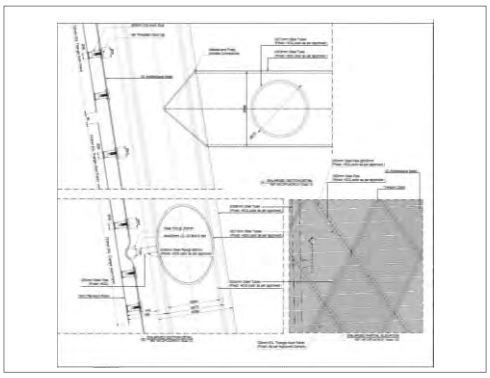
Special Services
- Structural Design
- Media Facade

Status
Under construction

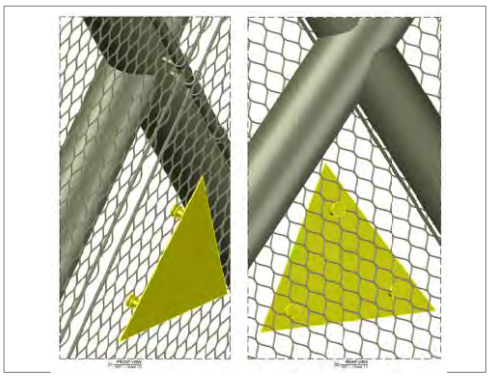
Asien
Saudi Arabia

Al Qahtani New Headquarter
Al Khobar

Entrance area, glazing facade with the secondary skin. architectural rendering

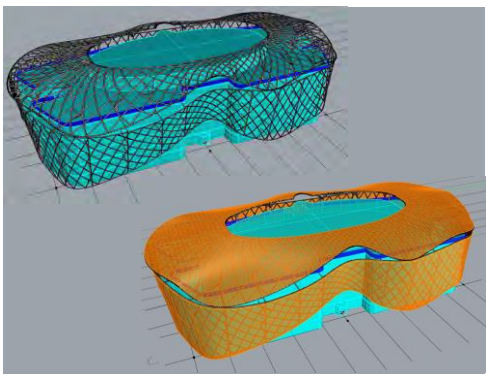


Detailed/Developed Design, section detail



3D model of the second skin, front and rear elevation

Architectural rendering



3D modelling/parametric, geometry surface and steel frame

Client
Al Qahtani Holding

Owner/ Developer
Al Qahtani Holding

Architect
Creative Urban Design

Project Data
- ca. 33 m building height
- ca. 15,000 m² facade surface

Building Function
Office, Residential

Technical features
- Glazing facade covered with secondary screen, tessellation geometric design pattern partially covering the building on all sides

Consultancy Services
- Project Objective & Brief
- Concept/Schematic Design
- Detailed/Developed Design
- Technical/Construction
- Design Specification/Tender
- Documentation

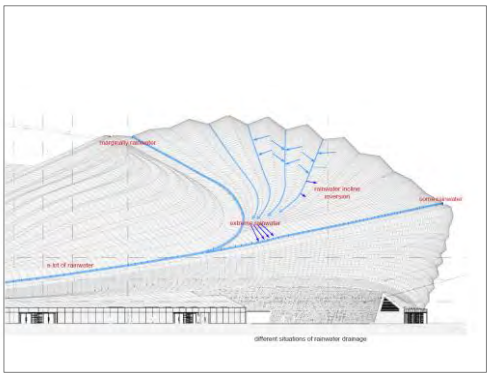
Special Services
- 3D Modelling
- Parametric
- Structural Design

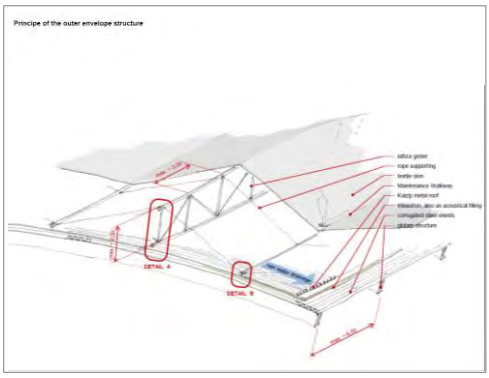
Status
Under construction

Asia
Qatar

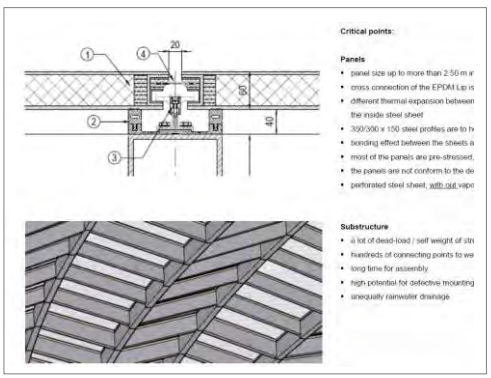
Al Janoub Stadium
Al Wakrah

Al Janoub Stadium im April 2019

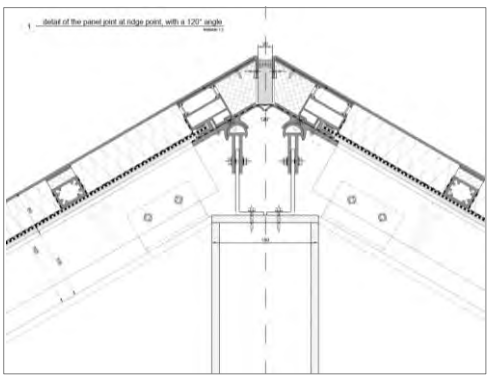

Facade elevation – curved design



Value engineered design, principle sketch



Original Design


Value engineered design, typical detail

Client
ALUNASA

Owner ▪ Developer
Qatar Football Association

Architect
Zaha Hadid
AECOM

Project data
- 105 x 68 m field size
- 230 m long roof arches

Building function
Sport Stadium

Technical features
- Parametric Double Skin Layer
- Rain screen
- Roof, Kalzip
- Membrane, textile

Consultancy Services
- Project Objectives and Brief
- Architectural Competition
- Concept/Schematic Design
- Project Peer Review
- Feasibility Study
  Value Engineering

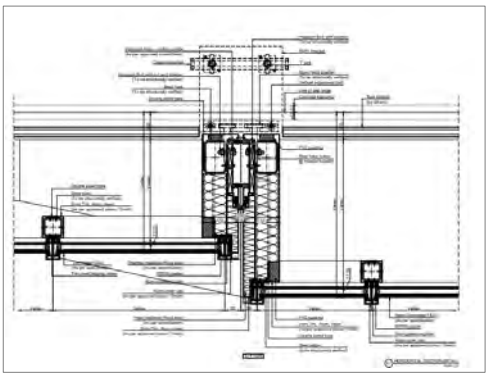
Special Services
- Parametric

Status
Completed 05/2019

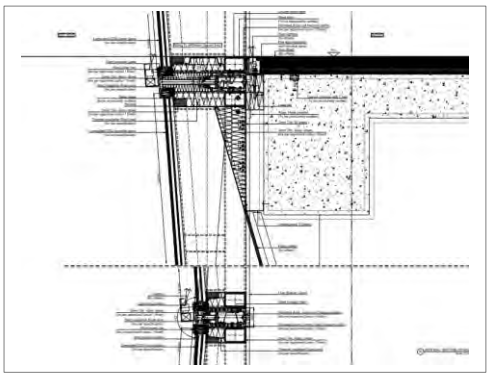
Asien
Kuwait

New Palace of Justice
Kuwait City

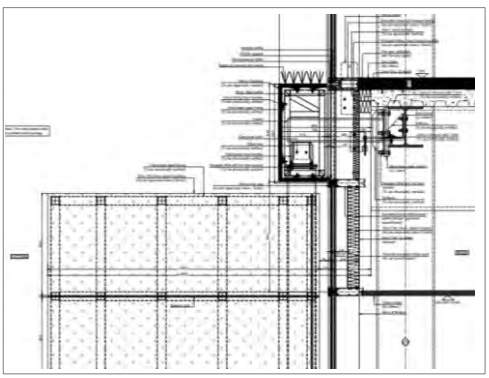
The New Palace of Justice in Kuwait, rendering



Horizontal section detail, typical mullion with inclined transom



Typical vertical section detail at slab area



Typical vertical section detail of the top fin interface

Architectural rendering

Client
State of Kuwait/ Al Amiri Diwan

Owner/ Developer
State of Kuwait/ Al Amiri Diwan

Architect
PACE

Projektdata
ca. 124 m Building height

Building function
Office

Technical features
- 3D unitized curtain wall
- panel on steel framing
- Unitized curtain wall, stone integrated

Consultancy Services
- Feasibility Study
- Project-/Peer Review
- Project Objectives & Brief
- Detailed/Developed Design
- Technical/Construction Design
- Specs/Tender Docs

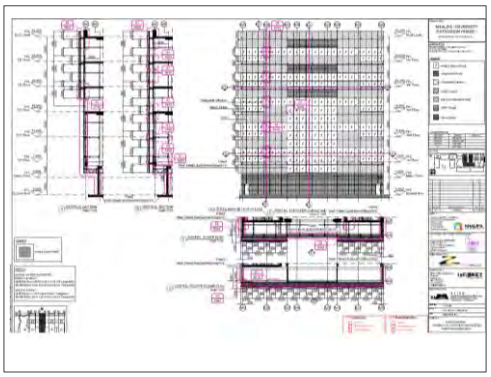
Special Services
Facade Cleaning & Maintenance

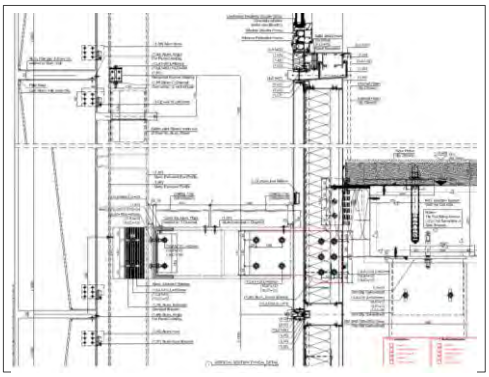
Status
Under construction

Asia
United Arab Emirates

Khalifa University
Abu Dhabi

Kahlifa University after completion


Dtail overview


Vertical section detail


Rendering


Elevation

Client
Aluminium & Light Industries Co. (ALICO) Ltd.

Owner ▪ Developer
Khalifa University of Science Technology and Research

Architect
- Elite Design & Engineering Consultancy
- RSP Architects

Project Data
- approx. 36 m building height
- approx. 51,800 m² facade surface

Building Function
University Complex, Student Accommodation

Technical Features
- Unitized curtain wall
- Structural Glazing
- Sunshade elements, Mashrabiya screen, louvres

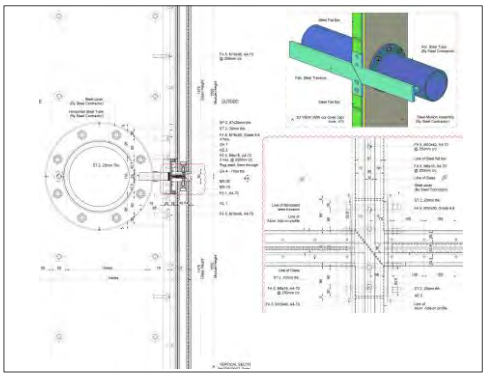
Engineering Services
- Construction Objectives and Brief
- System/Concept Design
- Structural Design
- Mock-Up Development
- Provision/Shop Drawings
- Material Take Off
- Installation Documentation
- As-Built Drawings

Status
Completed in 2017

Asia
Saudi Arabia

3B2 Western Main Metro Station
Riyadh

Architectural rendering


External facade, vertical section detail


Rendering of external facade elevation


External facade during construction in progress

Client
Ajwad Aluminium

Owner ▪ Developer
Arriyadh Development Authority

Architect
Omrania

Project Data
- ca. 26 m building height
- ca. 6.900 m² facade surface

Building Function
Transport

Technical Features
- Stick add-ons system on steel mullion of span 26m
- Patch system for lift enclosure

Engineering Services
- Value Engineering
- Construction Objectives and Brief
- System/Concept Design
- Mock-Up Development
- Installation Documentation

Special Services
- Structural Design
- Design-Cost Optimization
- Shop Drawings
- Production supports
- Test Witnessing

Status
Under construction

priedemann
facade experts

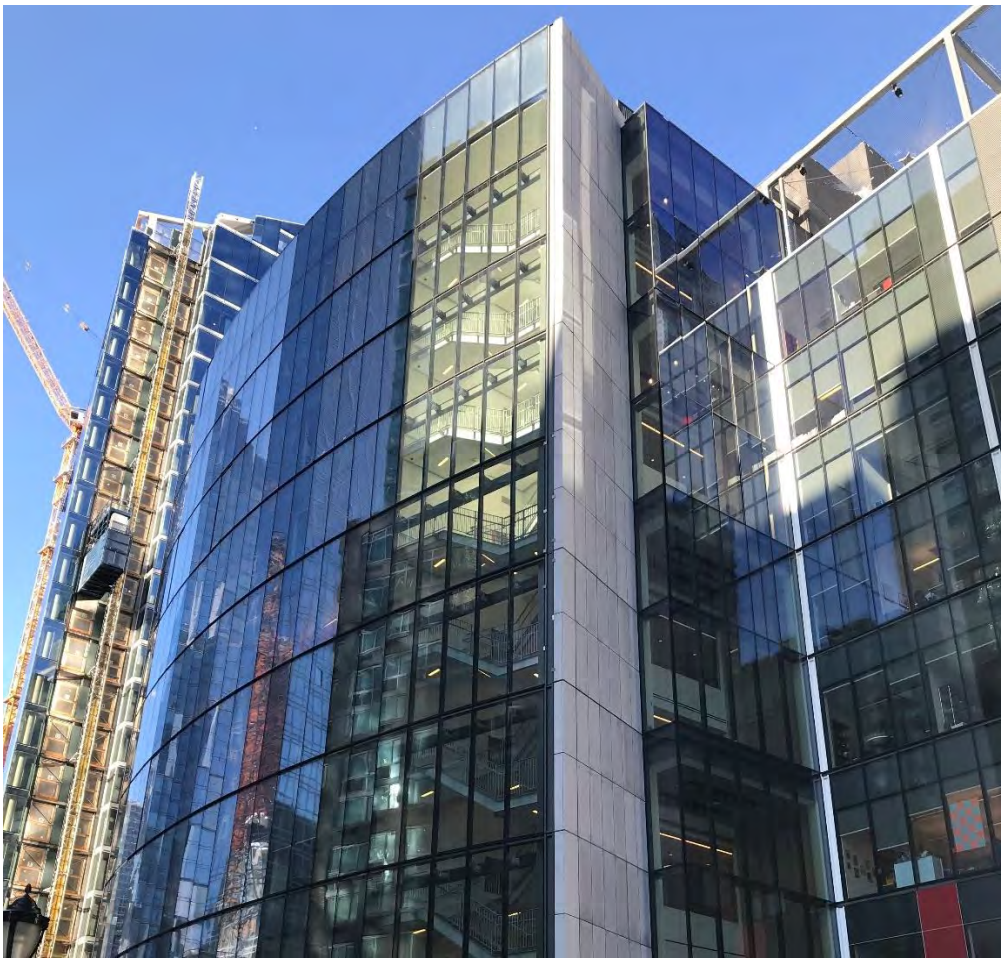
International

Reference selection

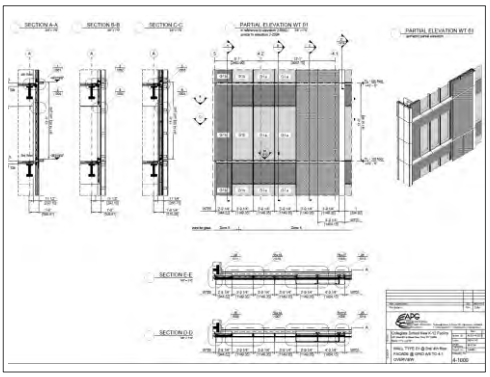
Collegiate School, New K-12 Facility, New York

America
USA

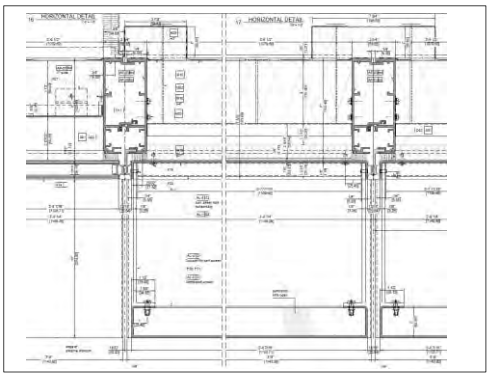
Collegiate School, New K-12 Facility
New York



Collegiate School after finalization



Section overview of wall type 01



Facade detail, corrugated panel with perforated screen

Rendering of the Southeast corner

Visual Mock-Up in progress, February 2016

Client
APG International

Owner ▪ Developer
Collegiate School

Architect
KPF Kohn Pedersen Fox, NYC

Project Data
- approx. 41 m building height
- approx. 6,500 m² facade surface

Building Function
School Building

Technical Features
- Unitized curtain wall, stone, glass, corrugated sheet metal
- Louvres, corrugated and perforated screen

Engineering Services
- Construction Objectives and Brief
- System/Concept Design
- Mock-Up Development
- Provision/Shop Drawings

Status
Completed 01/2018

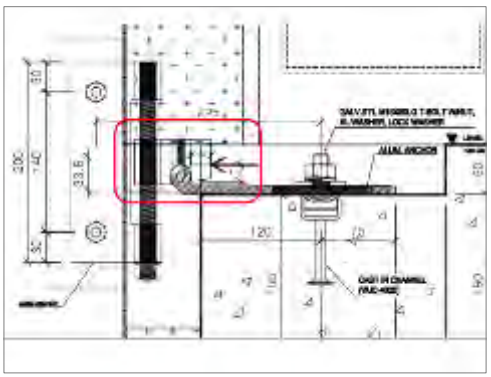
North America
Canada

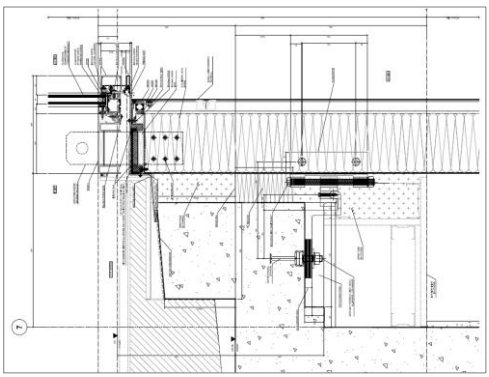
Telus Sky Tower
Calgary

Telus Sky Tower in Calgary, Canada

View of the corner facade

Facade elevation with a view of the top hung windows


Shop Drawings


Shop Drawings

Client
Eagon Windows & Doors Co. Ltd.

Owner ▪ Developer
TELUS Canada

Architect
- DIALOG Design Architects
- Bjarke Ingels Group (BIG)

Project Data
- approx. 225 m building height
- approx. 34,000 m² facade surface

Building Function
Mixed-Use, Office, Retail, Residential

Technical Features
- Unitized curtain wall
- Structural Glazing
- Top hung windows
- Sliding doors

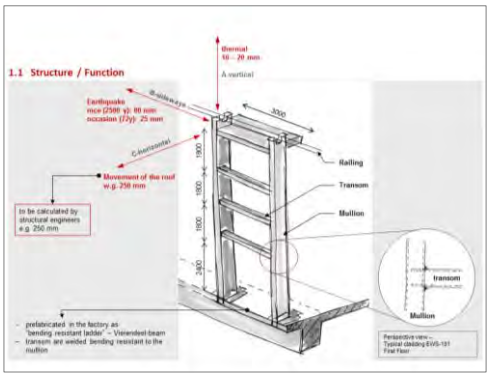
Engineering Services
- Construction Objectives and Brief
- Provision/Shop Drawings
- Material Take Off
- Production Documentation
- Installation Documentation

Status
Under construction

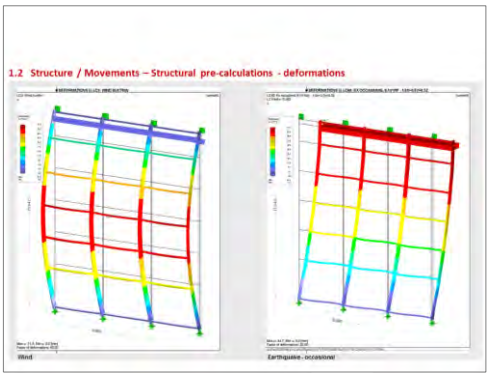
North America
Panama

Tocumen International Airport
Tocumen

Rendering of Tocumen International Airport in Panama

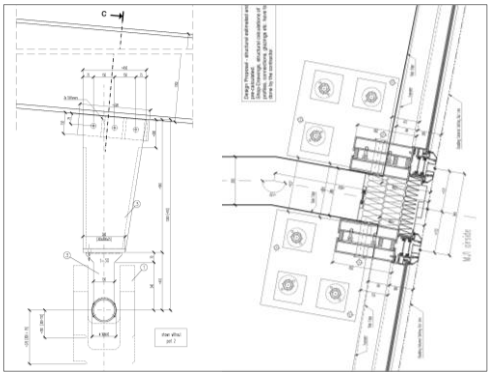


Development concept, main facade



Structural pre-calculations - deformations

Inside elevation of terminal, rendering


Typical facade details, vertical and horizontal sections

Client
Odebrecht

Owner ▪ Developer
Tocumen Airport Authority

Architect
Foster + Partners

Project Data
- approx. 25 m building height
- approx. 32,000 m² facade surface

Building Function
Airport

Technical Features
- Unitized steel curtain wall, Vierendeel frame system
- Earthquake resistant
- Skylight

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

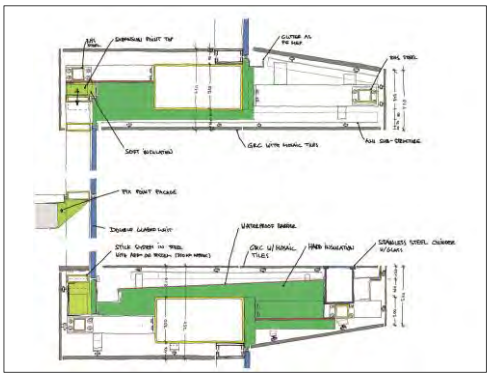
Special Services
Maintenance, Cleaning, Facade Access, BMU

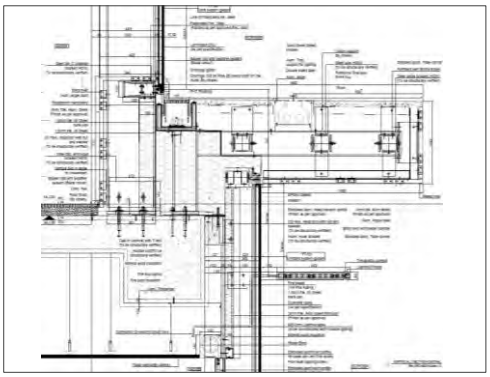
Status
Under construction

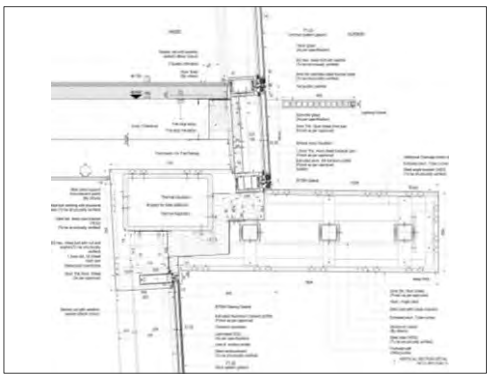
Asia
Georgia

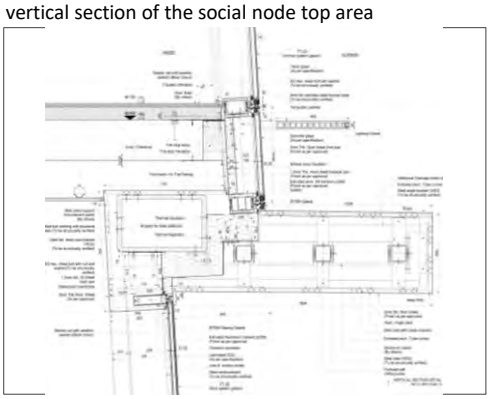
Tbilisi Business Center
Tbilisi

Rendering of Tbilisi Bank Headquarters, designed by UN Studio


Schematic/Concept design, vertical section detail


Technical/Construction detail,
vertical section of the social node top area


Technical/Construction detail,
vertical section of the bottom slab connection


CapTechnical/Construction detail, vertical section of
UCW inclined panel stack joint

Client
TBC Bank

Owner ▪ Developer
TBC Bank

Architect
UN Studio

Project Data
ca. 82 m building height

Building Function
Office

Technical Features
- Unitized curtain wall, terracotta integrated panels
- Add-on steel facade @social node
- Stick curtain wall system

Consultancy Services
- Project Objectives & Brief
- Concept/Schematic Design
- Detailed/Developed Design
- Specs/Tender Docs
- Tender Evaluation
- Design Compliance Control
- Mock-Up Association
- Execution Compliance Control

Special Services
Facade Cleaning & Maintenance

Status
Under construction

priedemann
facade experts

Sustainability | R&D Innovation

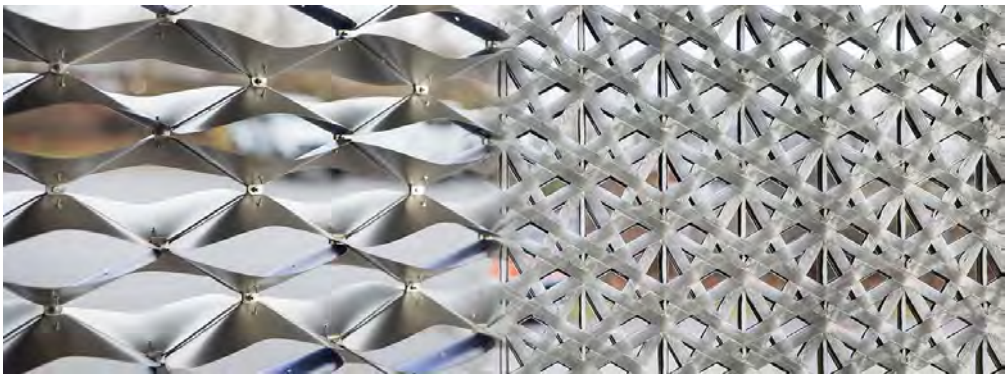
Reference selection

ADAPTEX Mock-Up in the Facade-Lab

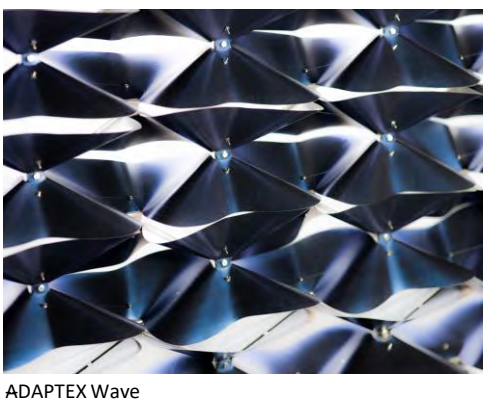
Europe
Germany

ADAPTEX
Research & Development

Facade Mock-Ups



ADAPTEX Wave



ADAPTEX Wave

Rendering

Topic

ADAPtive TEXtile is an autarkic operating textile sun shading solution driven by smart material Shape Memory Alloy (SMA).

Two concepts Wave and Mesh enable various design and application scenarios. The customizable SMA ensures proper operation depending on location and orientation being activated by temperature change due to ambient temperature and solar radiation.

Partner

- weißensee kunsthochschule berlin
- Fraunhofer-Institut IWU
- SGS Ingenieurdienstleist-
- ungen im Bauwesen GmbH
- ITP GmbH
- Carl Stahl ARC GmbH
- VERSEIDAG-INDUTEX GmbH
- ITP

Technical Features

- Sun shading
- Smart Material (SMA)
- Autarkic operation
- Textile construction/ design

Special Services

Research & Development

Status

- Testing in progress
- Demonstrator facade U/C

Period

01.07.2017 – 31.08.2022

Funding Program

zwanzig20 PARTNERSCHAFT FÜR INNOVATION

smart3 materials solutions growth

SPONSORED BY THE

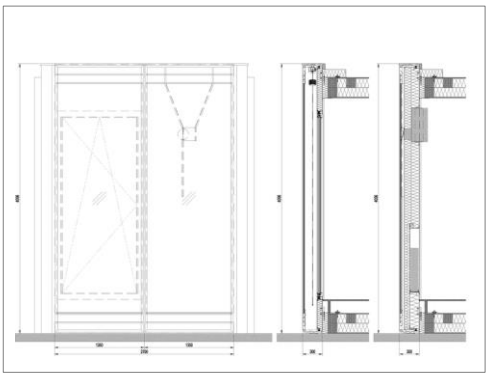
Federal Ministry of Education and Research

priedemann

Europe
Germany

PräKlima
Research & Development

PräKlima Mock-Up


Typical detail – elevation and section details


Facade elevation


3D drawing


Façade Mock-Up and detailed elevation

Topic

Self-sufficient façades that maximize the energy efficiency of buildings by independent adaptations to external and internal environmental conditions. The focus of the research project is on the development of a modular system which, in addition to integrated sensors, extensive data collection on weather forecasts and user profiles, also makes use of a self-learning control system.

Partner

- TU Dresden
- SOMMER GmbH
- Die Netz-Werker AG

Technical Features

- Photovoltaic
- Air conditioning

Special Services

Research & Development

Status

In planning

Period

01.03.2019 – 30.06.2022

Funding Program

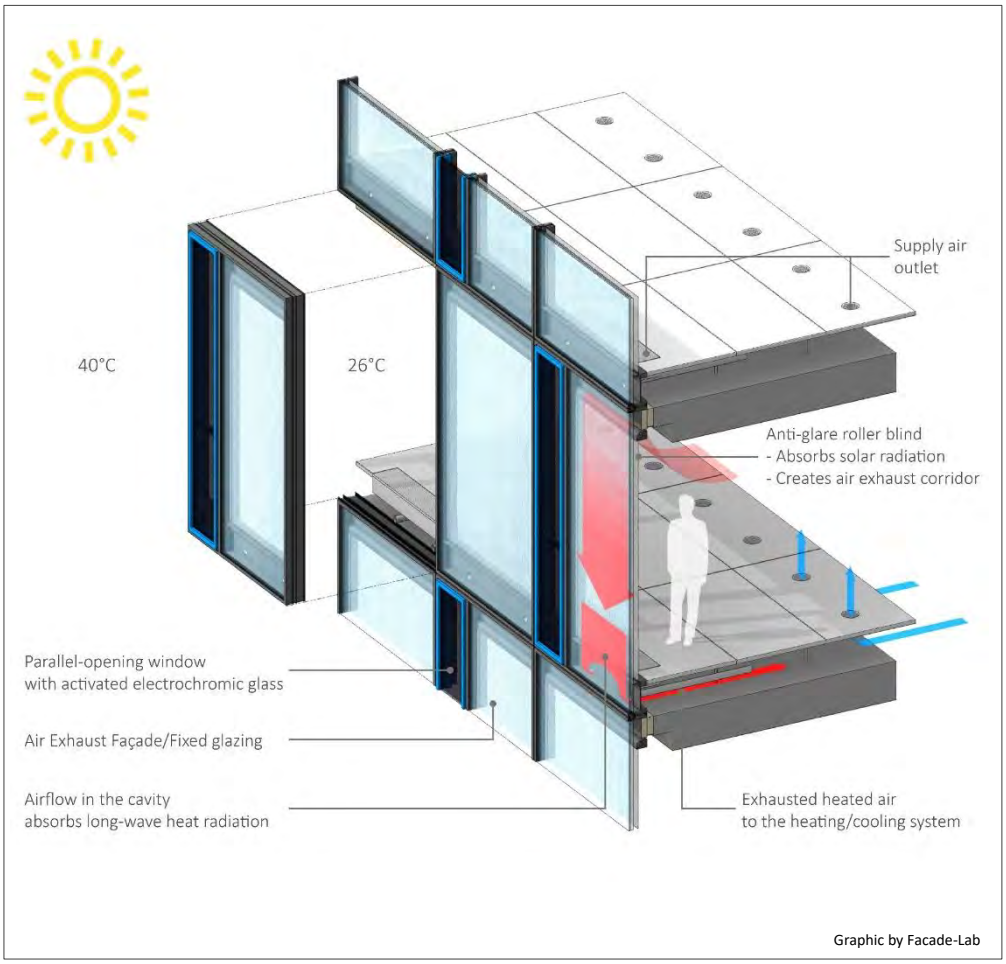
BMWK – Central Innovation Programme für SME‘s (ZIM)

Bundesministerium für Wirtschaft und Klimaschutz

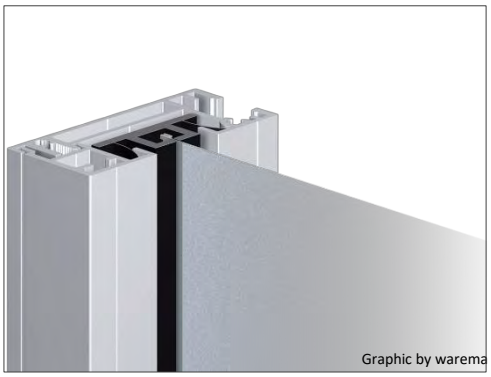
ZIM Zentrales Innovationsprogramm Mittelstand

ACT Facade

FESTOAutomation Center Stuttgart, Esslingen



Innovative Exhaust Air Facade, system sketch



Inner layer as a special blind, flexible function

Exhaust Air Facade with closed anti-glare roller blinds

FESTOAutomationCenter after finalization in 2015

Client
Festo AG

Owner ▪ Developer
Festo AG

Architect
architekturbüro jaschek

Project Data
- ca. 68 m building height
- ca. 8.500 m² facade surface

Building Function
Office

Technical Features
- ACT Facade
- Parallel-opening windows
- Sunshade, electro-chromatic glazing
- Automated robot cleaning

Consultancy Services
- Project Objectives and Brief
- Concept/Schematic Design
- Detailed/Developed Design
- Technical/Construction Design
- Specification/Tender Documentation
- Tender Evaluation
- Design Compliance Control
- Mock-Up Association
- Execution Compliance Control
- Handover, As-Built Documentation

Facade-Lab
Research & Development

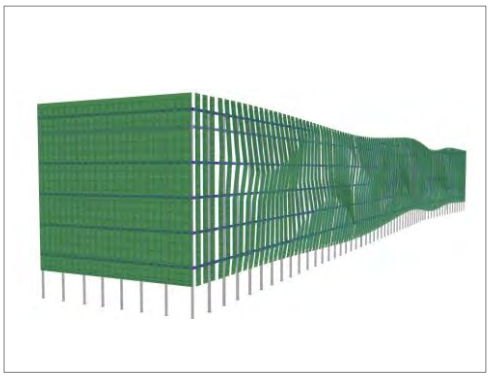
Status
Completed 05/2015

Europe
Germany

DHL-Campus
Schkeuditz

DHL-Campus, car park façade during construction progress, August 2023

PV-modules on steel substructure



Overview with PV-modules

PV-roof and elevation of steel-substructure with PV elements

Client
Rubin 65 GmbH

Owner ▪ Developer
Stadtbau Leipzig AG

Architect
Architektur von Domaros GmbH

Project Data
- ca. 17 m Gebäudehöhe
- ca. 2.200 m² Fassadenfläche

Building Function
Car park, Office

Technical Features
- Facade perceives a spatially-acting wave
- PV modules supported by a 15m high, up to 2m cantilever steel substructure in 200 different sections
- The color effect of the PV modules varies based on sunlight exposure and the observer's viewing angle

Consultancy Services
- Technical/ Construction Design
- Execution Compliance Control

Engineering Services
- System-/Concept Deign

Engineering Services
- Decentralized Energy
- Design and Cost Optimization
- 3D Modelling
- Parametric

Status
Under construction

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Verantwortung

vom Konzept bis zur Fertigstellung

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