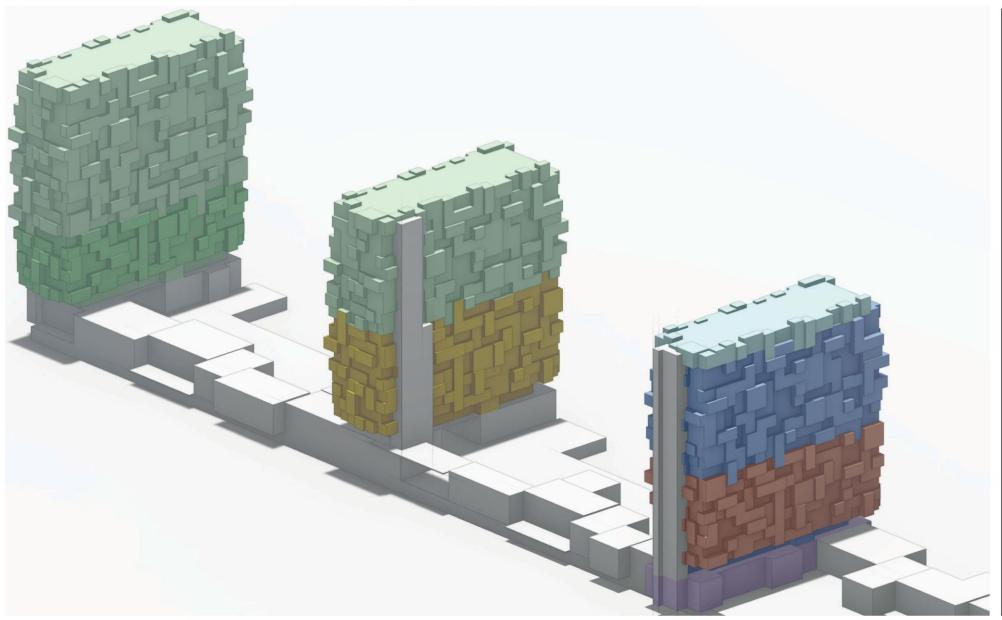


FUNCTIONAL DISTRIBUTION ON SITE



DIFFERENT USES

The various uses were distributed in such a way that they do not conflict with each other, have the necessary distance to each other, but also communicate with each other.

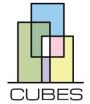
The entrance area on the ground floor was placed so that it is as close as possible to public transport. Due to its location under the right tower, it is also easily visible from the street.

There are also different uses on the roofs:

left tower and middle tower: outdoor recreation and sports areas for residents

right tower: rooftop bar with express lift, predominantly used by the uses below, but but still accessible to everyone.

- GENERAL LIVING
 - STUDENTS LIVING
- AGE APPROPRIATE LIVING
- CO-WORKING SPACES
- SERVICED APARTMENTS
- ROOFTOP BAR
- MAIN ENTRANCE



MATERIALS AND FACADE

the base













XXL version









L version







DESIGN

the base:

- green elements, roof gardening
- glas, mullion-transom facade
- movable metal mesh for solar protection (towers)

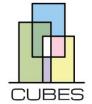
L version:

take over the historical background of textile industry

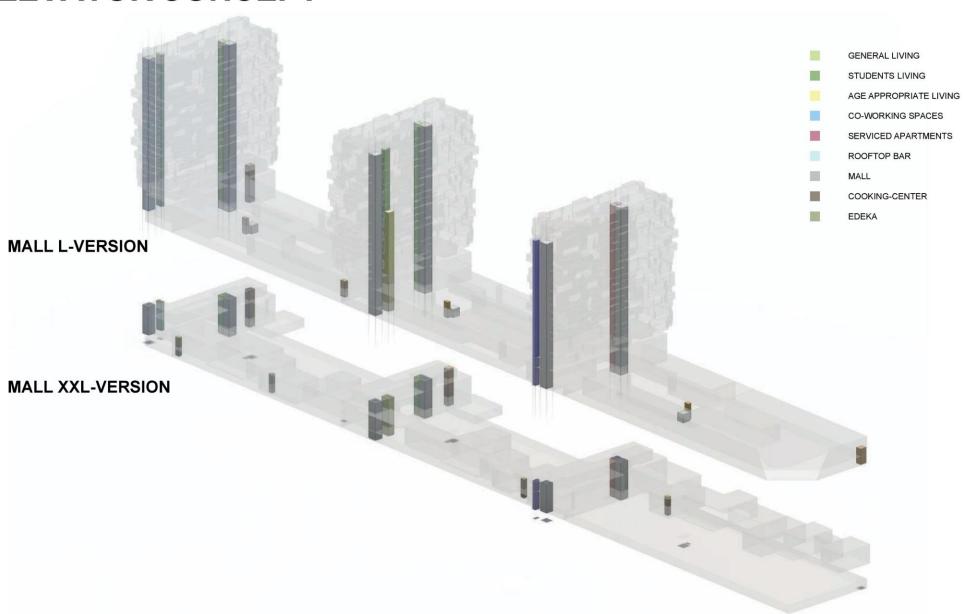
- expanded metal
- -> metal textiles
- textile curtains
- stone tiles

XXL version:

- walls of textured concrete
- concrete paving
- perforated metal sheets for solar protection, privacy, guidance



ELEVATOR CONCEPT



CALCULATION

GENERAL LIVING

person

7:00-9:00/17:00-19:00 rush hour STUDENT LIVING

person

7:00-9:00 rush hour **ELEVATOR**

capacity: 8 pers / elevator (3x) 2,5m/sek speed:

height:

52 sec. / incl. buffer 90 sec affordable time: capacity/hour: 320 pers/h x 3 = 960 pers/h

2

GENERAL LIVING

person

7:00-9:00/17:00-19:00 rush hour

AGE APPRORIATE LIVING

9:00-12:00 / 15:00-18:00 rush hour **ELEVATOR**

capacity: 8 pers / elevator (3x)

speed: 2,5m/sek

height:

52 sec. / incl. buffer 90 sec affordable time:

capacity/hour: ELEVATOR 320 pers/h x 3 = 960 pers/h

13 pers / elevator (1x) 1,5m/sek capacity:

speed:

height:

88 sec. / incl. buffer 120 sec affordable time:

capacity/hour: 390 pers/h

CO-WORKING

07:00 - 08:00 / 17:00 - 18:00 rush hour

SERVICED APPARTMENTS

person

rush hour 06:30 - 08:00 / 16:00 - 18:00

ROOFTOP-BAR

12:00 - 14:00 / 17:00 - 02:00 rush hour

ELEVATOR

person

8 pers / elevator (3x) capacity: 2.5m/sek

speed:

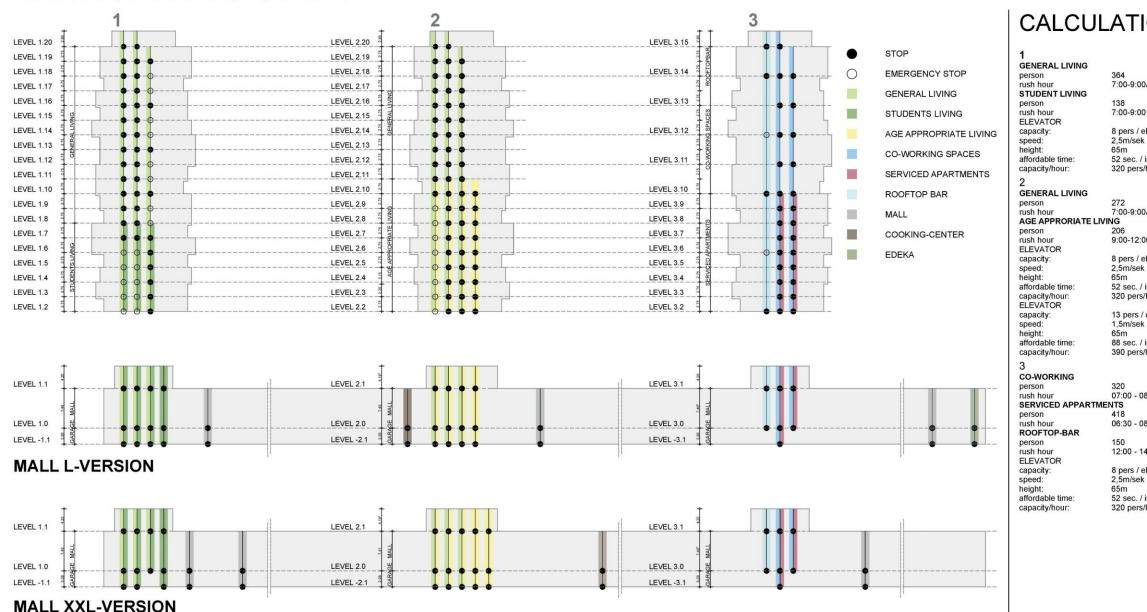
height:

affordable time:

52 sec. / incl. buffer 90 sec capacity/hour: $320 \text{ pers/h} \times 3 = 960 \text{ pers/h}$



ELEVATOR CONCEPT



CALCULATION

7:00-9:00/17:00-19:00

7:00-9:00

8 pers / elevator (3x) 2.5m/sek

52 sec. / incl. buffer 90 sec 320 pers/h x 3 = 960 pers/h

272

7:00-9:00/17:00-19:00

9:00-12:00 / 15:00-18:00

8 pers / elevator (3x)

2.5m/sek

52 sec. / incl. buffer 90 sec

320 pers/h x 3 = 960 pers/h

13 pers / elevator (1x)

1,5m/sek

88 sec. / incl. buffer 120 sec

390 pers/h

07:00 - 08:00 / 17:00 - 18:00

06:30 - 08:00 / 16:00 - 18:00

12:00 - 14:00 / 17:00 - 02:00

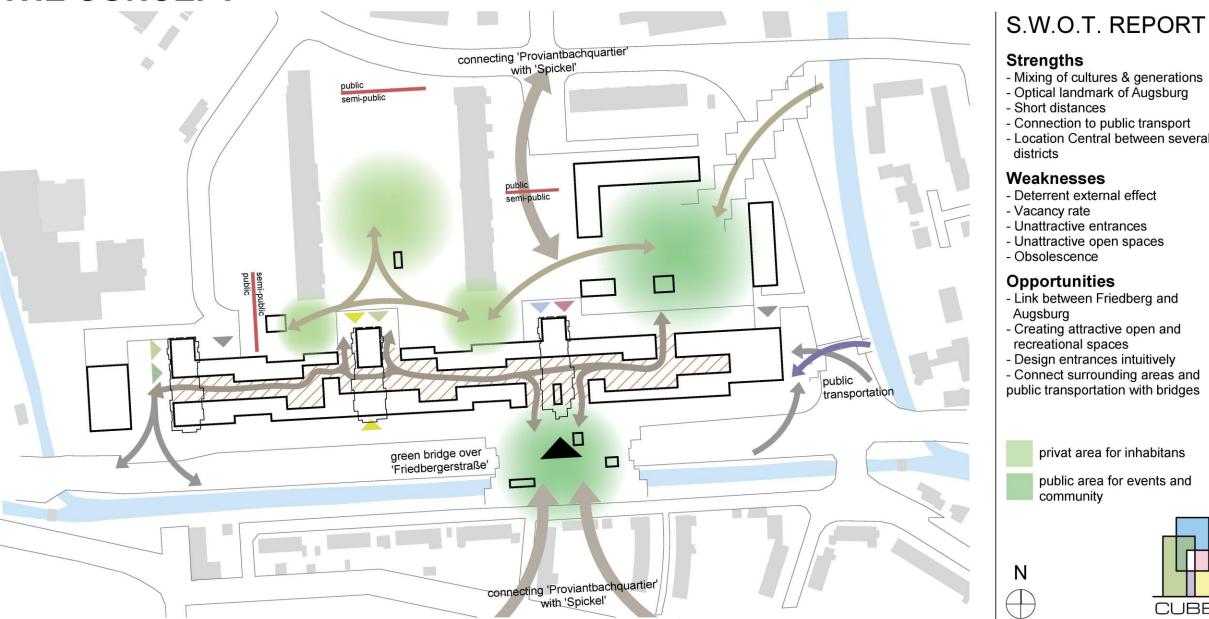
8 pers / elevator (3x)

52 sec. / incl. buffer 90 sec

320 pers/h x 3 = 960 pers/h







- Mixing of cultures & generations

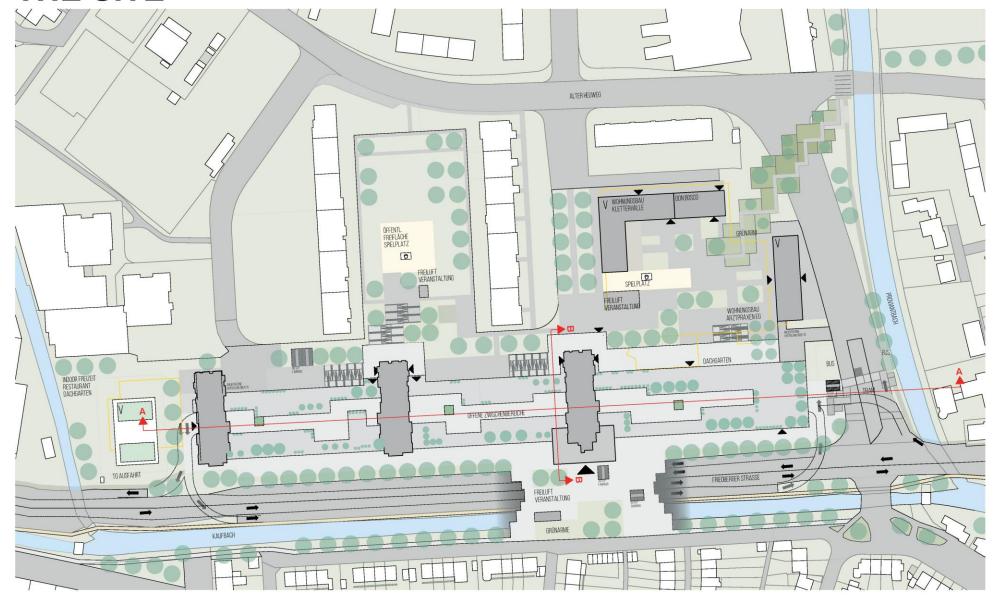
- Location Central between several

- public transportation with bridges





THE SITE



DESIGN WRAP

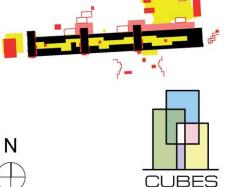
Demolition:

- Parking decks east
- Access to the parking deck
- Parking decks of the mall
- open the center of the mall
- Interruption of the "Willhelm-Hauff Straße"

Redesign:

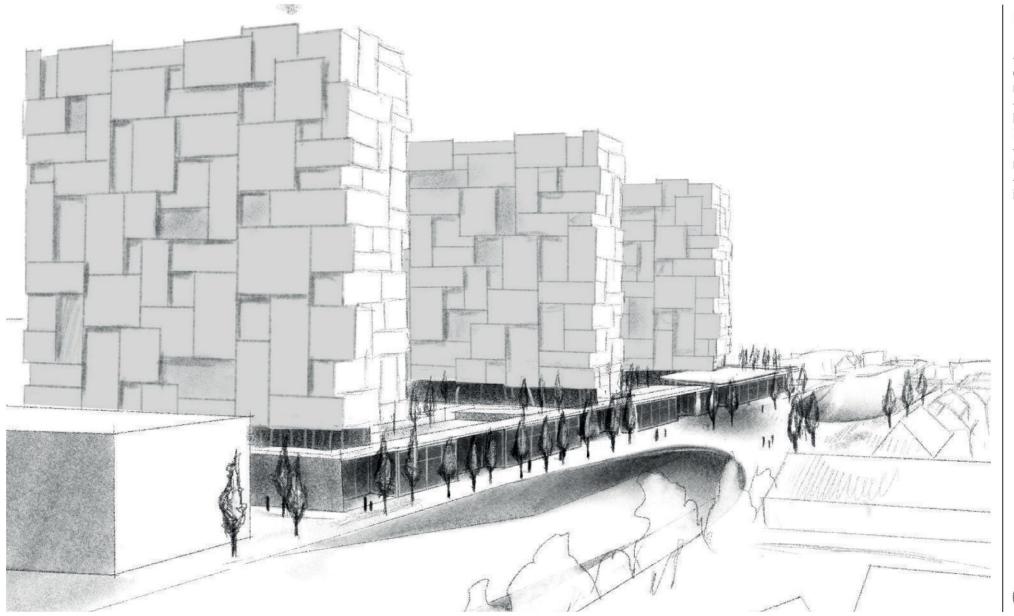
- Reactivation of the underground car park, settlement of necessary ancillary areas
- Transformation of the mall into a promenade, adaptation of the cubes
- Entrance of the towers via mall or shortcuts in the north
- Linking new green areas with the existing ones
- Road overpass for connection to Spickel

New skin over promenade and the towers



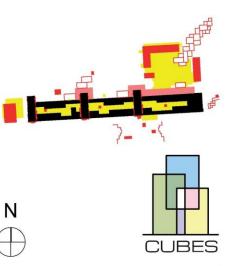


THE SITE - SURROUNDINGS

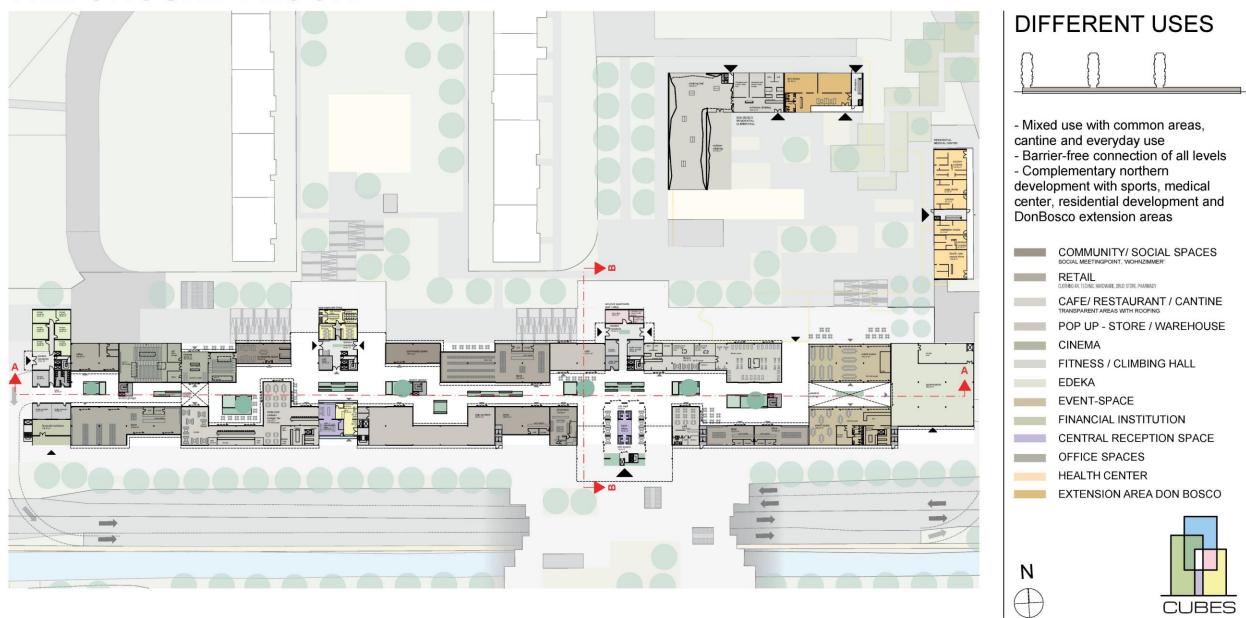


CONNECTIONS

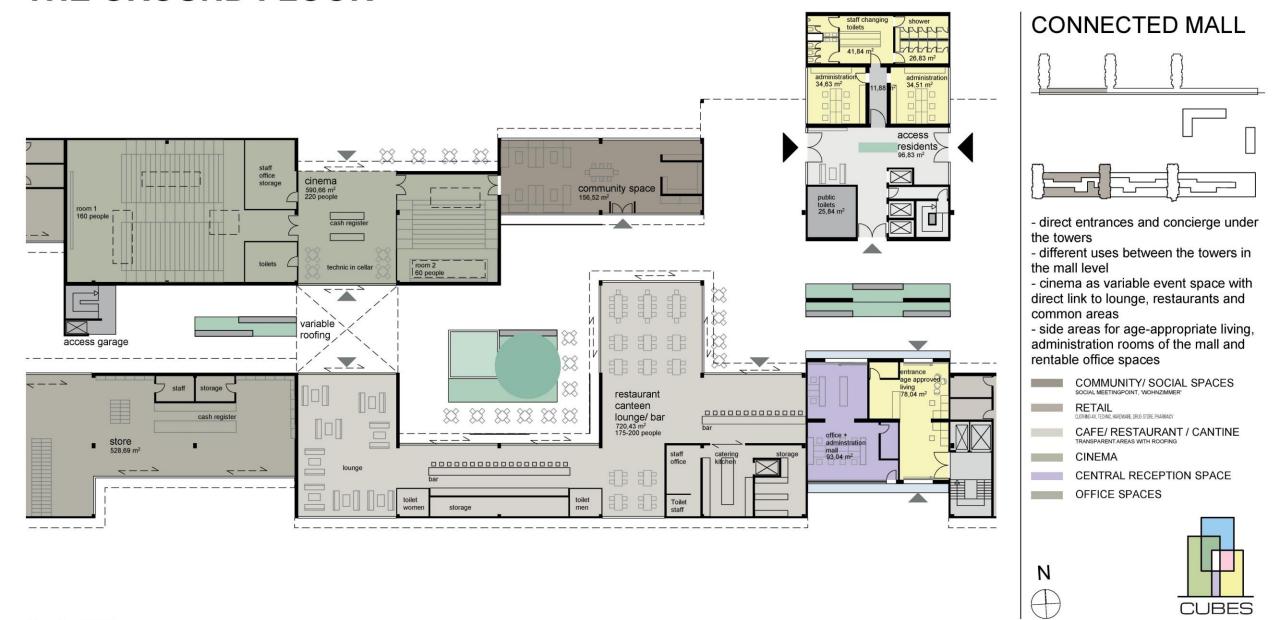
- Barrier-free linking of the surrounding districts, good integration into the neighborhood, easy access
- Bringing in through green arm / bridge over lowered B300 / Friedberger-Straße
- Creation of a plaza with a roofed main entrance
- Green from the surroundings is led into the mall and continues on the roof



THE GROUND FLOOR



THE GROUND FLOOR



THE GROUND FLOOR

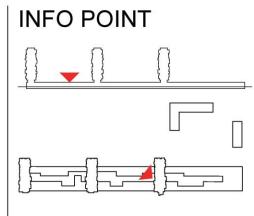




CUBES

THE INFO POINT - ATMOSPHERE





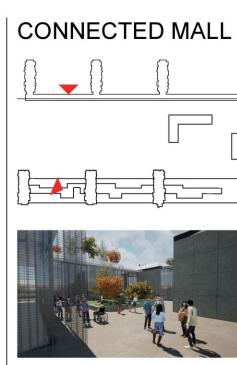




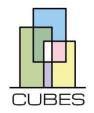


THE GROUND FLOOR MALL - ATMOSPHERE

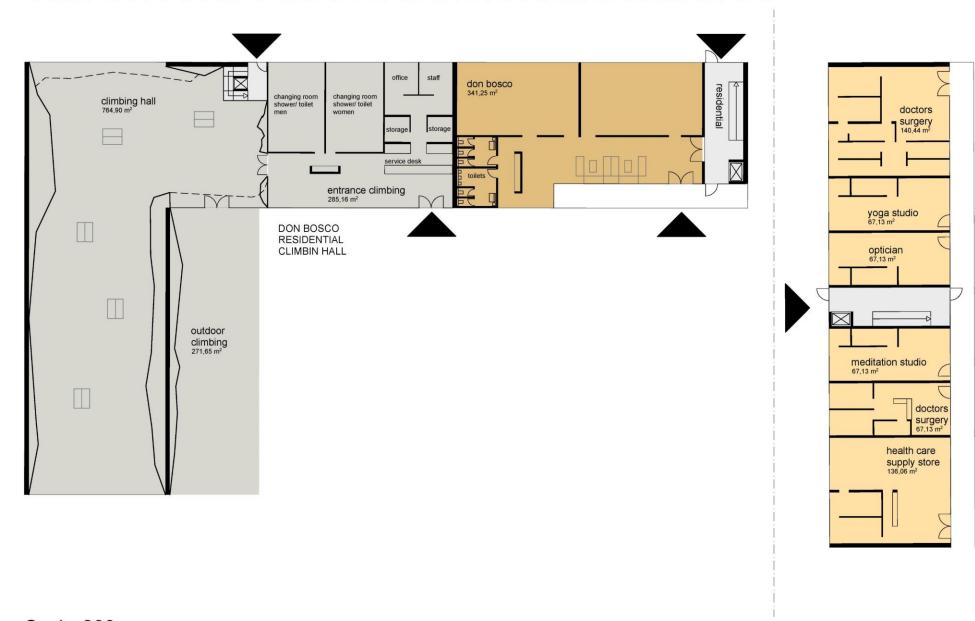




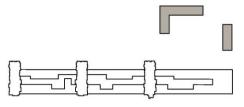




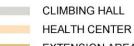
THE GROUND FLOOR ADDITIONAL BUILDINGS



SPORT-/ MEDICAL CENTER



- Climbing hall with outdoor patio and lobby
- Extension-/ event areas DonBosco
- Apartments on the upper floors
- Formation of a public protected courtyard, ringed by additional development and existing mall
- health care and supply stores on the first floor
- medical practices and apartments on the upper floors

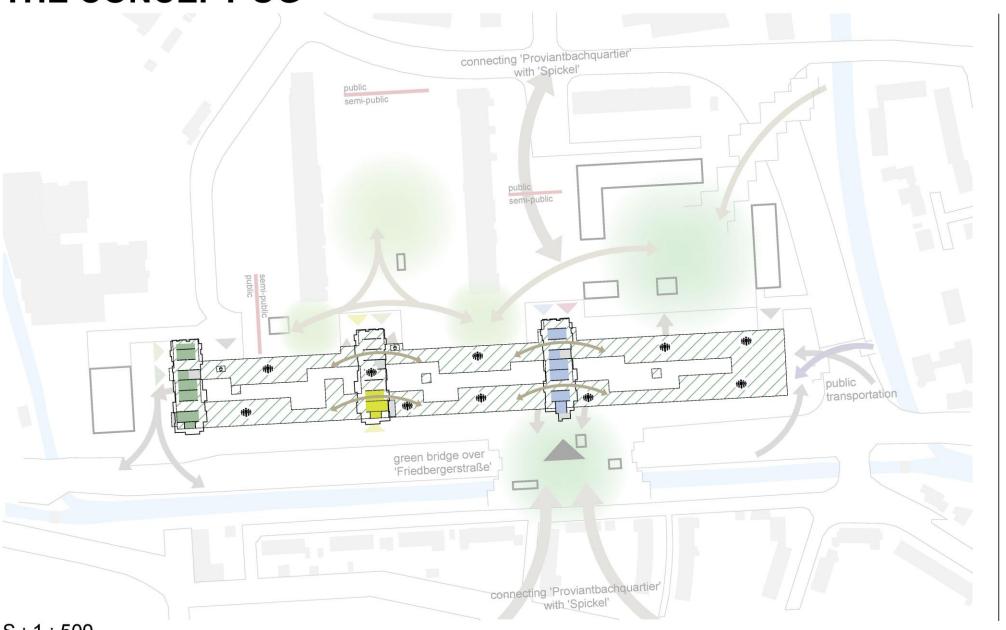


EXTENSION AREA DON BOSCO



S:1:200

THE CONCEPT OG



PRIVATE MEETING POINT



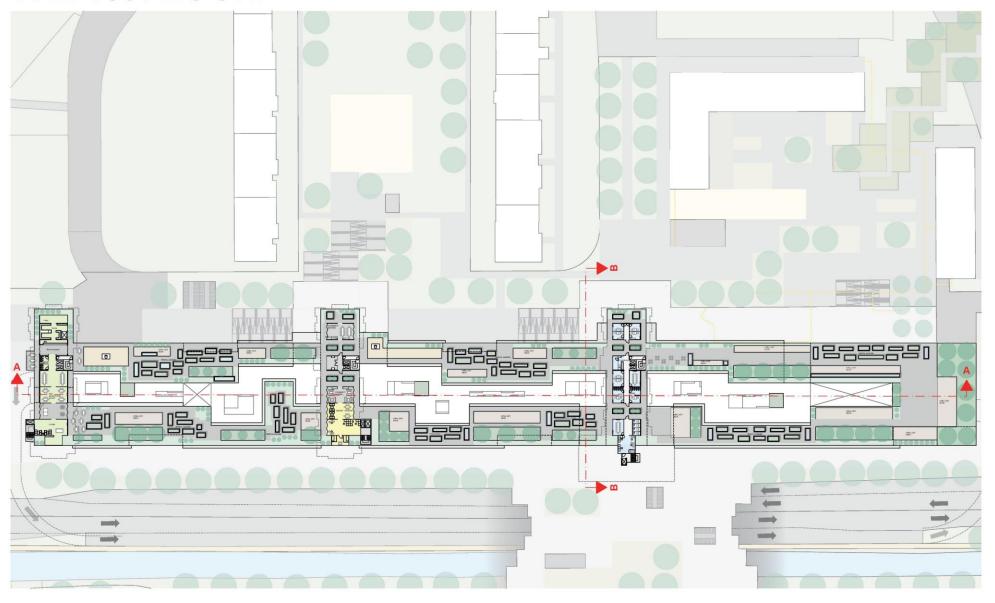








THE 1st FLOOR



ROOF GARDENING



- for the different residents, place of meeting
- Greenery creates privacy and high quality of stay
- Upper floor openly designed and with benefits for the different user groups
- Rental gardens between the towers in the form of cubes







S:1:500

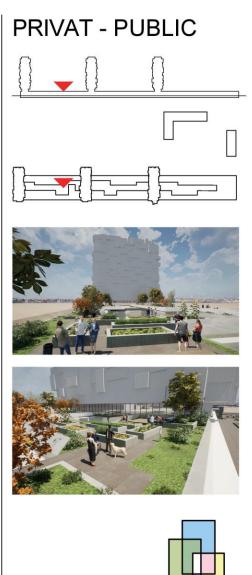
THE 1st FLOOR



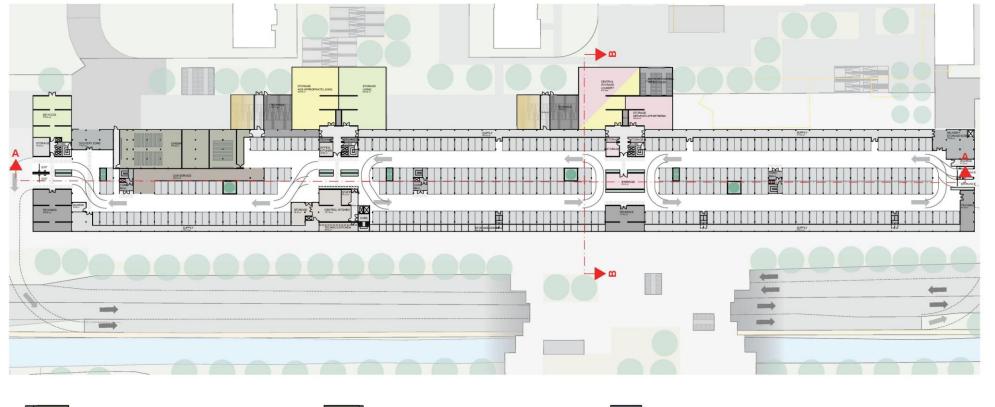
S:1:200

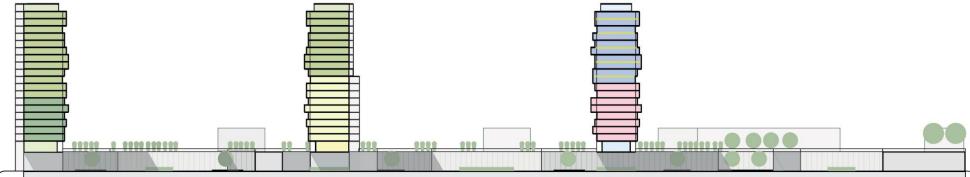
THE FIRST FLOOR - ATMOSPHERE





THE UNDERGROUND PARKING GARAGE







BASEMENT

- Underground car park is revived
- Extension areas for tower uses in the north and south
- Delivery zones and storage areas to the east and west
- Central kitchen below the middle tower with direct connection to the customers
- Technical areas for mall and towers
- Use of the basement for the mall's cinema
- Direct barrier-free access to the mall level and the shortcuts of the towers

SECTION

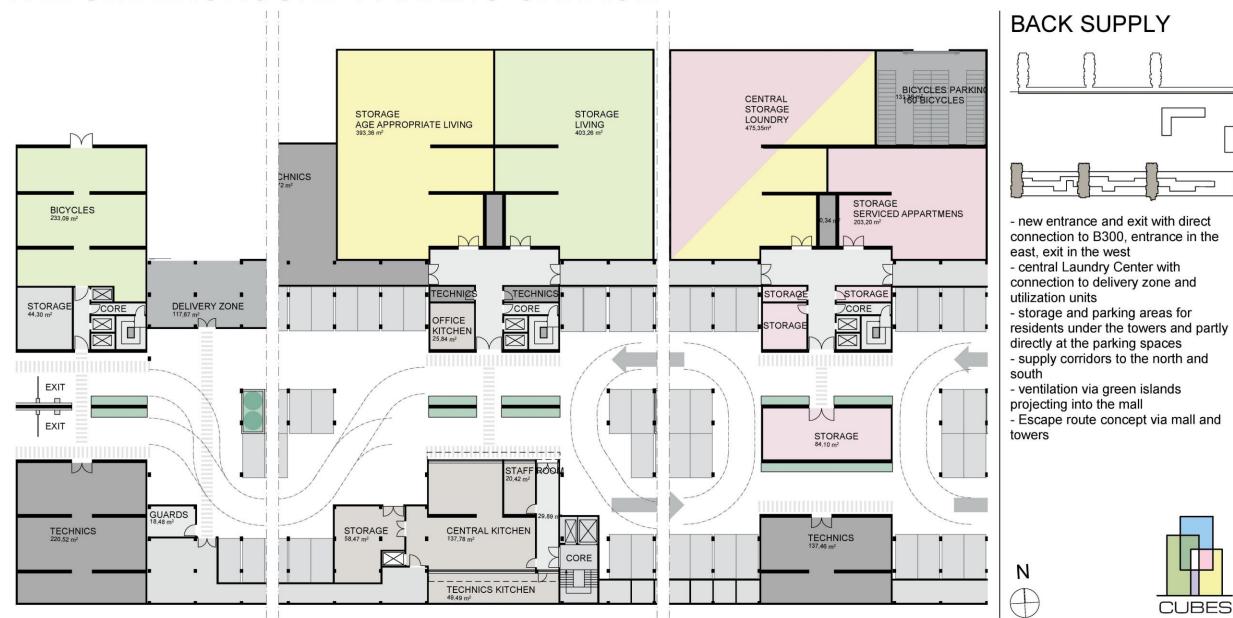
- Separation of use according to frequency, volume, audience and number of visitors
- Increase from west to east



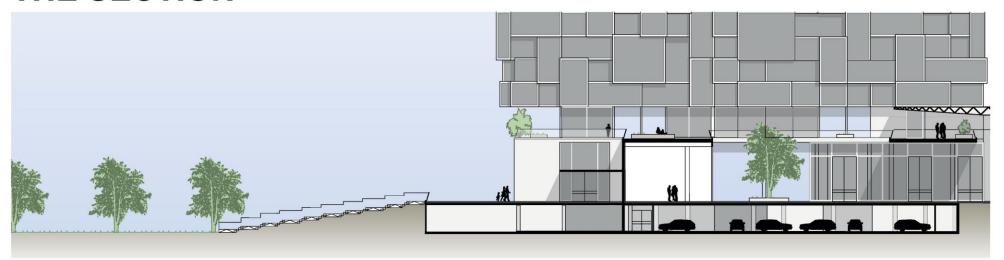


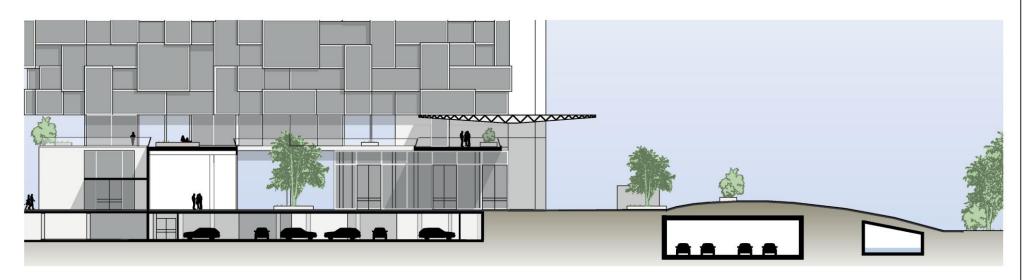
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THE UNDERGROUND PARKING GARAGE

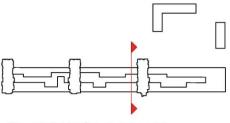


THE SECTION



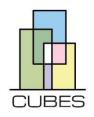


EQUALITY + INTERACTION



- Equal rights for people with disabilities through barrier-free stair ramp according to DIN 18040
- Linking the open spaces in the north with the level of the mall via stair ramps
- Interaction with roof terrace
- connection to the surroundings by bridge over the Kaufbach to Spickel



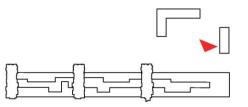


S:1:200

COMMUNITY SPACE - ATMOSPHERE

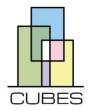


PUBLIC CUBES





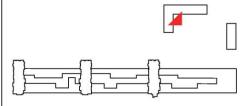




COMMUNITY SPACE - ATMOSPHERE



PUBLIC CUBES

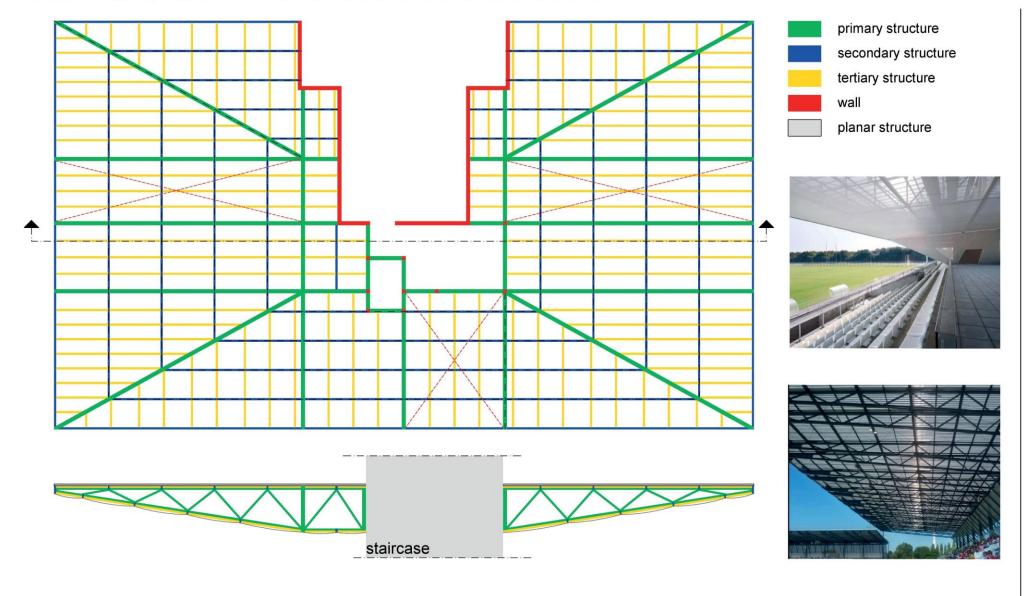




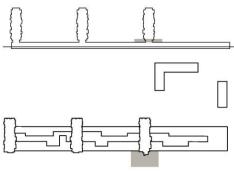




THE CANOPY - STATIC STRUCTURE







- The underside is covered with translucent fabric panels in the style of the textile city of Augsburg.
- underside indirectly illuminated
- filigree steel lattice construction
- fixed to newly constructed stair core in front of the entrance, completely free-floating construction

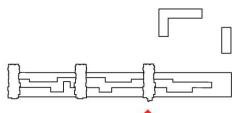




THE CANOPY - ATMOSPHERE

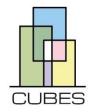


MAIN ENTRANCE

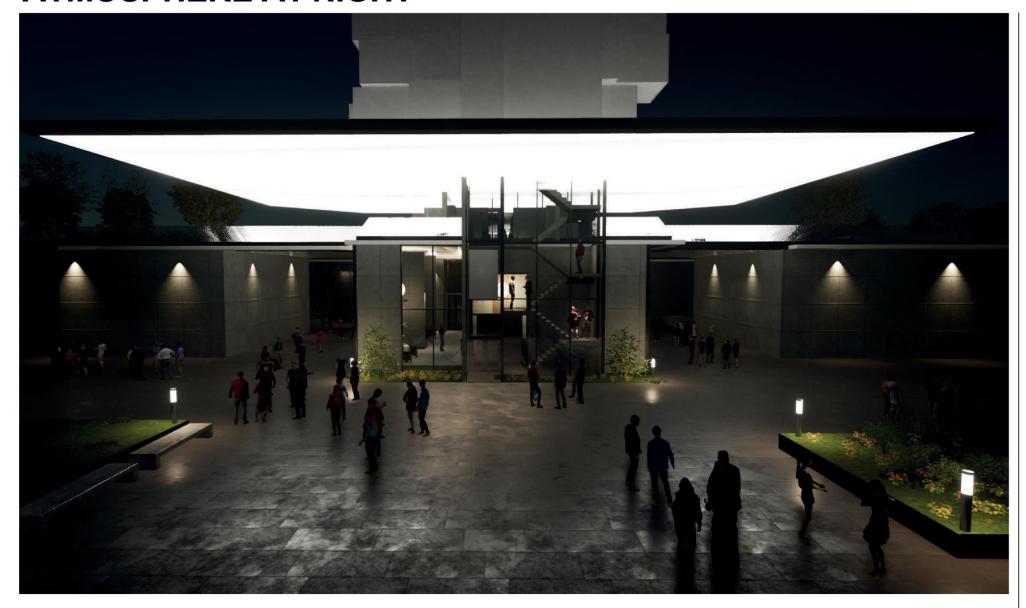








ATMOSPHERE AT NIGHT

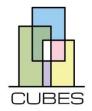


MAIN ENTRANCE









DETAIL: SOCKET

1 Wall structure mullion-transom:

400 mm STB uprights 400x400 mm mullion-transom facade Schüco FWS 60 CV HI or equivalent spacing frame / substructure Solar shading

10 mm solar protection element

2 Floor structure mall exterior:

80 mm concrete slab pavement passable chippings bed slae course in slope 2 sliding layer flow plastic waterproofing (DIN 18531 - K2) primer insulation trafficable foam glass, 0% slope

10 mm waterproofing primer

250 mm underground garage ceiling

125 mm insulation

3 Sunshade element:

Expanded metal cladding riveted mesh 50x30 mm steel square tube 50x50x6 welded 30 mm Langle block precast in lean concrete 500/300/80 mm 20 mm

4 Wall construction socket EG:

10 mm waterproofing reinforced concrete wall primer
10 mm waterproofing perimeter insulation primer
20 mm plastic waterproofing (DIN 18531 - K2) building protection/drainage mat

5 Ceiling structure ground floor mall: 20 mm floor covering

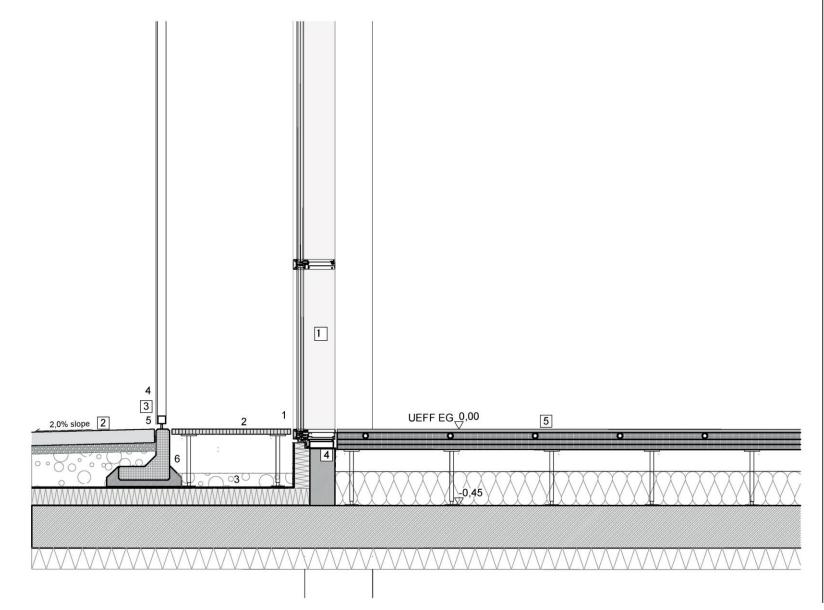
5 mm waterproofing primer hollow floor system (elevation 330 mm) Knaur GalFAlloor FHBplus climate with underfloor heating insulation soft waterproofing

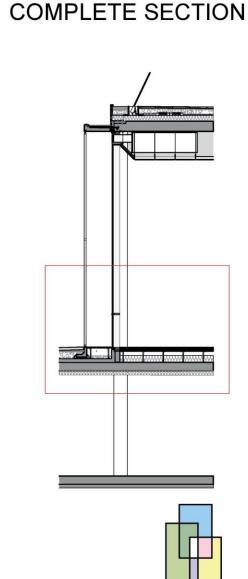
primer
250 mm
125 mm
thermal insulation, soundproofing
Tektalan fire behavior A2 (n.b.)

PARKING GARAGE

Socket construction mullion-transom facade:

- Mullion-transom façade Schüco FWS 60 CV HI with triple insulating glass
- 2 Grating galvanized non-slip with clamps thickness 30 mm, mesh size 20/20 mm elevated
- 3 Roll Gravel
- 4 Expanded metal riveted on
- 5 Support pin frame, round, 30 mm set in concrete
- L-angle block precast in lean concrete
 500/300/80 mm
 Support sunshade element





DETAIL: ROOF

1a Floor structure roof garden:

100 mm 150 mm base layer at a slope of 2 30 mm water storage slab 10 mm fiber protection mat sliding layer 20 mm plastic waterproofing (DIN 18531 - K2) primer 200 mm insulation walkable XPS, 0% slope 10 mm waterproofing reinforced concrete ceiling

1b Floor structure roof garden path:

40 mm concrete slab pavement 30 mm 250 mm base course in slope 2 filter fleece 30 mm water storage slab 10 mm fiber protection mat sliding laver 20 mm plastic waterproofing (DIN 18531 - K2) 200 mm insulation walkable waterproofing 250 mm reinforced concrete ceiling

2 Floor structure roof garden plantings:

400 mm planting substrate 300 mm base layer filter fleece 30 mm water storage slab root penetration protection 10 mm fiber protection mat sliding layer 20 mm plastic waterproofing (DIN 18531 - K2) foam glass insulation, pressure-resistant, 0% slope 10 mm waterproofing

3 Structure suspended ceiling:

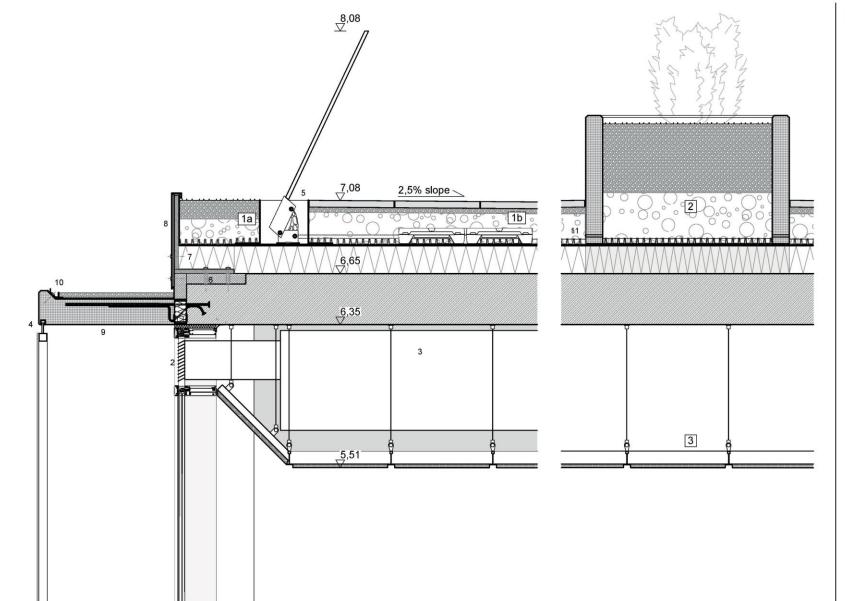
250 mm

System: Knauf company 800 mm suspension Knauf suspension system 30 mm suspension construction metal rail 12.5 mm gypsum plasterboard acoustic panel

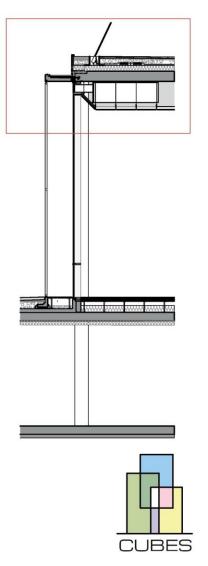
reinforced concrete ceiling

Construction elements roof:

- ISO Korb connected to existing ceiling Schöck type XT K-U
- 2 blind panel, as supply air opening with insect screen
- 3 Ventilation unit in suspended ceiling
- 4 U-profile inserted in precast element, position fixation perforated plate
- 5 Fall protection, BauderSECUTEC BARRIER G Angle: 65°
- 6 Insulation pressure-resistant, screw connection steel angle through sleeve in existing ceiling
- 7 Steel angle 460 / 350 / 25 mm Fixed to existing ceiling
- 8 Cover plate, galvanized
- 9 Precast 150 mm, K2 Plastic sealed, gravelled
- 10 fixing profile screwed into prefabricated element for roof sealing
- 11 Reinforced concrete prefabricated part as a planting bed, 100 mm thick Drainage openings in the wall in the lower part



COMPLETE SECTION

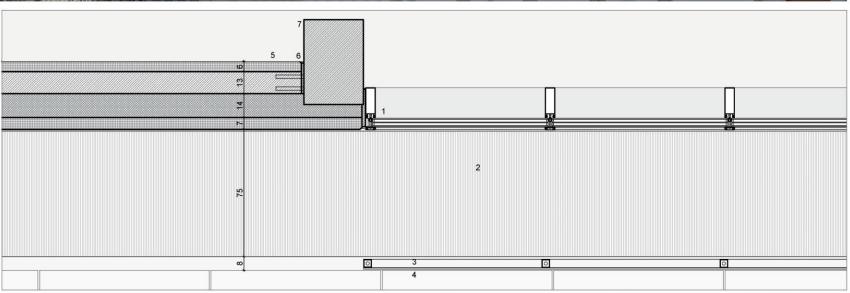


DETAIL: FLOORPLAN



Construction in the top view:

- Mullion-transom façade Schüco FWS 60 CV HI with triple insulating glass
- 2 Grating galvanized non-slip with clampsThickness 30 mm, mesh size 20/20 mm elevated
- 3 Sunscreen element
- 4 Slabbed pavement, trafficable
- 5 Double-shell, core-insulated exposed concrete element Outer shell 70 mm Insulation 140 mm (75 mm in front of the support) In-situ concrete shell 130 mm inner shell 00 mm Connection to underground garage via glued-in iron Connection reinforcement Wall stifting on column axis
- Joints insulated, finish /
 Weather resistance due to
 Permanently elastic joint (PU joint)
- 7 Reinforced concrete column 350 mm x 500 mm Stock

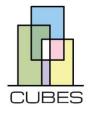


FACADE DESIGN

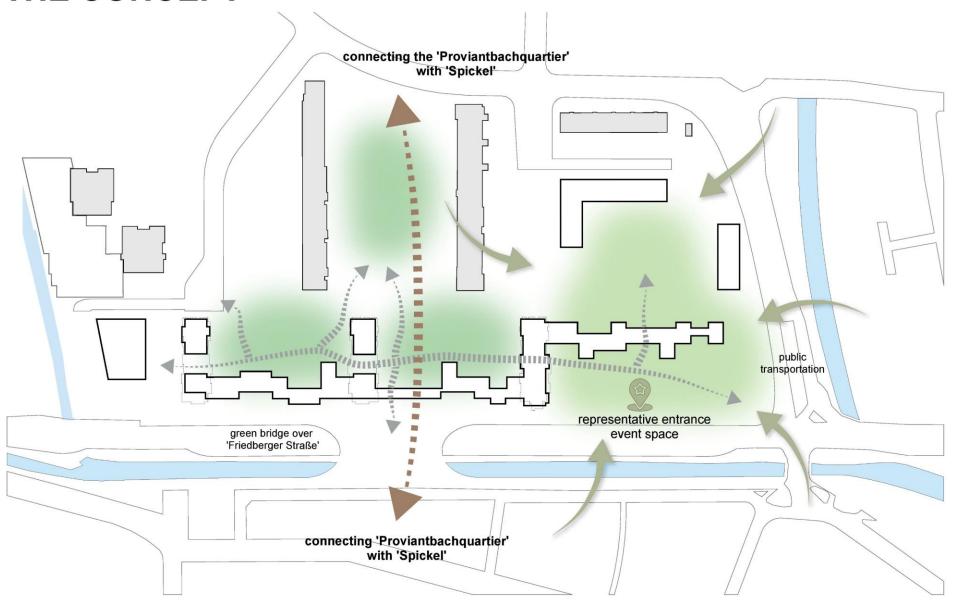
- Differentiation between private, semi-public and public through front metal mesh cladding and roof overhangs
- Entrance areas with porches made of exposed concrete elements
- Connection of the construction to the existing support grid and ceiling











S.W.O.T. REPORT

Strengths

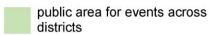
- Mixing of cultures & generations
- Optical landmark of Augsburg
- Short distances
- Connection to public transport
- Location Central between several districts

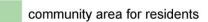
Weaknesses

- Deterrent external effect
- Vacancy rate
- Unattractive entrances
- Unattractive open spaces
- Obsolescence

Opportunities

- Link between Friedberg and Augsburg
- Creating attractive open and recreational spaces
- Design entrances intuitively

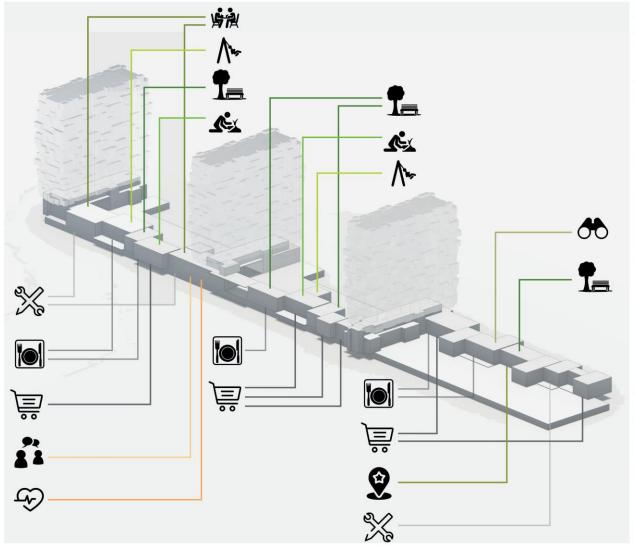
















MIX OF USE

Roof gardens

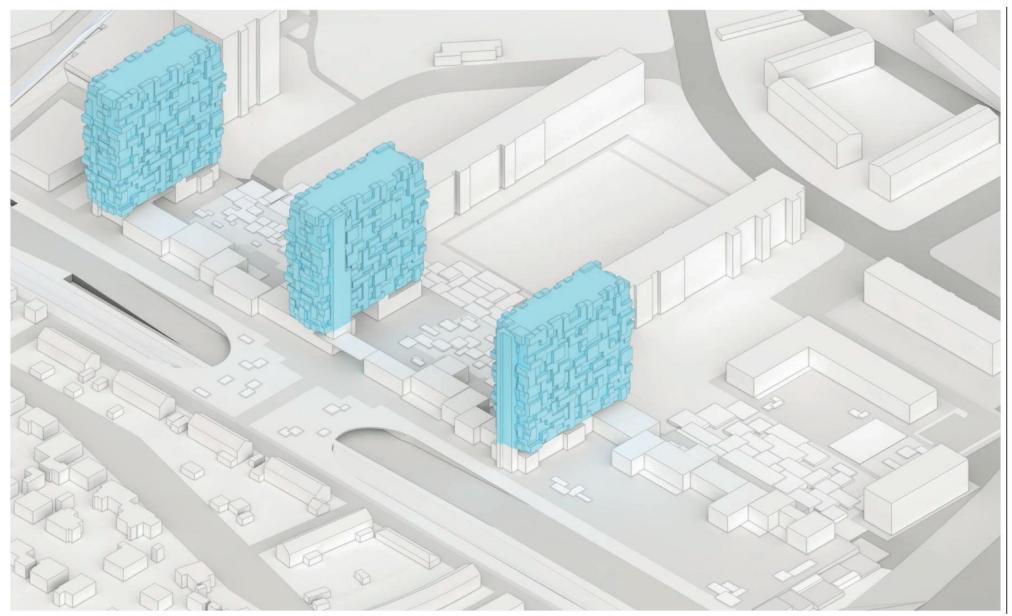
The roof gardens above the promenade do, depending on their position, serve as outdoor dining area, play area, recreational space or herb garden. The area above the event space is open to the public and can thus be used as viewpoint.

Promenade

The mall was transformed into a promenade for residents of the Schwabencenter and the surrounding neighborhoods as well as visitors. The different sections of the promenade are adapted to the utility of the respective towers and include the following functions:

- gastronomy
- services
- retail
- health
- social "living room" by AWO
- event space





CUBES IN ALL SCALES

Tower Cubes

The cube structure of the towers allows flexible floor plans depending on the internal use and creates a lively facade.

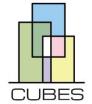
Promenade Cubes

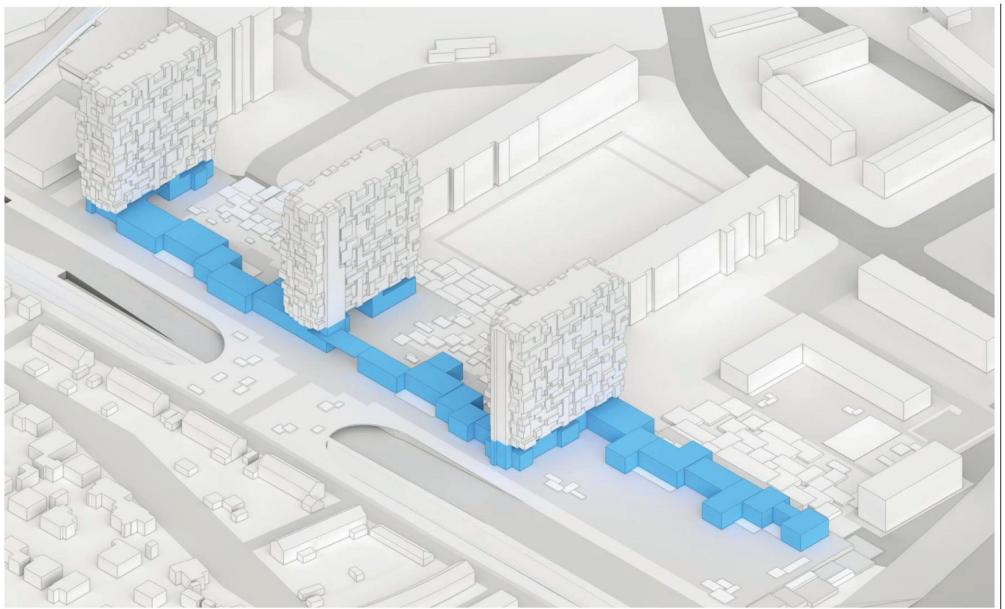
The large cubes demarcate different uses of the promenade from each other and serve as the foundation of the smaller-scale tower structure.

Landscape Cubes

The landscape cubes transfer the cube theme into the outdoor environment and serve as an extension of the Schwabencenter into the surrounding area.







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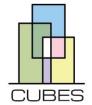
Promenade Cubes

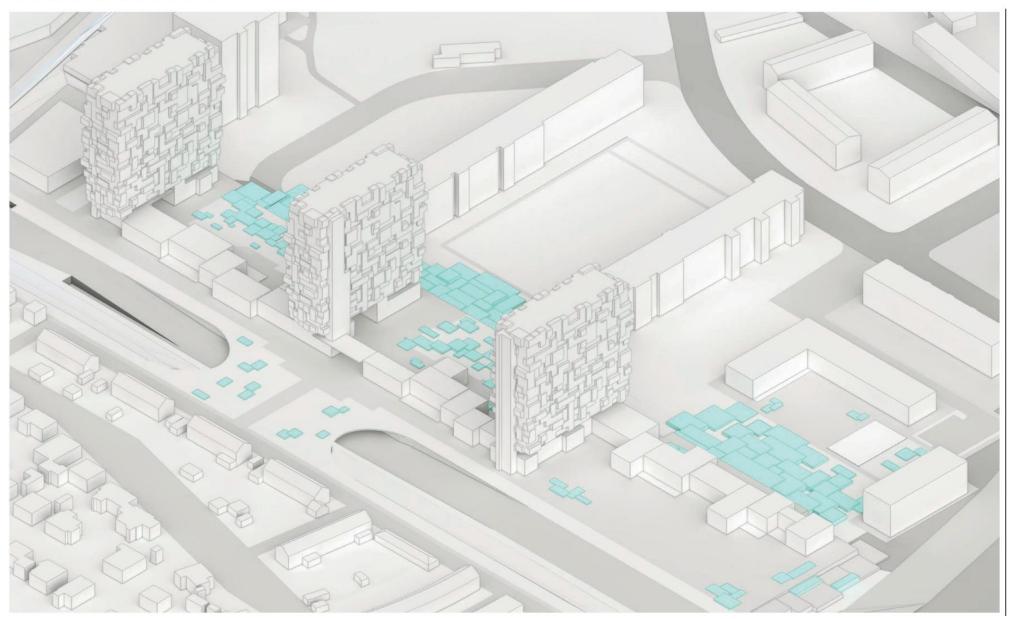
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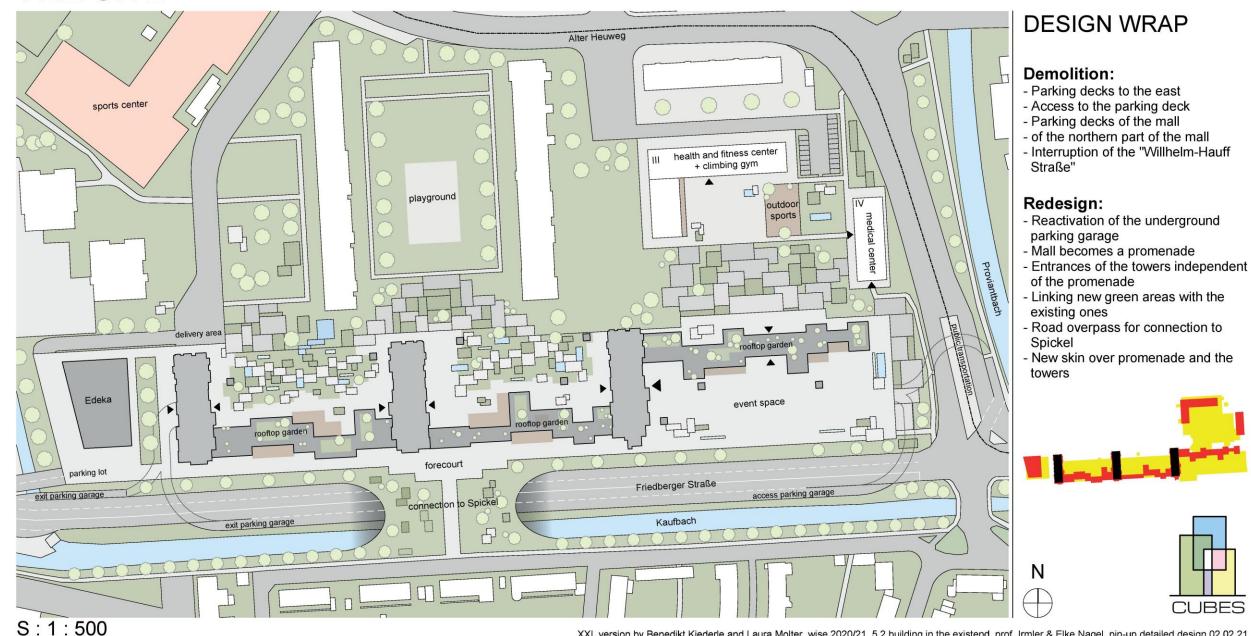
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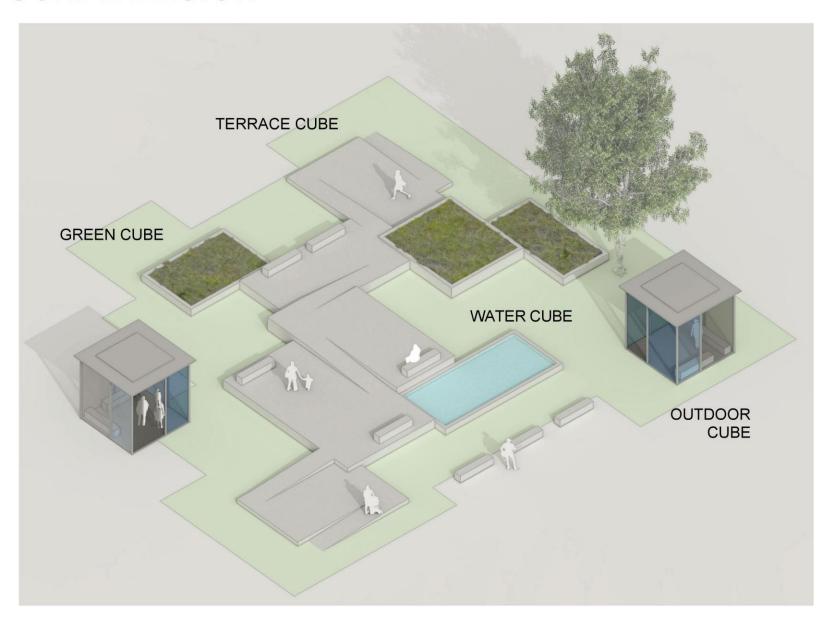




THE SITE



LANDSCAPE DESIGN



TERRACES

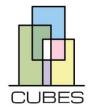
The landscape cubes, in their versions as Terrace Cube, Green Cube and Water Cube create a new landscape surface while leading the way throughout the Schwabencenter area. They also run in the surrounding area in the form of satellites to spread the cubes theme throughout the whole neighborhood.

They can be accessed barrier-free through the use of ramps.

The terraced landscape creates a lively topography, overcoming the existing height differences of the terrain.

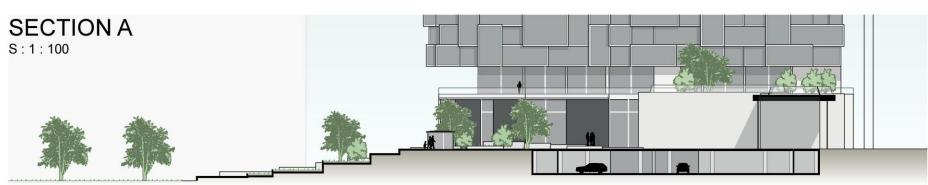
New outdoor areas for recreation and play are created, offering new views over the complex and the neighborhood.

The pavilon-like Outdoor Cubes create protected environments in the outdoor area of the Schwabencenter thus providing a place for visitors and residents to come together and communicate.



LANDSCAPE DESIGN





TERRACES



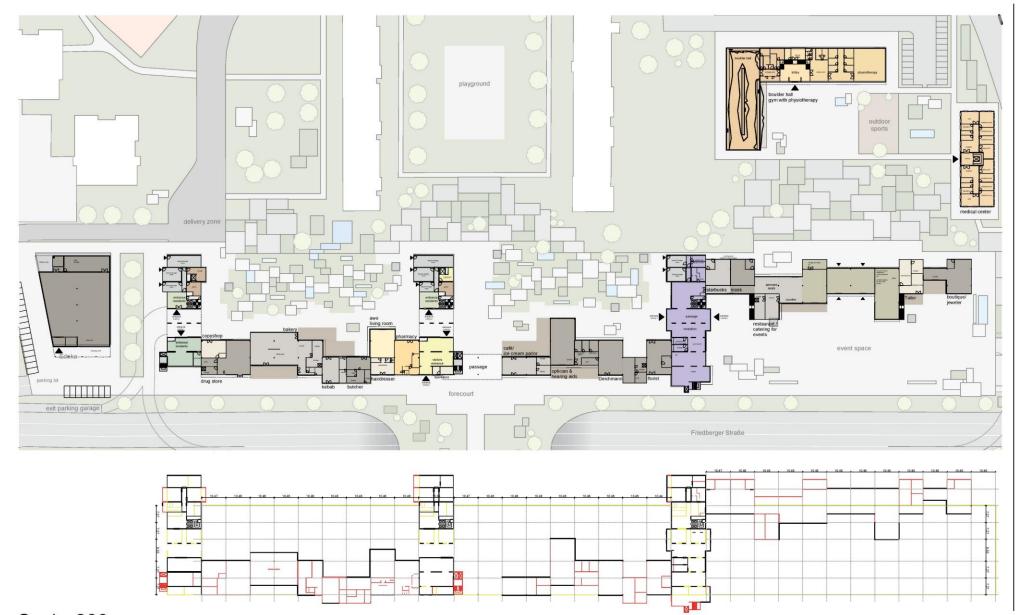
The landscape cubes, in their versions as Terrace Cube, Green Cube and Water Cube create a new landscape surface while leading the way throughout the Schwabencenter area. They also run in the surrounding area in the form of satellites to spread the cubes theme throughout the whole neighborhood.

They can be accessed barrier-free through the use of ramps.

The terraced landscape creates a lively topography, overcoming the existing height differences of the terrain.

New outdoor areas for recreation and play are created, offering new views over the complex and the neighborhood.

The pavilon-like Outdoor Cubes create protected environments in the outdoor area of the Schwabencenter thus providing a place for visitors and residents to come together and communicate.



level 1.00 - 3.00

The building complex consists of a mixed-use promenade and the entrances to the three towers.

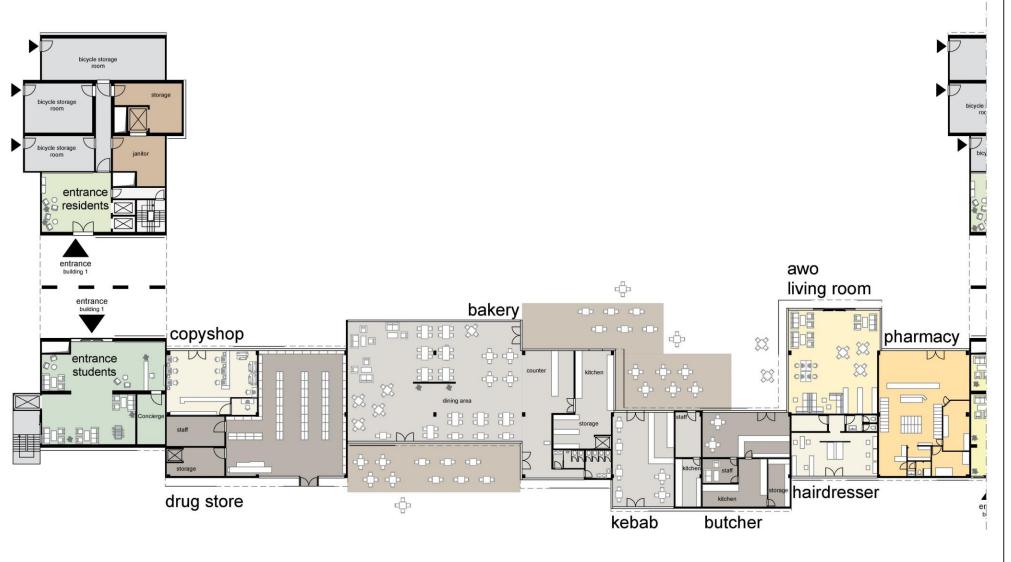
The conversion of the mall into a promenade was based on the existing column grid.

In the north-east of the site a sportsand health center can be found, which is connected to the public part of the Schwabencenter via the landscape terraces.

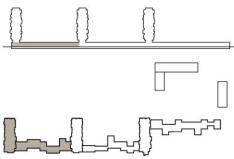
The Edeka that was formerly located in the malls east wing is rebuilt in the west of the Schwabencenter.

N







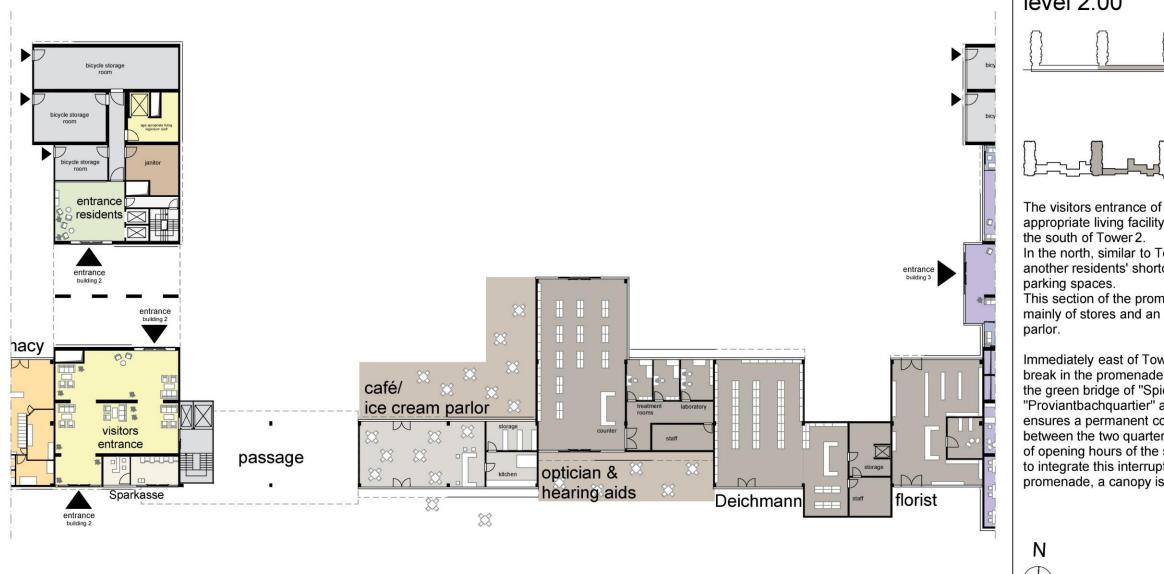


The ground floor of Tower 1 has a lobby-style entrance area for the residing students as well as a more private residents' shortcut. Furthermore bycicle parking spaces and the janitors office can be found in the north half of the building.

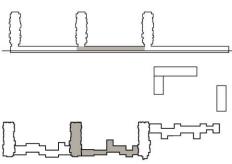
The promenade contains various uses adapted to the residents of each tower, such as a copyshop for students or the "living room" for elderly residents of Tower 2. There are also other retail and food service outlets as well as a pharmacy.







level 2.00

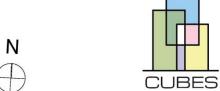


The visitors entrance of the ageappropriate living facility is located in

In the north, similar to Tower 1, there is another residents' shortcut and bicycle

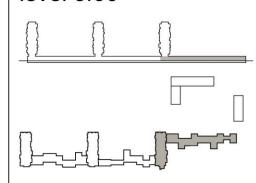
This section of the promenade consists mainly of stores and an ice cream

Immediately east of Tower 2, there is a break in the promenade that connects the green bridge of "Spickel" with the "Proviantbachquartier" and thus ensures a permanent connective axis between the two quarters, regardless of opening hours of the stores. In order to integrate this interruption into the promenade, a canopy is formed.





level 3.00



The ground floor of Tower 3 contains the entrance area for the serviced apartments and the co-working spaces and features the reception with post office and a spacious lobby with bar. This space is directly connected to parts of the promenade.

In its right wing the promenade contains a variably funishable indoor event area next to a catering business that can be utilised for events. Furthermore other stores, gastronomy businesses and service providers can be found here.



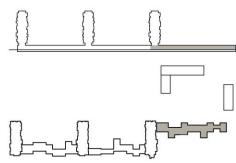


ENTRANCE TOWER 3

THE EVENTSPACE

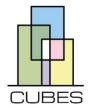


level 3.00



The plaza to east of the builidng complex serves as a gathering place for residents of the Schwabencenter and the surrounding neighborhoods and can function as a space vor various types of events throughout the whole year:

In the summer it can be used for festivals, markets, open air music events or neighboorhood partys while providing a space for the erection of an ice rink or a christmas market during winter.



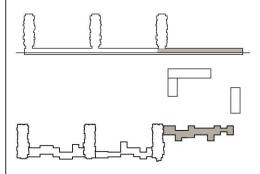
THE EVENTSPACE



EVENING EVENT

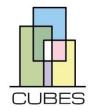


PASSAGE WHILE NO EVENT IS TAKING PLACE level 3.00

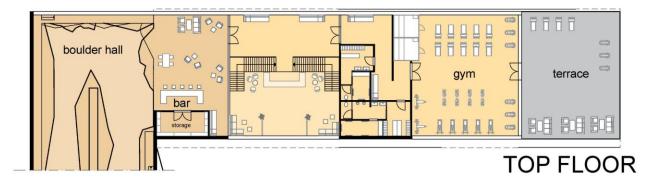


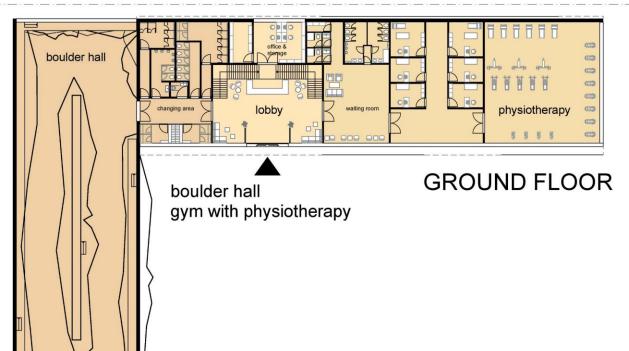
The indoor event area can be variably furnished for various events such as company or graduation celebrations or small concerts.

When the area is not in use, it functions as a passage between the outdoor event space and the area to its north.

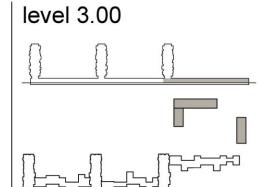


THE HEALTHCENTER









A new healthcenter is created in the northeast of the Schwabencenter. It consists of a four-story, barrier-free medical center and a bouldering hall with fitness studio.

On the ground floor of the bouldering hall, there is a central registration desk from where the bouldering hall to the left or the barrier-free physiotherapy area to the right are accesable.

The upper floor is accesable directly through the bouldering hall or through the gallery in the entrance area. There is a small sports bar, as well as the gym with sauna and outdoor area.

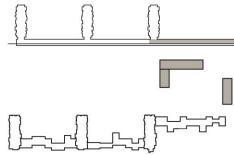


N (1)

THE HEALTHCENTER



level 3.00



The arrangement of the healthcenter's buildings creates an inner courtyard that invites people to linger.

The courtyard offers various outdoor sports facilities. Calisthenics sports equipment will be installed to the east of the entrance to the bouldering hall. A small outdoor bouldering wall is also planned on the outer wall of the bouldering hall.

The free area in front of the bouldering hall can also be used for small community events.

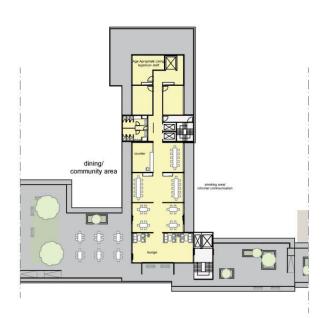
From here, the barrier-free terrace landscape connects the healthcenter with the eventspace of the Schwabencenter, which also serves as a passageway.

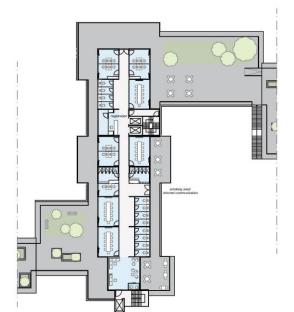
THE FIRST FLOOR



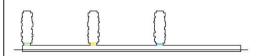
S:1:200







level 1.01 - 3.01



By setting back the facades on the 1st floor, levels 1.01 - 1.03 become a mediating floor between the promenade and the towers. By moving them inwards, the perforated sheets for sun protection can be deliberately dispensed with, so that the intermediary floors also visually separate the towers from the promenade.

A canteen for students, is located on Level 1.01 Delivery is via the underground car park on level -1.01.

On level 1.02 there is a communal dining area for senior citizens. This is supplied via the central canteen kitchen on level -1.02.

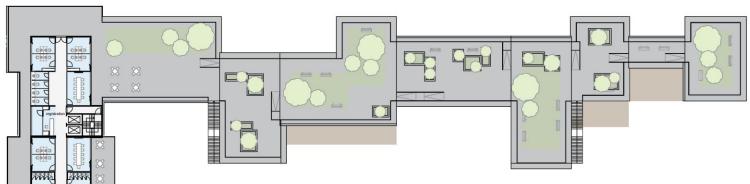
On level 3.01 there are further workplaces that can be rented on a flexible basis.



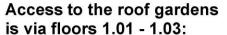


THE ROOF GARDEN





e.g. level 3.01

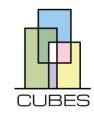


The roof gardens connect the towers and serve as a recreational area for the residents.

In particular, the two roof gardens between the three towers will be designed for residents and equipped with playgrounds, raised beds and seating.

The third roof garden is attributed to the representative part of the Schwabencenter and the event area. It is accessible in addition to the access on Level 3.1 via two exterior staircases flanking the event building. Additionally, it serves as a vantage point over the surrounding city, as well as when events are taking place.





THE UNDERGROUND PARKING GARAGE



level -1.01 - -3.01

By reactivating the old underground parking garage, parking spaces (386) will be created for visitors and residents.

In the north of the 1st tower, a new delivery zone is planned, which will supply the large units of the promenade and the event catering via supply corridors.

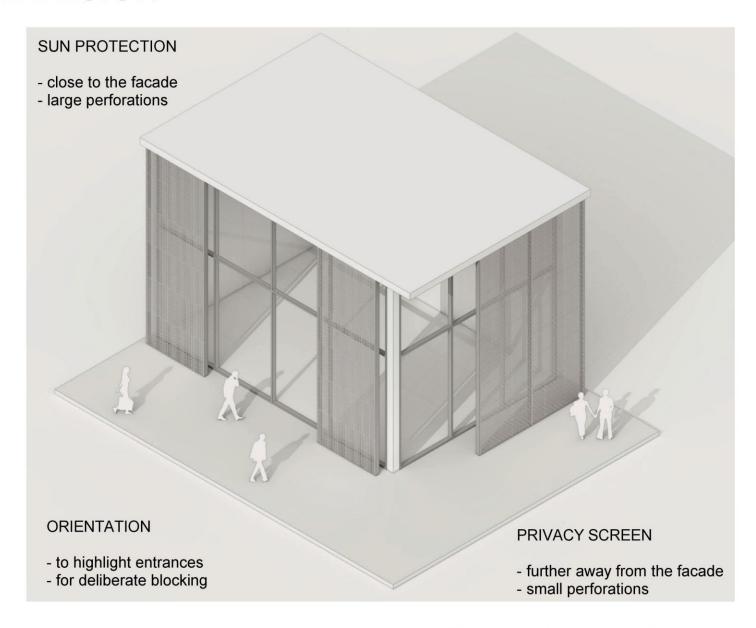
Under the left tower on level -1.01 are basement compartments for residents and building services.

Under the middle tower on level -2.01 is a commercial kitchen for the canteen of the age-appropriate living on level 2.01 and basement compartments for residents.

Under the right tower on level -3.01 there is a laundry store for the age-appropriate living and the serviced apartments as well as building services.







METAL SHEETS

Combination of functions in facade design: Perforated panels are placed in front of

the facade at different intervals, and perform different functions. In order not to interrupt the exterior cubature, precast canopies are installed along the entire length of the facade.

No perforated sheeting:

- deliberate abandonment of perforated sheets to highlight entrances
- deliberate creation/blocking of visual axes

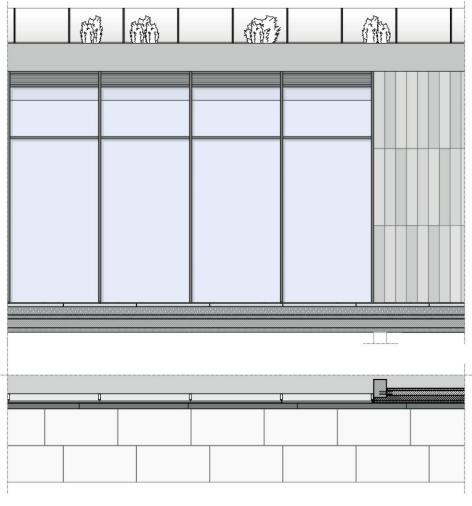
Sun protection:

- perforated sheeting with larger holes (8 cm hole diameter)
- 0.3 m in front of the facade
- achieve a shading and at the same time opaque facade.

Privacy screen:

- perforated sheeting with smaller holes (4 cm hole diameter)
- 1.0 m in front of the facade (prevent people from passing too close)
- achieve a view-impermeable facade from the outside while beeing opaque from the inside









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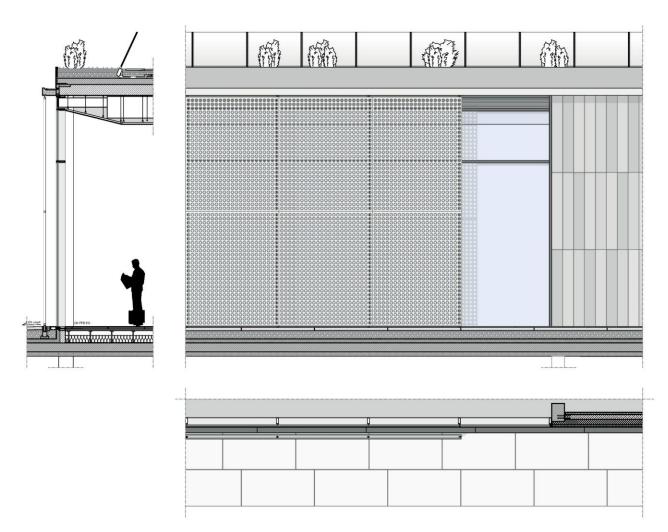
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CUBES







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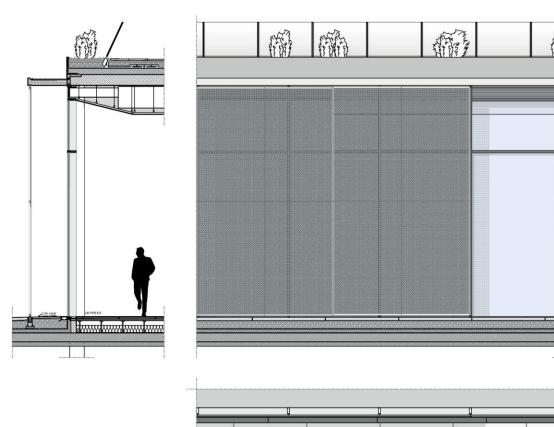
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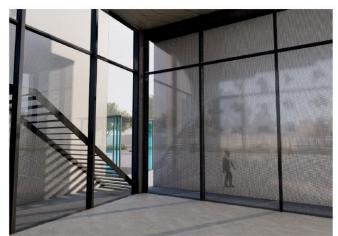
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CUBES

S:1:20







GUIDANCE SYSTEM

Printing on the perforated metal sheets:

To make it as easy as possible for residents and visitors to find their way around the Schwabencenter site, perforated sheets are printed from the outside. The print is divided into two parts: a guidance system and an information system.

Information system:

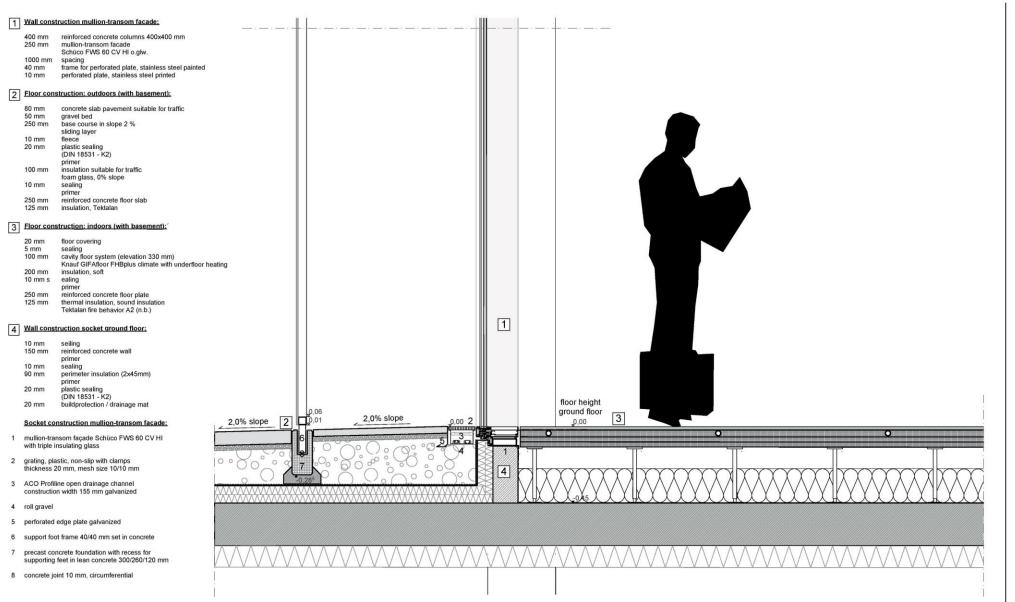
Large high-format lettering is placed at important locations, such as the event area, the tower entrances or various store entrances, which can be read by visitors from a distance and thus help them to orient themselves.

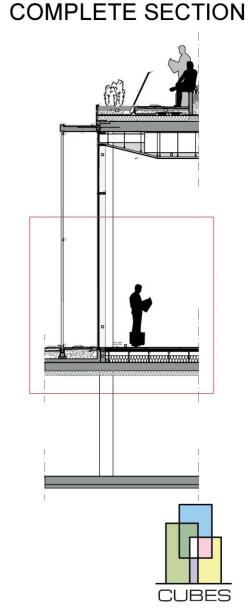
Guidance system:

Smaller signposts are placed underneath these high-format lettering so that path connections become clear. These are hirarchically subordinated as they are only of importance for newly arrived residents and visitors in the immediate vicinity.



DETAIL: SOCKET





DETAIL: ROOF

1a Roof structure: roof garden:

100 mm substrate 150 mm base course in slope: 2 %

filter fleece

30 mm water storage plate 10 mm fibre protection mat

sliding layer

20 mm plastic sealing

(DIN 18531 - K2)

200 mm insulation pressure resistant

XPS, 0% slope

10 mm sealing

reinforced concrete ceiling

1b Roof structure: roof terrace:

40 mm concrete slab decking

30 mm

150 mm base course in slope 2 %

filter fleece 30 mm

water storage plate 10 mm fiber protection mat

Sliding layer

20 mm plastic sealing (DIN 18531 - K2)

200 mm insulation pressure resistant Foamglas, 0% slope

10 mm

primer

250 mm reinforced concrete ceiling

2 Construction suspended ceiling:

system: Fa. Knauf

800 mm suspension

Knauf Suspension System

suspension construction metal rail 12,5 mm plasterboard acoustic panel

3 Wall construction mullion-transom facade:

reinforced concrete columns 400x400 mm

250 mm mullion-transom facade Schüco FWS 60 CV HI o.glw.

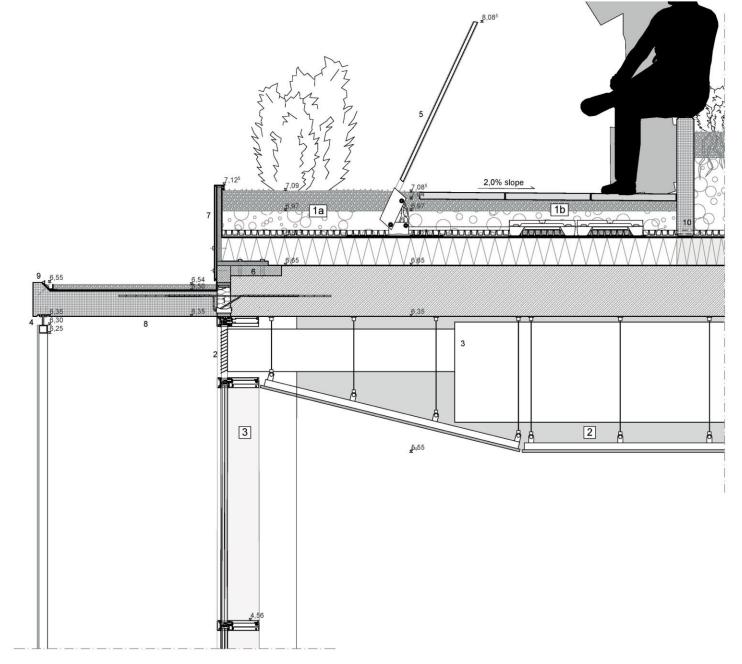
1000 mm spacing

frame for perforated plate, stainless steel painted 40 mm

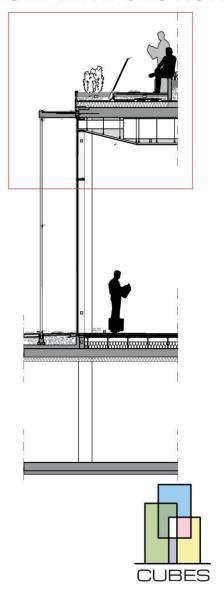
10 mm perforated plate, stainless steel printed

Construction elements roof:

- 1 Schöck Isokorb T Typ K
- 2 panel as air inlet with insect screen thickness 40 mm, mesh size 20/20 mm
- 3 ventilation unit in suspended ceiling
- 4 shaped part stainless steel, screwed, position fixation perforated plate
- 5 fall protection, BauderSECUTEC BARRIER G angle: 65°
- 6 insulation pressure-resistant, screwed via sleeve in reinforced concrete ceiling
- 7 cover plate, galvanized over steel angle 460 / 350 / 25 mm
- 8 concrete precast element 150 mm, K2 Plastic sealed, gravelled
- 9 fixing profile screwed into concrete precast element for roof sealing
- 10 reinforced concrete precast as a planting bed, 100 mm thick drainage openings in the lower part

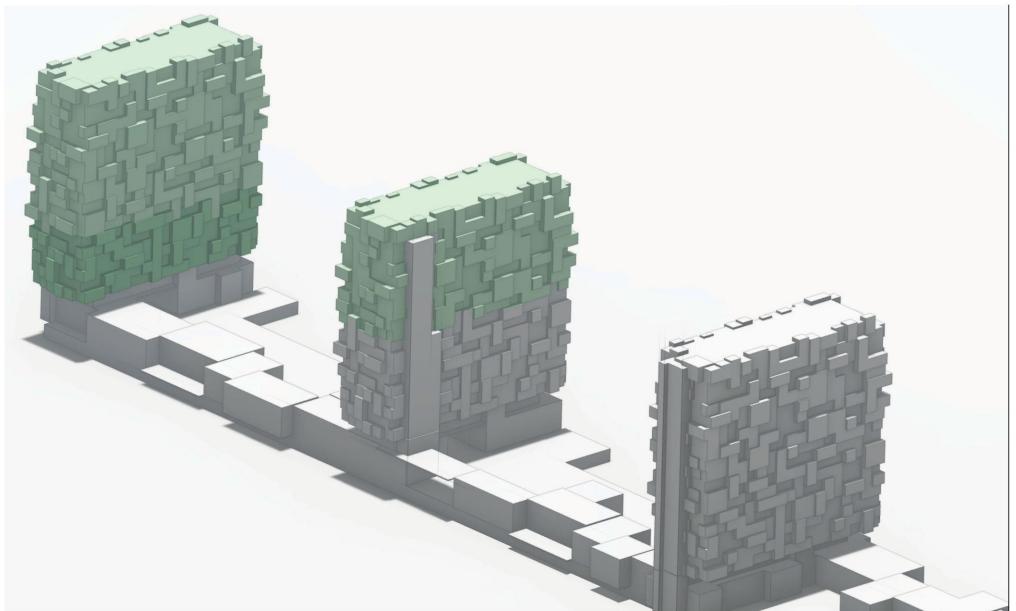


COMPLETE SECTION





LOCATION ON SITE



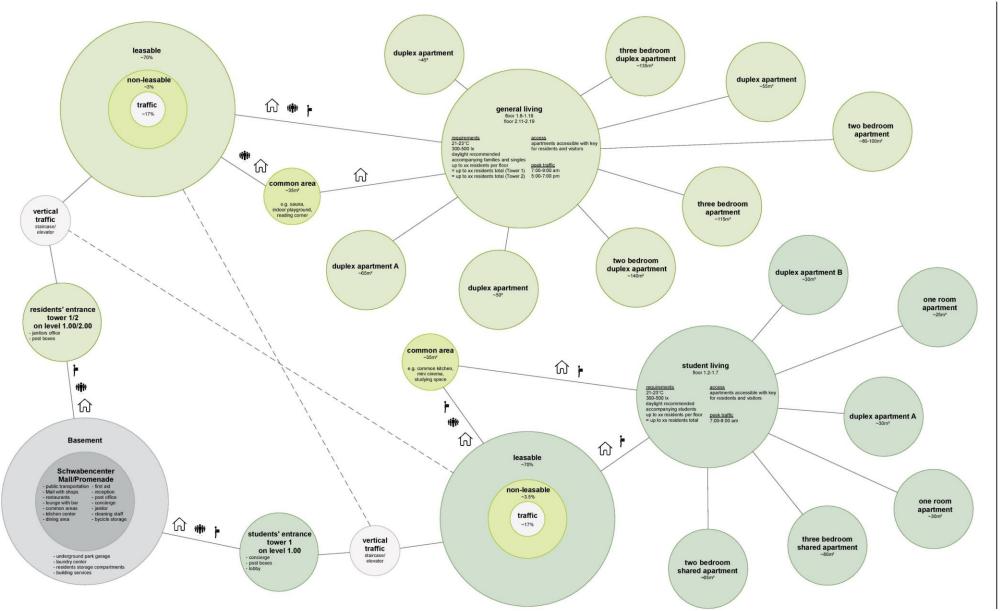
level 1.2 - 1.19 level 2.11 - 2.19



Within the middle tower apartments for singles as well as households for up to 6 people can be found on levels 2.11-2.19 right above the age approved living spaces. The left tower contains the same general living typologies on levels 1.8-1.19 plus apartments that are fit for students on levels 1.2-1.7.



FLOW OF GOODS - PERSONNEL FLOW

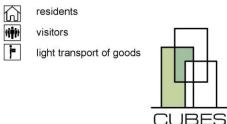


level 1.2 - 1.19 level 2.11 - 2.19



Since Tower 1 houses both general and student living, two separate entrances serve the respective groups of residents. From there, the adjoining access cores primarily serve to provide access to the associated area in the tower, but it is also possible to switch between the elevators if necessary.

The common spaces of the respective areas are located in the immediate vicinity of the access cores, so that they become places where residents can meet with each other and with visitors.



THE ENTRANCE





level 1.00



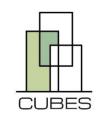
XXL version

The ground level of the left tower contains two seperate entrances: the southern one functions as main entrance for the students living in the tower and consists of a lounge and the concierge service while the one in the north is a small private entrance for the remaining residents. It is directly linked to bicyle storage rooms and the janitors office.

L version

The student entrance is located in the south while the private residents' entrance is located in the northern part of the left tower ground floor which also contains several storage rooms.

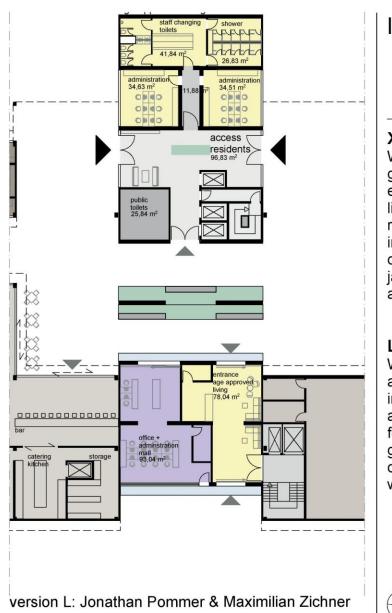




S:1:100

THE ENTRANCE





level 2.00



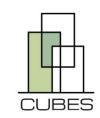
XXL version

While the southern part of the ground floor contains the visitors entrance for the age approved living apartments the private residents' entrance can be found in the northern part which also contains bicyle storage rooms, the janitors office and space for staff and logistics.

L version

While the entrance for the age approved living spaces is located in the southern part, staff and administration spaces can be found in the northern part of the ground floor. The latter also contains the residents' entrance as well as public toilets.

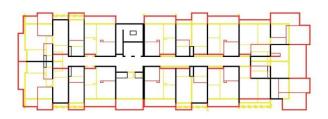




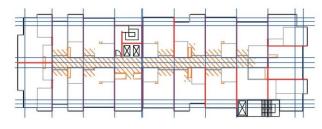
S:1:100

THE STRUCTURE

general living level 1.8-1.19 level 2.11-2.19

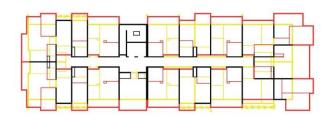


demolition/ new structure

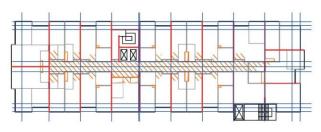


support structure/installation

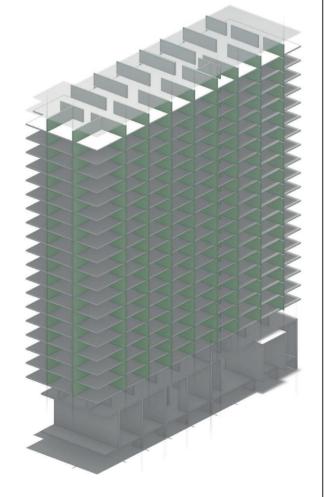
student living level 1.2-1.7



demolition/ new structure



support structure/installation



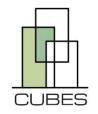
level 1.2 - 1.19 level 2.11 - 2.19



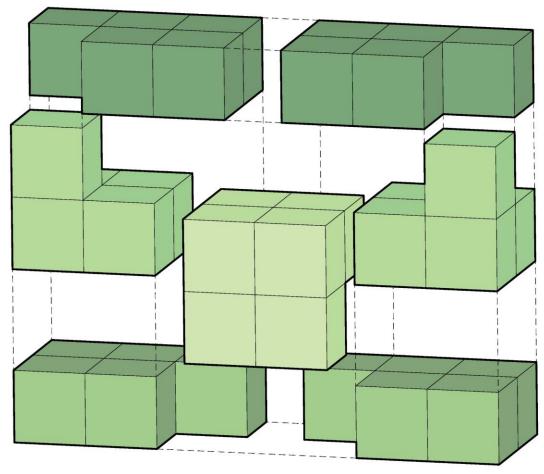
The existing ceiling panes are partially breached to enable the establishment of galery levels. Breakthroughs through loadbearing bulkheads are kept to a minimum.

The bulkheads on the southern front of the building and the existing staircase core will be used to stiffen the supporting structure.

An additional core will be attached to the existing building in the south-west.



THE CONCEPT

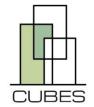


general living

level 1.8-1.19 level 2.11-2.19 level 1.2 - 1.19 level 2.11 - 2.19



Referencing the CUBES concept, the apartments are shaped as a structure consisting of multiple cubes which are assembled horizontally as well as vertically. The different apartments will compliment each other in a "Tetris" sort of manner to form one large cube.



THE SECTION

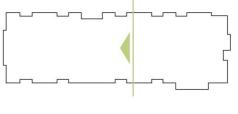


level 1.6 - 1.10



While the two lower floors show a duplex student apartment, the ones above depict the horizontal and vertical interaction between spaces thus forming different residential units.

In the corridor and entrance spaces the ceiling is slightly suspended to make room for ventilation pipes.





S:1:100

THE FLOORPLAN: student living



level 1.2-1.7

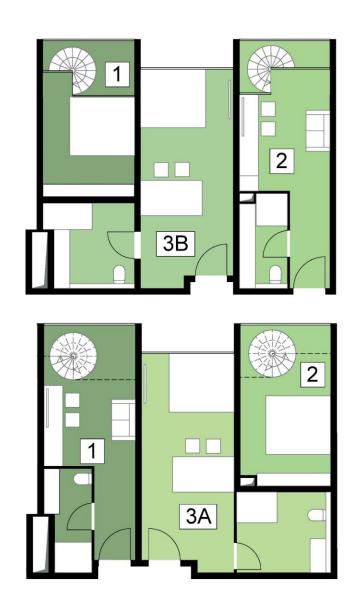


- 1 duplex apartment A: 30m²
- 2 duplex apartment B: 30m²
- 3 one room apartment: 25m²
- 4 one room apartment: 30m²
- 5 three bedroom shared apartment: 80m²
- 6 two bedroom shared apartment: 65m²
- 7 common space: 35m² (e.g. common kitchen, mini cinema, studying space, etc)



z

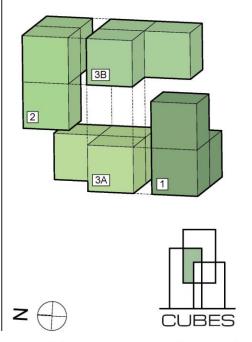
THE FLOORPLAN: student living



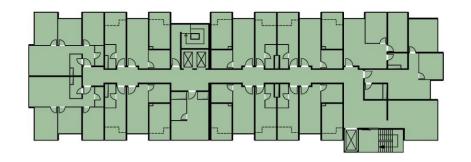
level 1.3/5/7

level 1.2/4/6

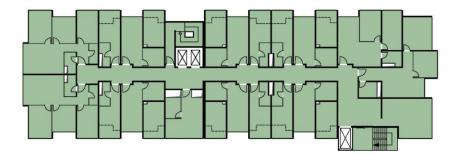
- 1 duplex apartment A: 30m²
- 2 duplex apartment B: 30m²
- 3A one room apartment: 25m²
- 3B one room apartment: 25m²



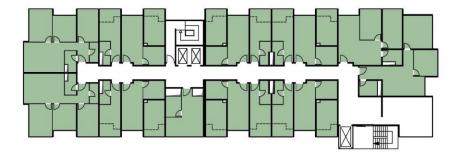
THE AREA DISTRIBUTION: student living



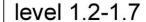
gross floor area

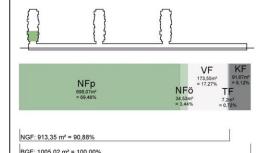


usable floor area



leasable floor area





floor area distribution

efficiency

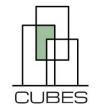
leasable area / usable area

= 698,07 m² / 888,72 m²

= 0.78

requirements

bath living 22°C - 24°C 21°C - 23°C 200 - 500 lx 300 - 500 lx 7 m³/h*m² 4 m³/h*m²







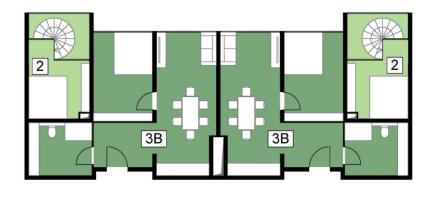
level 1.8-1.19 level 2.11-2.19



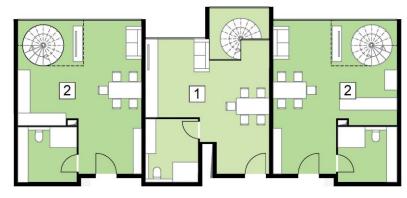
- 1 duplex apartment A: 65m²
- 2 duplex apartment: 55m²
- 4 two bedroom apartment: 80-100m²
- 5 two bedroom duplex apartment: 140m²
- 6 three bedroom duplex apartment: 135m²
- 8 common space: 35m² (e.g. indoor playground, reading corner etc)



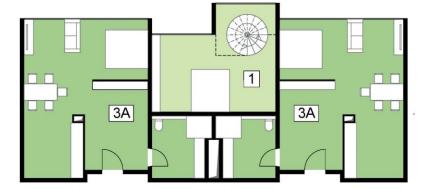




level 1.10/13/16/19 level 2.13/16/19



level 1.9/12/15/18 level 2.12/15/18



level 1.8/11/14/17 level 2.11/14/17 level 1.8-1.19 level 2.11-2.19

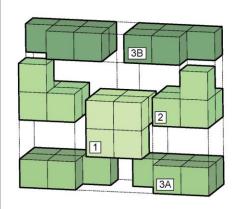


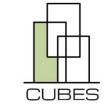
1 duplex apartment: 65m²

2 duplex apartment: 55m²

3A single apartment: 50m²

3B single apartment: 45m²

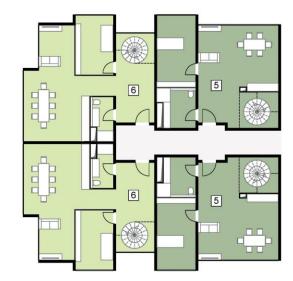








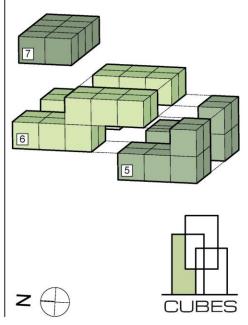
level 1.9/11/13/15/17/19 level 2.12/14/16/18

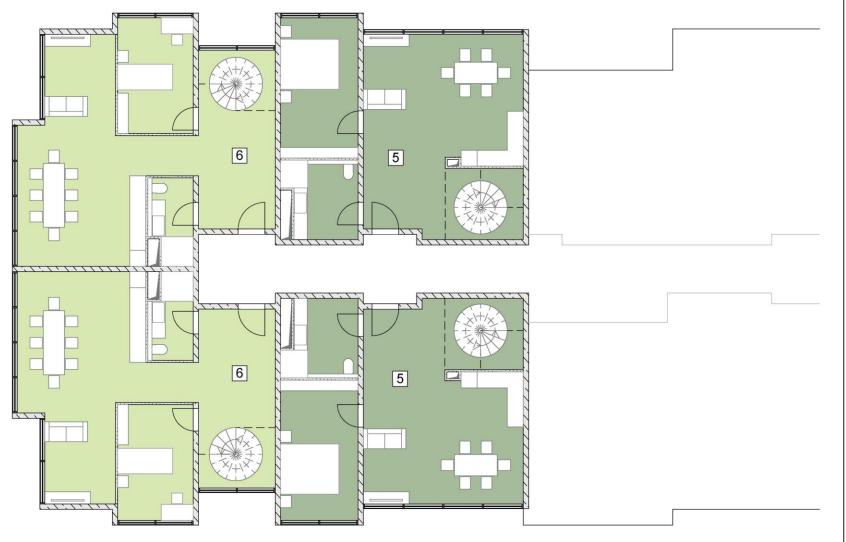


level 1.8/10/12/14/16/18 level 2.11/13/15/17 level 1.8-1.19 level 2.11-2.19



- 5 two bedroom duplex apartment: 140m²
- 6 three bedroom duplex apartment: 135m²
- 7 three bedroom apartment: 115m²





level 1.8/10/12/14/16/18 level 2.11/13/15/17



The lower floors of apartments 5 and 6 each have a kitchen with open living, cooking and dining area, as well as a bedroom and a bathroom with shower.

While the upper floor of apartment 5 consists only of one additional bedroom accessible via the spiral staircase, apartment 6 has two additional bedrooms, a second bathroom with bathtub and a storage room here.

Apartment 7 is a one storey flat and does like apartment 6 have three bedrooms, an open living area, two bathrooms and a storage.



THE FLOORPLAN: general living



level 1.9/11/13/15/17/19 level 2.12/14/16/18



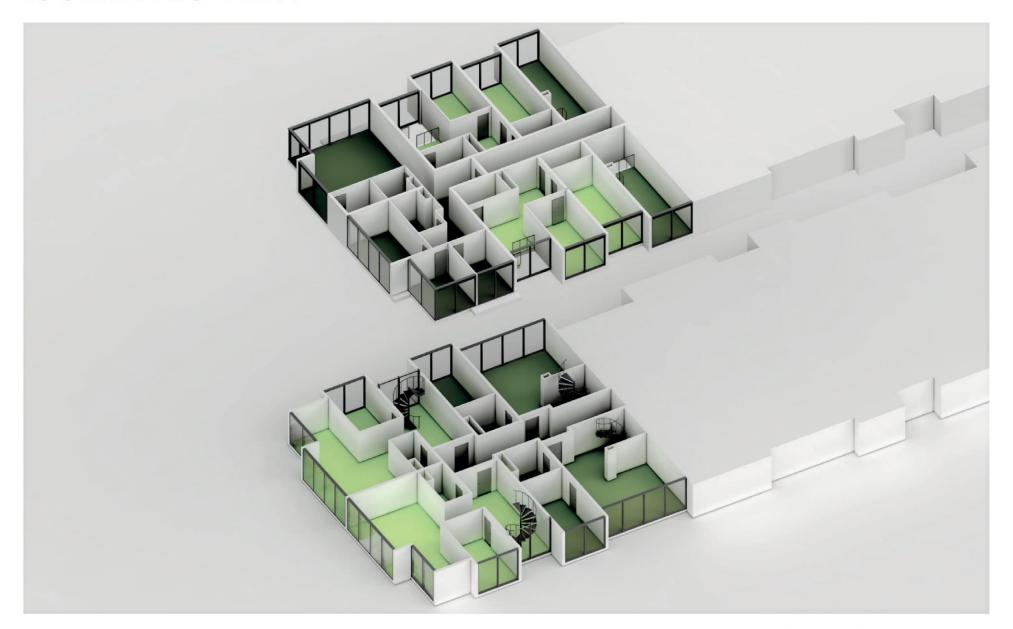
The lower floors of apartments 5 and 6 each have a kitchen with open living, cooking and dining area, as well as a bedroom and a bathroom with shower.

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Apartment 7 is a one storey flat and does like apartment 6 have three bedrooms, an open living area, two bathrooms and a storage.



ISOMETRIC VIEW



level 1.8-1.19 level 2.11-2.19

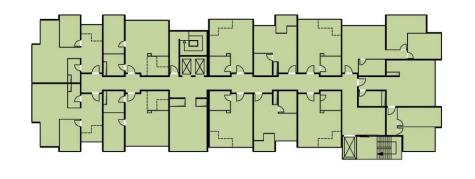


In the isometric drawing, the horizontal and vertical interrelationships of the partly multi-storey apartments both within themselves and with each other, are made clear in a three dimensional way.

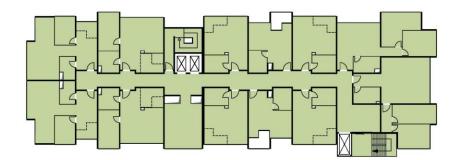
Furthermore the ratio between area and volume is made tangible while also illustrating the vertical jumps of the facades cubes structure.



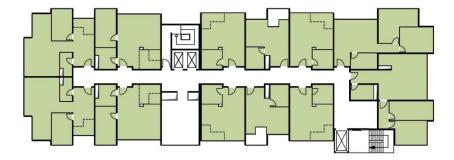
THE AREA DISTRIBUTION: general living



gross floor area

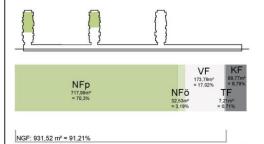


usable floor area



leasable floor area





floor area distribution

efficiency

BGF: 1021,29 m² = 100,00%

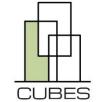
leasable area / usable area

 $= 717,99 \text{m}^2 / 906,88 \text{ m}^2$

= 0.79

requirements bath

living 22°C - 24°C 200 - 500 lx 7 m³/h*m² 21°C - 23°C 300 - 500 lx 4 m³/h*m²

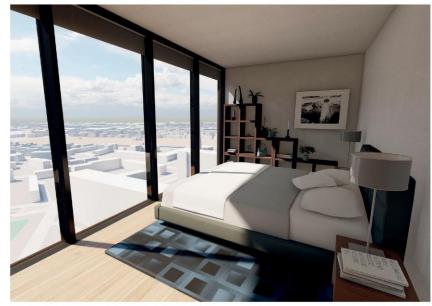




SPACIAL IMPRESSIONS









level 1.8-1.19 level 2.11-2.19



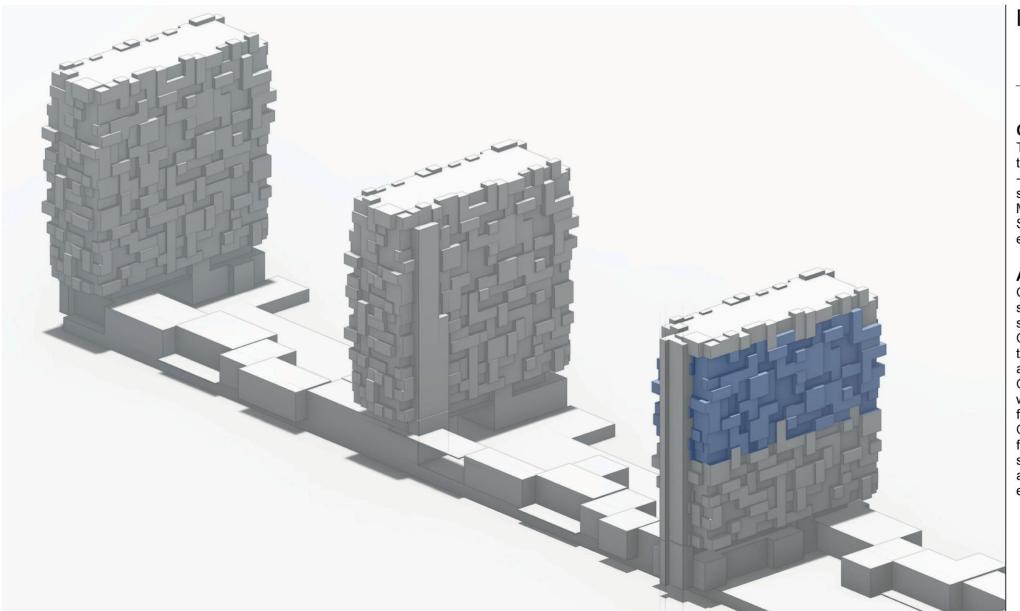
The use of galleries conveys a sense of height despite the comparatively low ceiling height.

In addition, open-plan design and floor-to-ceiling windows that provide a view over the city create a pleasant sense of spaciousness.





LOCATION ON SITE



level 3.10 - level 3.14



The co-working spaces are located in the upper part of tower 3 on levels 3.10 - 3.14. They are directly above the serviced apartments (designed by Maximilian Zichner).

Since there is no living in Tower 3, the entire tower is designed for business.

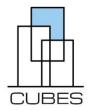
Adjacent areas:

On level -3.01 there are building services facilities as well as storage space for the cleaning staff.

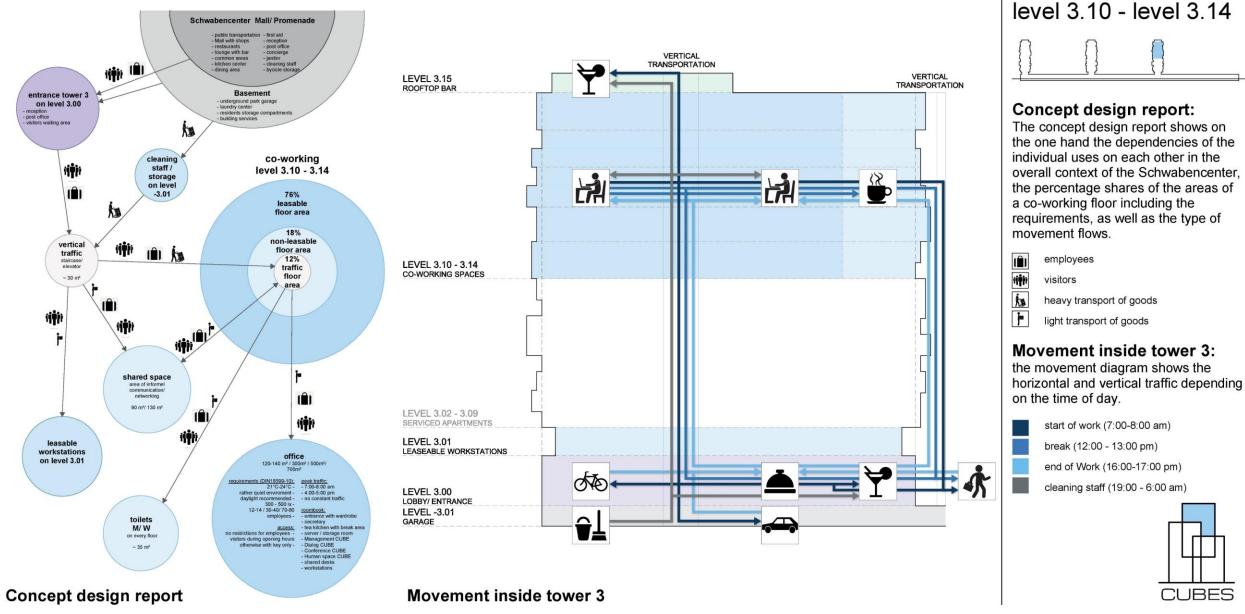
On level 3.00 there is the entrance and the reception/registration as well as the access to the vertical traffic.

On level 3.01 there are further workplaces that can be rented on a flexible basis.

On level 3.15 there is the Rooftop Bar for the workers of the co-working spaces and the visitors of the serviced apartments, which is accessible via an express elevator.

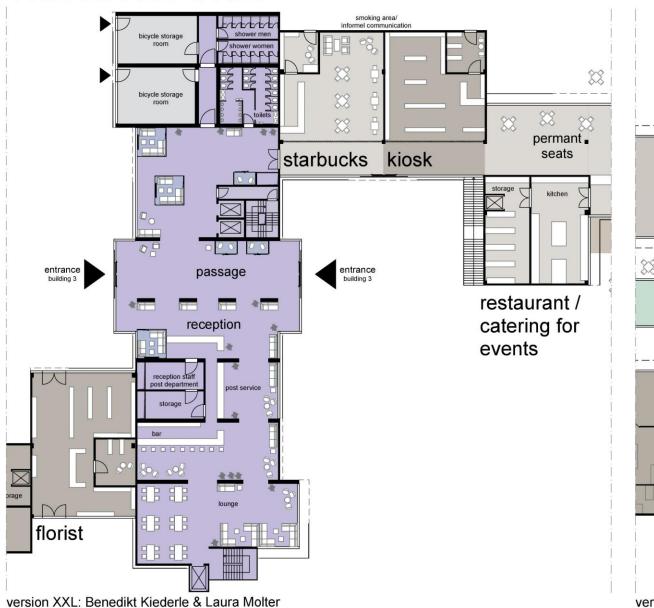


FLOW OF GOODS - PERSONNEL FLOW



CUBES

THE ENTRANCE





level 3.00



XXL version:

The ground floor of Tower 3 is part of the representative business section of the Schwabencenter and is therefore connected to the event area. The entrance also serves as a passage to the two inner courtyards and contains the reception with post department. The vertical traffic is accessible from here.

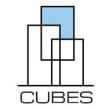
In the northern part there is a spacious waiting area which is directly connected to the bicycle parking, showers and toilets. In the south there is a bar.

L version:

The entrance to the towers and the mall is covered by a large roof. The stairwells and elevators in the north and south can be used by everyone.

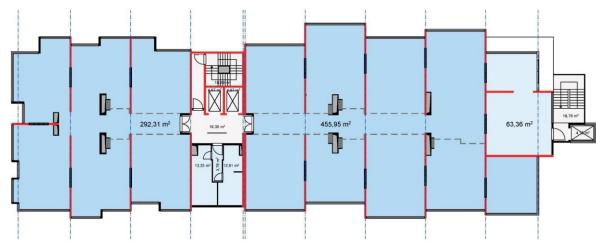
In the middle there is a large information area, waiting area and also public toilets.



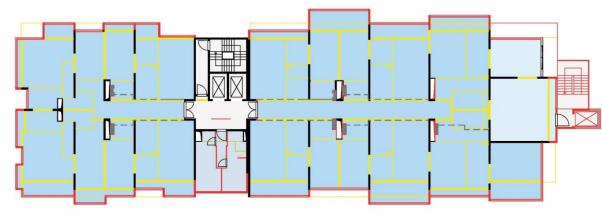


S:1:100

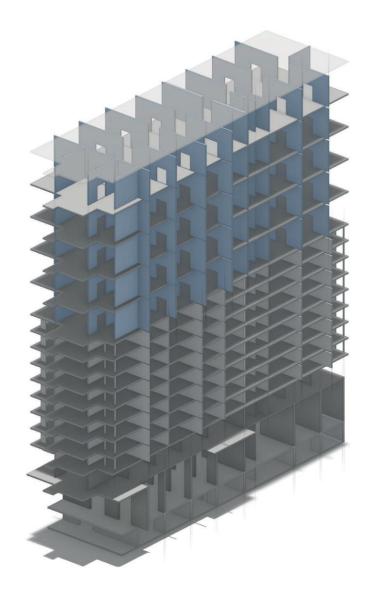
THE STRUCTURE



Support structure



Demolition/ new structure



level 3.10 - level 3.14



Changes to the existing structure:

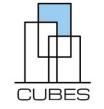
By removing every second ceiling on the co-working floors, rooms with a clear structural height 5,25m are created.

In order to further ensure the functioning statics, door openings through the load-bearing bulkheads are only 2.5m high.

Furthermore, beams will be installed inside the suspended ceiling to compensate for the removed ceiling panes.

The bulkheads on the southern front of the building and the existing staircase core will be used to stiffen the supporting structure.







THE CONCEPT - CUBES



Conference CUBE 3x3



Human Space CUBE 3x3



Management CUBE 3x3

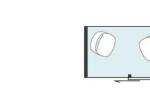


Dialog CUBE 1,3x2,3















level 3.10 - level 3.14

Concept room in room:

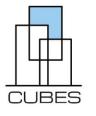
In order to take up the theme of the cubes inside the co-working spaces, a room-within-a-room concept is applied. Here, all rooms - except the server/ storage roome - are formed by cubes (up to 38 dB sound absorption) in the open-plan office.

For the construction of the cubes, no intervention in the existing structure is necessary, as the construction is selfsupporting and functions decoupled from the building.

each cube is equipped with an integrated ventilation unit, whereby the cube is ventilated and heated via the room air. the cube only requires power from the socket for this.

This allows the highest degree of flexibility in use, since cubes can be built, dismantled and rebuilt again and again as needed.

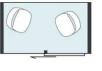
They are freely designable and modular, so that they can be expanded as needed.

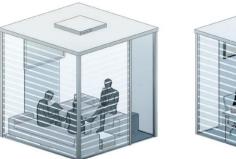






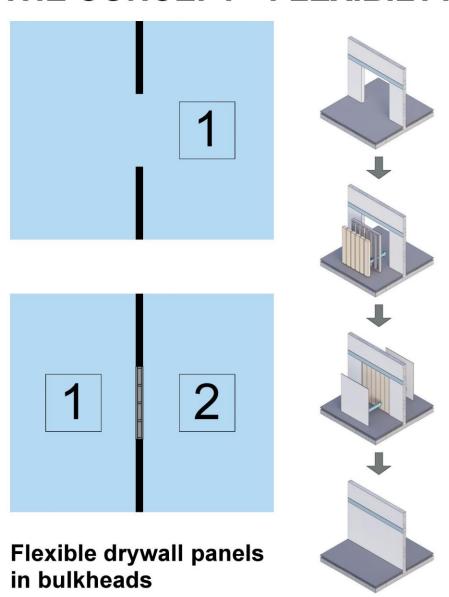


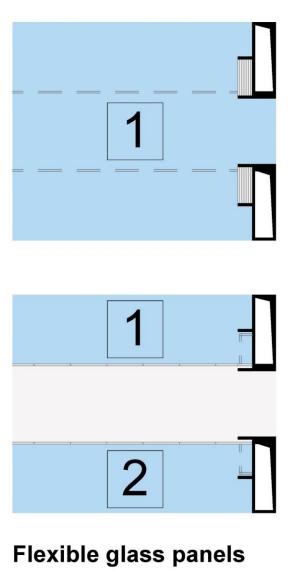


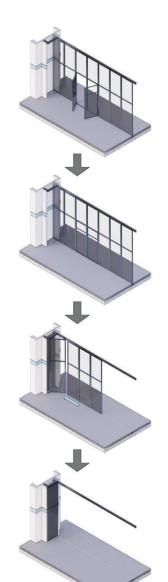




THE CONCEPT - FLEXIBILTY







level 3.10 - level 3.14

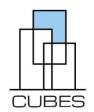


Drywall in bulkheads:

the previously planned recesses in the bulkheads allow the same tenant to operate an office unit over several bulkheads. If the unit is to be divided when the tenant changes, drywall can be inserted and filled with soundproofing within a short period of time.

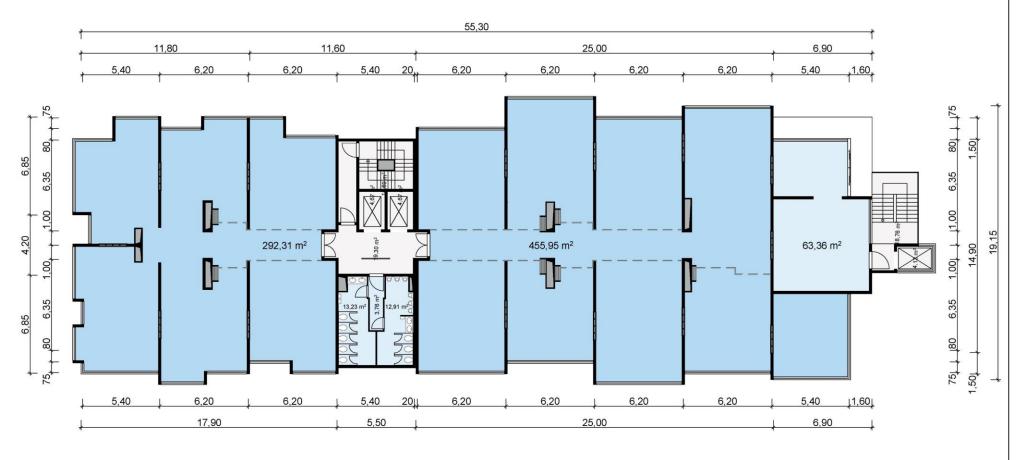
Flexible glass Panels:

All walls along the corridor were converted to glass panel on rails. These can be opened when two units are connected across the corridor. If the unit is now to be separated, these panels can be slid into the fixtures provided. The individual panels are soundproofed by rubber gaskets and doors are inserted into the panels at the necessary places.



S:1:100

THE BASE



level 3.10 - level 3.14



The base floorplan:

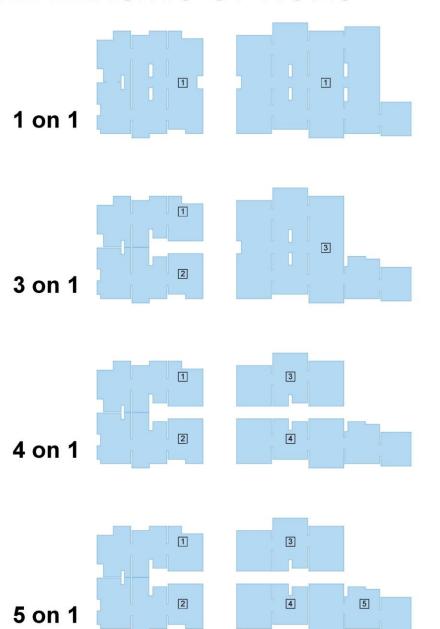
With the base floorplan, the support structure is generalized in such a way that the two concepts for flexibility, the drywall in the recesses of the bulkheads and the flexible glass panels, ensure the greatest possible flexibility for the tenants. The aim is to make tenant changes as convenient as possible and to create floor plans with the highest possible quality of stay.

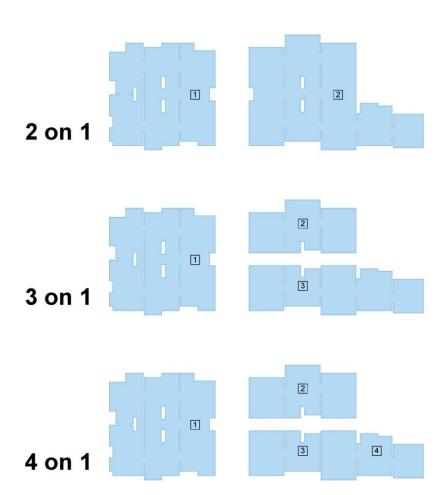
Depending on the type of use, the southern part is used as shared space or lobby. therefore, no glass panel separation is required at this point. The toilets are located centrally on all five floors opposite the existing stairwell.

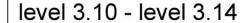




THE LEASING OPTIONS









Leasing Options:

based on the base floor plan using the two flexibility concepts, various leasing options are made possible by connecting or disconnecting units.

1 on 1:

one tenant rents the entire floor.

2 on 1:

two tenants/office units on one floor.

3 on 1:

three tenants/office units on one floor.

4 on 1:

four tenants/office units on one floor.

5 on 1:

five tenants/office units on one floor.





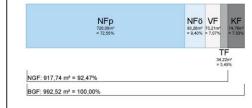
THE FLOORPLAN: 1 on 1



e.g. level 3.14



Floor area distribution:



Efficiency:

leasable area / usable area

- = 746,69 m² / 910,16 m²
- = 0.82

1 on 1 Floorplan:

The entire floor is combined into one office unit by opening up all the glass panels, providing 70-80 workstations. The shared space located at the southern staircase is reduced to a smaller lobby. At the middle staircase there is a small corridor so that the toilets are also accessible from the floor above and below. In the south the is a grant break area, the management office

the management office and the reception followed by the workstations.





THE FLOORPLAN: 3 on 1



e.g. level 3.13



Floor area distribution:



Efficiency:

leasable area / usable area

= 641,03 m² / 911,20 m²

= 0.70

3 on 1 Floorplan:

This 3 on 1 variation shows how the north half of the floor is combined into one leasing unit and connected to the other two offices across the hallway to the shared space to the south. As an example, three office units of different sizes are furnished here. Opposite the existing staircase are the restrooms.





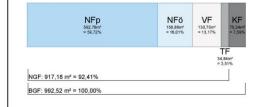
THE FLOORPLAN: 4 on 1



e.g. level 3.10



Floor area distribution:



Efficiency:

leasable area / usable area

- $= 620,02 \text{m}^2 / 909,60 \text{ m}^2$
- = 0.68

4 on 1:

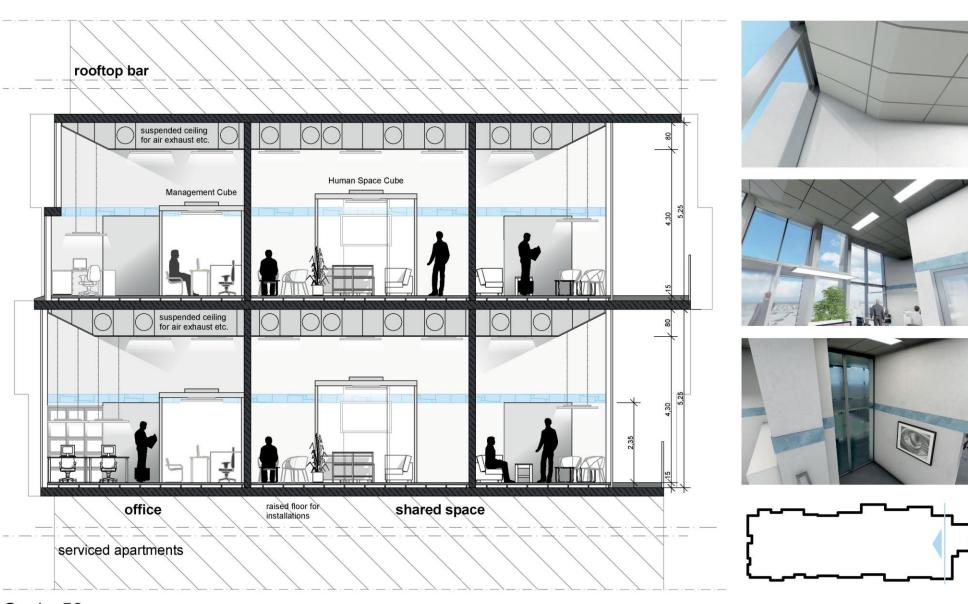
This floor plan represents four separately leasable units, all connected by the hallway. Analogous to all other leasing options, the shared space for inter-office communication is located at the southern stairwell and the restrooms are located at the existing stairwell.







THE SECTION



level 3.12 - 3.13



Height development:

The suspended ceiling for ventilation and the installation floor create a clear room height of 4.30 m. This allows an interesting play with the heights of the individual CUBES in relation to the room.

Lighting concept:

To ensure the necessary lighting of 500 lx, lamps are installed on the suspended ceiling, which passively illuminate the office space. The workstations are directly illuminated with lower hanging lamps. The CUBES have built-in lighting units.

Design concept for the old ceilings:

Since it is not possible to separate the ceiling panels cleanly and perfectly flush from the walls, these demolition edges are staged and thus homage is paid to the old ceilings.



S:1:50

THE CLEARANCES: e.g. 4 on 1 - Pos 3



e.g. level 3.10

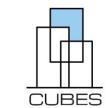


Clearance Areas:

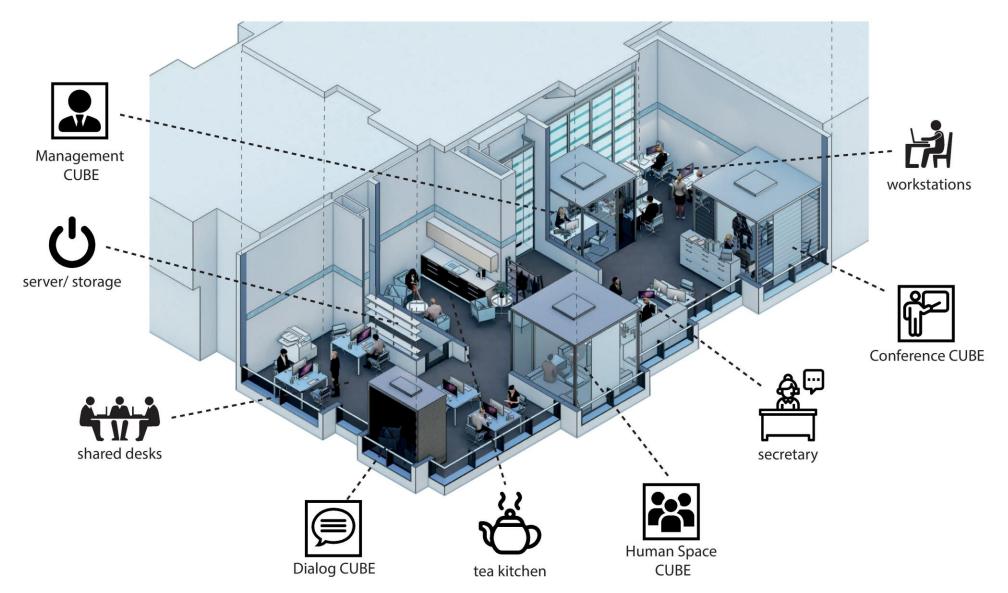
This floor plan shows for an exemplary furnishing of the position 3 of a 4 on 1 renting the distance area proof. In order to use the office space as efficiently as possible, a straight-line routing is chosen.

When positioning the desks, care was taken to ensure that desks are only positioned with the transverse side facing the window, if possible, in order to avoid glare effects caused by direct sunlight.

Movement area
Functional area
Traffic area



THE PROGRAM: e.g. 4 on 1 - Pos 3



e.g. level 3.10



The program:

The program is scalable regardless of the size of the office unit and is demonstrated here using position 3 of a 4 on 1 leasing option. In each office unit, there is a wardrobe near the entrance, a secretary's office, a kitchenette with a lounge and break area, at least one Human Space CUBE, one Conference CUBE, one Management CUBE (in larger floor plan variants such as 1 on 1 or 2 on 1. this can also be used as a single workstation) and one Dialog CUBE. Workspaces can be differentiated into single workstations or shared desks, with each workspace having a copier. A server and storage room is provided for servers and storage.

Spacial Impressions:

The images from (left to right, top to bottom) show the entrance area with secretary's office, the kitchenette with lounge, the CUBES in context to the workstations and the shared desks.



CUBES

SPACIAL IMPRESSIONS: e.g. 4 on 1 - Pos 3









e.g. level 3.10

The program:

The program is scalable regardless of the size of the office unit and is demonstrated here using position 3 of a 4 on 1 leasing option. In each office unit, there is a wardrobe near the entrance, a secretary's office, a kitchenette with a lounge and break area, at least one Human Space CUBE, one Conference CUBE, one Management CUBE (in larger floor plan variants such as 1 on 1 or 2 on 1. this can also be used as a single workstation) and one Dialog CUBE. Workspaces can be differentiated into single workstations or shared desks, with each workspace having a copier. A server and storage room is provided for servers and storage.

Spacial Impressions:

The images from (left to right, top to bottom) show the entrance area with secretary's office, the kitchenette with lounge, the CUBES in context to the workstations and the shared desks.



LOCATION ON SITE



level 3.02 - level 3.09



SERVICED APARTMENTS:

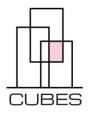
The serviced apartments are located in the lower part of the right tower on levels 3.02-3.09.

Above are the co-working-spaces located.

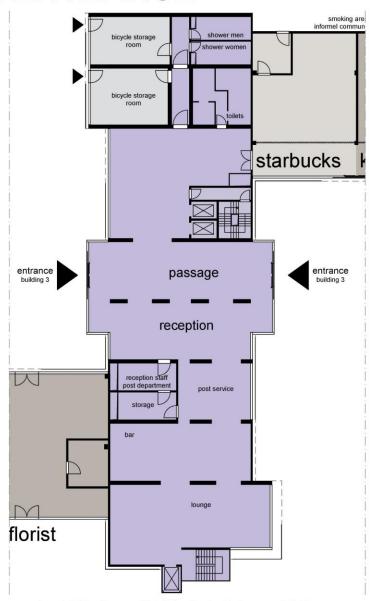
Together, these two units form a kind of business tower.

On level 3.15 is a rooftop bar, which is developed with an express lift, starting in the mall, an having only two stops in each use of the tower.

On level 3.01 there are further workplaces that can be rented on a flexible basis.



THE ENTRANCE



version XXL: Benedikt Kiederle & Laura Molter



version L: Jonathan Pommer & Maximilian Zichner

level 3.00



XXL version:

The ground floor of Tower 3 is part of the representative business section of the Schwabencenter and is therefore connected to the event area. The entrance also serves as a passage to the two inner courtyards and contains the reception with post department. The vertical traffic is accessible from here.

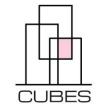
In the northern part there is a spacious waiting area which is directly connected to the bicycle parking, showers and toilets. In the south there is a bar.

L version:

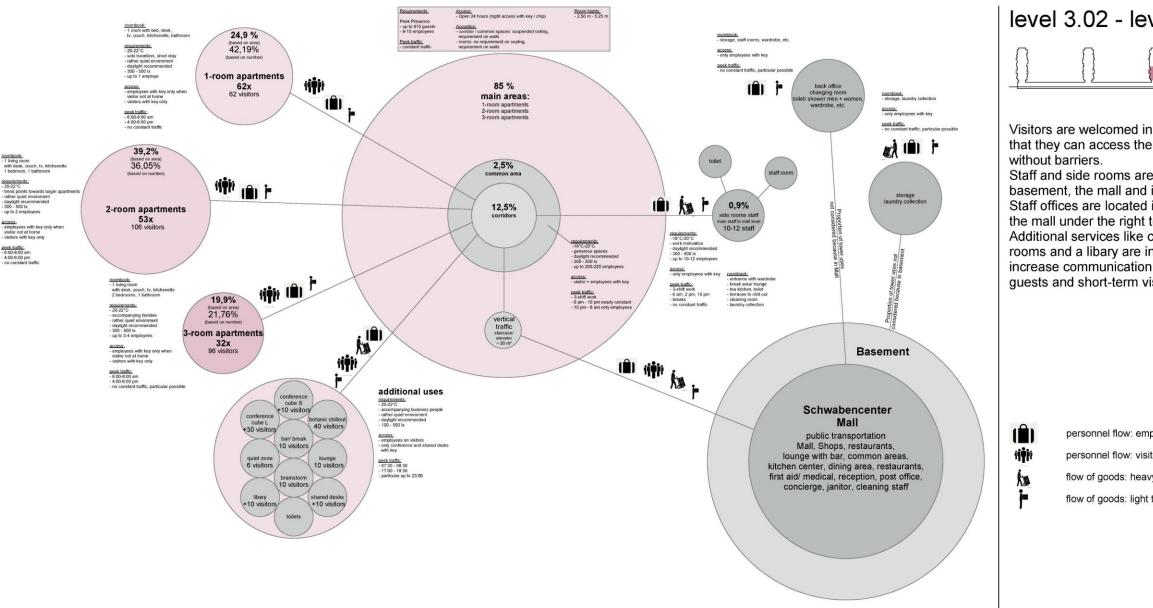
The entrance to the towers and the mall is covered by a large roof.
The stairwells and elevators in the north and south can be used by everyone.

In the middle there is a large information area, waiting area and also public toilets.





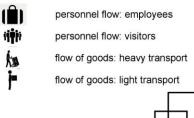
FLOW OF GOODS





Visitors are welcomed in the mall so that they can access the apartments

Staff and side rooms are located in the basement, the mall and in the tower. Staff offices are located in the north of the mall under the right tower Additional services like conference rooms and a libary are intended to increase communication between quests and short-term visitors.



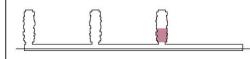


ROOMBOOK

oom	area type	number	size	total size	roomheig	ht people	people total	direct	indirect	using time	Peek-Traffic	using time	lightning	temperature	condition	air voulme	air volume total	energy demand	toal	energy deman	nd total	energy dema	and total
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		in m2	in m2	in m	in units	in units	room	room	time	time	in hours	in lx	in °C	in n-1/h	in m3/h*m2	in m3	in kWh/user*d	in kWh/d	kWh/user*d		kWh/user*d	
om-apartment	NF-P	62	20	1240	2,45	1	62			17:00 - 08:00	1		200			1	41.230,00	1,90	117,80	5.54	343,48	10,61	657,
nen	NF-P	62	15	930	2,45	7	7	bath	/	/	1	14	1	21		3	39.060,00	7	/	/	/	/	1
1201.	NF-P	62	5	310	2,45	,	,	living, floor	,	/	,	1	1	24		7	2.170,00	1	1	1	1	1	1
m-apartment	NF-P	53	35	1855	2,45	2	106	bath, sleeping, flor		17:00 - 08:00	1		200			,	34.582.50	1.90	201,40	5.54	587.24	10.61	112
upurtinent	NF-P	53	20	1060	2,45	7	/	bath, sleeping, floor	/	/	7	6	/	21		3	19.080,00	/	/	/	/	/	1
oing	NF-P	53	10	530	2,45	/	1	living	bath	/	/	8	1	21		3	12.720,00	/	/	/	/	/	1
	NF-P	53	5	265	2,45	/	/	living	sleeping	/	1	1,5	1	24		7	2.782,50	/	/	/	1	/	1
om-apartment	NF-P	32	55	1760	2,45	3	96			17:00 - 08:00	1		200			1	36.112,00	1,90	182,40	5,54	531,84	10,61	1018
g	NF-P	32	25	800	2,45	/	1	bath, sleeping, child, floor		/	1	5,5	/	21		3	13.200,00	1	1	/	/	1	1
ping	NF-P	32	10	320	2,45	/	/	living	bath, child	/	/	8	1	21		3	7.680,00	/	1	/	1	/	1
d	NF-P	32	10	320	2,45	1	/	living	bath, sleeping	/	/	14	/	21		3	13.440,00	/	/	/	1	/	1
h	NF-P	32	4	128	2,45	/	/	living	sleeping, child	/	1	2	1	24		7	1.792,00	/	/	/	/	/	1
ary	NF-P	1	26	26	2,45	10	10	floor	stairs, lift, apartment, storage	17:00 - 23:00	17:00 - 23:00	6	500	21		3	468,00	0,00	0,00	5,54	55,4	10,61	106,1
et zone	NF-P	1	24	24	2,45	10	6	floor	stairs, lift, apartment, storage	17:00 - 23:00	17:00 - 23:00	6	100	21		3	432,00	0,00	0,00	5,54	33,24	10,61	63,66
r/ break	NF-Ö	1	32	32	2,45	10	10	floor	stairs, lift, apartment, storage	08:00 - 23:00	07:30- 18:30	15	100	21		18	8.640,00	1,90	19,00	5,54	55,4	10,61	106,1
nference s	NF-Ö	1	20	20	5,20	12	12	floor	stairs, lift, apartment, storage	08:00 - 18:00	07:30- 18:30	10	500	21		8	1.600,00	0,00	0,00	5,54	66,48	10,61	127,3
nference I	NF-Ö	1	64	64	5,20	38	38	floor	stairs, lift, apartment, storage	08:00 - 18:00	07:30- 18:30	10	500	21		8	5.120,00	0,00	0,00	5,54	210,52	10,61	403,1
ared desks xl	NF-Ö	1	64	64	2,45	6	6	floor	stairs, lift, apartment, storage	08:00 - 18:00	07:30- 18:30	10	500	21		8	5.120,00	0,00	0,00	5,54	33,24	10,61	63,66
ared desks s	NF-Ö	1	23	23	2,45	3	3	floor	stairs, lift, apartment, storage	08:00 - 18:00	07:30- 18:30	10	500	21		8	1.840,00	0,00	0,00	5,54	16,62	10,61	31,83
tanic chillout 1	NF-Ö	4	22	88	5,20	4	16	floor	stairs, lift, apartment, storage	08:00 - 23:00	17:00 - 23:00	15	100	21		1,5	495,00	0,00	0,00	5,54	88,64	10,61	169,7
otanic chillout 2	NF-Ö	1	25	25	5,20	2	2	floor	stairs, lift, apartment, storage	08:00 - 18:00	17:00 - 23:00	10	100	21		1,5	375,00	0,00	0,00	5,54	11,08	10,61	21,22
unge	NF-Ö	,	26	26	5.20	10	10	floor	stairs, lift, apartment, storage	08-00 - 22-00	07:30- 18:30	15	100	21		18	7.020,00	1,90	19,00	5,54	55,4	10,61	106,1
		•		77.70												1000							
instorm	NF-Ö	1	24	24	2,45	6	6	floor	stairs, lift, apartment, storage	08:00 - 18:00	07:30- 18:30	10	500	21		8	1.920,00	0,00	0,00	5,54	33,24	10,61	63,66
	NF-P				2,45 - 3,00	9	9									1	878,00	1,90	17,10		149,58		286,4
ff room	NF-P	1	25	25	2,45	/	9	Personalküche, Flur, Personal WC	floor, lift, apartments	00:00 - 24:00	/	2	300	21		3	150,00	/	/	5,54	49,86	10,61	95,49
chen staff	NF-P	1	10	10	2,45	/	9	Personalraum	toilet staff, floor	00:00 - 24:00	/	2	100	21		7	140,00	/	1	5,54	49,86	10,61	95,49
et staff	NF-P	1	3,5	3,5	2,45	/	9	Personalraum, Flur	office	00:00 - 24:00	1	24	300	24		7	588,00	/	/	5,54	49,86	10,61	95,49
ce mall	NF-P	1	30	30	3,00	/	3	floor, staircase, lift	storage, staff	06:00 - 20:00	/	10	500	21		6	1.800,00	/	1	5,54	16,62	10,61	31,83
rage (mall)	NF-P	1	20	20	3,00	/	1	floor, staircase, lift	apartments, conf., libary, office	00:00 - 24:00	/	24	300	19		1,5	720,00	/	1	5,54	5,54	10,61	10,61
rage laundry (BM)	NF-P	1	20	20	3,00	/	1	floor, staircase, lift	spartments, office	06:00 - 12:00	1	24	300	19		1,5	720,00	/	1	5,54	5,54	10,61	10,61
vwlopment	VF				mind. 2,4!	5	ausgenommen										36.840,00	in kwh/m2		in kWh/day		in kWh/day	
ircase 1	VF	8	18,7	149,6	mind 2,45		418	floor, lift	apartments, technic	00:00 - 24:00	06:30 - 08:00 / 16:00 - 18:00	2	100	19		1,5	448,80	0,00	0,00	0,8	334,4	2	836
rcase 2	VF	8	16,3	130,4	mind 2,45		418	floor, lift	apartments, technic	00:00 - 24:00	06:30 - 08:00 / 16:00 - 18:00	2	100	19		1,5	391,20	0,00	0,00	0,8	334,4	2	836
NT.	VF	8	125	1000	mind 2,45		418	staircase, lift, apart., staff, technic	storage, office	00:00 - 24:00			100	21		1,5	36.000,00	0,00	0,00	0,8		2	836
	VF	8	13,47	107,76	mind 2,45		418	floor, staircase	apartments, technic		06:30 - 08:00 / 16:00 - 18:00		100	1		1	1	0,00	0,00	1,5		2	836
et public	NF-Ö	2	19	38	2,45	8	16	floor	TRH, Aufzug, zusätzi Nutzen, Lager	08:00 - 23:00	07:30- 18:30	15	100	21		18	5.130,00	1,90	30,40	5,54	88,64	10,61	169,7
nnic space	TF	8	9,02	72,16				floor, lift, staircase	apartments														
			tota	al: 6783,42		people to	tal: 424			-						ir volume total	180 752 50	tota	l: 556,70	tota	l: 2238,16	tot	tal: 4286,
			100	J/03/42		people to		1		1					<u>a</u>	Jennie votal	200.732,30	tota	550,70	tota	2230,10	100	4500

ventilation space			
volume flow	180.752,50 =	8,37	m2
	C 0 /- * 2500		

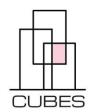
level 3.02 - level 3.09



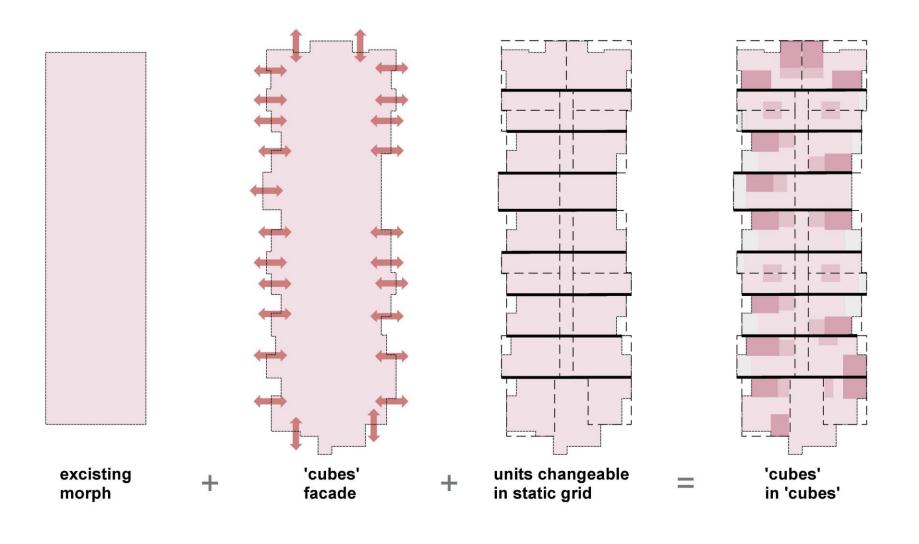
area distribution		
		%
gross floor area	1018,66	
number of floors	8,00	
gross floor area total	8149,28	100,00
net floor area	6783,42	83,24
construction Space	1365,86	16,76

area types		
		%
net floor area	6783,42	100,00
net floor area private	4943,50	72,88
net floor area public	404,00	5,96
traffic area	1387,76	20,46
technical area	72,16	1,06

leasability						
		%				
net floor area	6783,42	100,00				
leasable area	5026,00	74,09				
non leasable area	1757,42	25,91				



THE CONCEPT

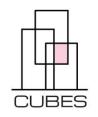


level 3.02 - level 3.09

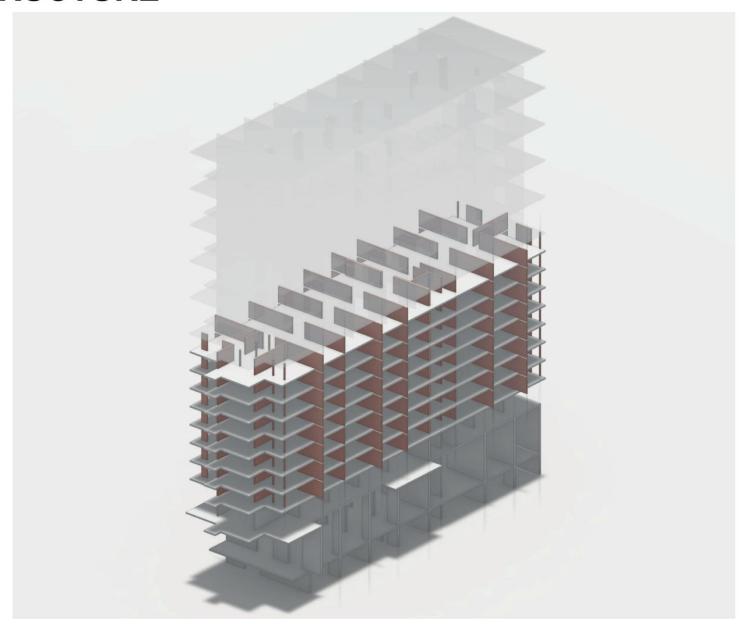


The previously straight structure is broken up by the 'cubes'. Furthermore, this structure should also be adopted in the apartments. Bathrooms and bedrooms should be built as slightly separated 'cubes'. To break up the length of the corridor and create an entrance zone to the flats, the entrances are set back as cubes. An additional core with stairs and lift in the south relieves the existing staircase at peak times. This complies with current escape route and fire protection regulations. Further cubes for different uses are also created in the following.





THE STRUCTURE

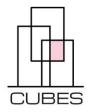


level 3.02 - level 3.09

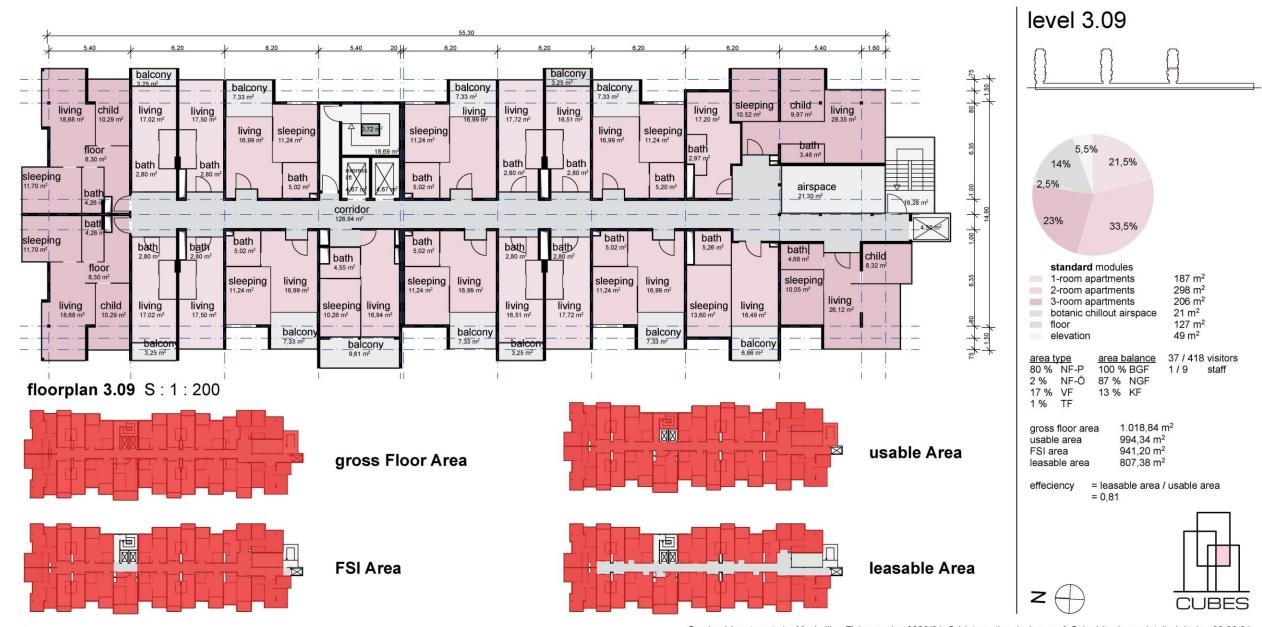


Most of the static grid is preserved. The apartments will be in-stalled in the spaces between the bulkheads. For some other uses, ceilings have to be removed so that a bigger room height is created.

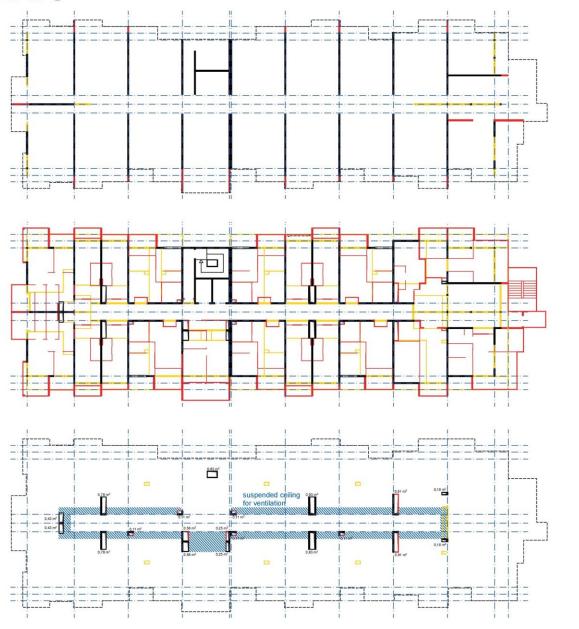
The bulkheads on the southern front of the building and the existing core will be used to stiffen the supporting structure.



V1 MAXIMUM VERSION



TECHNIC



static structure

demolition/ new structure

installation shafts

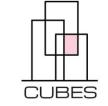




To redesign the facade, the existing balconies are demolished and new prefabricated modules are placed on the facade. The module depths have a grid of 75 cm.

Due to the low room height of the apartments, most of the technical equipment should be placed on the corridor wall or facade. For this Suspended ceilings should be used.



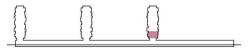




VERSIONS



level 3.02 - level 3.05



The other uses are tailored to the expected users and can also be also used by people from the co-working spaces.

Botanic chillout spaces on each floor should light up the corridor and create relaxing green spaces for users.

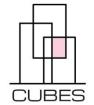
The mix of uses is intended to increase user interaction.

level 3.02 - 3.05

Conference rooms are open to the public and can be booked.

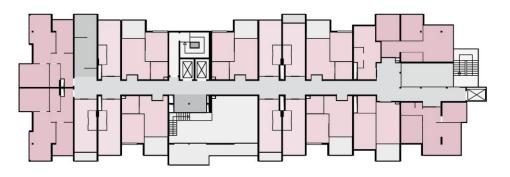
The same applies to brain-storming areas and shared desks.

The library, relaxation rooms and break rooms can be used by everyone. Sanitary rooms are easy to reach.





VERSIONS



level 3.06

- extra modules
- botanic chillout
- brainstorming
- conference airspace
- conference L

level 3.08

- extra modules
- botanic chillout airspace
- botanic chillout
- lounge airspace
- lounge
- toilets

level 3.07

- extra modules
- botanic chillout airspace
- botanic chillout
- lounge

level 3.06 - level 3.08



The other uses are tailored to the expected users and can also be also used by people from the co-working spaces.

Botanic chillout spaces on each floor should light up the corridor and create relaxing green spaces for users.

The mix of uses is intended to increase user interaction.

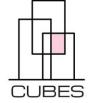
level 3.06 - 3.08

Conference rooms are open to the public and can be booked.

The same applies to brain-storming areas.

The different lounges can be used by everyone.

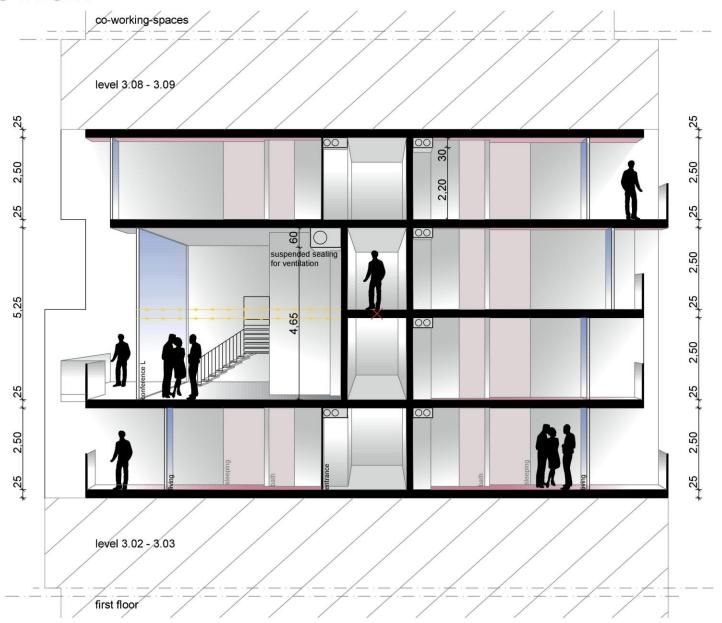
Sanitary rooms are easy to reach.







THE SECTION



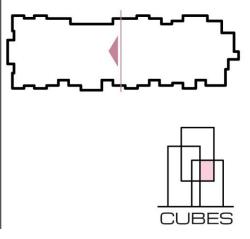
level 3.04 - level 3.07



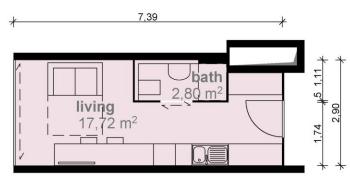
Due to the low room height of the apartments, most of the technical equipment should be placed on the corridor wall or facade.

Balconies and apartments of different depths enhance the effect of the 'cubes'.

The facades of the living rooms are glazed to ensure maximum incidence of light.



STANDARD MODULES 1-ROOM APARTMENT

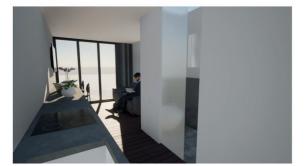


1-room apartment 20 m²













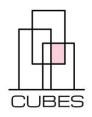
1-room apartments

have a small wardrobe and a separate bathroom. Storage facilities, kitchen and living wall are arranged lengthwise along the partition wall to save space.

The standard modules of the 1-room and 2-room apartments can be exchanged between the bulkheads and can vary in length and size. The 3-room apartments are permanently located on the north and south facades.

In reference to the proximity to the textile quarter, curtains are additionally installed, which also contribute to the room acoustics.





STANDARD MODULES 2-ROOM APARTMENT



2-room apartment 35 m²







level 3.02 - level 3.09



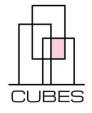
2-room apartments

have an additional separate bedroom and a larger living area, as these are intended for longer stays for 2 people. In recent years, the demand for these has increased.

The standard modules of the 1-room and 2-room apartments can be exchanged between the bulkheads and can vary in length and size. The 3-room apartments are permanently located on the north and south facades.

In reference to the proximity to the textile quarter, curtains are additionally installed, which also contribute to the room acoustics.





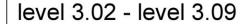
STANDARD MODULES 3-ROOM APARTMENT

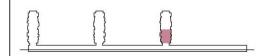












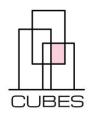
3-room apartments

are suitable for families with one child to ensure suitable accommodation for this clientele as well. There are numerous facilities for children in the surrounding area.

The standard modules of the 1-room and 2-room apartments can be exchanged between the bulkheads and can vary in length and size. The 3-room apartments are permanently located on the north and south facades.

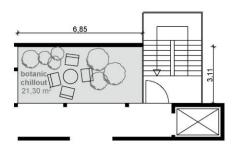
In reference to the proximity to the textile quarter, curtains are additionally installed, which also contribute to the room acoustics.

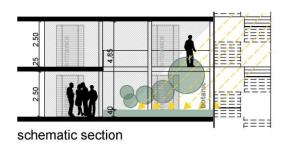


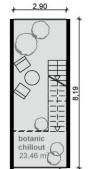


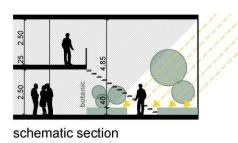
S:1:100

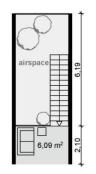
EXTRA MODULES - GREEN CHILLOUT









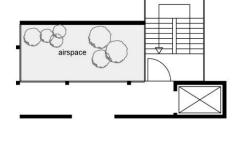






level 3.02 - level 3.09

The exterior space in the interior space. Green spaces bring clean air, relaxation and light into the space through their 2-storey design. They serve as meeting points and internal access between the floors. There are 2 different types of green spaces. Each floor has at least one green space. This creates a continuous additional development possibility.

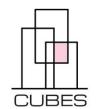


botanic chillout 30 m²



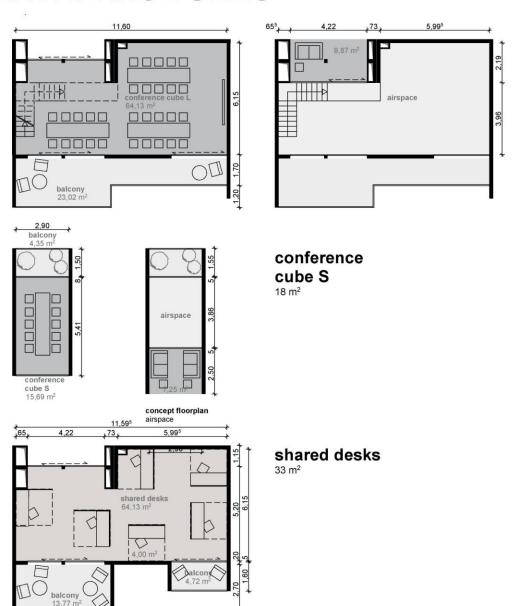




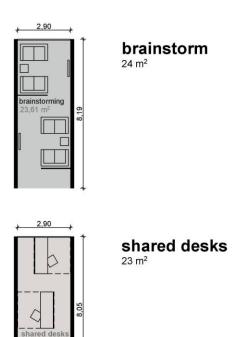


z

EXTRA MODULES



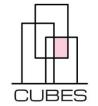
conference cube L



level 3.02 - level 3.09

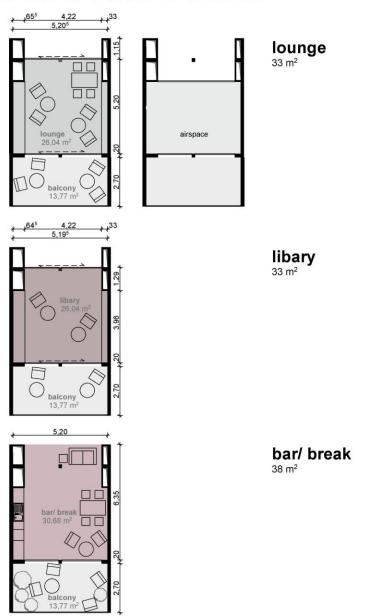


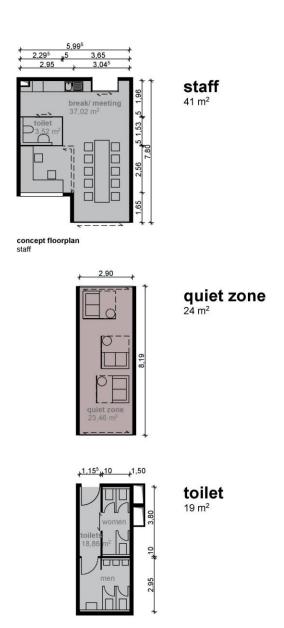
The various additional uses allow a modern organisation of the working day. The link with the co-working spaces above ensures short distances and increases the attractiveness of the location - also for external guests. This creates a home office option that guarantees privacy and sustainability. Recreational uses such as a library, lounge and bar are also provided. The extra module can be also exchanged between the bulkheads. Some modules operate over two floors. In this way, they contribute to visitor interaction.





EXTRA MODULES

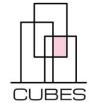




level 3.02 - level 3.09



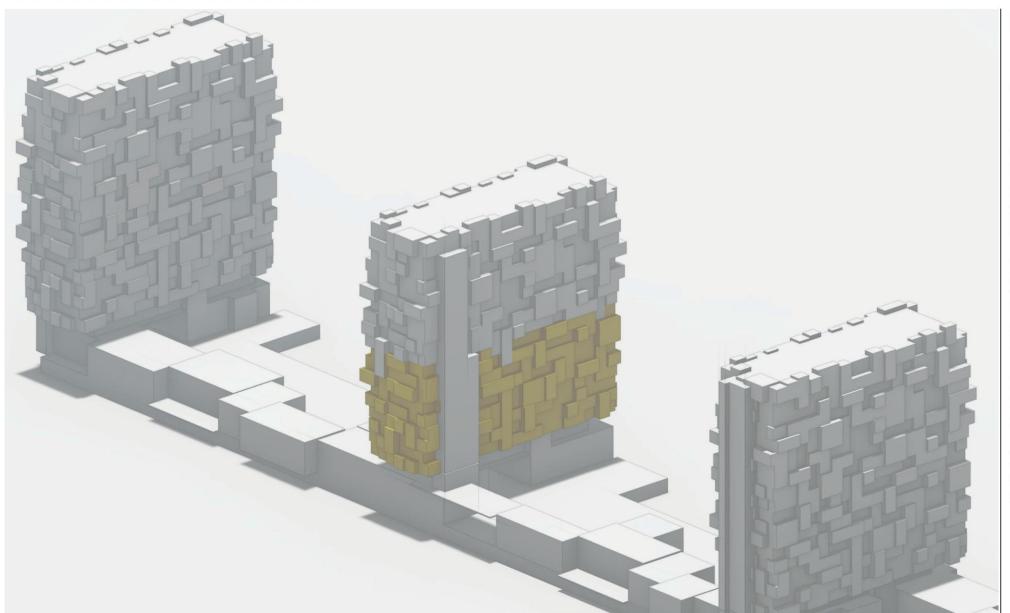
The various additional uses allow a modern organisation of the working day. The link with the co-working spaces above ensures short distances and increases the attractiveness of the location - also for external guests. This creates a home office option that guarantees privacy and sustainability. Recreational uses such as a library, lounge and bar are also provided. The extra module can be also exchanged between the bulkheads. Some modules operate over two floors. In this way, they contribute to visitor interaction.







LOCATION ON SITE



level 2.01 - level 2.10



The age-appropriate and assited-living spaces are located in the lower part of the middle tower on levels 2.01 to 2.10, directly below the general living space.

In the underground parking level are storage spaces for inhabitants, storage for the assisted living and the central kitchen located.

Entrance, staff rooms and office spaces are located in the mall level.

In the first level are common spaces and resting spaces for the staff.



FLOW OF GOODS 55-80% **Primary Space** Age appropriate living Semi assisted living Assisted living care room double 66,38% care room single 33,62% toilet, lavatory 20°C-22°C / 23-25°C (B) 20"C-22"C / 23-25"C (B) -20"C-22"C / 23-25"C (B) -air chg, 3t/h / 10t/h - CO₂<1000ppm - daylight recommended - 300 - 500 tx / 200-500 tx (B air chg, 3t/h / 10t/h 14-41% - daylight recommended - 300 - 500 lx / 200-500 lx (B care room double 78,39% common area emergency call Medical Common Administration -20°C-22°C / 23-25°C (B) -air chg. 3t/h / 10t/h - CO₂<1000ppm 4-6% daylight recommended 300 - 500 lx / 200-500 lx (B Teritiary Entrance/ Miscellaneous tation administrati medication care room single 21,61% access station cces only for crew, therapist and inhabitant otherwise only with esco A.B equirements: 20°C-22°C / 23-25°C (B) air chg. 3t/h / 10t/h daylight recommended 300 - 500 lx / 200-500 lx (B emergency call visitor toilets 6 core common, dining, 6 requirements: -20°C-21°C air chg. 4t/h Basement parking space age approriate living appartment 3,5 room 26,49% - daylight recommended - 300 - 500 lx W W laundry center kitchen in living room integrated access common:
-full acces inhabitants cared
and age-approvted living
- no restrictions for inhabitants access a-adining area central kitchen room of silence -visitors or friend bathroom requirements: -20-21°C a.change 3t/h - CO<1000ppm - daylight recommended - 200-500 lx -in case of emergency visitors during vistor time - otherwise with date full accessibility 20°C-22°C / 23-25°C (B) air chg. 3t/h / 10t/h -emergency call care bath staff rooms therapy 0z<1000ppm Schwabencenter access room of silence daylight recommended 300 - 500 lx / 200-500 lx (f anging, toilets, storage) requirements: -23-25°C a.change 10t/h cleaning crew corridors emergency call Mall - CO<1000ppm age appropriate daylight recommende - 200-500 lx public transportation Mall, Shops, restaurants, access care bath / therapy: only for inhabitants and memb lounge with bar, common areas, of age-approvted-living, therapist, crew kitchen center, dining area, restaurants, age approriate living appartment 2,5 room 44,52% first aid/ medical, reception, post office, concierge, janitor, cleaning staff kitchen in living room integrated dining area age approriate living appartment 1 room 4,32% bathroom kitchen, dorm in living room integrate full accessibility hathroom full accessibility -20°C-22°C / 23-25°C (B) -air chg. 3t/h / 10t/h - CO₂<1000ppm requirements: -20°C-22°C / 23-25°C (B) -air chg. 3t/h / 10t/h age approriate living appartment 2 room 24,67% - daylight recommended - 300 - 500 lx / 200-500 lx (-emergency call kitchen in living room integrated CO₂<1000ppm daylight recommended 300 - 500 lx / 200-500 lx (hathroom emergency call full accessibility requirements: -20°C-22°C / 23-25°C (B) -air chg. 3t/h / 10t/h - CO₂<1000ppm - 300 - 500 lx / 200-500 lx (- emergency call

level 2.01 - level 2.10



ELEVATOR CAPACITIES

AGE APPRORIATE LIVING

persons

9:00-12:00 / 15:00-18:00 rush hour

ELEVATOR

capacity: 8 pers / elevator (3x) 2,5m/sek speed: height: 65m

affordable time: 52 sec. / incl. buffer 90 sec capacity/hour: 320 pers/h x 3 = 960 pers/h

ELEVATOR

13 pers / elevator (1x) capacity: 1.5m/sek speed:

height:

affordable time: 88 sec. / incl. buffer 120 sec capacity/hour: 390 pers/h

Persons

Assisted Living - 76 inhabitans - 20 staff Age Appropriate Living - 105 inhabitans - 5 staff

Total - 181 inhabitans - 25 staff

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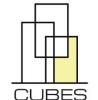
personnel flow: inhabitants

personnel flow: employees

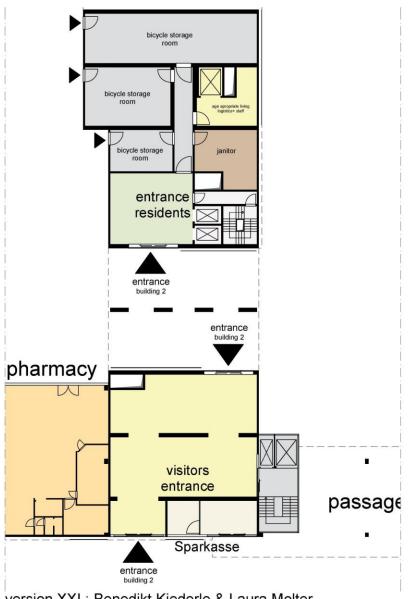
personnel flow: visitors

flow of goods: heavy transport

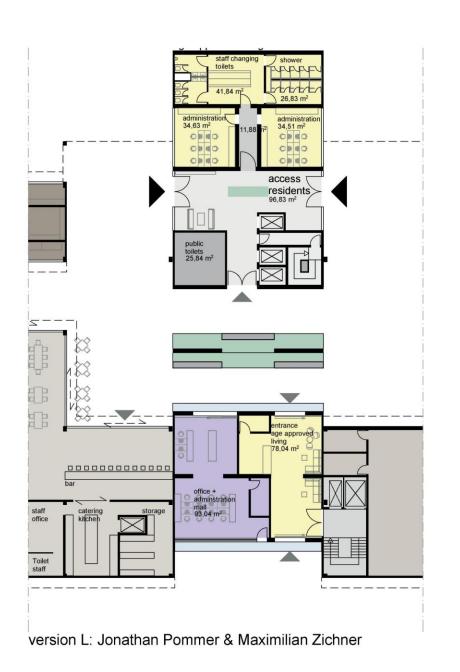
flow of goods: light transport



THE ENTRANCE



version XXL: Benedikt Kiederle & Laura Molter



level 2.00



L VERSION

The main entrance (public entrance) is in the southern part located. It includes concierge service and waiting areas.

In the northern part is the discreet entrance located.

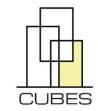
Near this entrance are rooms staff and the the administration placed.

XXL VERSION

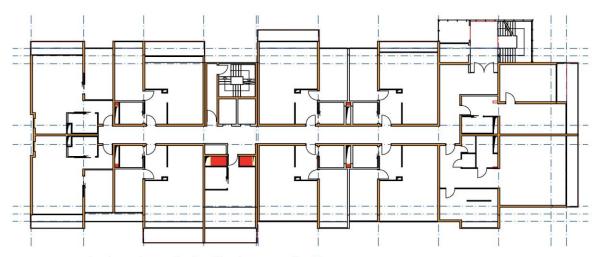
The main entrance (public entrance) is in the southern part located. This Part includes waiting areas waiting areas.

In the northern part are rooms for the staff.

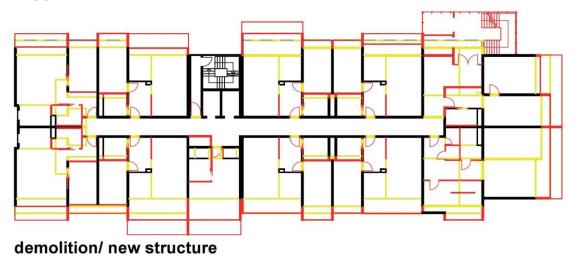


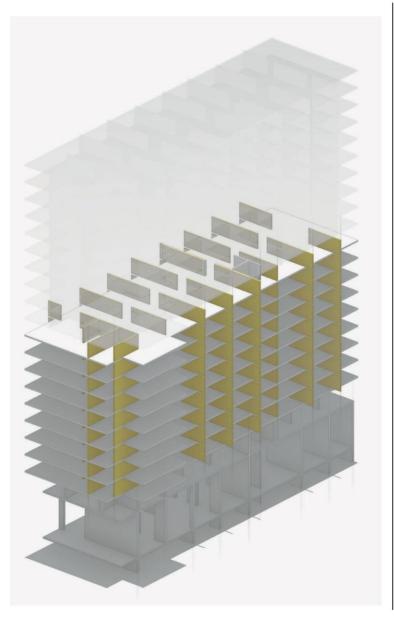


THE STRUCTURE - age appropriate living



support structure / shafts / new shafts





level 2.02 - level 2.10



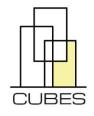
The load-bearing structure of the existing building is used as a basic grid for the cubes.

The corridor walls will be partially relocated, while the rectangular ones will remain in the existing structure as a stiffening slab.

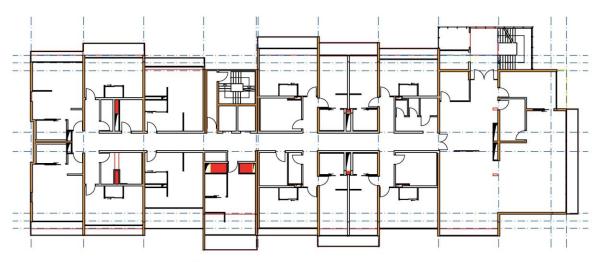
The bulkheads on the southern front of the building and the existing staircase core will be used to stiffen the supporting structure.

A core will be attached to the existing building in the southeast.

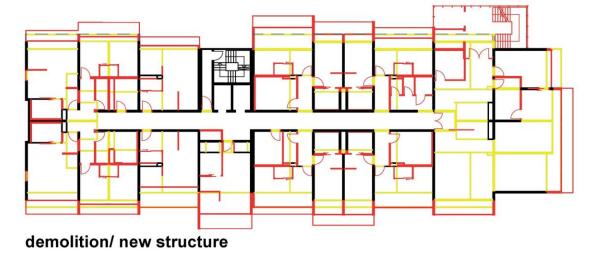


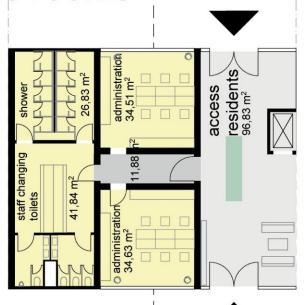


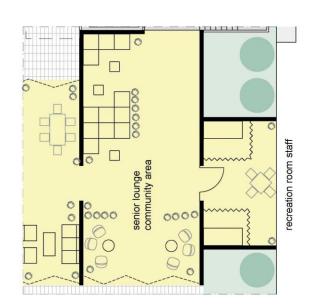
THE STRUCTURE - assisted living - side rooms

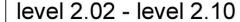


support structure / shafts











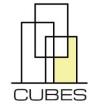
SIDE ROOMS LEVEL 2.00 / 2.01

In the north of the central tower there are dressing rooms for the staff, as well as the administration of the assisted living and the administration of the age appropriate living.

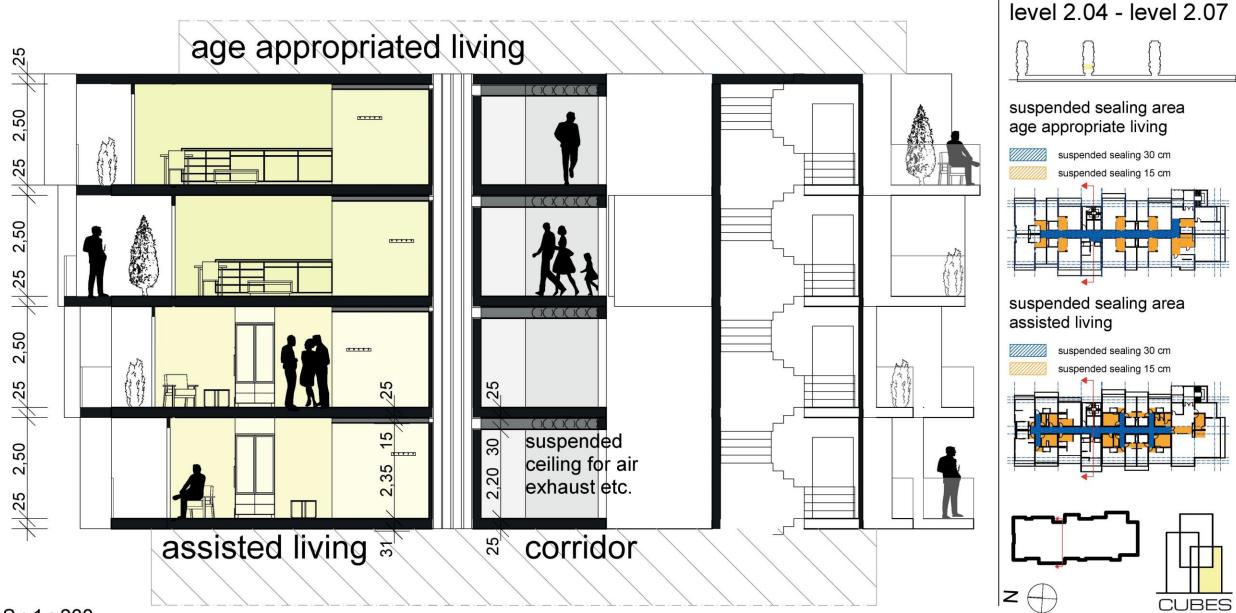
On the upper floor of the mall there are rest rooms for the staff, as well as communal areas for retirement home and assisted living.

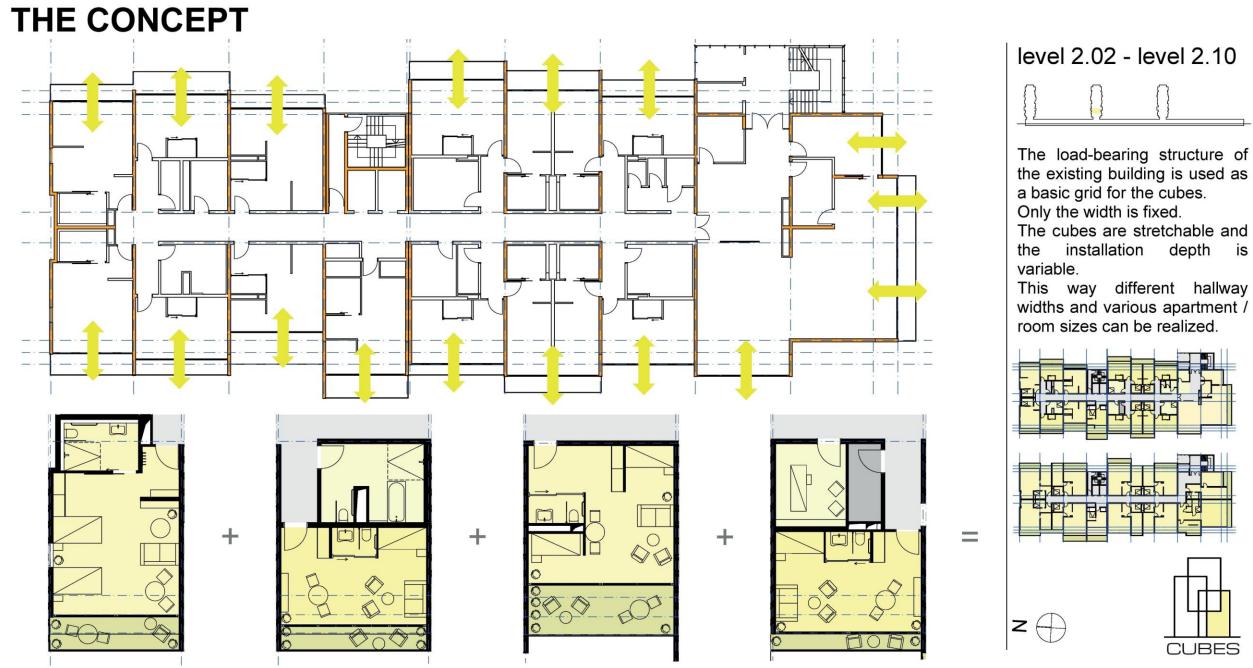
In addition, there is a central kitchen in the underground parking garage, which delivers directly to the wards/units, as well as a laundry service center. All side rooms are directly connected to the floors by the elevators, thus enabling short distances.



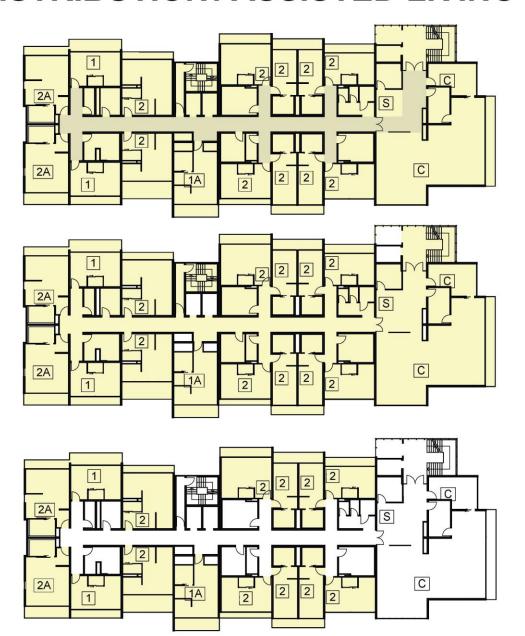


THE SECTION





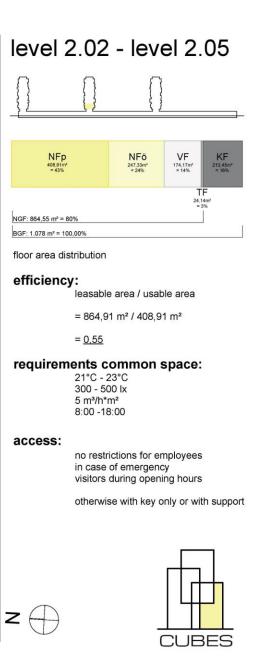
AREA DISTRIBUTION: ASSISTED LIVING



gross floor area

usable floor area

leasable floor area

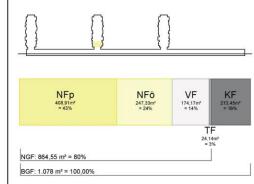


FLOORPLAN: ASSISTED LIVING

S:1:100



level 2.02 - level 2.05



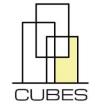
floor area distribution

There are 4 different types units:

- -Single room with bathroom
- -Single room with sanitary box
- -Double room with bathroom
- -Double room with sanitary box

In addition, there are therapy rooms, ward bathrooms, a room of silence, a community area and a dining room, as well as ancillary spaces, for storage and a reheating kitchen.





DETAIL: ASSISTED LIVING

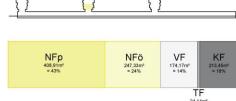








level 2.02 - level 2.05



level facts

apartments

4 x 2 person apartments 4 x 1 person apartments

19 Persons

4 persons

inhabitants per Level

requirements bath

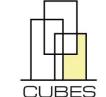
living 21°C - 23°C 22°C - 25°C

300 - 500 lx 200 - 500 lx 7 m³/h*m² 4 m³/h*m²

persons in total assisted living inhabitants

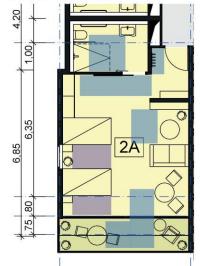
19 per lev. x 4 levels 76 inhabitants asstisted living

4 persons per lev. x 4 levels 16 persons + 4 pers administration

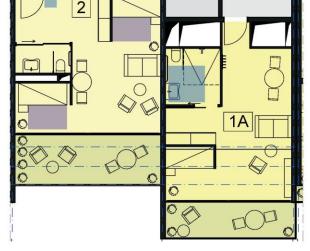




staff





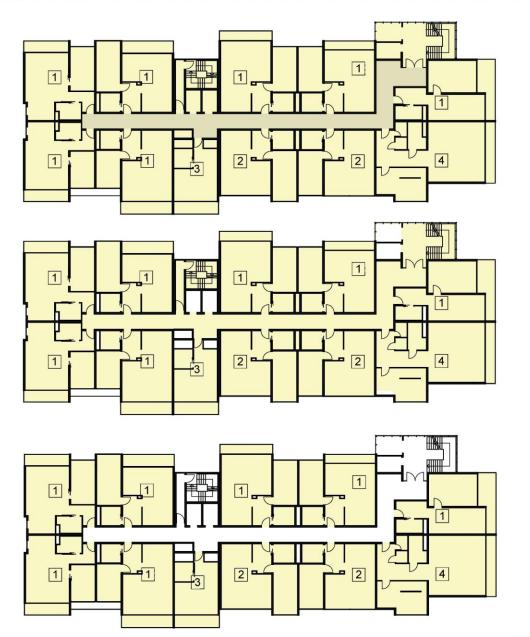


S:1:100 area necessary for caring moving area disabled



area necessary for caring moving area disabled

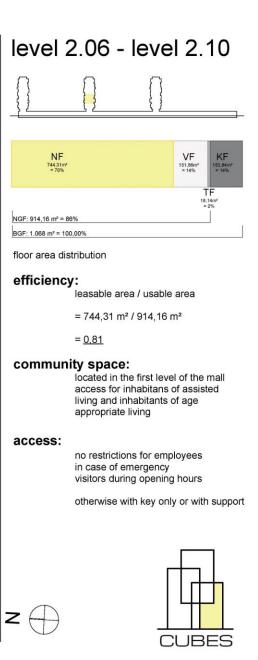
AREA DISTRIBUTION: AGE APPROPRIATE LIVING



gross floor area

usable floor area

leasable floor area



FLOORPLAN: AGE APPROPRIATE LIVING



NF
744.3 im'
2 70%

NGF: 914.16 m² = 86%

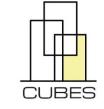
BGF: 1.088 m² = 100.00%

floor area distribution

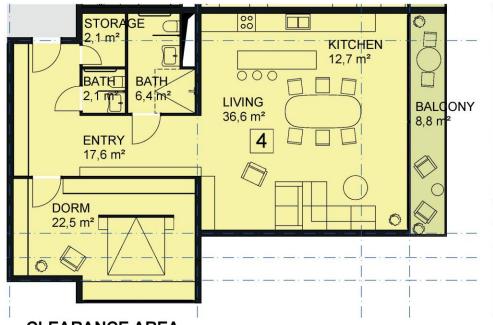
There are 4 different types of apartments:

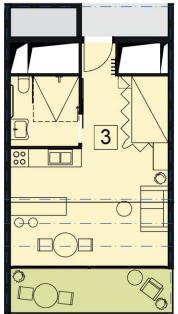
- -single apartment with balcony
- 30 40 m² (3)
- -double apartment without balcony
- 60-75 m² (2)
- -double apartment with balcony
- 70-80 m² (1)
- -double apartment with balcony, guest bathroom and storage room
- 85-95 m² (4)

z \oplus



DETAIL: AGE APPROPRIATE LIVING

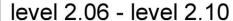


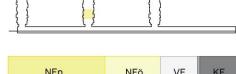












NFÖ 247,33m² = 24% 174,17m² = 14% NGF: 864,55 m² = 80% BGF: 1.078 m² = 100,00%

level facts apartments

7 x 2 person apartments typ 1 2 x 2 person apartments typ 2 1 x 1 person apartment typ 3 1 x 2 person apartment typ 4

inhabitants per Level 21 persons staff (admin + concierge) 1 person requirements

living 21°C - 23°C

22°C - 25°C 200 - 500 lx 300 - 500 lx 7 m³/h*m² 4 m³/h*m²

persons in total assisted living inhabitants

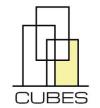
21per lev. x 5 levels 105 inhabitants age appropriate living

staff

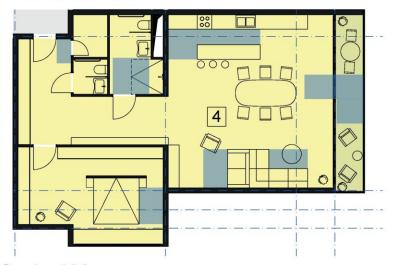
bath

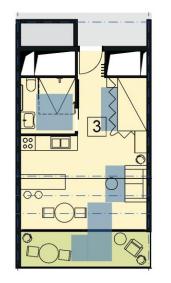
1 persons per lev. x 5 levels

5 persons

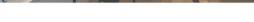


CLEARANCE AREA



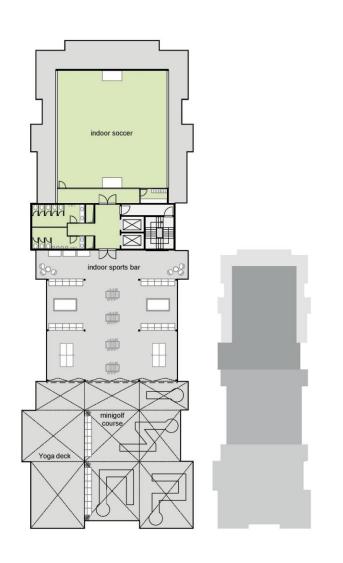




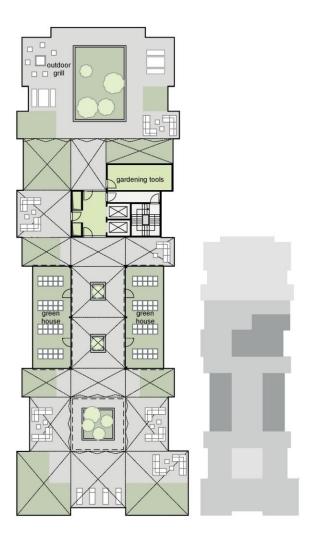


moving area disabled

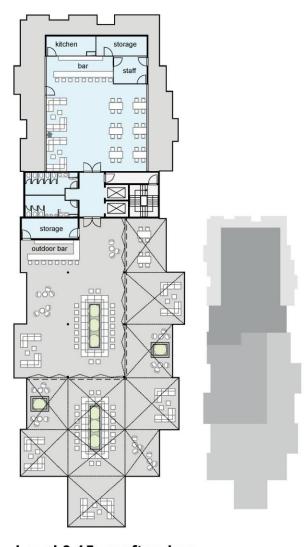
THE ROOFTOPS



Level 1.20: sport, outdoorsport, sportsbar



Level 2.20: roof garden



Level 3.15: rooftop bar

level 1.20 - 2.20 - 3.15



Level 1.20:

On Level 1.20 there are several sports facilities for students and young families, such as indoor soccer, a minigolf course, table tennis, etc.

Level 2.20:

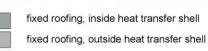
On level 2.20, in addition to the roof gardens on levels 1.01 - 3.01, there are further roof gardens for residents.

Level 3.15:

On level 3.15 there is a rooftop bar for visitors to the serviced apartments and employees of the offices on the coworking floors, as well as for external guests.





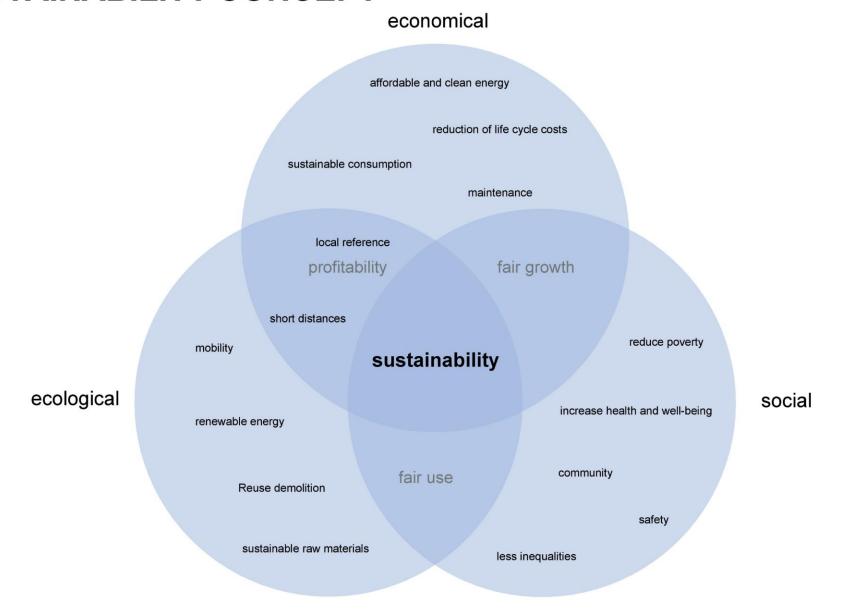








SUSTAINABILITY CONCEPT



COMBINE SYSTEMS

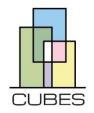
The design of both variants, as well as the different benefits, was developed on the basis of the sustainability concept.

Sustainability also plays a major role in the building technology and the planning of the details.

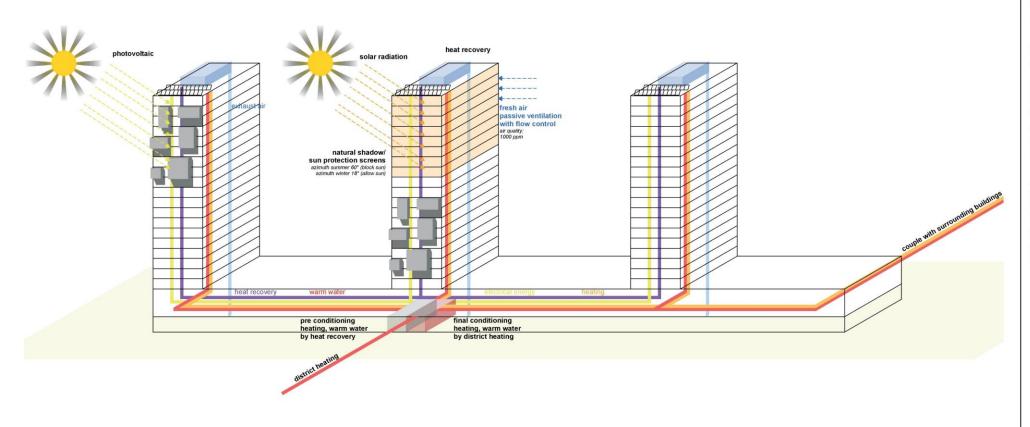
Above all, the social aspect was a leading factor in the planning of the mall variants and the associated outdoor facilities.

In order to achieve the desired sustainability, not only the architectural means but also the compliance and follow-up of the users and visitors are of high importance.

The aim of our architecture is to create the best possible basis for this and to keep the emission of grey energy as low as possible by intervening in the existing building as little as possible.



ENERGETIC CONCEPT

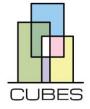


COMBINE SYSTEMS

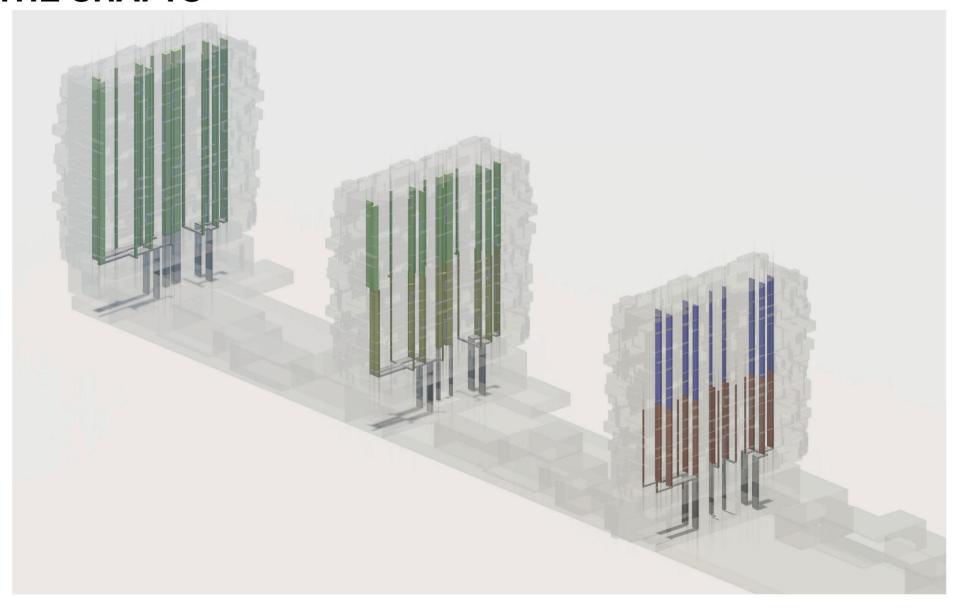
The goal is to reduce one's own energy demand as much as possible through solar and heat recovery. Reheating is provided by district heating. It is important that the general conditions with regard to air quality and comfort are met.

For this purpose, fresh air is supplied to the units via an air vent and the rooms are heated via underfloor heating. The exhaust air is collected and routed via the roof. The remaining energy is recovered from this via heat recovery and then used to precondition the heating circuit and hot water.

In order to have control over the solar energy, the Cubes are equipped with façades with integrated sun protection, which are controlled depending on the position of the sun, but can also be individually adjusted at any time.



THE SHAFTS



SHAFT - CONCEPT

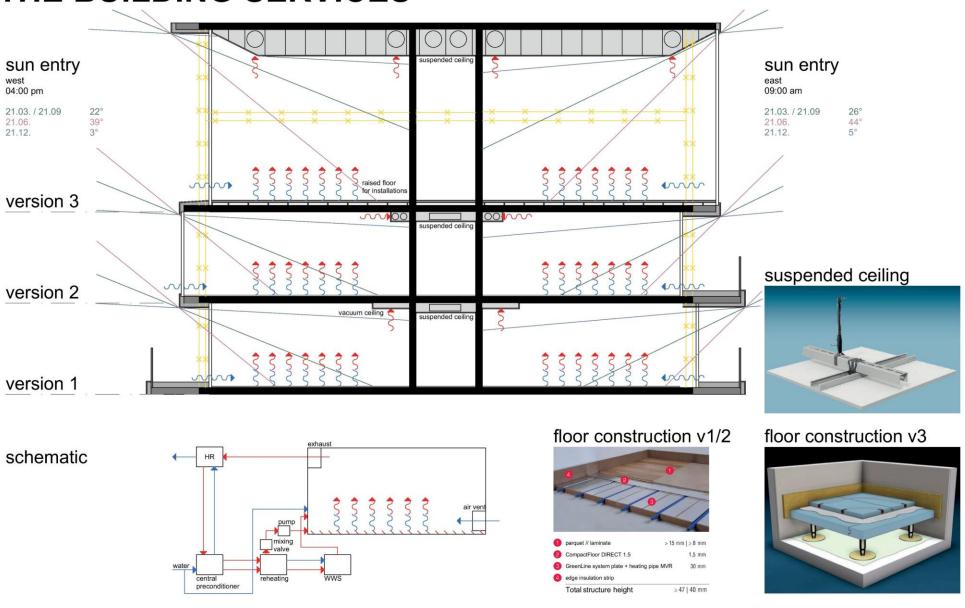
In order to keep the encroachment on the existing building as small as possible, the shafts will be retained as far as possible and put to a new use. However, shafts for ventilation ducts must be enlarged.

Due to their height, the mezzanine floor and the mall serve to move the ducting. The shaft routing was coordinated between the coexisting uses.

- **GENERAL LIVING**
- STUDENTS LIVING
- AGE APPROPRIATE LIVING
- CO-WORKING SPACES
- SERVICED APARTMENTS



THE BUILDING SERVICES



DIFFERENT VERSIONS

V1:

Air vent in the façade, Heating through underfloor heating, Exhaust air through negative pressure ceilings, Exhaust air collection in the corridor area, Reduction of the slope height in the units

Application: age-appropriate living and housing

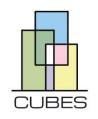
V2:

Air vent in the façade, Heating through underfloor heating, Exhaust air through suspended ceilings, Exhaust air collection in the corridor area, Suspensions only on the corridor walls Application: age-appropriate living and housing

V3:

Air outlet in the facade, Heating through underfloor heating, Exhaust air through suspended ceilings, Exhaust air collection in the corridor area, Larger dimensions due to more air requirement

Application: Office space

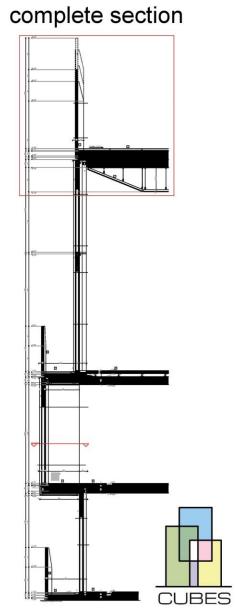


DETAIL: FACADE / ROOF

21,735

1 Fall protection: steel T-profile VSG with 2x PVB in clamping profile 3x12 mm 2 Floor structure: roof garden: tile flooring 35 mm split bed buildprotection and drainage mat 15 mm upper layer of sealing 10 mm second layer of sealing 10 mm 200 mm insulation WLS 030 3 mm primer, sealing 200 mm existing reinforced concrete ceiling 10 mm ceiling plaster suspended ceiling: system: Fa. Knauf Knauf suspension system suspension construction Metal rail 30 mm 12.5 mm plasterboard acoustic panel Cover plate connection to steel profile fall protection protrusion min. 30 mm fastening to steel T-profile emergency drainage via joints glazing Element facade Fa. Glass Seele product: ISO shade with integrated shade Steel tongs around profile facade fastening with steel plate and connection iron (glued in) in existing reinforced concrete ceiling

,24,835 ,24,53⁵ 24,03⁵ 2 slope 2,5% < 22,83⁵ 22,79⁵ 22,76 22,64⁵ 22,61° 22,55⁵ 22,355



Profile widening element facade

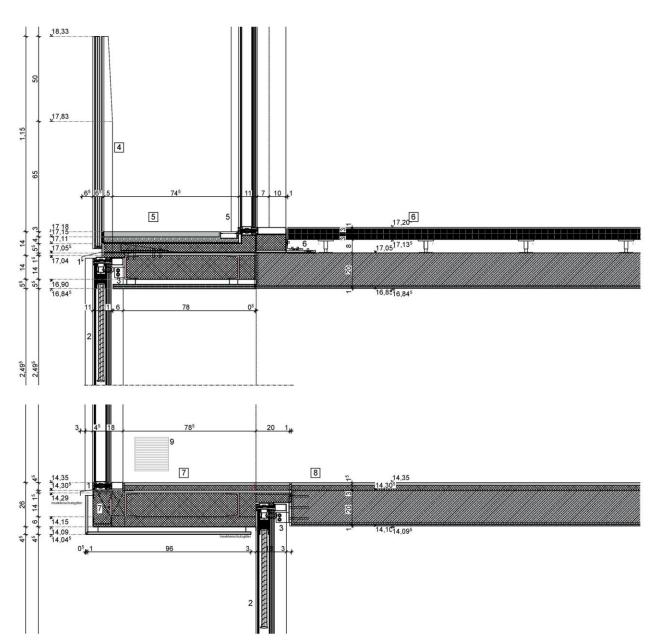
DETAIL: CUBE

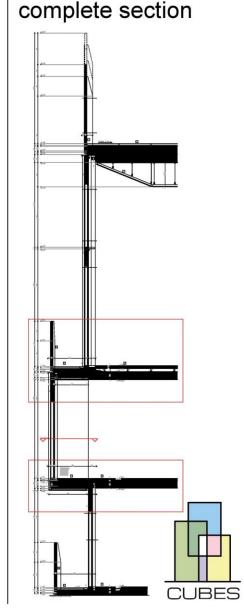
Fall protection: 50 mm steel T-profile 3x12 mm VSG with 2x PVB in clamping profile Floor structure: roof garden: slab decking 30 mm 40 mm split bed 15 mm buildprotection and drainage mat 10 mm top layer sealing 10 mm second layer sealing 60 mm insulation WLS 030 primer, sealing 3 mm 15 mm board cement-bonded 140 mm IPE steel beam insulated WLS 030 vapor barrier substructure 30 mm 2x12,5 mm plasterboard Floor structure: Co-Working: floor covering 60 mm cavity floor system Knauf GIFAfloor FHBplus climate elevation, adjustable in height 80 mm 200 mm existing reinforced concrete ceiling 10 mm ceiling plaster Floor structure cantilever: 15 mm floor covering CompactFloor DIRECT 1.5 1.5 mm 30 mm GreenLine system slab + heating pipe MVR 15 mm slab cement-bonded IPE steel beam insulated 140 mm WLS 030 60 mm insulation WLS 030 wind & driving rain seal diffusion open 30 mm rear ventilation / substructure 15 mm facade panel fiber cement Floor structure: floor covering CompactFloor DIRECT 1.5 1.5 mm GreenLine system slab + heating pipe MVR 30 mm existing reinforced concrete ceiling 200 mm 10 mm ceiling plaster Cover plate Element facade Fa. Glass Seele connection to steel profile fall protection product: ISO shade protrusion min. 30 mm with integrated shade fastening to steel T-profile emergency drainage via joints glazing Flat channel 100/40 mm channel body open on one side Steel tongs around profile facade in split bed fastening with steel plate and connection iron (glued in) in existing reinforced concrete ceiling Lower support element facade C-beam in ceiling construction

Assembly and adjustment system element facade, adjustable

steel construction over steel sheet to connected

Air vent under ventilated facade





DETAIL: FLOORPLAN CUBE

9 Floor structure cantilever: 2x12,5mm plasterboard substructure vapor barrier IPE steel beam insulated 140 mm WLS 030 60 mm insulation WLS 030 wind & driving rain seal diffusion open 50 mm rear ventilation / substructure facade panel fiber cement Floor structure cantilever: existing reinforced concrete wall insulation WLS 030 wind & driving rain seal 30 mm rear ventilation / substructure 15 mm facade panel fiber cement Element facade Fa. Glass Seele product: ISO shade with integrated shade Cover plate reveal coating according to RAL Air vent under ventilated facade Connection to existing wall U-profile to Isokorb in reinforced concrete wall Facade expansion joint Floor expansion joint

