

WORK

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THE ARCHITECTURE THAT COMMUNICATES
UNSTUDIO AS THE SUPER ORGANISER AND DESIGNER

JANSEN CAMPUS

DAVIDE MACULLO ARCHITECTS ADDED A STRIKING TRIANGULAR OFFICE BUILDING TO THE SKYLINE OF OBERRIET

THE CUTTY SARK CONSERVATION

GRIMSHAW RAISED THE 963-TONNE CUTTY SARK THREE METRES WITHIN HER DRY BERTH

HEINEKEN OPEN EXPLORATIONS EDITION 1

'NOT AS AN EXHIBITION, BUT AS A REAL CLUB.'

YANDEX SAINT PETERSBURG OFFICE II

ZA BOB ARCHITECTS TURNED TINY PIXEL ICONS INTO 3D OBJECTS BOTH FANCY AND FUNCTIONAL



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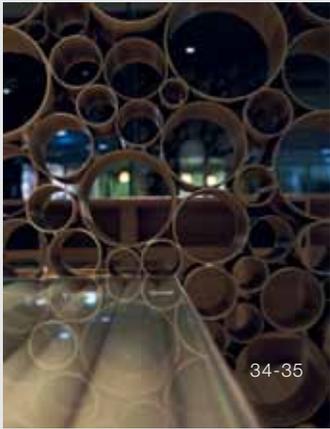
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JANSEN CA



// Davide Macullo / Founder of Davide Macullo Architects

‘...a striking new addition to the skyline...takes its triangular forms from the traditional pitched roofs of Oberriet...’

Davide Macullo Architects is an international design studio based in Lugano in southern Switzerland and in Vimercate, Milan, Italy. The studio was founded in 2000 and since then has grown steadily. Current projects are located worldwide, for example, in Switzerland, Greece, South Korea and Italy. They have also recently been invited to participate in competitions in China, Italy and Germany.

The ethos of the studio has developed into one of ‘cross-experiences’ and promotes an open and cultural exchange with architects and collaborators coming from different backgrounds. The work of the studio has received awards, been published and exhibited widely both at home and abroad. Davide has also lectured on the work of the studio at CAFA Beijing, Seoul National University, IUAV Venice, Florence Kent University, the International Convention of Architecture in Budapest and at the China Building Decoration Association. Prior to founding his own studio, Davide was with Mario Botta Architects for 20 years as international project architect, with responsibility for over 200 projects worldwide.



MPUS

DESIGN _
DAVIDE MACULLO ARCHITECTS

CLIENT _
JANSEN AG

LOCATION _
OBERRIET, SG, SWITZERLAND

COMPLETION _
MAY 2012

PHOTOGRAPHY _
PINO MUSI AND ENRICO CANO



PRINCIPAL _
DAVIDE MACULLO

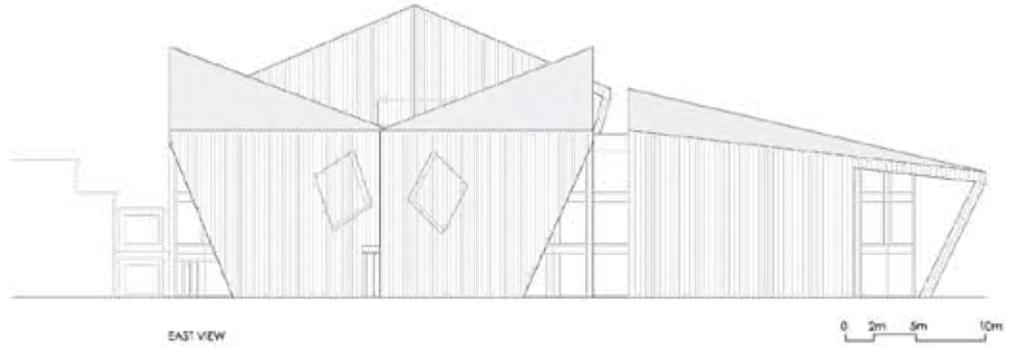
PROJECT ARCHITECT _
LORENZA TALLARINI

DESIGN COLLABORATORS _
AH LOM KIM, AILEEN FORBES-
MUNNELLY, KAREN ABERNETHY,
MICHELE ALBERIO AND
SAMUELA PFUND

SITE AREA _
3,705m²

BUILDING AREA _
1,100m²

TOTAL FLOOR AREA _
3,300m²



EAST VIEW ELEVATION.



The project is the landmark headquarters of the new 'Jansen Campus' and is the result of two years of extraordinary collaboration between the architects and the clients. The building, a striking new addition to the skyline, is the link between the industrial area and the old town and takes its triangular forms from the traditional pitched roofs of Oberriet. The project integrates innovative technologies and includes new details and materials not yet used in architecture – the façade system for example, structural glazing details (by Jansen AG) and internal glazed fireproof doors. The building's heating, ventilation, lighting and energy consumption meets strict Swiss 'Minergie' standards, meaning that it has excellent sustainable credentials – the HV system, for example, is 'TAPS', activated by the structural shell of the building.

One of Jansen's main objectives for the project is to make the Campus a creative and engaging place for all their employees. The building's workspaces are open plan, with each employee having their own custom designed workstation. ➤



THE CLIENTS HAVE A GREAT APPRECIATION OF ARCHITECTURE AND WERE KEEN TO APPLY THEIR EXPERIENCE AND EXPERTISE TO FINDING SOLUTIONS FOR THEIR NEW BUILDING.

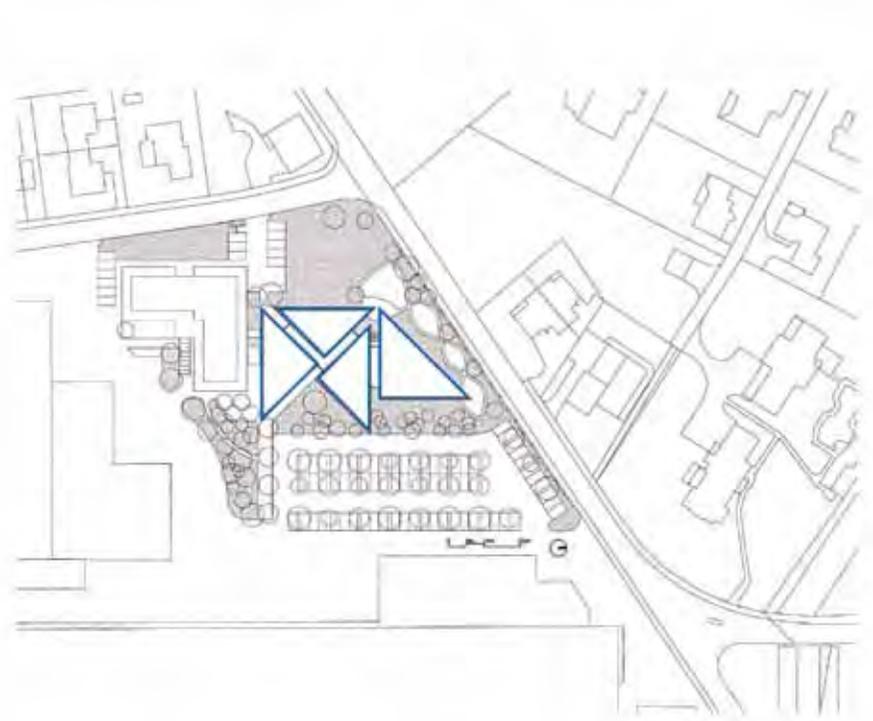


CONTRACTOR _
ARCHITEKTEN: RLC AG

STRUCTURAL ENGINEER _
WÄLLI AG INGENIEURE

BUILDING ENGINEER, ACOUSTICS _
BAUMANN AKUSTIK UND
BAUPHYSIK AG

The geometry of the building means that visitors and employees alike are offered unexpected glimpses sliced out of the landscape.



BACKGROUND

The motivation behind the construction of the new building has been to create a space that would have a positive and productive effect on the creativity of the executives, researchers and employees of the company. Throughout all the phases of design and construction, there has been an underlying and continuous concern in investing in humans. The project is the result of a genuine collaboration between Jansen and the design team. Having worked with architects for many years, developing and tailoring solutions, the clients have a great appreciation of architecture and were keen to apply their experience and expertise to finding solutions for their new building.

Jansen is committed to the sustainable management of its production and logistics. In keeping with the company's ethic and technical excellence in this field, the building meets the exacting Minergie standards, with efficient energy use and the reduction of environmental pollution and a competitiveness in maintenance costs. The building uses ground water for the heating and cooling and runs on a heat recovery system, drawing attention to the company's experience in energy efficiency and production of photovoltaic elements. ➤

A BRIDGE BETWEEN THE DNA OF A PLACE AND ITS FUTURE

The site for the construction of the new Jansen Campus lies at the north end of the industrial complex and is bordered by the small scale residential expansion of the village. This particular site allows the new building to insert itself as the link between two different urban scales – at once acting as the face of the industrial area while also reducing to the scale of the village. This reduction in scale has been achieved by fragmenting the mass of the building into four.

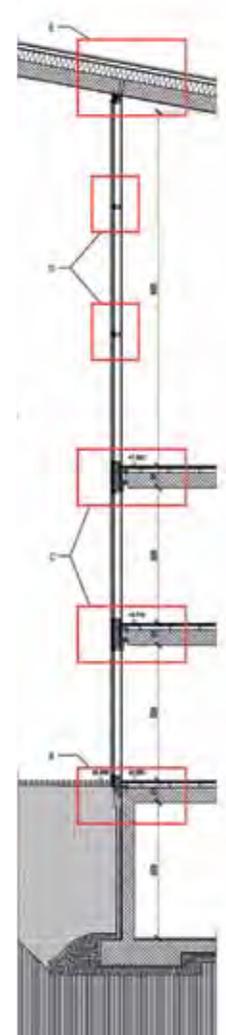
Oberriet is typified by a multitude of different sized inclined planes, sloping in different directions, which manage to achieve a remarkable visual and spatial balance. In fact, at a perceptible level, the façades of the buildings lose their importance, assuming the supportive roles of these great inclined planes. The new geometry of the Jansen Campus has been generated by this complexity of the 'games of planes'.

The semi-structural façade, produced by Jansen, is a new system produced in such a way as to guarantee a continuity of the

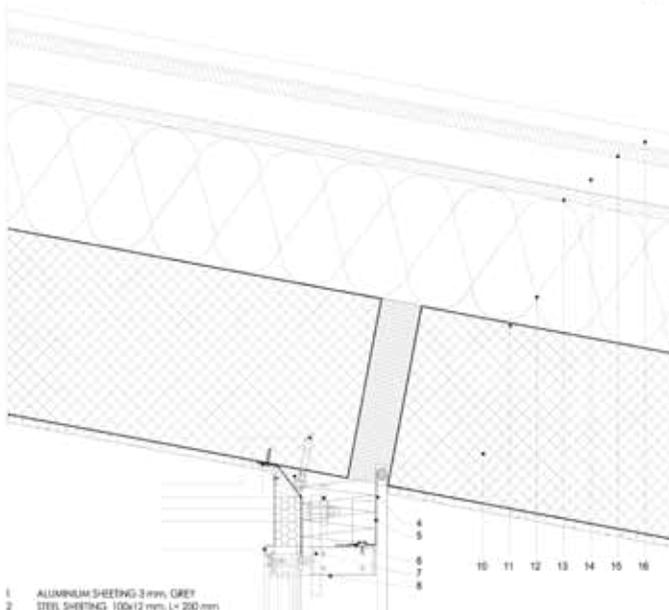
reflective, glazed and transparent elements of the building, without the need for external support mechanisms.

In order to build the sloping roofs of the building, a system of adding fibres to the concrete casting was developed, which guaranteed that the poured cement would adhere to the metal reinforcements. An innovative radiant system (TABS), partly produced by Jansen, based on thermal mass principles, has also been integrated into the structure. Heating and cooling circuits have been installed directly into the concrete structure forming the floors and ceilings, ensuring the quality conditioning of all spaces.

The façade is clad in a dark pre-patinated perforated Rheinzink mesh. This particular finish gives the material a colouring that evokes the density of the tones of the wooden buildings of the surrounding area. Used for the first time as an external cladding, it shimmers with reflections and shadows, changing throughout the day. The modular design and the tight stretched mesh play a role in the scale of the building and make it interesting and pleasurable for approaching visitors. ➤

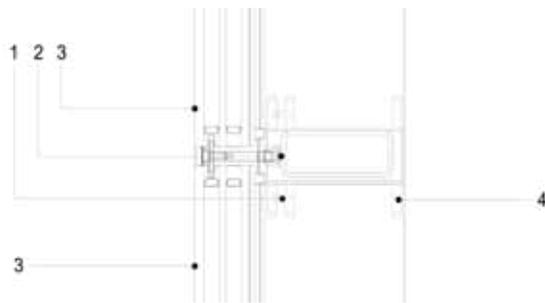


FAÇADE SECTION.



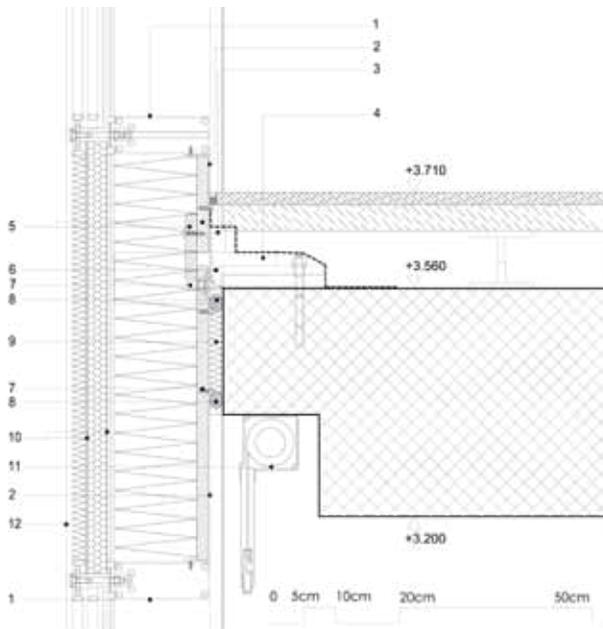
- 1 ALUMINIUM SHEETING 3 mm, GREY
- 2 STEEL SHEETING 100x12 mm, L= 250 mm
- 3 ALUMINIUM SHEETING 2 mm, GREY
- 4 STEEL SHEET WHITE FINISH 2 mm
- 5 SHOCK PLATE 1 mm
- 6 STEEL SHEET WHITE FINISH 2 mm
- 7 STEEL SHEETING 50x20 mm, L= 250 mm
- 8 JANSEN VISS SG FACADES WHITE
- 9 FIXING PIN
- 10 REINFORCED CONCRETE
- 11 VAPOUR BARRIER
- 12 GLASSWOOL 200 mm
- 13 ARBEK PANEL 24 mm
- 14 AIRSPACE 80 mm
- 15 RIGID SUPPORT PANEL 27 mm
- 16 RHEINZINK ANGLED STANDING SEAM DARK PREPATINATED 68 mm

DETAIL E



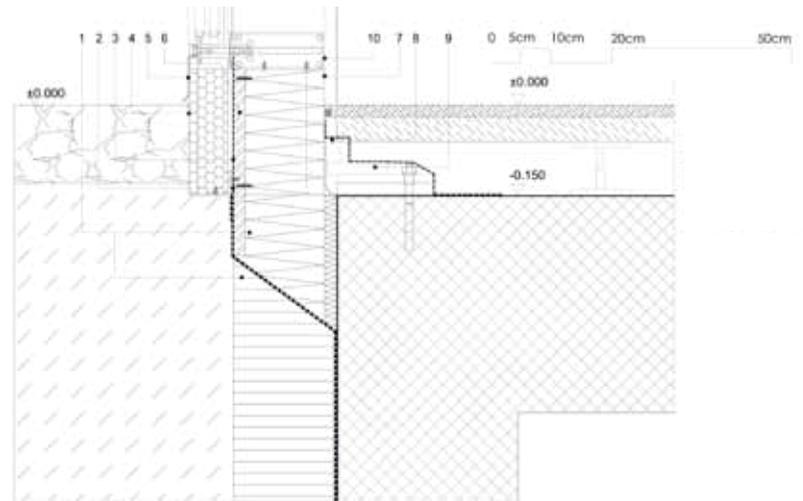
- 1 FIXING SCREWS M6x16 mm
- 2 REINFORCED VISS SG PROFILE
- 3 TRIPLE GLAZED TRANSPARENT GLASS
- 4 T-PROFILE JOINT WITH VERTICAL MULLION

DETAIL D



- 1 GLASSWOOL
- 2 POINT FIXING
- 3 WATERPROOF LAYER
- 4 ALUMINIUM SHEETING 2 mm
- 5 RHEINZINK SHEETING 1 mm
- 6 FIXING PANEL 18 mm
- 7 STEEL SHEET WHITE FINISH 2 mm
- 8 SPACERS 40x25 mm L= 40 mm
- 9 POINT FIXINGS
- 10 JANSEN VISS SG FACADES WHITE

DETAIL C



- 1 JANSEN VISS SG FACADES WHITE
- 2 STEEL SHEET WHITE FINISH 2 mm
- 3 SPACERS 40x25 mm L= 40 mm
- 4 POINT FIXINGS
- 5 FIXING PANEL 18 mm
- 6 FIXED STEEL PLATE 40x10 mm L= 100 mm
- 7 THREADED STEEL BOLT
- 8 FIRE PROTECTION FUGUE
- 9 GLASSWOOL
- 10 ALUMINIUM SHEETING 2 mm
- 11 ROLLERBLIND
- 12 GREY GLAZED CLADDING PANEL

DETAIL B

EXTERIOR, FINISH:
 FAÇADE _
 DARK PRE-PATINATED RHEINZINK
 EXPANDET MESH AND WIND PROTECTION
 LAYER

CANTILEVERED WALLS AND OVERHANGS _
 REINFORCED CONCRETE, PAINTED WHITE

WINDOWS _
 JANSEN VISS SG, STRUCTURAL GLAZING

SLOPING ROOF _
 RHEINZINK DARK PRE-PATINATED PANELS

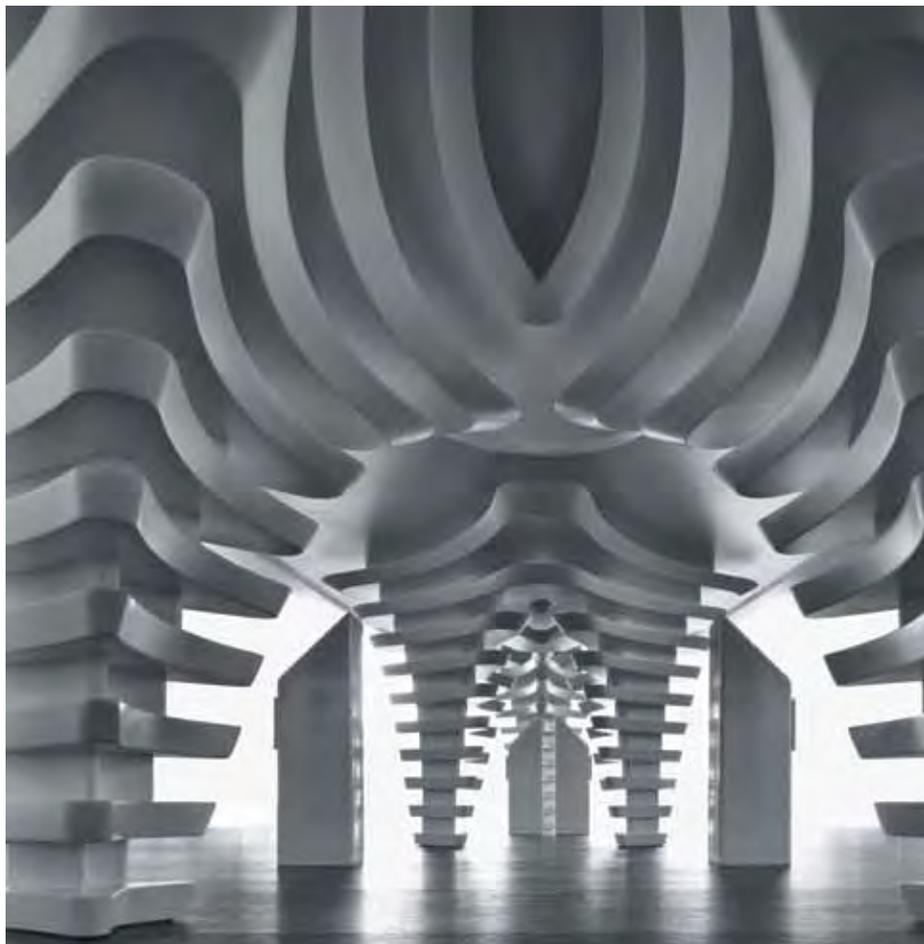
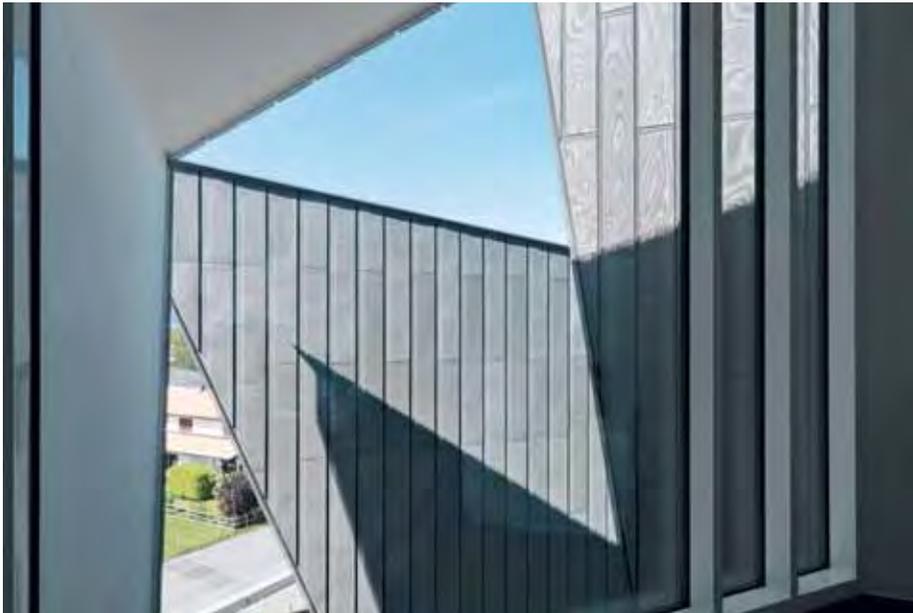
FLAT ROOF _
 PREFABRICATED CONCRETE ELEMENTS
 AND GRAVEL

A SYSTEM OF ADDING FIBRES TO THE
 CONCRETE CASTING WAS DEVELOPED,
 WHICH GUARANTEED THAT THE POURED
 CEMENT WOULD ADHERE TO THE METAL
 REINFORCEMENTS.

SYSTEM ENGINEER AND COORDINATION _
AMSTEIN UND WALTHER AG

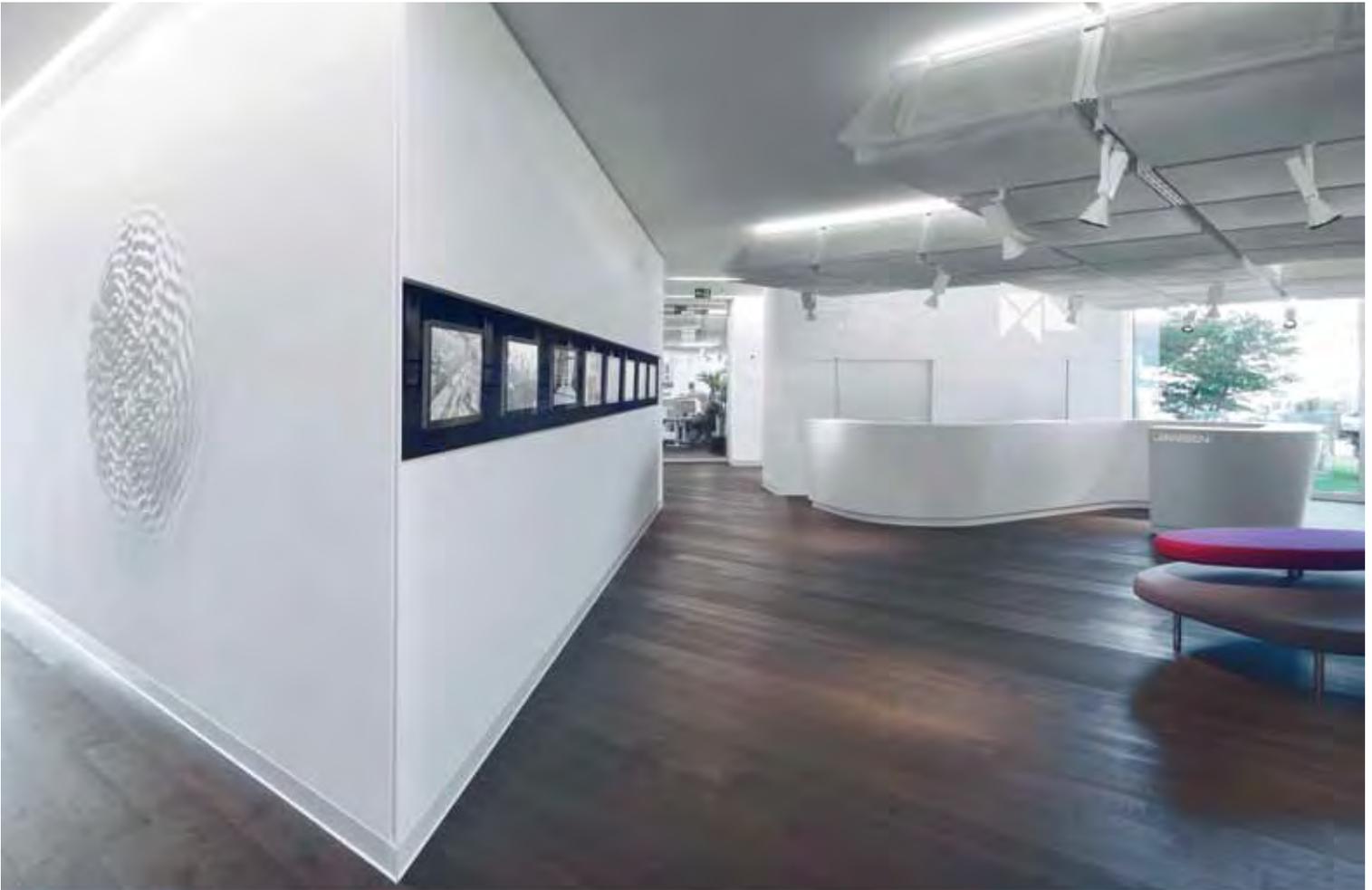
FAÇADES CONSULTANT _
FIORIO FASSADENTECHNIK GMBH

The internal landscape is articulated as a fluid space, almost as if it were formed by an extension of the urban streets of the village, a system of solids and voids expanding in all directions. The apparent mass of the new building is dematerialised internally, flooded with natural light teeming through the generous openings and the grand slicing overhangs that project the users out to the landscape. ➤





USED FOR THE FIRST TIME AS AN EXTERNAL CLADDING, THIS SHIMMERS WITH REFLECTIONS AND SHADOWS, CHANGING THROUGHOUT THE DAY.



INTERNAL FUNCTIONS

In order to allow for the fluid flow of daily working life, spaces intended for collective use have been placed adjacent to the main lifts and stair while the more intimate working spaces lie further along from this circulation. Currently the spaces are organised about a three-dimensional grid that corresponds to the company's functional structure.

The public functions are distributed from a reception zone on the ground floor. Rooms for meetings, business lunches and a restaurant all lead off this area. Also on the ground floor, beside

the reception is an office known as 'Mission Control' representing the operational heart of the company and acting almost like the stock market floor, where all information regarding the operations of the company is processed here in real time. On the first floor there is a space named 'Kreativbereich', a workplace and informal meeting space open to all, much appreciated by the employees, a teaching room with foyer and other meeting rooms. An open plan office for the communications section is located on the second floor and on the third is the boardroom with a panoramic terrace. ➤

The internal functions allow for a free plan internally with a high degree of flexibility and possibility for future division.



GROUND FLOOR PLAN.

THE STRUCTURAL FUNCTIONS OF THE BUILDING ARE ASSUMED BY THE PERIMETER WALLS OF THE TRIANGLES.

BASEMENT FLOOR AREA _
900M²

ABOVE GROUND FLOOR AREA _
2,400M²

VOLUME _
15,800M³

STOREYS _
ONE LEVEL BASEMENT, FOUR LEVELS ABOVE GROUND



The northern-most triangular block houses the operations wing of the company across two floors and on the upper floors are the offices of the directors responsible for this sector. The south triangle houses quality control and the executives responsible on the second floor. In the basement there are ca. 1,000m² reserved for archives, mechanical rooms and technological systems. Despite its apparent sophistication, the atmosphere of the internal landscape reflects the principle of reducing details to a minimum. The constructive elements are therefore always explicit and follow the rationale and economy of the site and the project, giving the space a technical and industrial atmosphere. ➤



GENEROUS OPERINGS PROJECT THE USERS OUT TO THE LANDSCAPE.



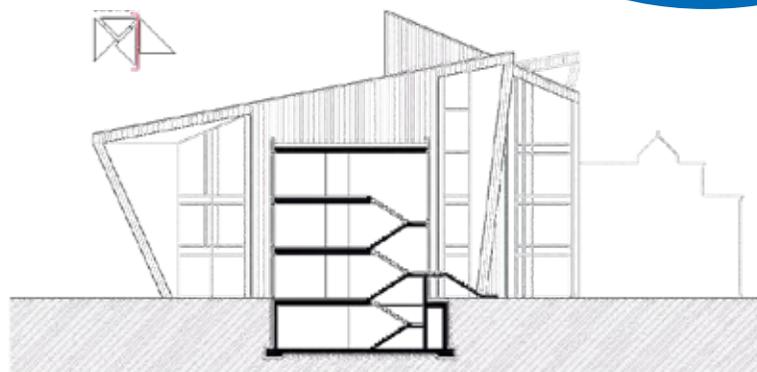
LIGHTING ENGINEER _
CADUFF LICHTPLANUNG

INTERIOR FINISH :
WALLS _
PLASTER

CEILINGS _
PLASTER

FLOORS _
WOOD PARQUET AND STONE

INDIVIDUAL OFFICES AND MORE INTIMATE WORKING SPACES REQUIRING MORE PRIVACY ARE DISTRIBUTED ALONG A SPIRAL, WITH THEIR AREA INCREASING AS THE SPIRAL RISES.



LIGHTING _
REGENT BELEUCHTUNG-
SKÖRPER AG

FURNITURE _
CAPPELLINI SPA, ALIAS
SPA, SARA SA AND STOLL
GIROFLEX

CUSTOM DESIGNED FURNITURE _
FREI HOLZBAU AG AND
ZOMO-FORM

ART ADVISOR _
SOPHIA KIM

LANDSCAPING _
BUCHER AG



THE COMPLETION OF A VISION

Alongside the building itself, the 'architecture', particular care has been taken in the landscape design and in the choice of both furniture and art works to complete the spaces.

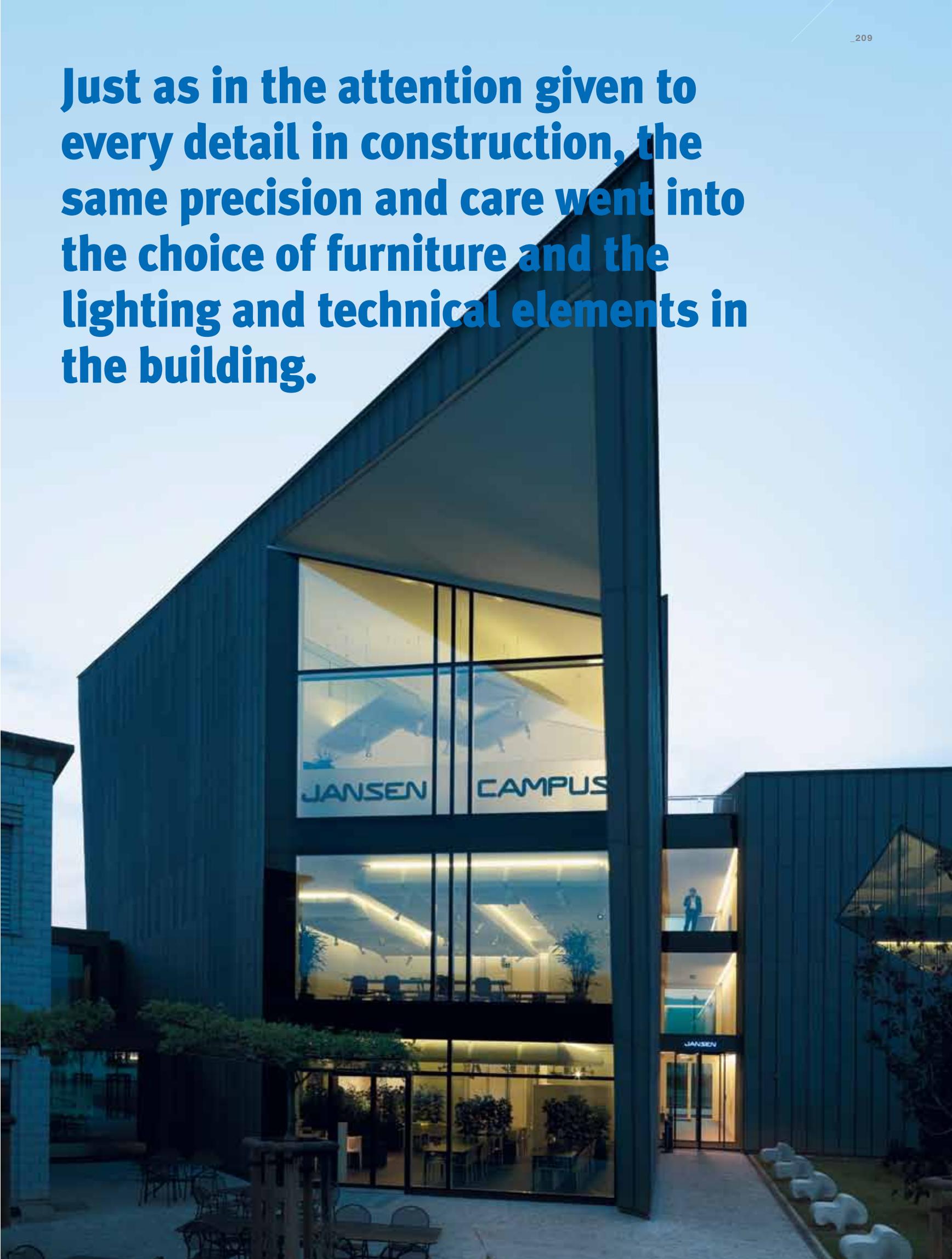
The landscape design involved the planting of 80 trees of 35 different species that have existed in the Rhine valley for at least 200 years and as such it takes on a didactic role in explaining the region's landscape.

Contrary to the traditional art investment for a work created in-situ, and thereby explicitly connected to the building, it was preferred, within the same economic parameters to take a more 'dynamic' route. As such, the art works selected reflect the

intention of interacting with the complexity of our contemporary world and include pieces by young and internationally established contemporary artists.

Just as in the attention given to every detail in construction, the same precision and care went into the choice of furniture and the lighting and technical elements in the building. It was decided that the furniture pieces would be products of the recent generation of designers, the result of a particular technological research, be of resistant and durable materials and reflect the philosophy of Jansen. 🌟

Just as in the attention given to every detail in construction, the same precision and care went into the choice of furniture and the lighting and technical elements in the building.



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