



Case study building - Properties I Date: 28.06.2007
Name: Rene Hummer



Dieselweg 3-19

Registration code

Country

Period of construction

Standard

Diffusion of building type

Please note that the basic renovation unit (building or building part) that will be renovated should be described. The repetition of renovation units is acquired under "Building size".

Basic renovation unit

Detached

Attached

Integrated

Corner building

Building shape

Rectangular

Square

Structured

Irregular

Floor plan

Floor plan layout

Building structure

Frame construction

Panel construction

Partially massive constr.

Massive construction

Apartment access

Periferal staircase, double flight

Periferal staircase, single flight

Central staircase

Access gallery, internal stair

Access gallery, external stair(s)

Elevator

Roof

Flat roof No attic / empty

Low slope roof Attic space

Gable roof Living space

Hipped roof Roof terrasse

Dormers Canopy

Roof construction

Roofing material

Basement

No basement

Partial basement

Full basement

Basement partially underground

Basement partially or fully heated

Crawl space

Case study building - Properties II

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Building size

Number of blocks		9
Number of staircases per block		1
Number of floors		4
Typical room height		m 2,6
Length/width	L m 20,0	W m 10,0
Façade/volume ratio		0,4

Apartment size

	Number	Rooms	Bath	m2
Appartments	54	3,0	1	52
Appartments	27	2,5	1	32
Appartments	18	4,0	1	65
Total (all blocks)	99	10	3	149

Façades

Façade construction	masonry
Façade finish	plaster

Windows

	% of façade	U-value	Sun-shading
South	23%	W/(m2K) 2,4	<input checked="" type="checkbox"/>
West	0%	W/(m2K) 2,4	<input type="checkbox"/>
North	23%	W/(m2K) 2,4	<input checked="" type="checkbox"/>
East	0%	W/(m2K) 2,4	<input type="checkbox"/>





Dominant window types

Front façade	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Back façade	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Floor slabs

Top floor slab	wowden beam slab
Standard floor slabs	hollow brick slab

Balconies

<input type="checkbox"/>	<input checked="" type="radio"/> none		<input checked="" type="radio"/> regular
<input type="checkbox"/>	<input type="radio"/> integrated		<input type="radio"/> irregular
<input type="checkbox"/>	<input type="radio"/> partially exposed	<input checked="" type="checkbox"/> thermal bridge	<input type="checkbox"/> "hanging"
<input type="checkbox"/>	<input type="radio"/> exposed		<input checked="" type="radio"/> supported
<input type="checkbox"/>	<input type="radio"/> full length		

Heating

- Central heating, radiator heating
- Central heating, floor heating
- Central air heating
- Individual apartment heating
- Individual room heating (electric)
- Individual room heating (oil / gas / wood / coal)

Ventilation

- None, natural ventilation only
- Exhaust air system, natural (stack ventilation)
- Exhaust air system, mechanical (bathrooms)
- Exhaust air system, mechanical (kitchen)
- Exhaust air, mechanical, bath and kitchen
- Mechanical ventilation (supply/exhaust airtr)

Hot water

- Central hot water, single pipe system
- Central hot water, circulation pipe system
- Individual hot water tanks (electric)

- Individual boilers (electric)
- Individual boilers (gas)
- Central solar system



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Case study building - Urban context



Address

Rent

Orientation

No spec. orientation
 N-S NW-SE
 NE-SW E-W

Urban situation

Detached building in inhomogeneous neighbourhood
 Detached building in homogeneous neighbourhood
 Block development in homogeneous neighbourhood

View

Front / Back

Flat Top view only
 Slope Good view
 Slope Green Garden view
 Slope No view

Neighbourhood

Public transportation
 Shops, services, centre
 Play grounds, sport
 Schools

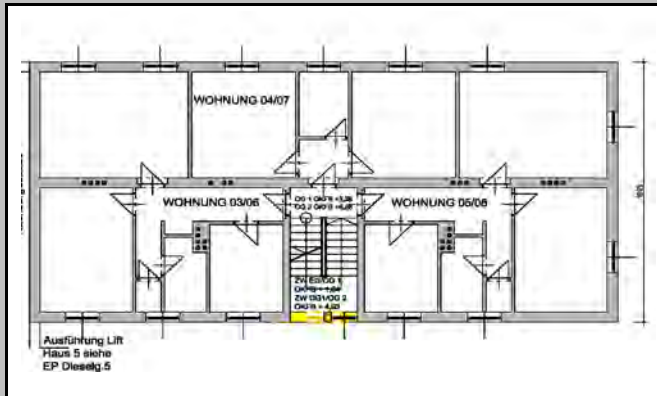
Environment

Quality of neighbourhood
 Air pollution, emissions
 Outdoor noise level



Case study buildings - Renovation needs / options

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General information on retrofit situation

Head demand before retrofit is HWB=143 kWh/m²a
 (calculated with PHPP)

Façade options

- Compact insulation
- Blow in fibres
- Ventilated insulation
- Prefab module

- Living room extension: possible
- Kitchen extension: possible
- Bath room extension: possible
- New, seperate balconies: possible
- New elevator (external): possible
- New elevator (internal): possible

Roof options and additions

- Roof panels
- Flat roof panels
- Attic space module
- Attic space module

- With canopy
- Without canopy
- Dormers
- Access to attic / roof level
- Roof terrasse

Actual state of building components

- Walls/ceilings: used up
- Floors: used up
- Windows: used up /untight
- Façade: used up
- Roof: used up

Actual state of installations

- Piping system: used up
- Electrical system: old
- Ventilation: none
- Kitchen: used
- Bathroom: used

Additional Renovation measures

- Kitchen: no renovation
- Bathroom: no renovation
- Staircase(s): no renovation

- Living and bedrooms: no renovation
- Windows: no renovation
- Floorings: new wood floors