



Interdisciplinary Project based Design S

Project analysis

MIXED USE ARCHITECTURE, OFFICE BUILDINGS,
RESIDENTIAL - 2017 - LANDSHUT, GERMANY

Architects: Architekturbüro Leinhäupl + Neuber

Area: 1400.0 m²

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“Concrete meets Corten” Residential and Office Building

Functions

- 2 offices and 1 apartment
- Basement - underground car parking

Materials

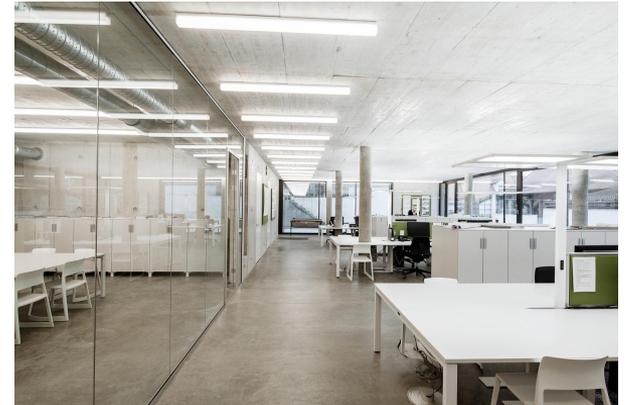
- 3-storey reinforced concrete building clad with corten steel slabs
- Ceiling and roof with concrete core activation
- Narrow and difficult building ground with 70% slope inclination

Guiding Principles

- recyclable and regional building materials
- avoidance of composite materials
- minimization of energy consumption

Orientation

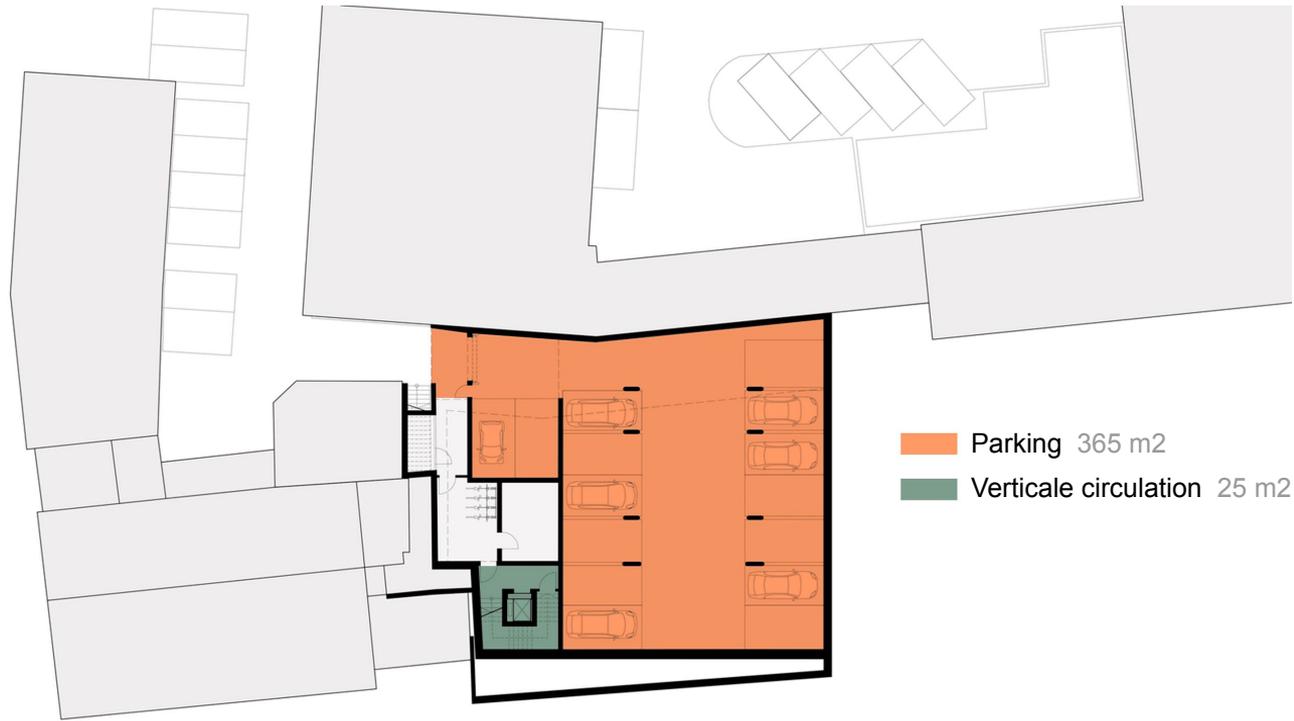
- follow different contour lines of the mountain
- adapts to the topography
- views to the old town of Landshut
- Slope water from the mountain is used for heating and cooling



Building analysis



Basement analysis



Ground floor analysis



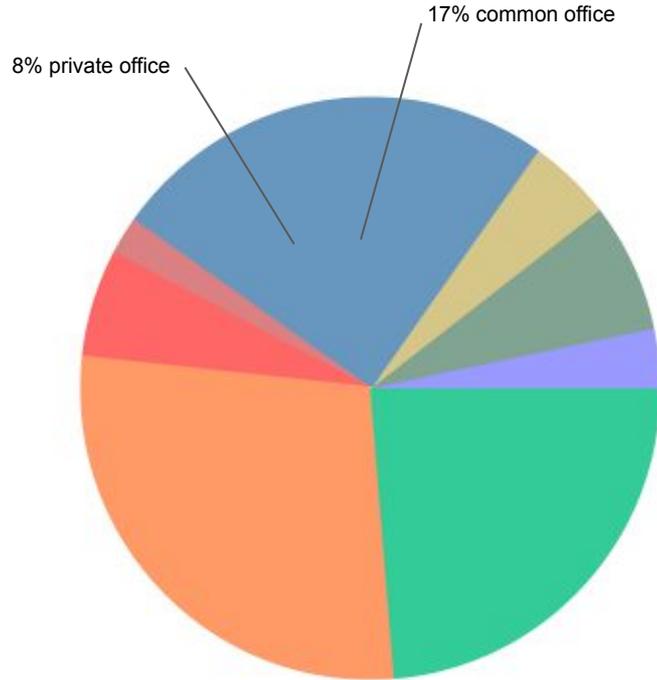
First floor analysis



Second floor analysis



Functions diagram



3.3 %
cafeteria

7.2 %
verticale circulation

4.7 %
meeting room

25 %
offices

2.1 %
bathroom

6 %
relax room

28 %
parking

23.7 %
others (print room, circulations...)

Light analysis



Light analysis



basement



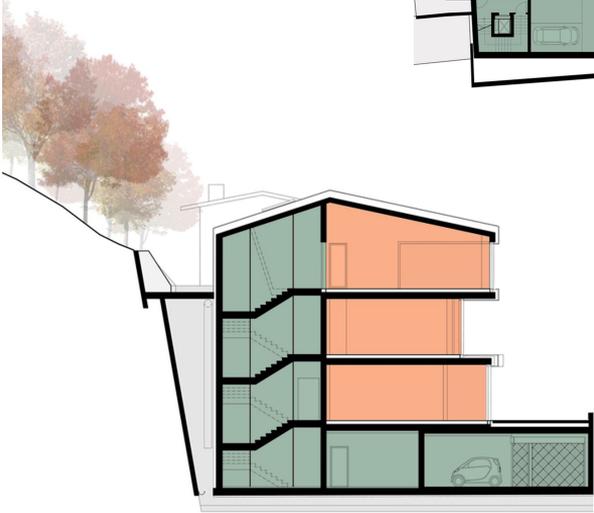
ground floor



first floor



second floor



■ Rooms without natural light
■ Rooms with natural light

Offices
Relax rooms
45 %

Parking
Bathrooms
Meeting rooms
Kitchens
Circulations
55 %

Office capacity

Minimum spaces pro worker

- 2,5- 3m high
- 2m² free surface
- 8-10m³ working space
- 1.5m between tables

Accesses

- min. 1m corridors and doors
- min. 0.8-0.9m 1 person
- min. 1.2-1.4m 2 persons
- min. 1m stairs

Parking

- min. 4.5x 2.25m each spot
- min. 2.5m corridors

Tables

- 60-72 x 60-84cm 1 person
- 60-72 x 90-126cm 2 persons
- 105-130 x 96-130cm 3 persons

Bathroom

- min. 1 bathroom (< 100m² or <10 pers.)
- min. 2 bathrooms (< 200m² or <30 pers.)
- min. 3 bathrooms (< 300m² or <40 pers.)

Cafeteria

- required for offices with more than 50 pers.

Capacity - Descaling To Site Estimations

Ground:

Cafeteria: 20m²

Meeting Rooms: 21m²

Bathroom: = 11m²

Circulation: = 25m²

Office: 125m²

Total Sqm: 202

Max Persons: 20

First Floor:

Misc Room: 25m²

Meeting Rooms: 18m²

Bathroom: = 11m²

Circulation: = 25m²

Office: 70m²

Break Room: 37m²

Total Sqm: 186

Max Persons: 18

Second Floor:

Misc Room: = 16m²

Kitchen: = 13m²

Bathroom: = 8m²

Break Room: 56m²

Office: 23m²

Total Sqm: 116

Max Persons: 11

Basement

Parking: 225m²

Circulation: 25m²

Total Sqm: 250

Max Cars: 14

OVERALL SQM: 507

OF PERSONS: 49

Thank you