

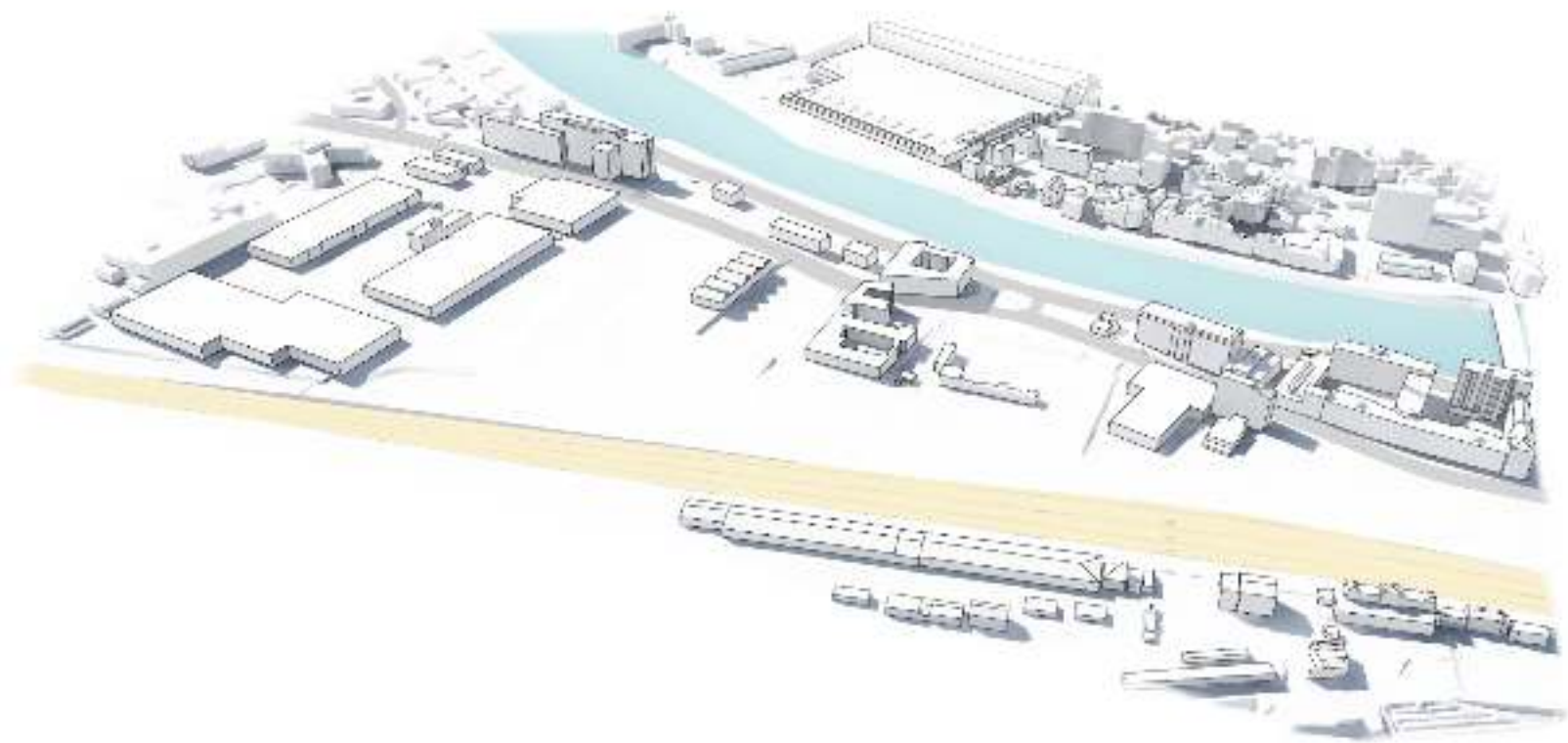


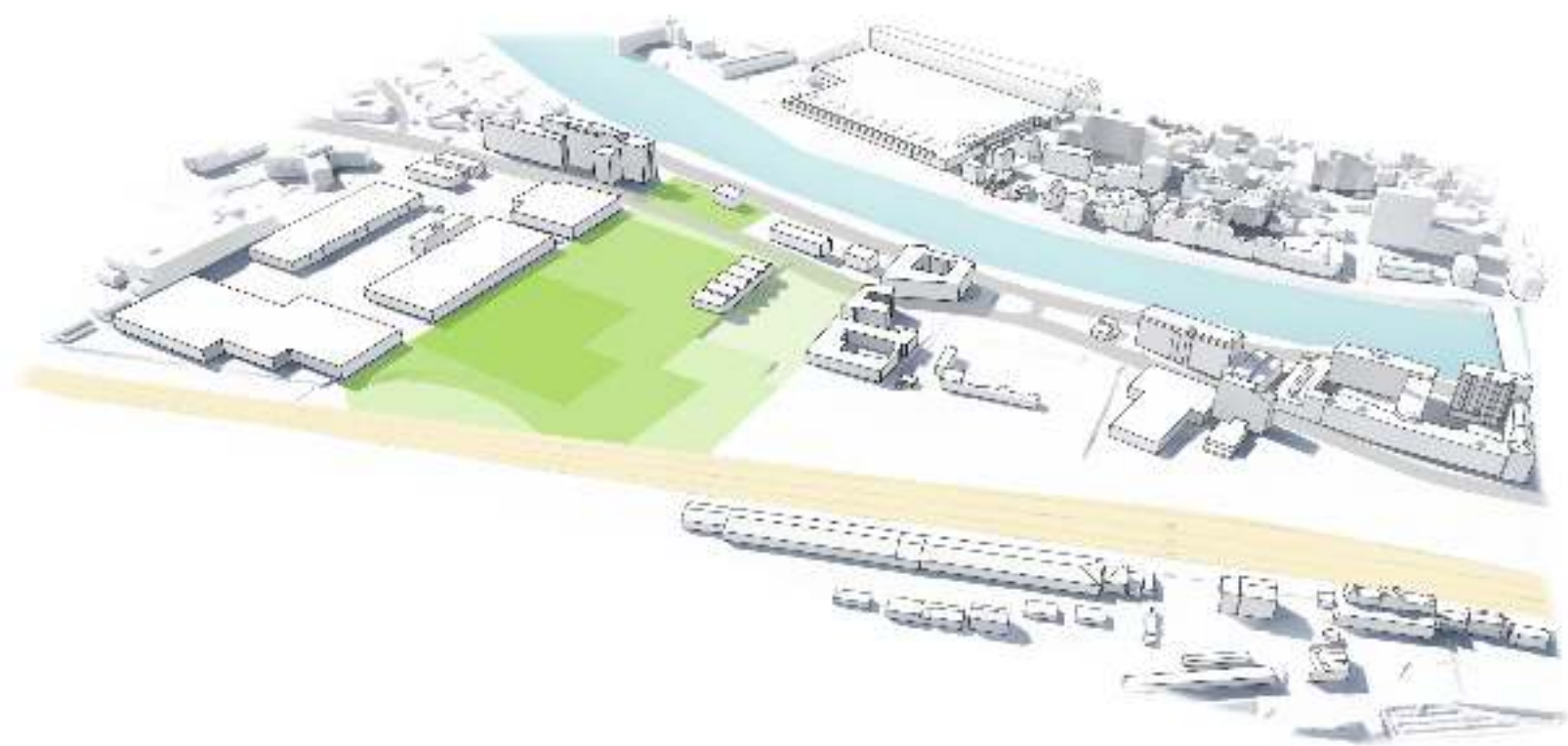
SAINT-DENIS 2021
MULTI COMFORT STUDENT CONTEST

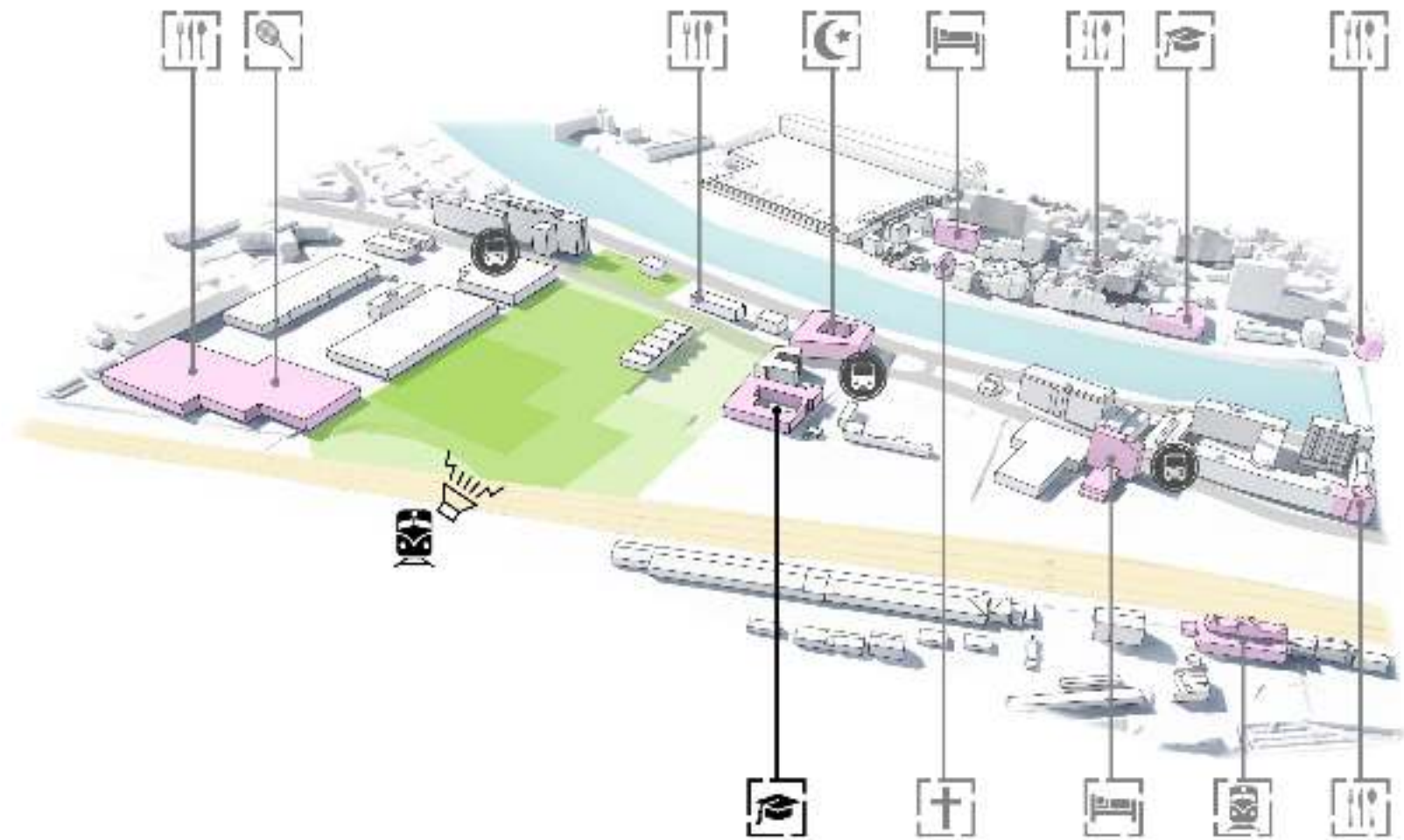
TAURI TAMME | ELIS MÄRK

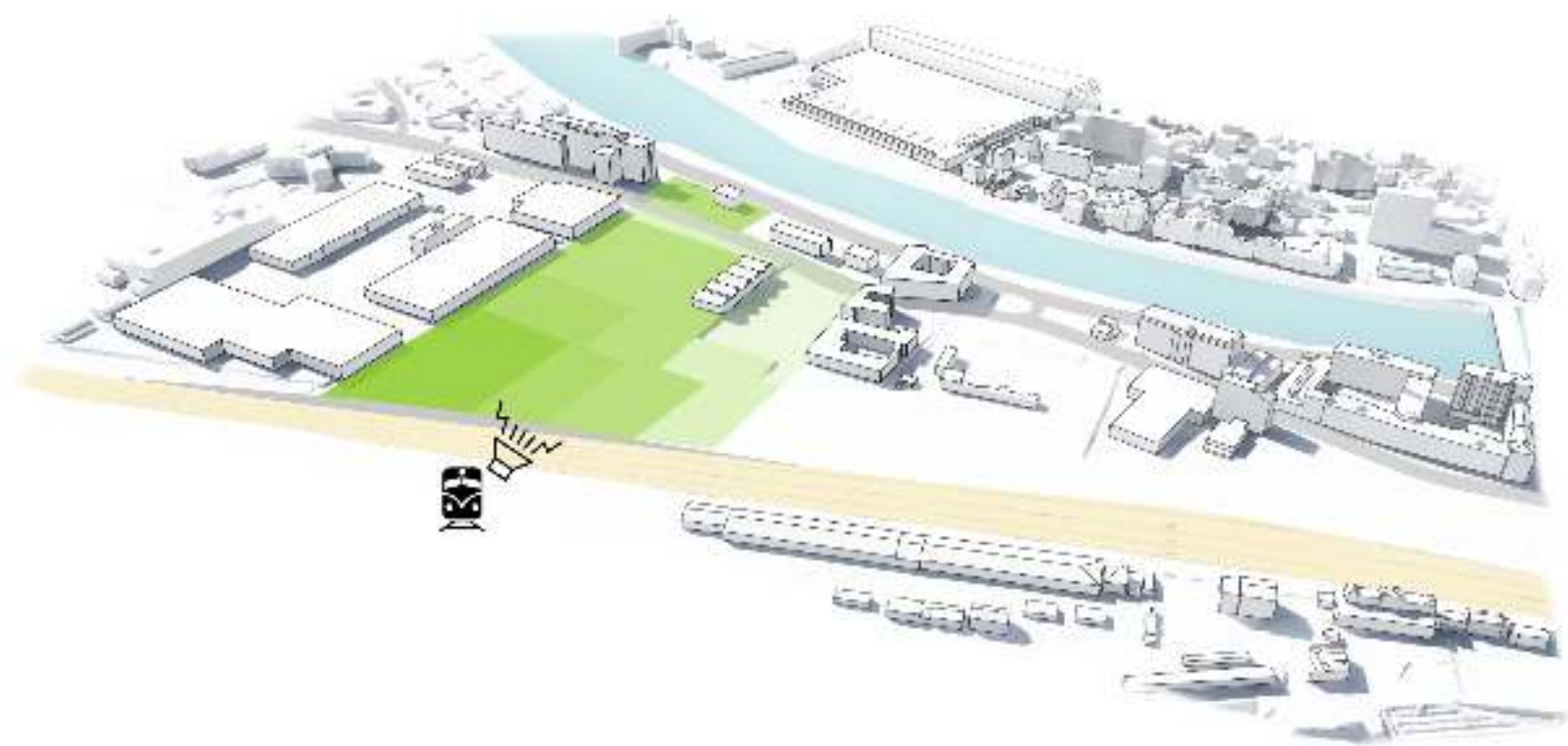
TUTORS: IRINA RAUD, EMIL URBEL, JAAN KUUSEMETS

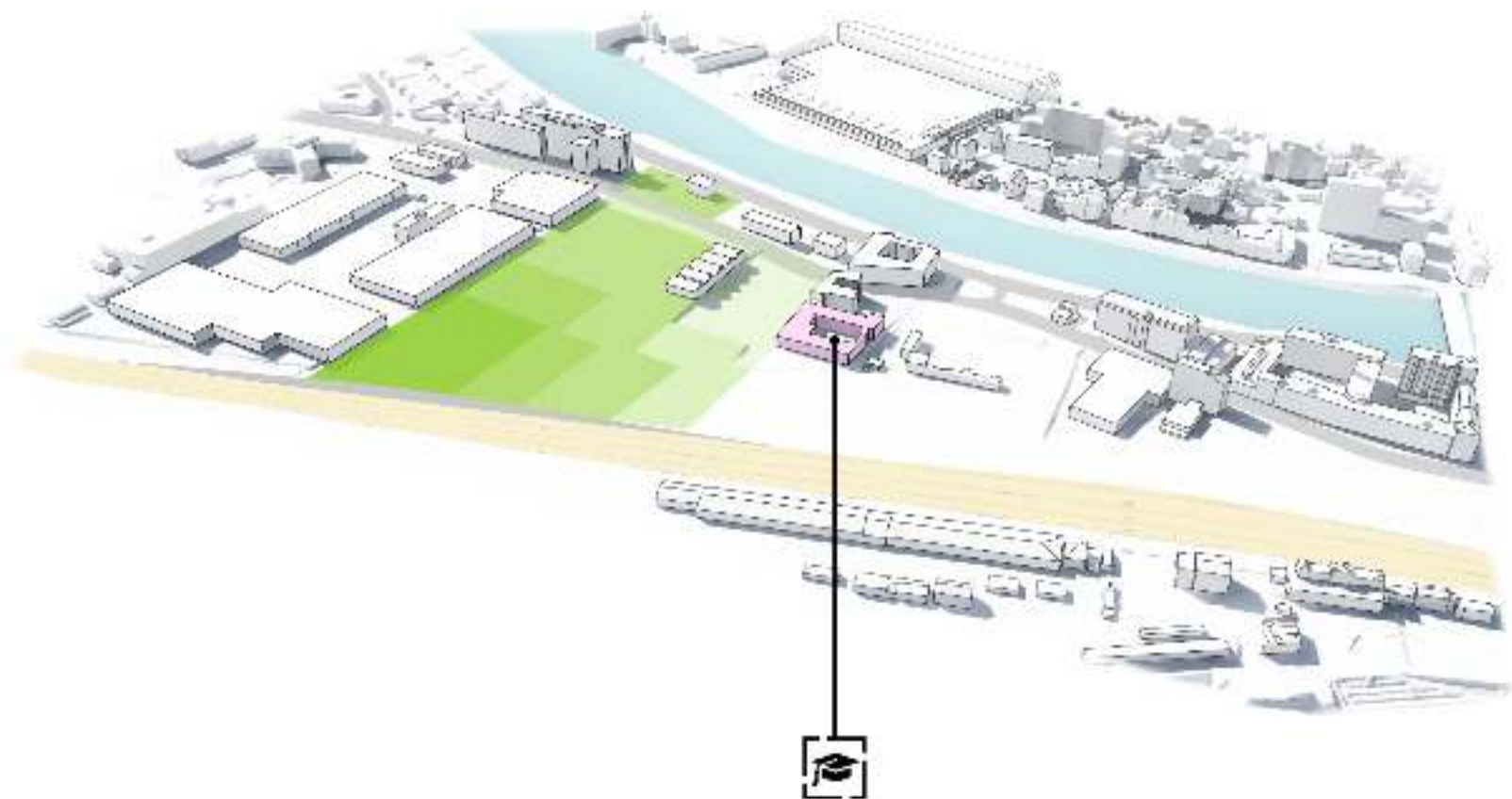


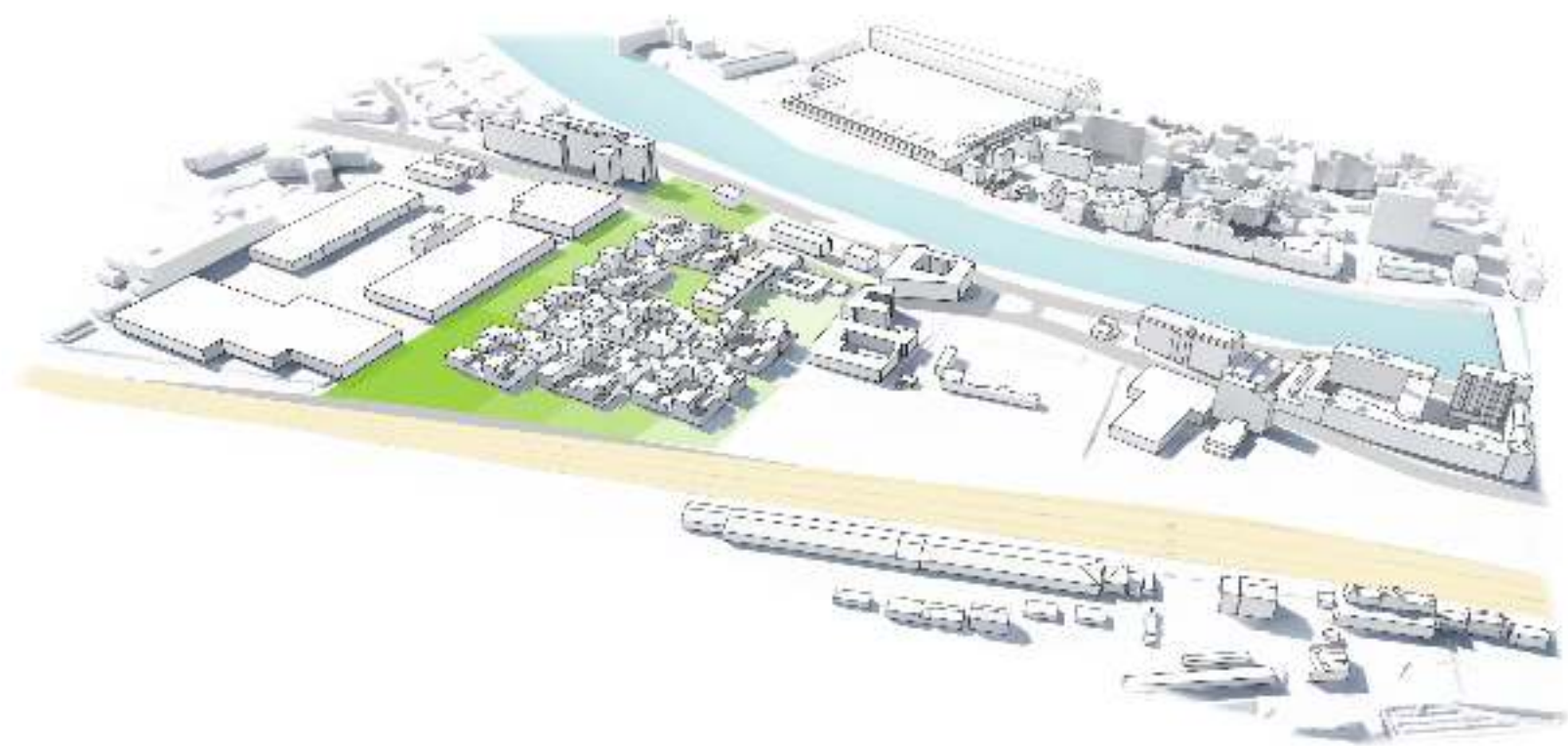


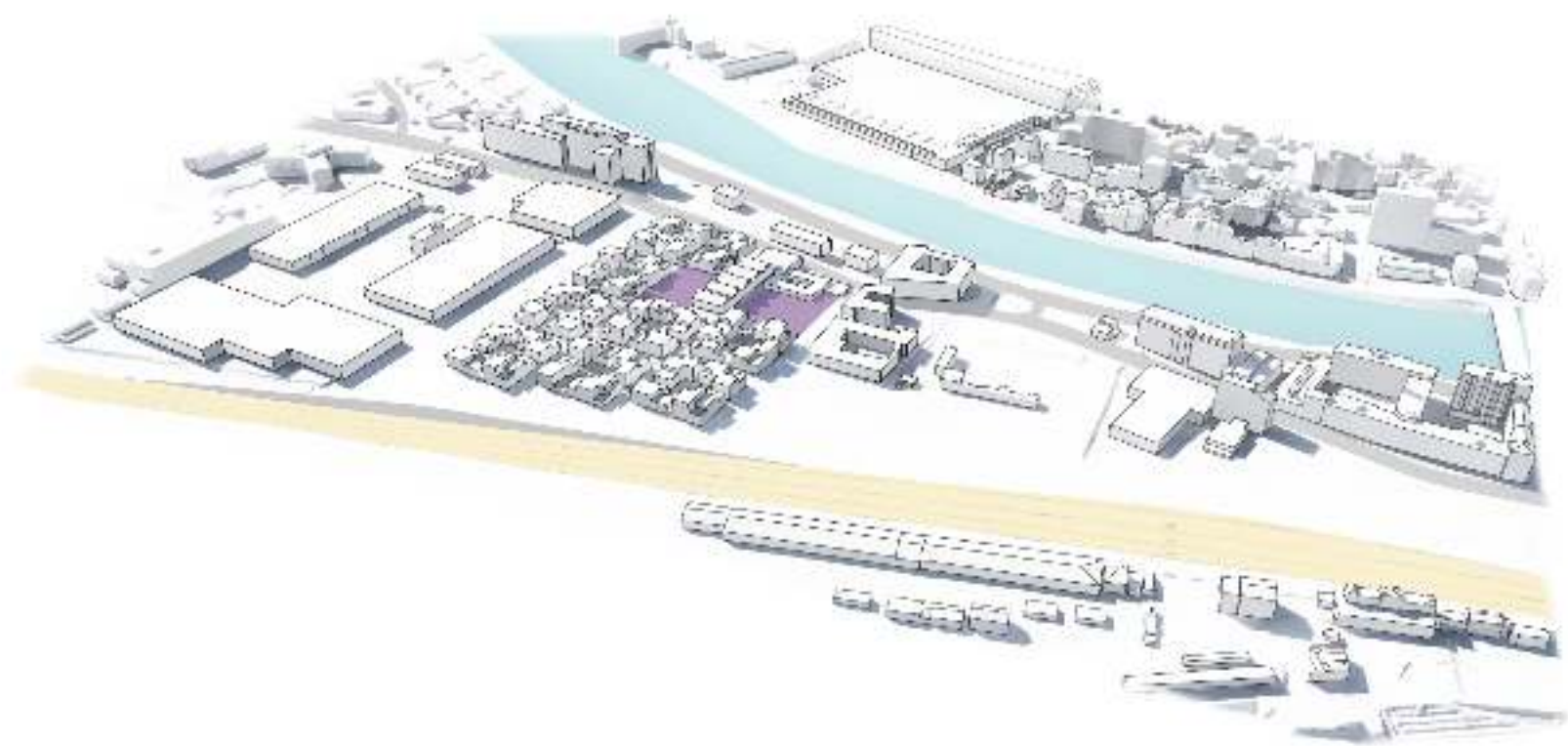


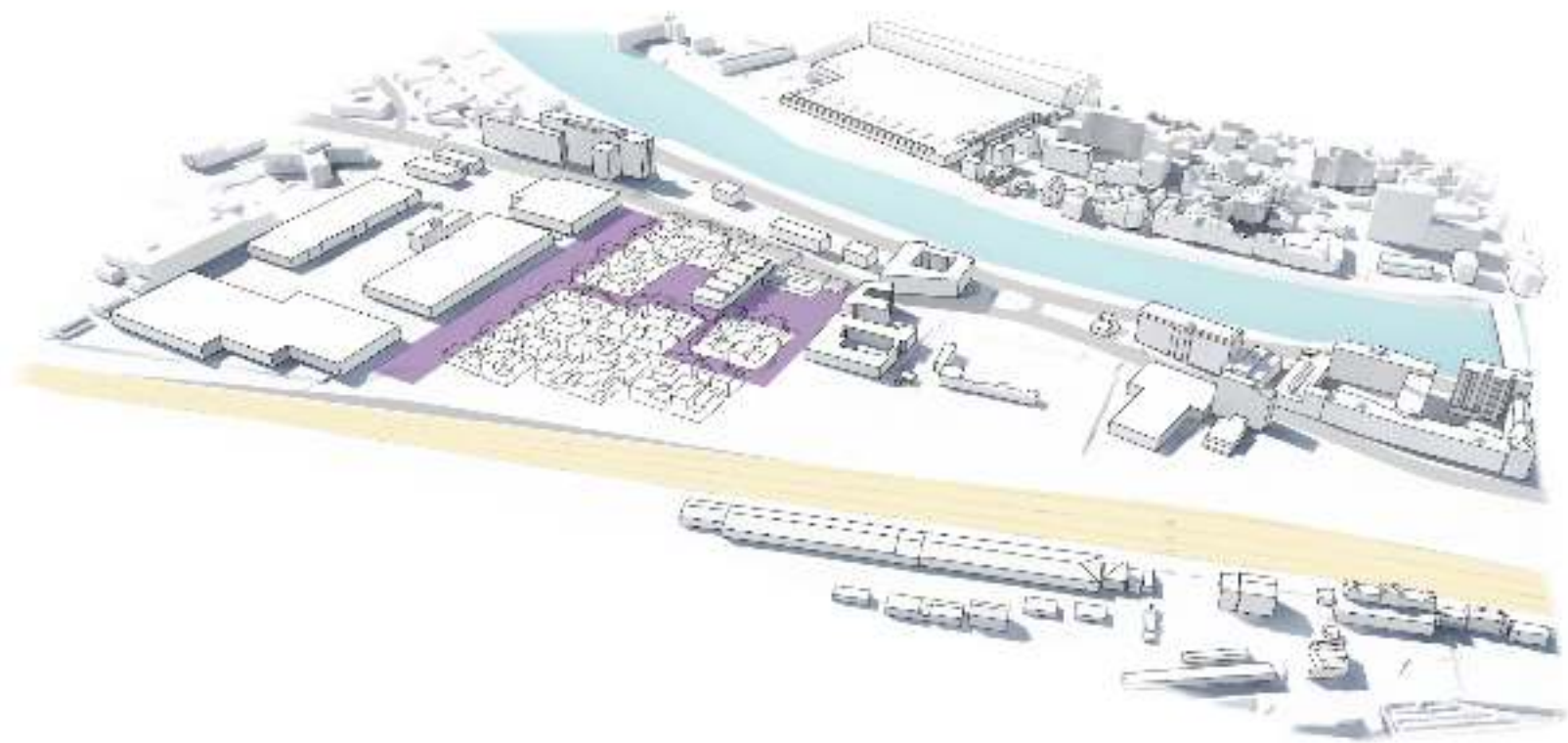


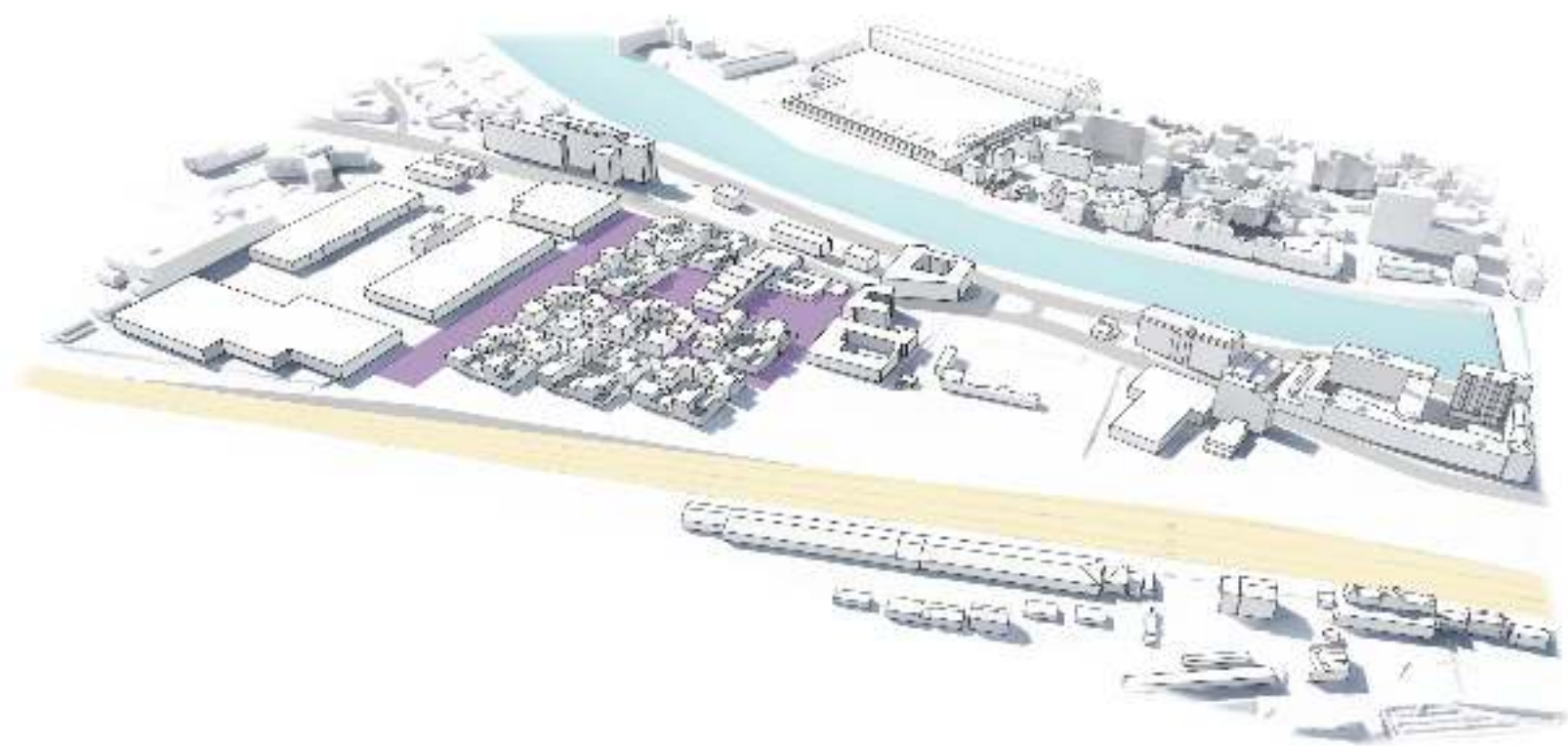


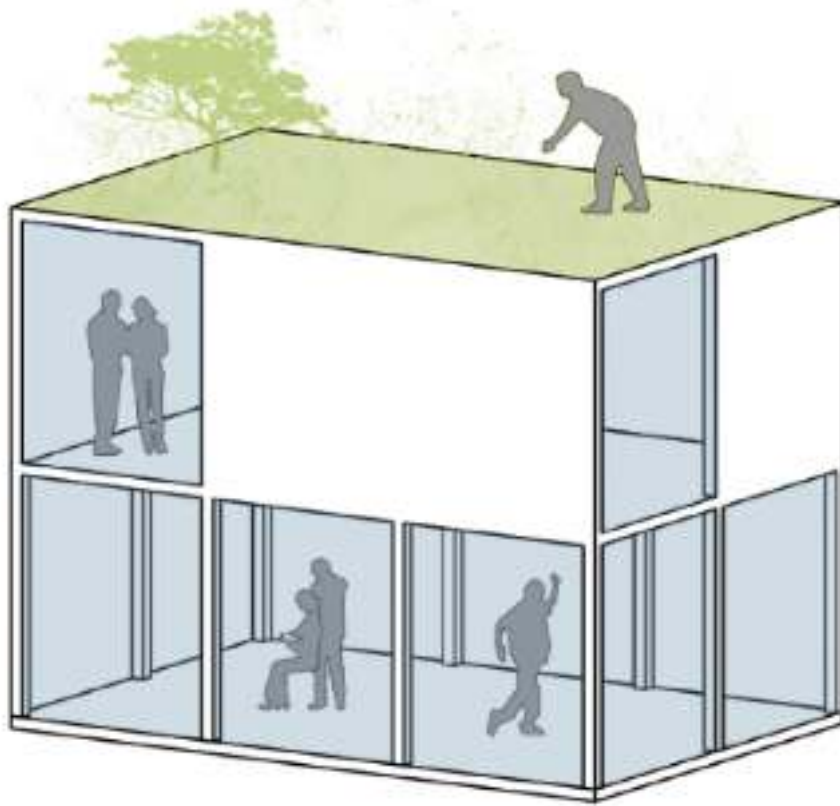




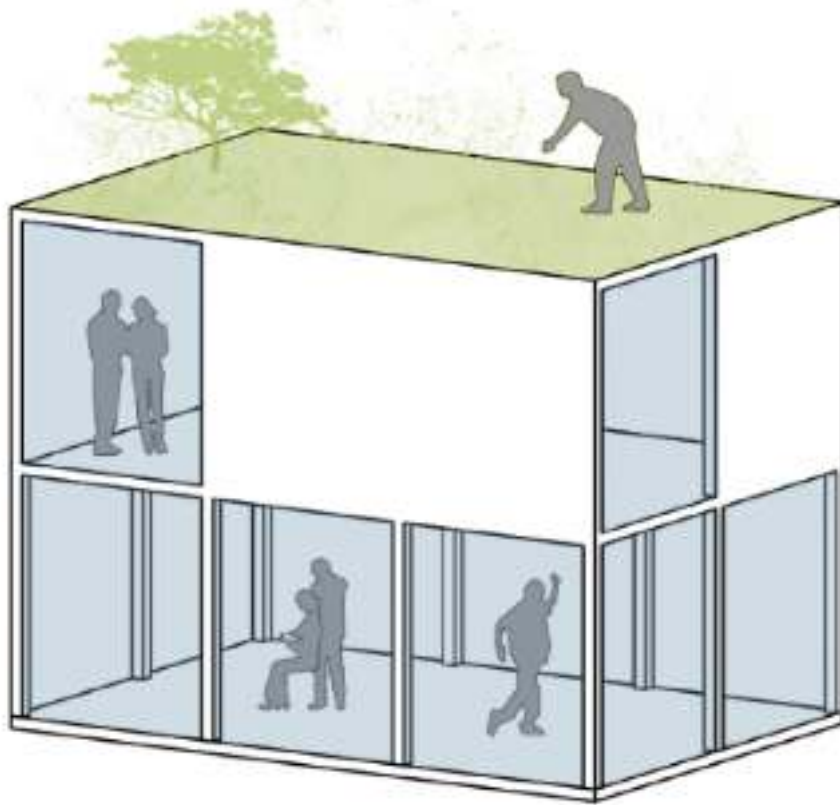






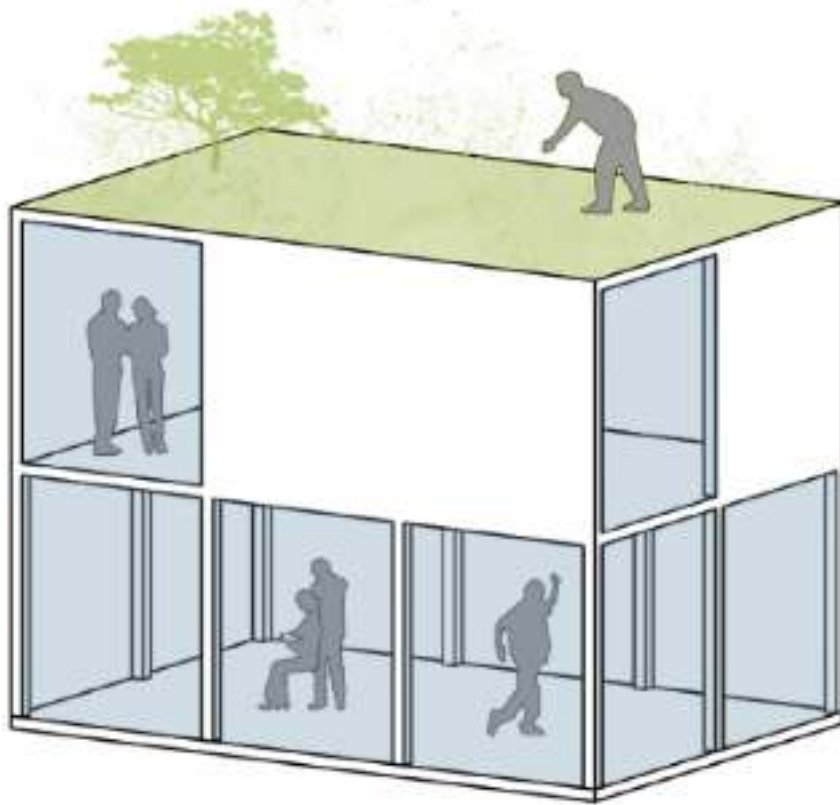


STUDIOS



APARTMENTS

STUDIOS



GARDENS

APARTMENTS

STUDIOS











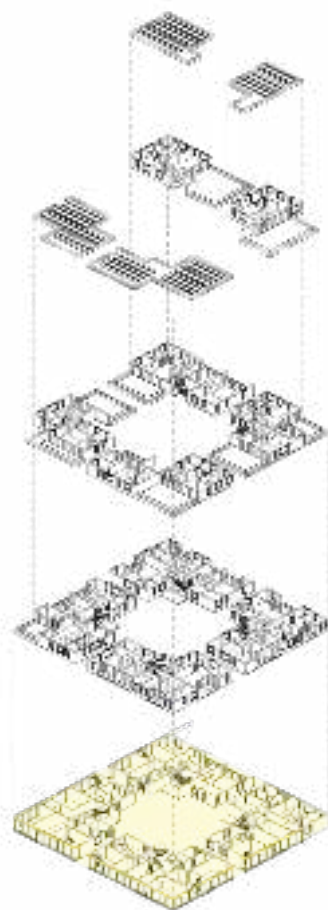














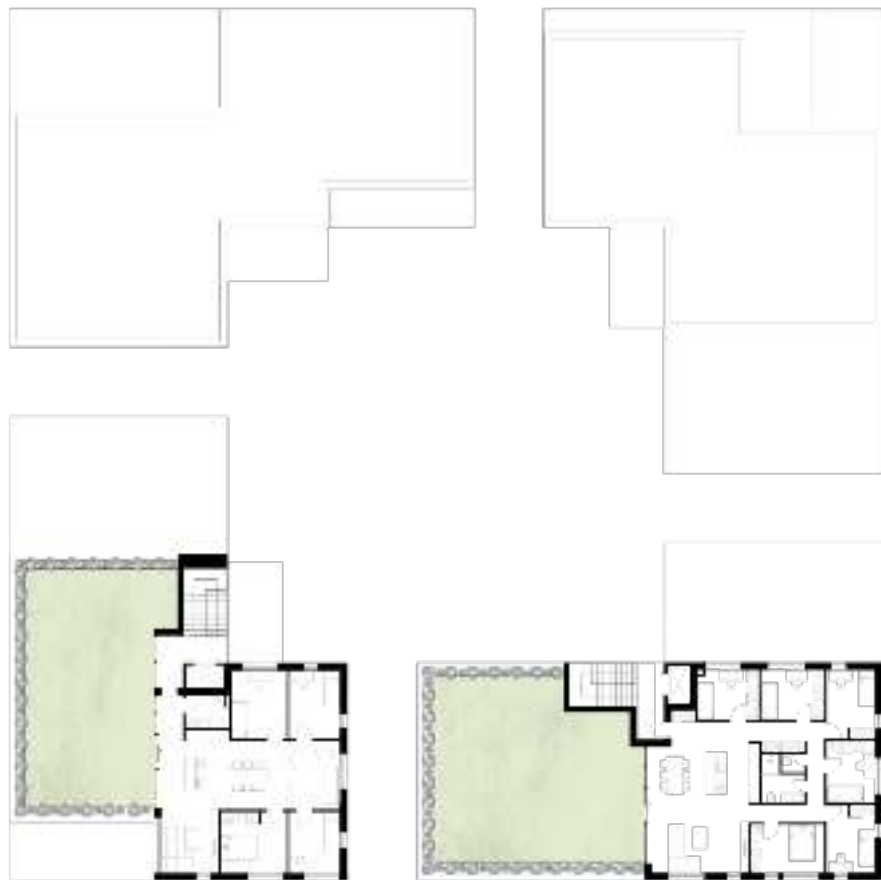


2nd floor



3rd floor

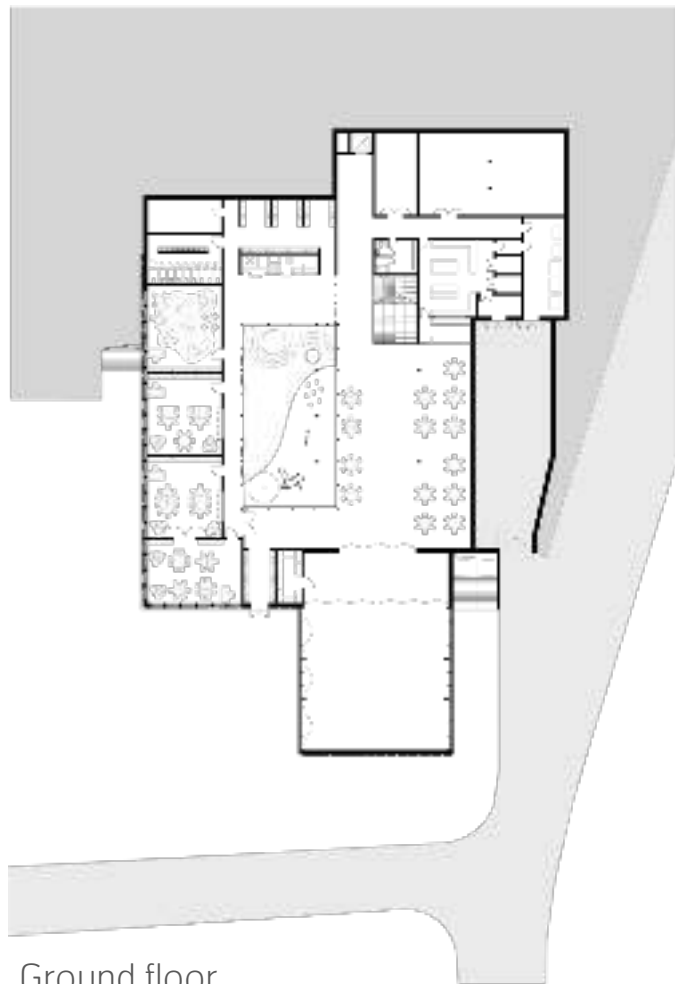




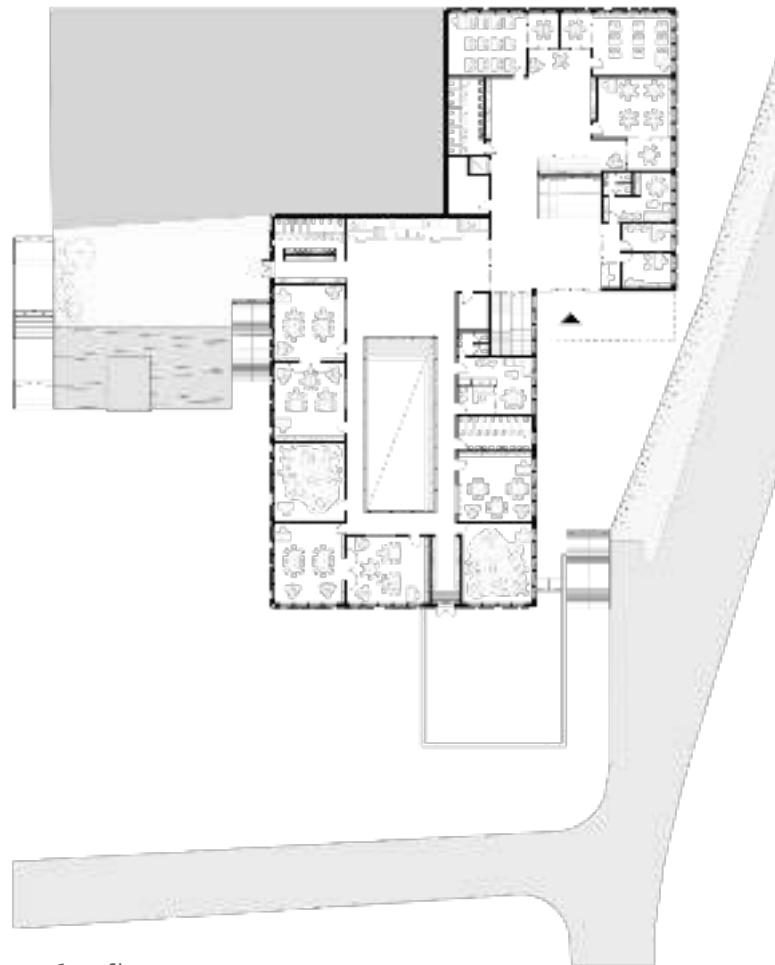
4th floor





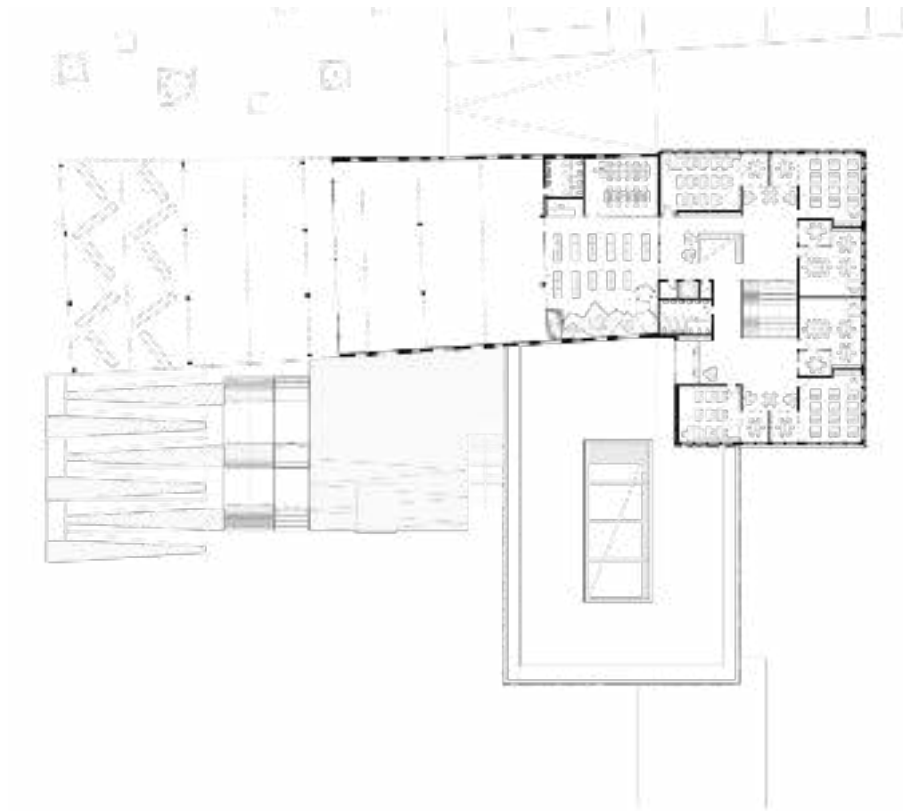


Ground floor



1st floor

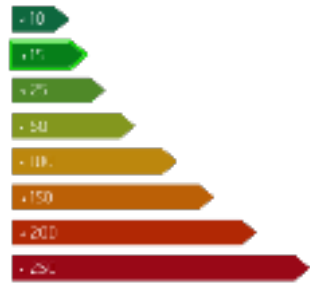




2nd floor

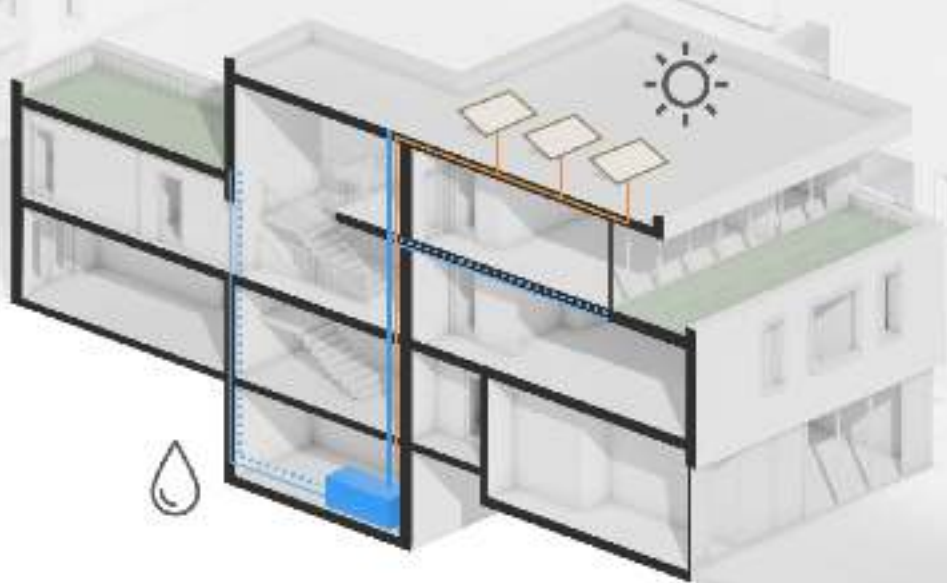


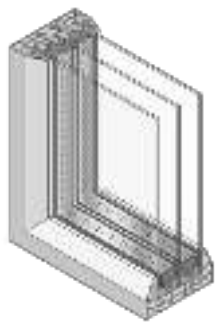
TECHNICAL SOLUTIONS



Specific heat demand
Specific cooling demand

13,83 kWh/(m²a)
13,52 kWh/(m²a)





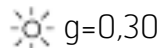
SOUTH AND WEST SIDE WINDOWS



① Planiclear 8mm
Cool-Lite XTREME 70/33

② Planiclear 4mm

Eclaz
Planiclear 6mm
PVB standard (2x0,38mm)
Planiclear 6mm



$g=0,30$



$U_g=0,5 \text{ W/m}^2\text{K}$



$R_w(C)=47 \text{ dB}$

③ Planiclear 8mm
Cool-Lite XTREME 70/33

Vision-Lite II
Diamant 6mm
Vision-Lite II

Eclaz
Planiclear 6mm
PVB standard (2x0,38mm)
Planiclear 6mm



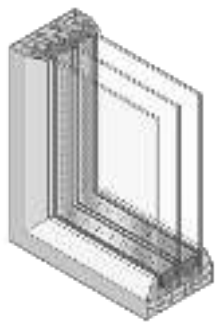
$g=0,32$



$U_g=0,5 \text{ W/m}^2\text{K}$



$R_w(C)=46 \text{ dB}$



NORTH AND EAST SIDE WINDOWS



① Planiclear 8mm
Cool-Lite SKN 183

② Planiclear 4mm

Eclaz
Planiclear 6mm
PVB standard (2x0,38mm)
Planiclear 6mm

☀ $g=0,37$

🔊 $U_g=0,5 \text{ W/m}^2\text{K}$

🔊 $R_w(C)=47 \text{ dB}$

③ Planiclear 8mm
Cool-Lite XTREME 70/33

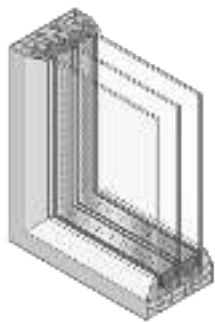
Vision-Lite II
Diamant 6mm
Vision-Lite II

Eclaz
Planiclear 6mm
PVB standard (2x0,38mm)
Planiclear 6mm

☀ $g=0,32$

🔊 $U_g=0,5 \text{ W/m}^2\text{K}$

🔊 $R_w(C)=46 \text{ dB}$

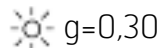


SCHOOL WINDOWS

4 Planiclear 8mm
Cool-Lite XTREME 70/33

Planiclear 4mm

Eclaz
Planiclear 6mm
PVB standard (2x0,38mm)
Planiclear 6mm



$g=0,30$



$U_g=0,5 \text{ W/m}^2\text{K}$



$R_w(C)=47 \text{ dB}$

5 Planiclear 8mm
Cool-Lite SKN 154

Planiclear 6mm

Eclaz
Planiclear 6mm
PVB standard (2x0,38mm)
Planiclear 6mm



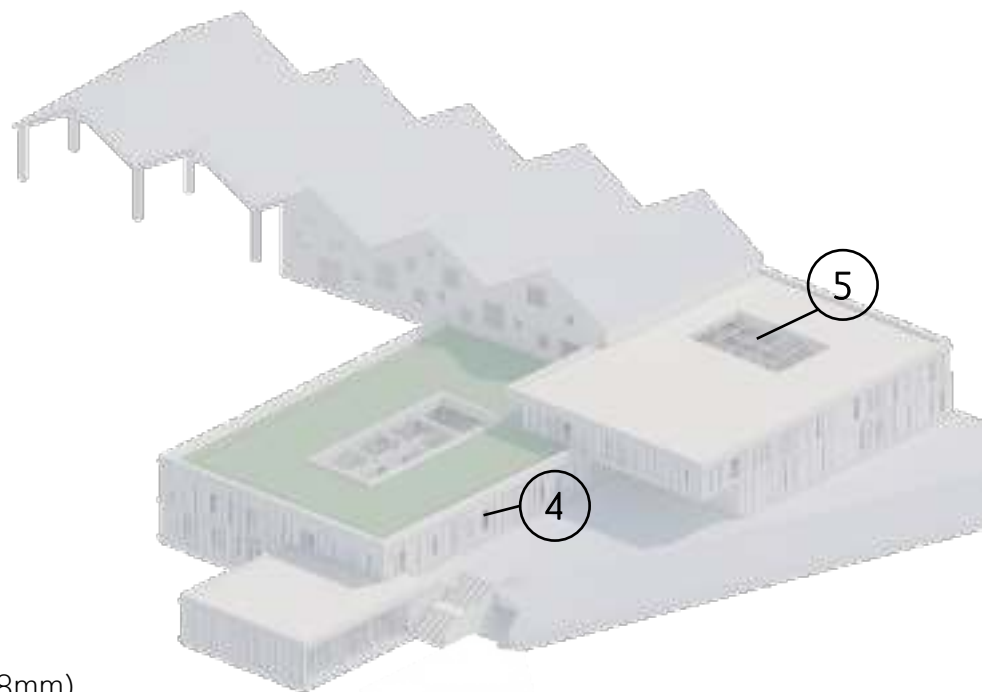
$g=0,26$



$U_g=0,8 \text{ W/m}^2\text{K}$



$R_w(C)=43 \text{ dB}$



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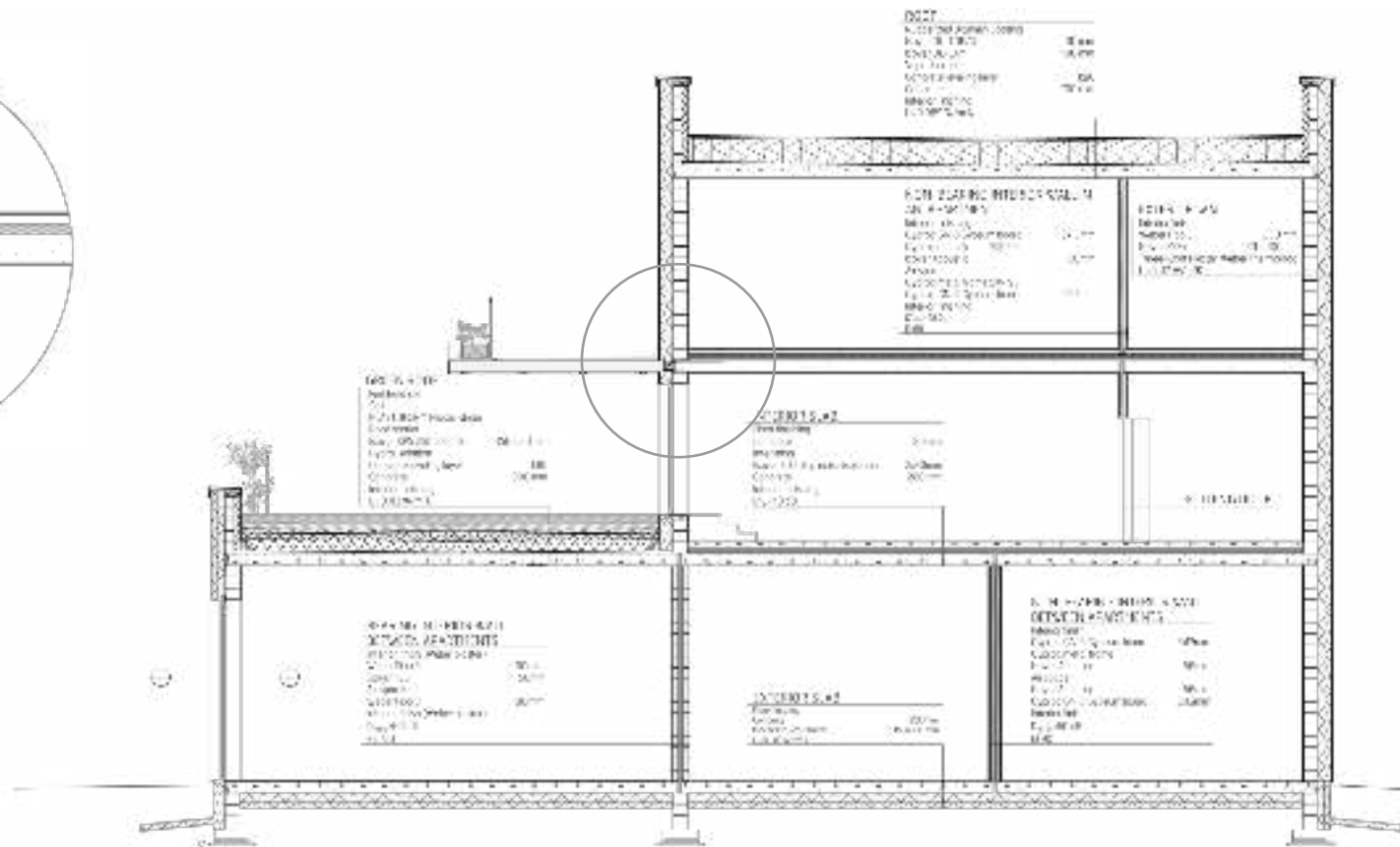
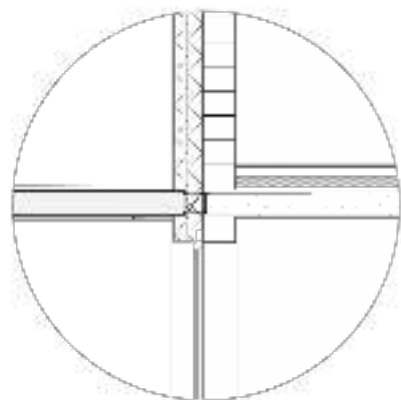
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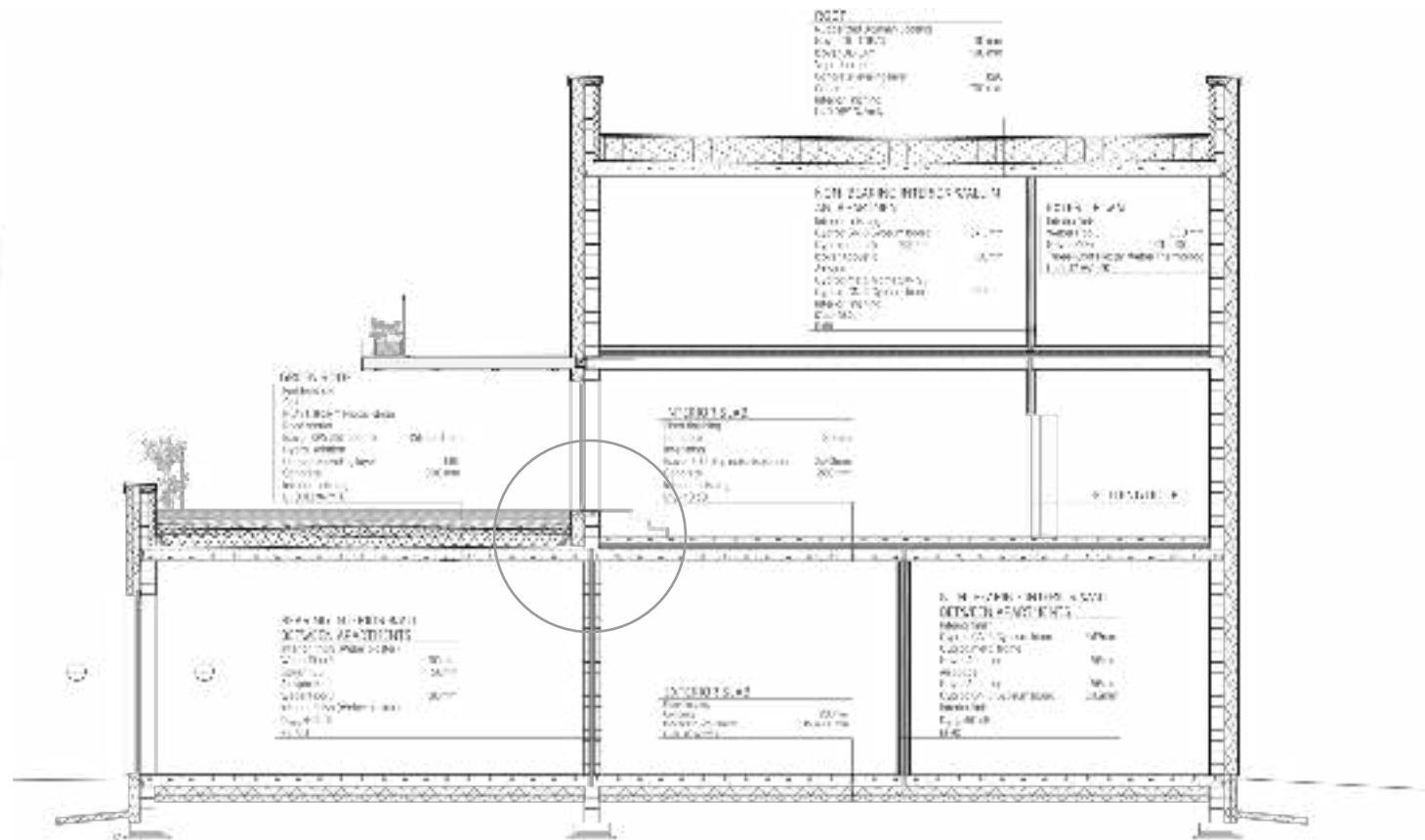
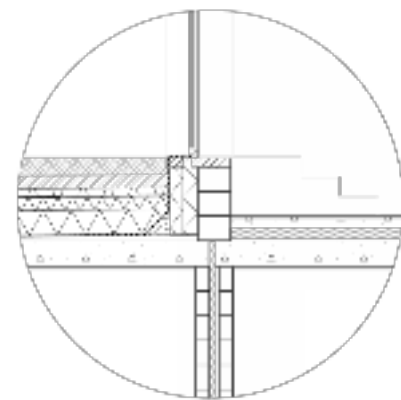
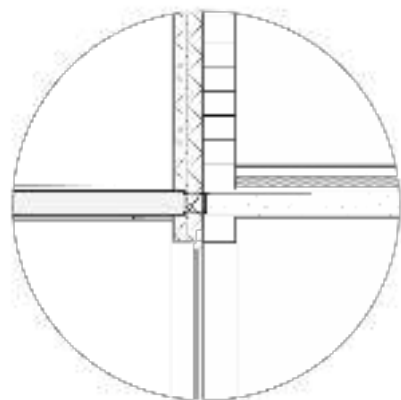
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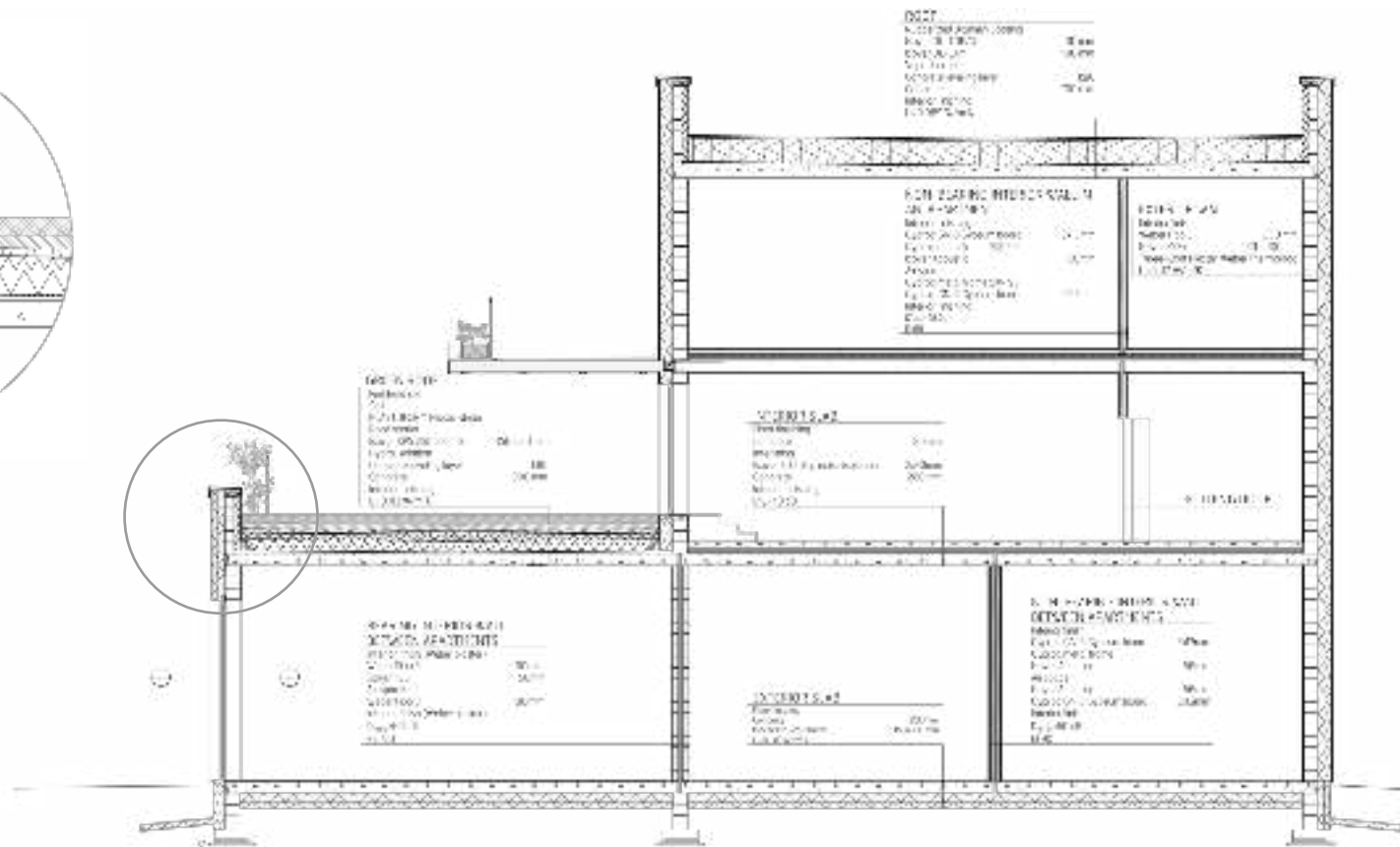
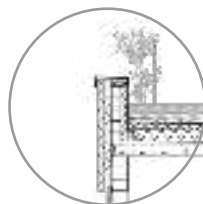
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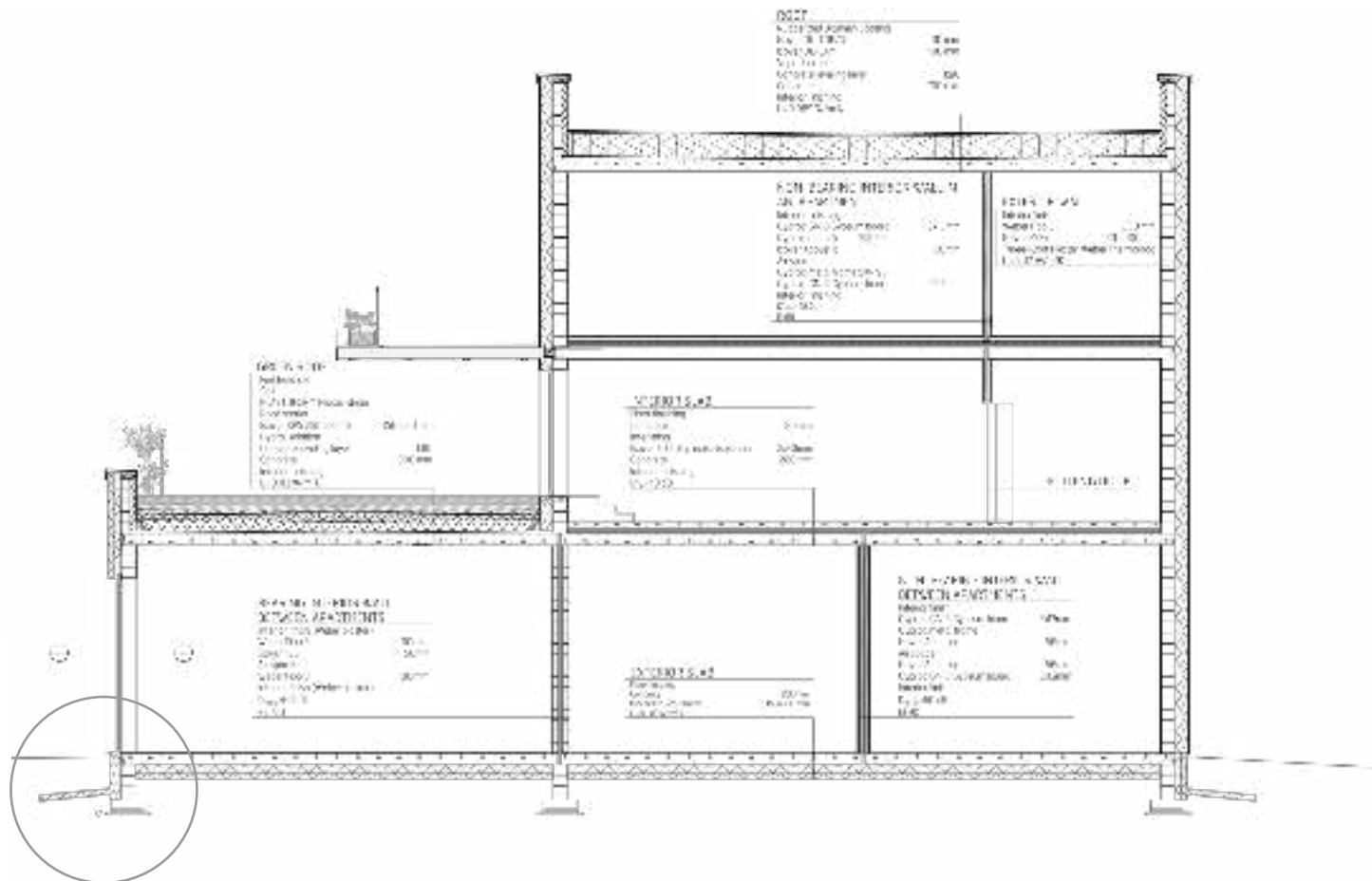
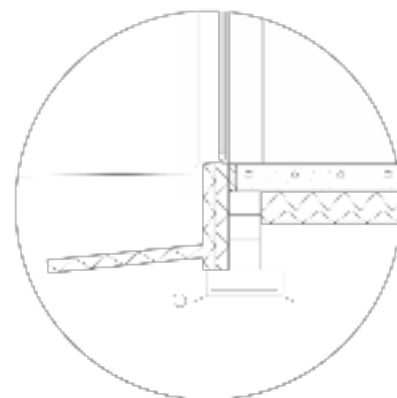
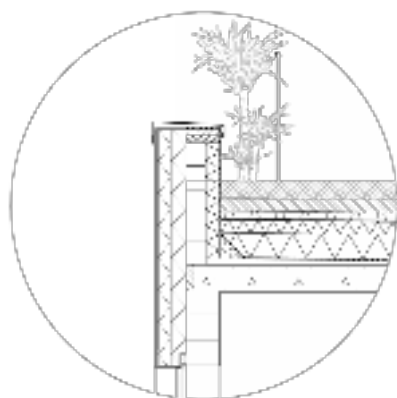
INSTRUCTIONS	
First name _____	
Last name _____	Room _____
Section number _____	Block time _____
E-mail address _____	

[illegible]











THANK YOU!

