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The Lasting Notion of Street: Vary, Adapt, Engage. Transforming Eilandenbuurt Apartments

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The Lasting Notion of Street

Urban Ideology



"street as public domain" Influencer of Witteveen.

H.P. Berlage

The planner



Head of Rotterdam city planning 1924-1945 City planner of Eilandenbuurt.

W.G. Witteveen

The architect



Architect of Eilandenbuurt housing projects 1939-1941. Institutionized post-war reconstruction and housing in Rotterdam

J.H. Van den Broek

Architectural Ideology



Van den Broek & Bakma

Key architects in Dutch Modernism.

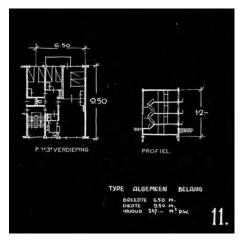
Urban Ideology



The Plan



The Architecture



Architectural Ideology



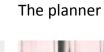
Berlage's visualization of plan for Amsterdam Zuid

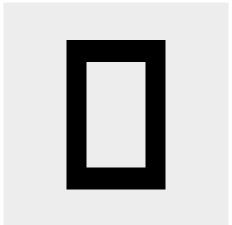
Witteveen's revised plan for Rotterdam Zuid 1926

Concept of Eilandenbuurt minimal housing 1938-40

Plan of Tarwewijk (part of Eilanden -buur project 1940)

Block



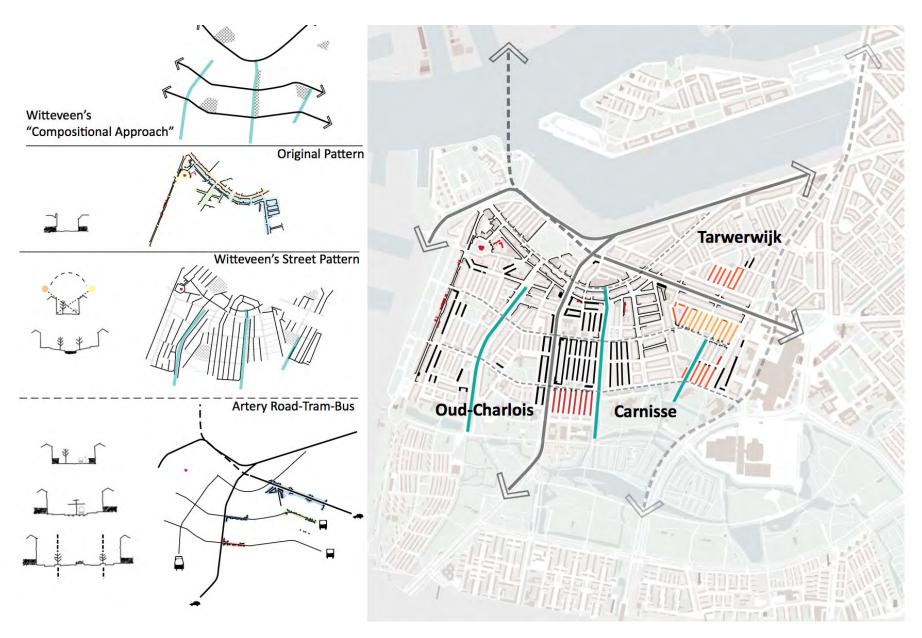




W.G. Witteveen

Head of Rotterdam city planning 1924-1945 City planner of Eilandenbuurt.

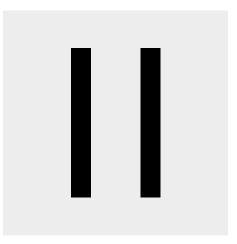
Compositional Approach Planning



The architect



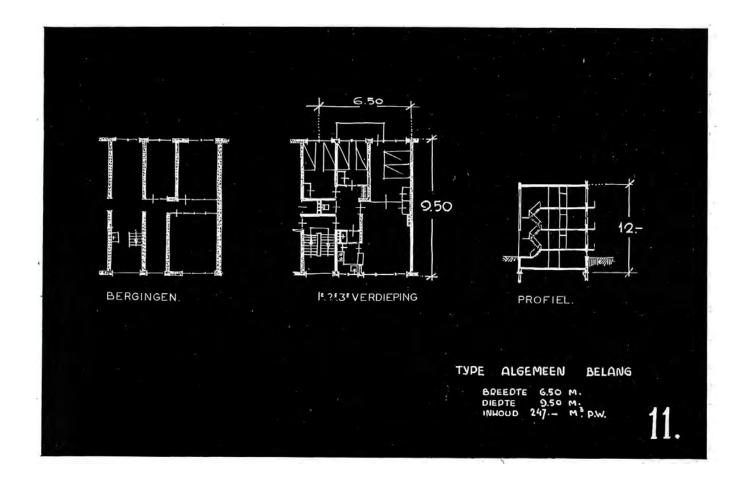
Stripe



J.H. Van den Broek

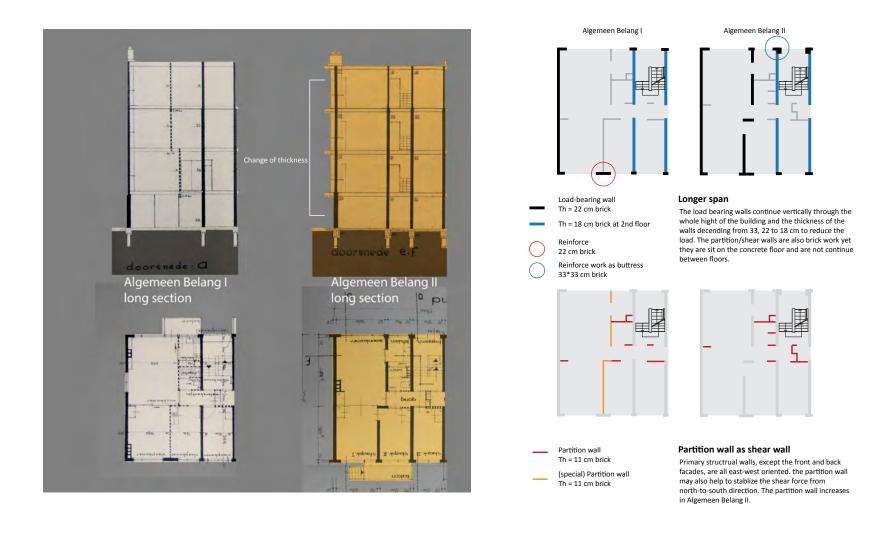
Architect of Eilandenbuurt housing projects 1939-1941. Institutionalized post-war reconstruction and housing in Rotterdam

Standardize, Institutionalize

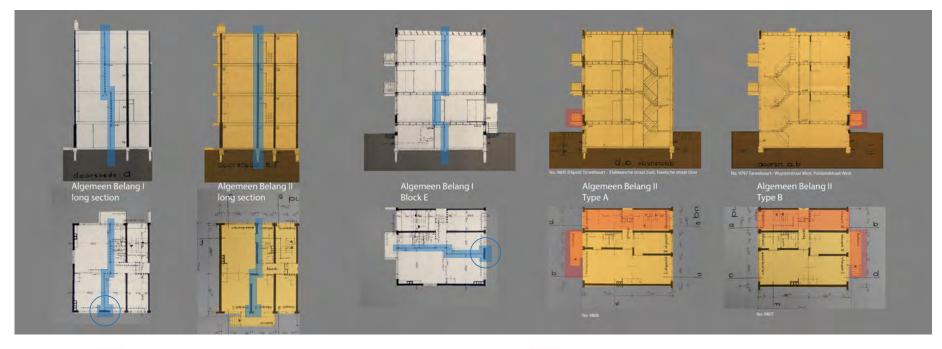


Van Tijen en Maaskant; Brinkman en van den Broek. Woonmogelijkheden in het Nieuwe Rotterdam. 1941.

Reversible floor plan



Experiment 1938 - 1941





Partition wall, align or not

In the first project one of the types the relation between balcony and kitchen is fixed, so the partition wall can not be aligned vertically. Partition wall between kitchen and living room are not load bearing. The technical difficulty is higher and it is not continued in the second project

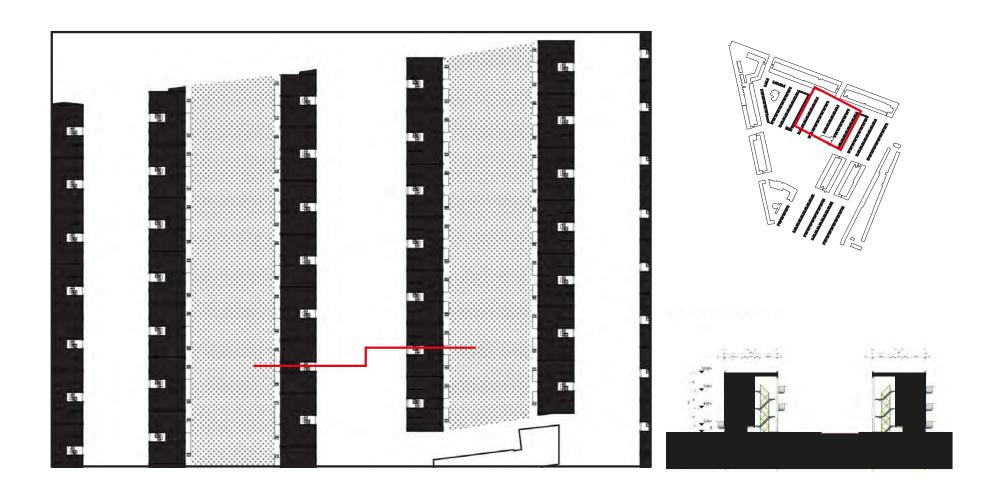


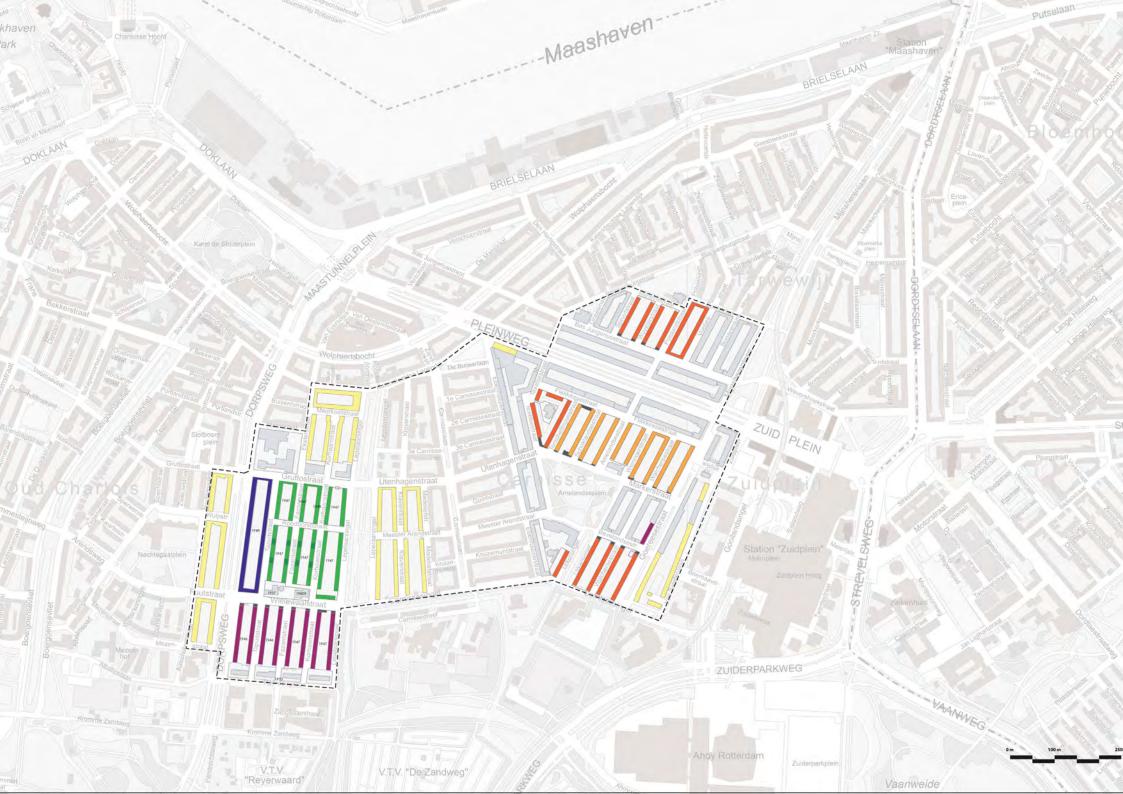
This part of wall is evident on the facade as yellowish stucco is applied.



Fixed structure and mirrored layout

The relationship between balcony and kitchen are not fixed. The orientation of portiek staircase become the moving parts in response to the side of street. In these solution the two types share the same load bearing wall structure.









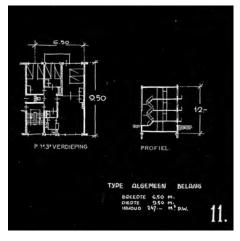
Urban Ideology



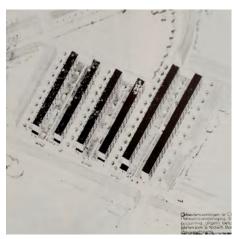
The Plan



The Architecture



Architectural Ideology



Berlage's visualization of plan for Amsterdam Zuid

Witteveen's revised plan for Rotterdam Zuid 1926 Concept of Eilandenbuurt minimal housing 1938-40

Plan of Tarwewijk (part of Eilanden -buur project 1940)



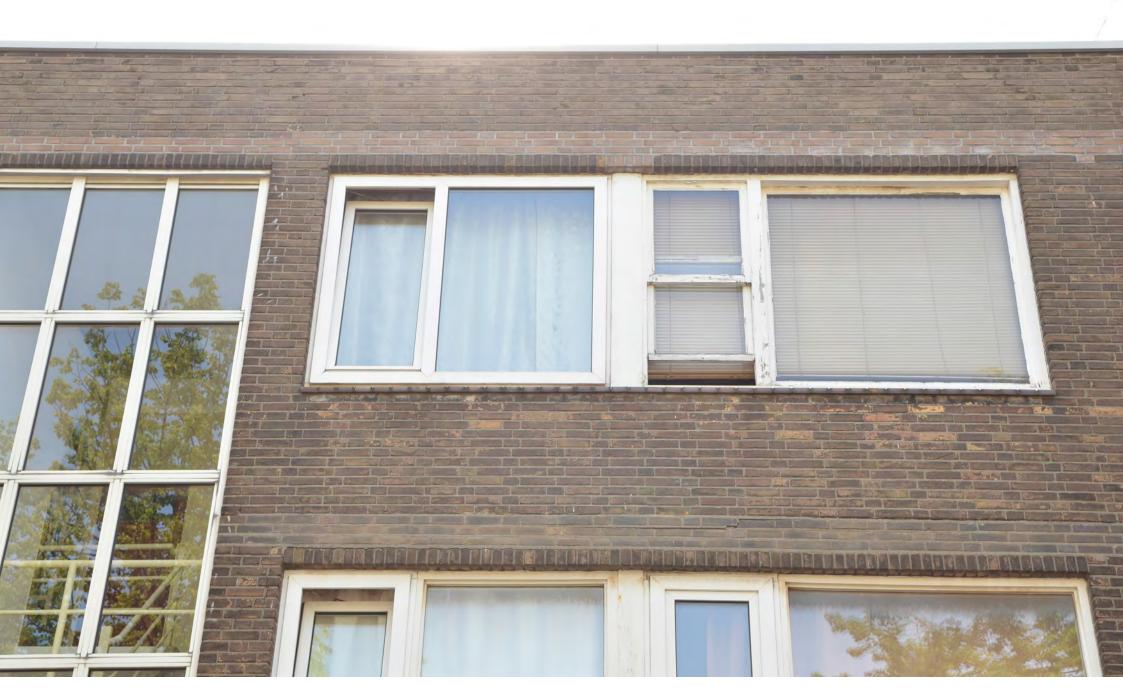
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Vary, Adapt, Engage



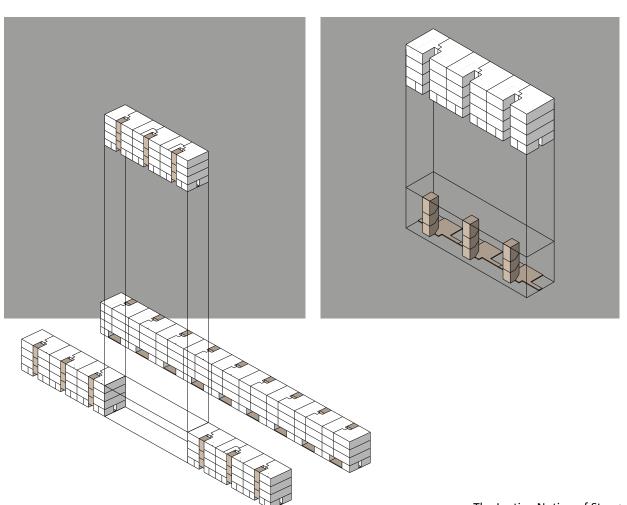


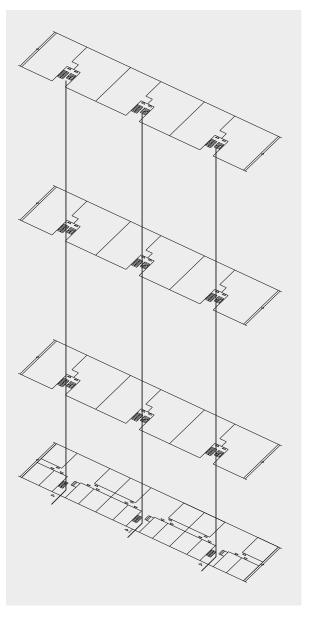
The Lasting Notion of Street: Vary, Adapt, Engage. Transforming Eilandenbuurt Apartments



The Lasting Notion of Street: Vary, Adapt, Engage. Transforming Eilandenbuurt Apartments

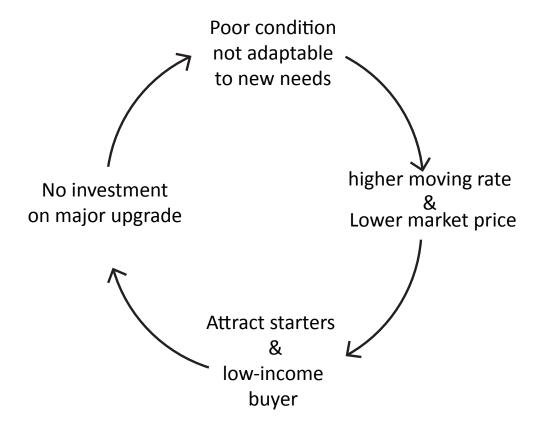
- 1. Lack of Variety.
- 2. Low occupation rate
- 3. Lack in sense of a neighbourhood





The Lasting Notion of Street: Vary, Adapt, Engage. Transforming Eilandenbuurt Apartments

Problem Loop



Design Goal: 3 actions

1. Vary

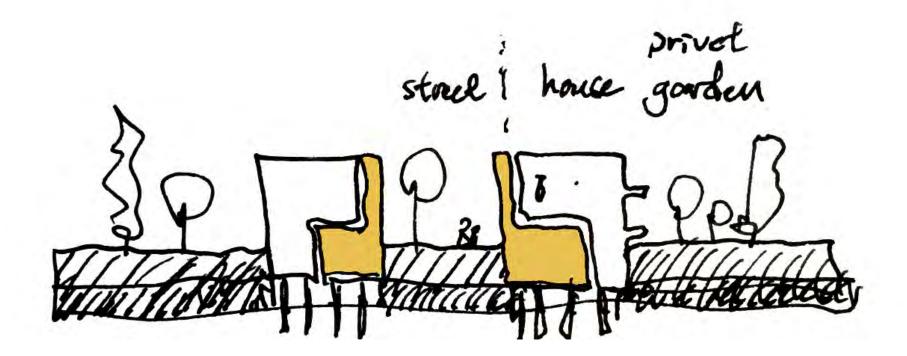
Can the block target not only the starters, but also singles and larger families?

2. Adapt

Can the occupation rate remain high during the building's lifespan, by changing the proportion of small and large typologies?

3. Engage

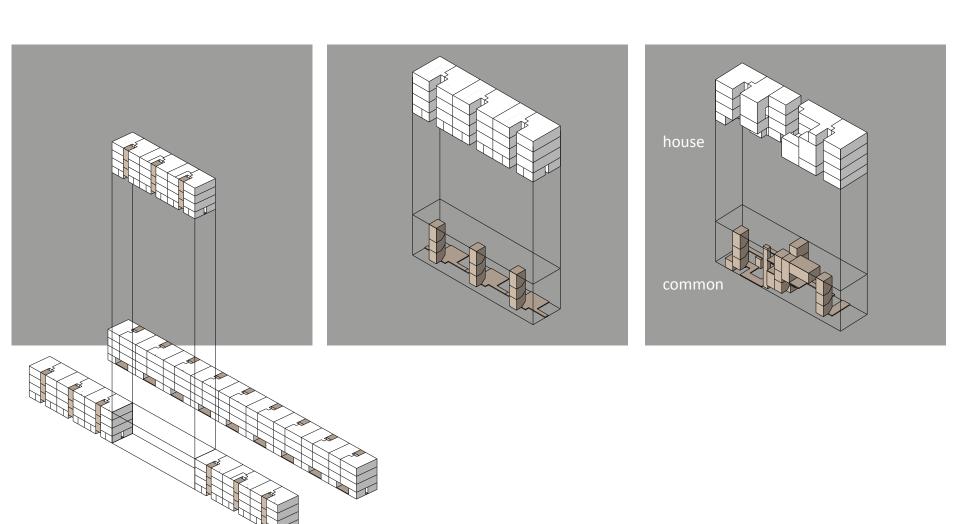
Can we increase the individual residents' sense of belonging to a community in the apartment?

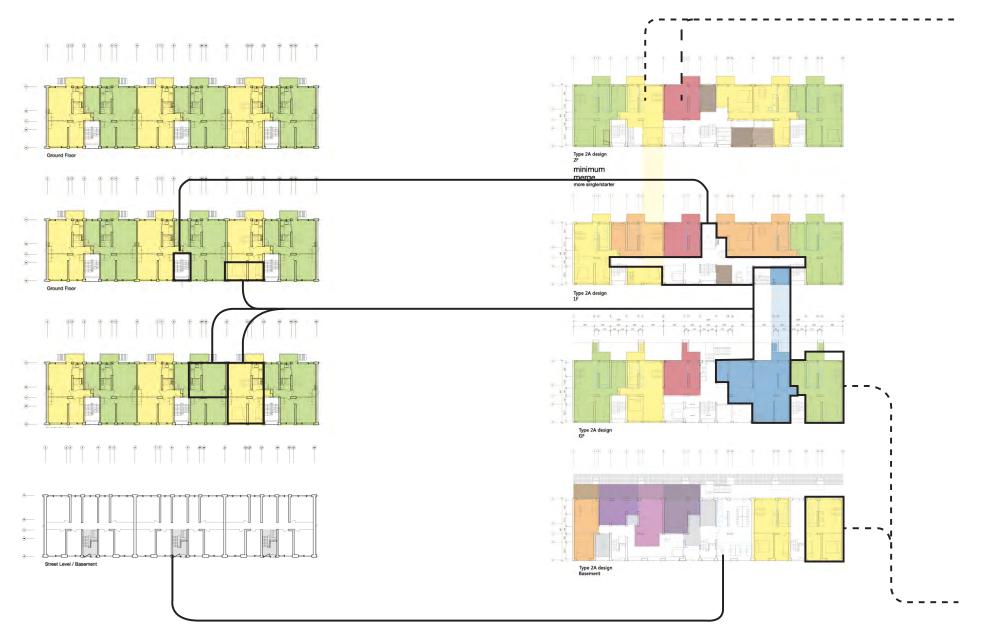


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Vary

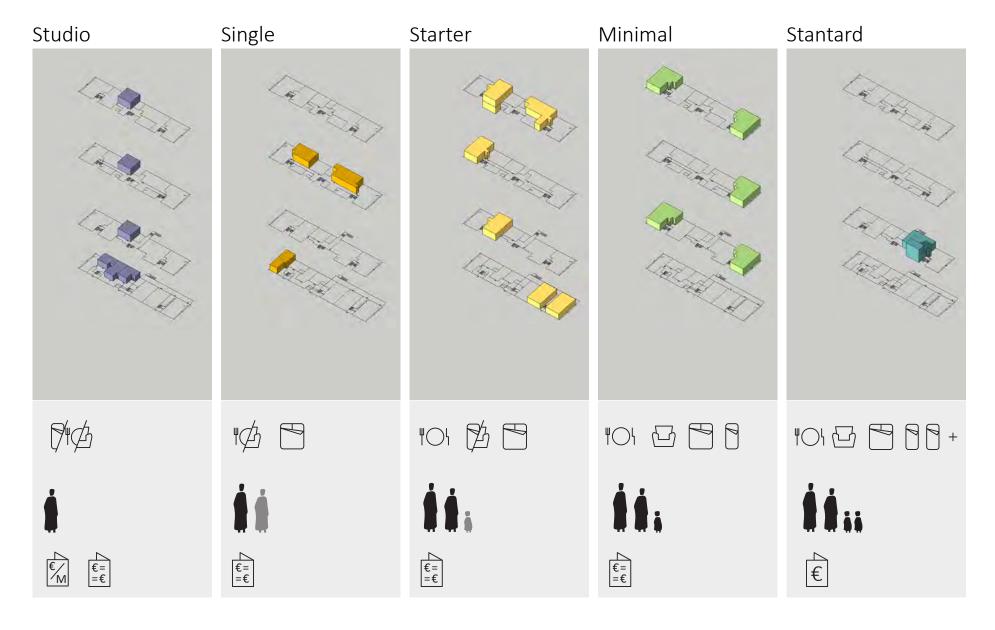
Vary





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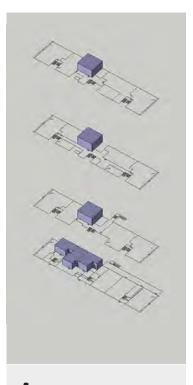
Housing Typologies & Users

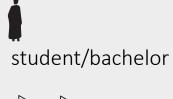


1939 vs. Stage1



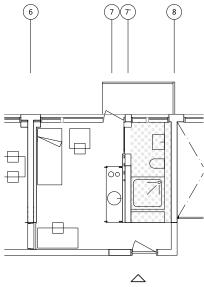
Type: Studio

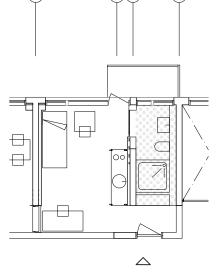




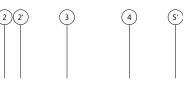


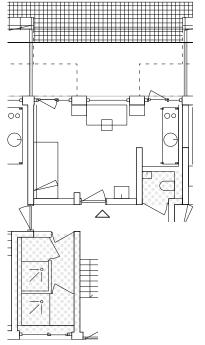
corporation rental

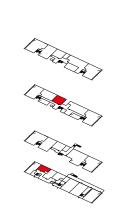












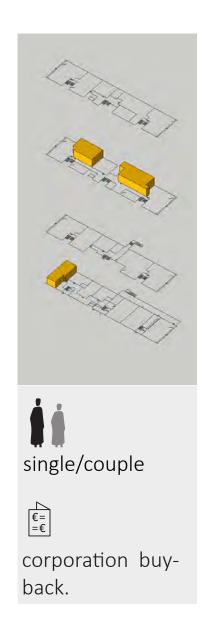


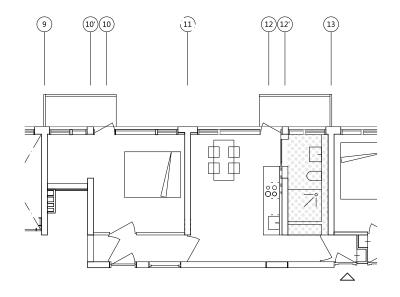
studio shared shower & toilet

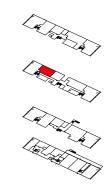
x3



Type: Single Apartment



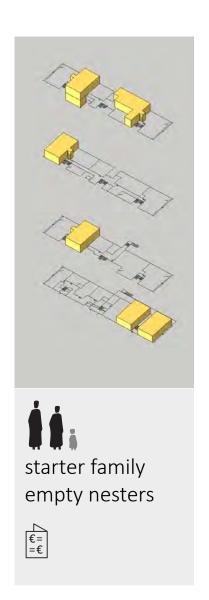


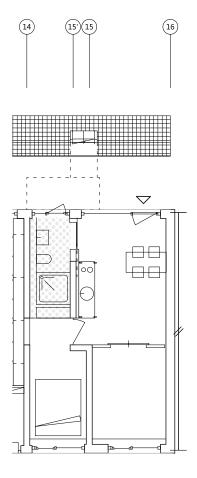


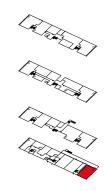


X3

Type: Starter Apartment



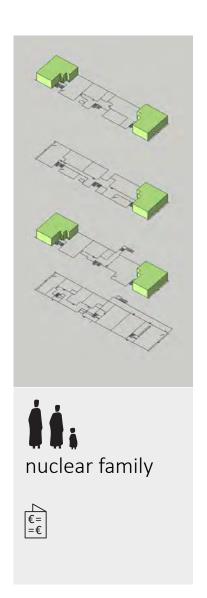


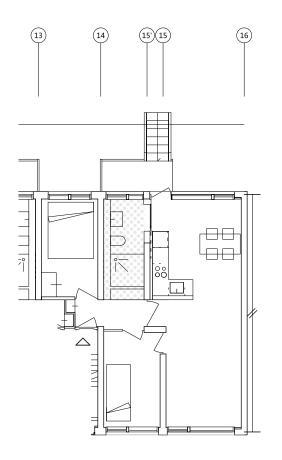


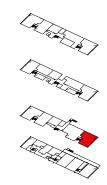


х6

Type: Minimal Apartment



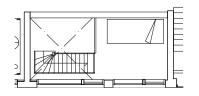




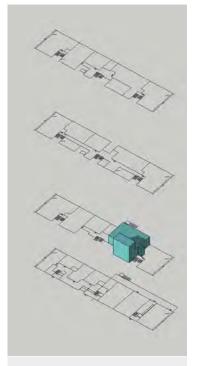
2 bedrooms, full dining & living room

х5

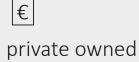
Type: Standard Apartment



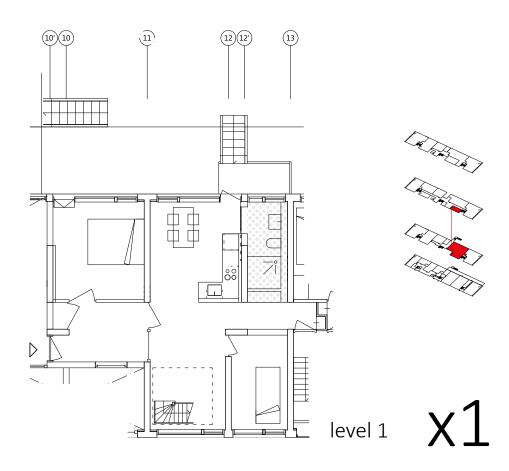
level 2



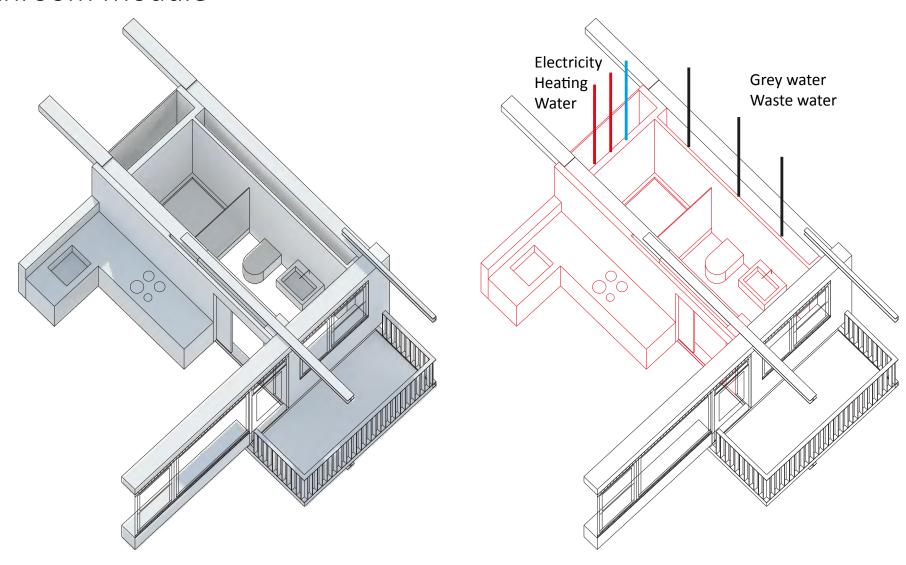








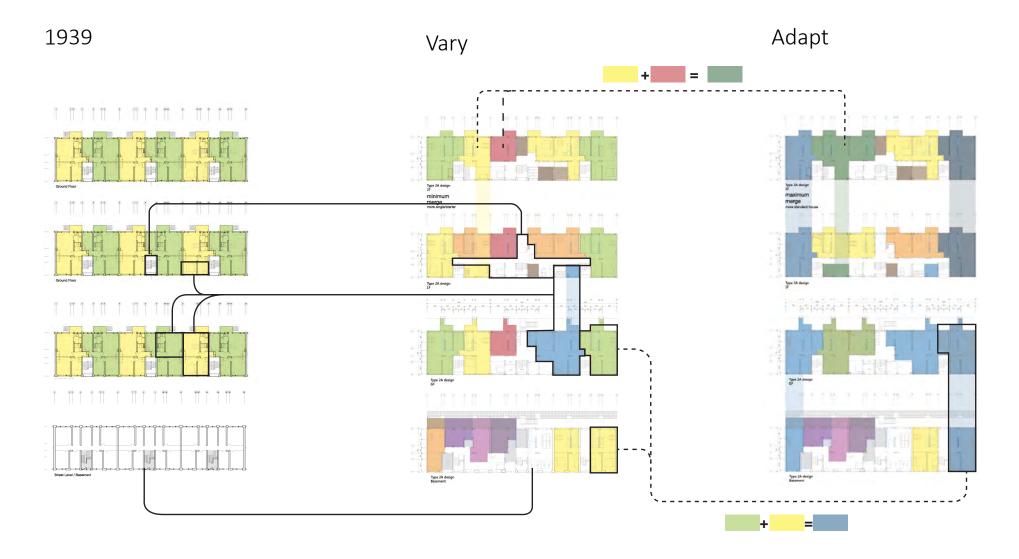
Bathroom Module

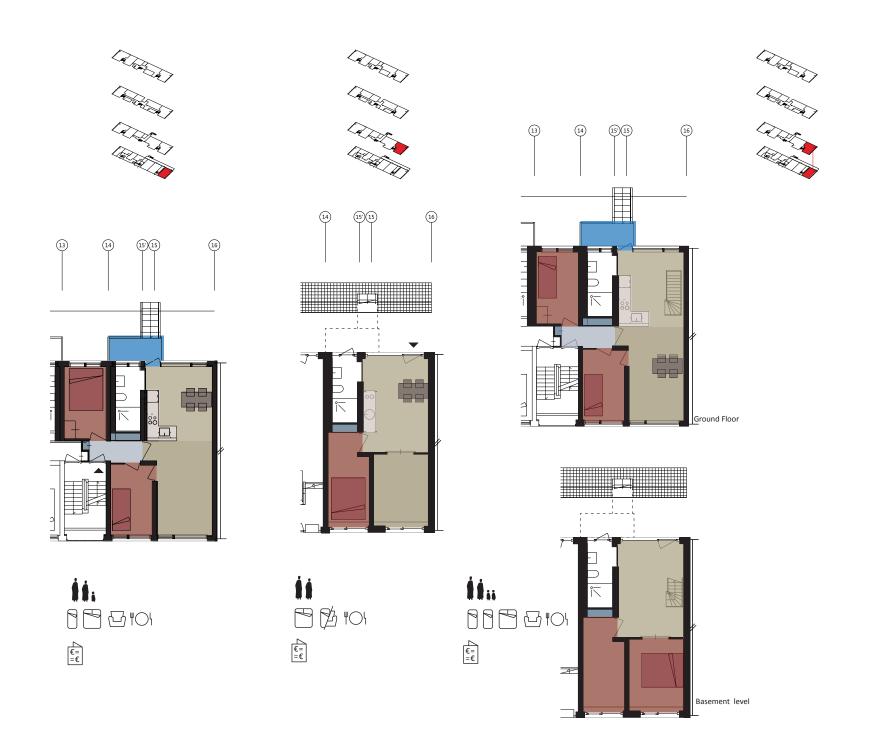


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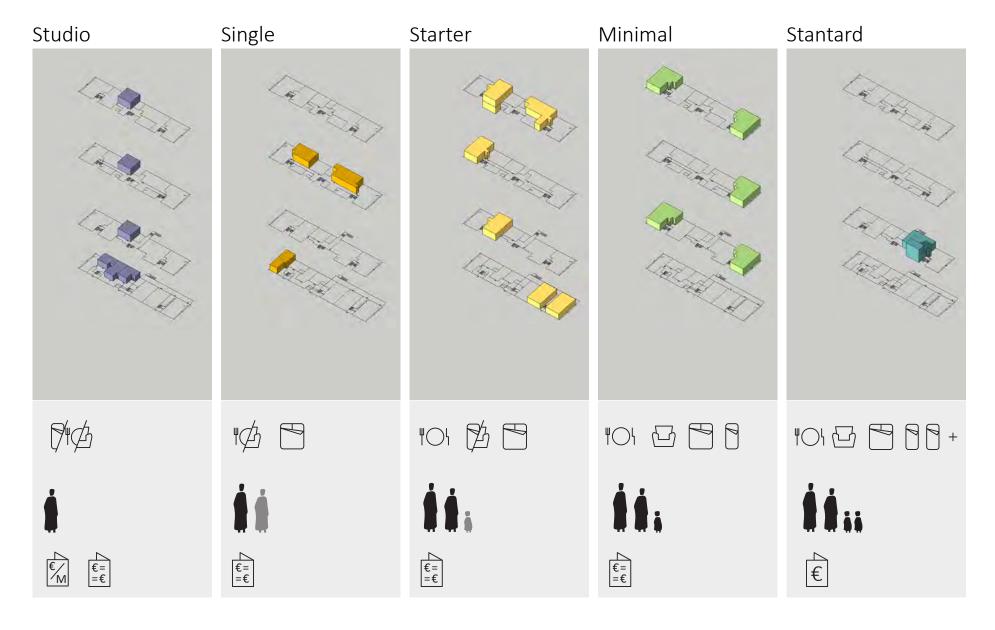
Adapt

Stage 1 to Stage 2

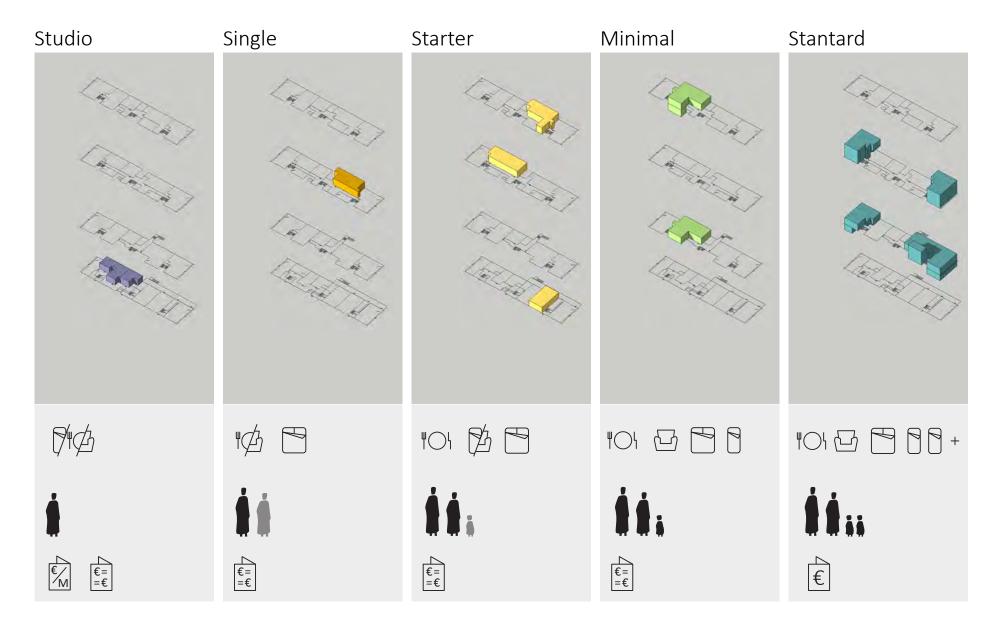




Housing Typologies & Users



Housing Typologies & Users



Typologies in Proportion



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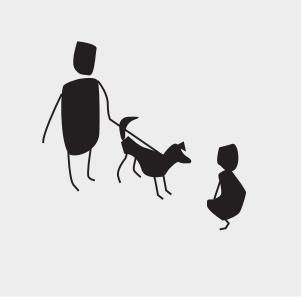
Engage





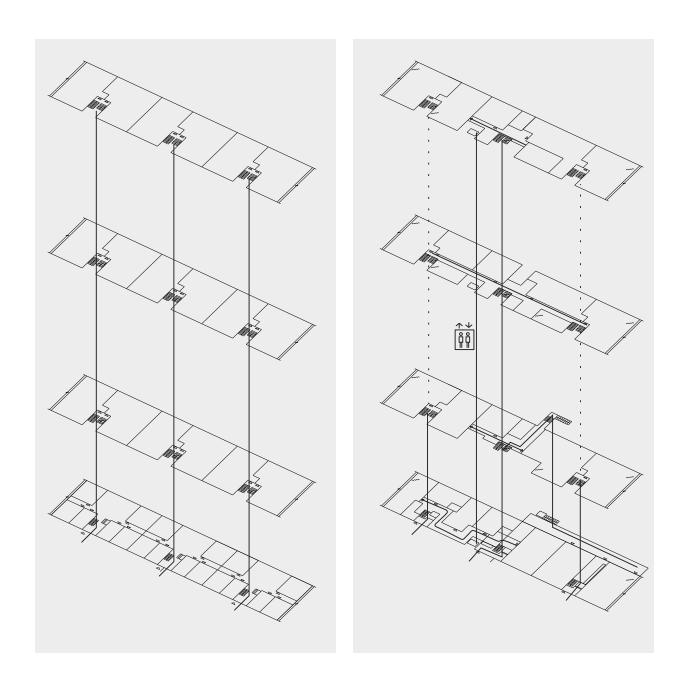
Casual Meet-up

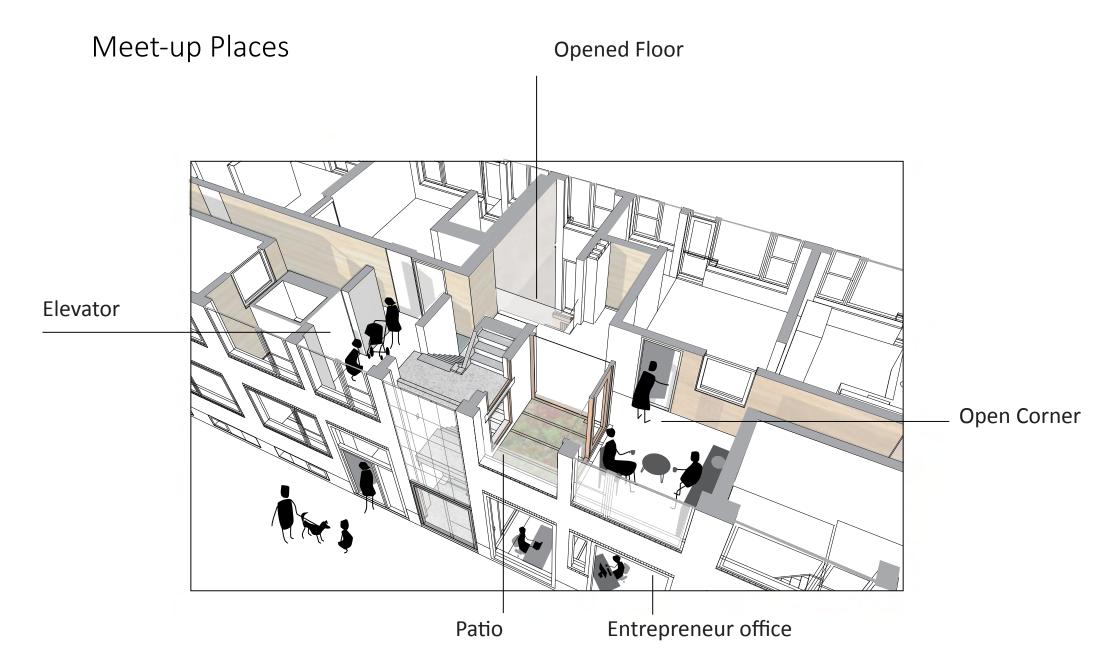




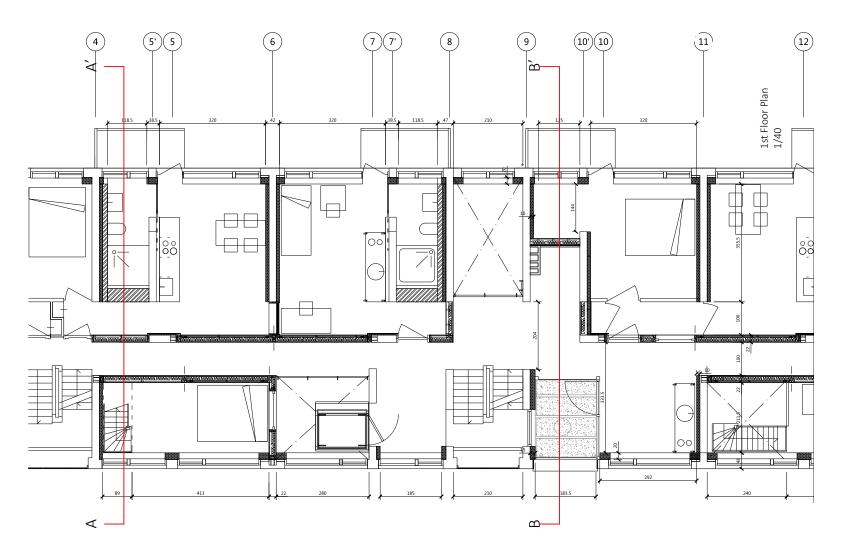


Traffic

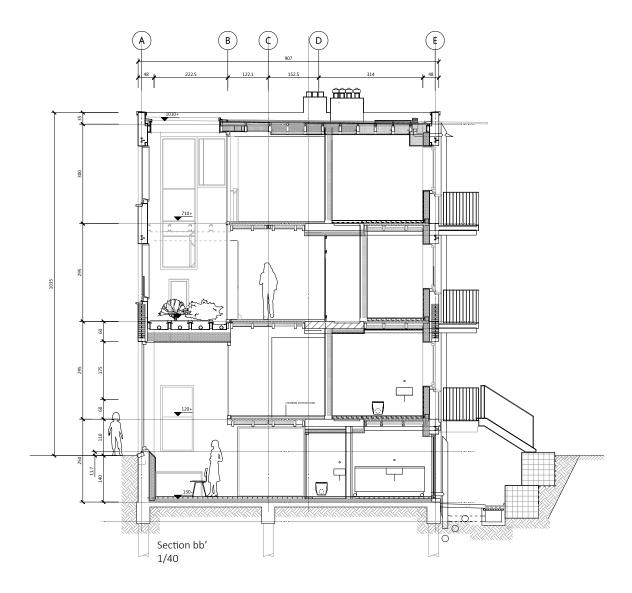




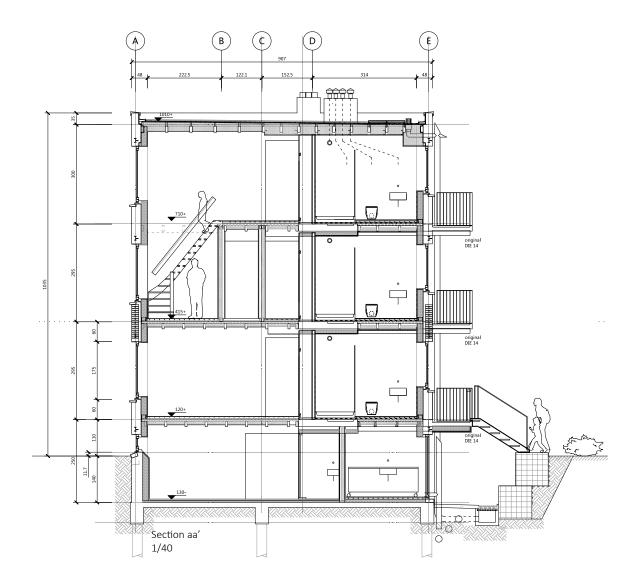
Υуу



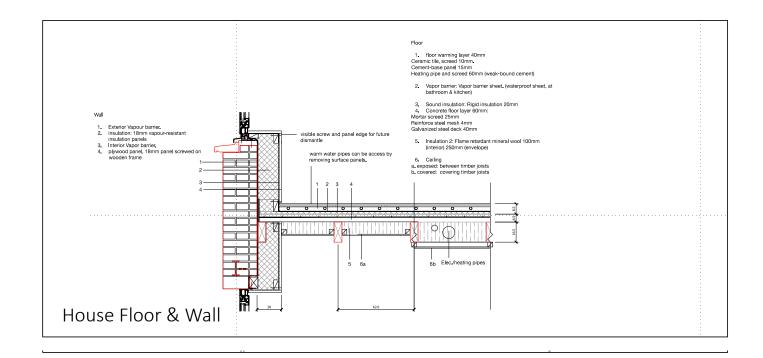
Section BB'

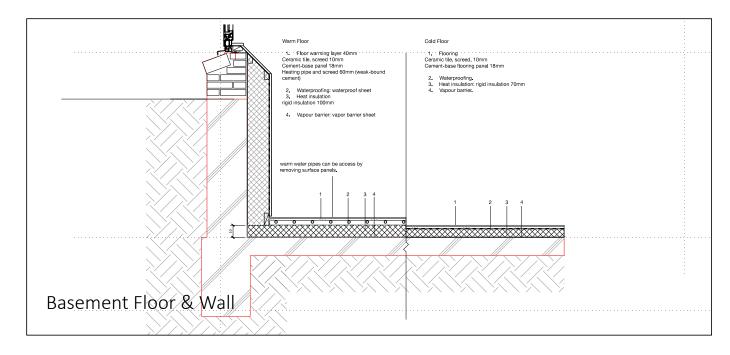


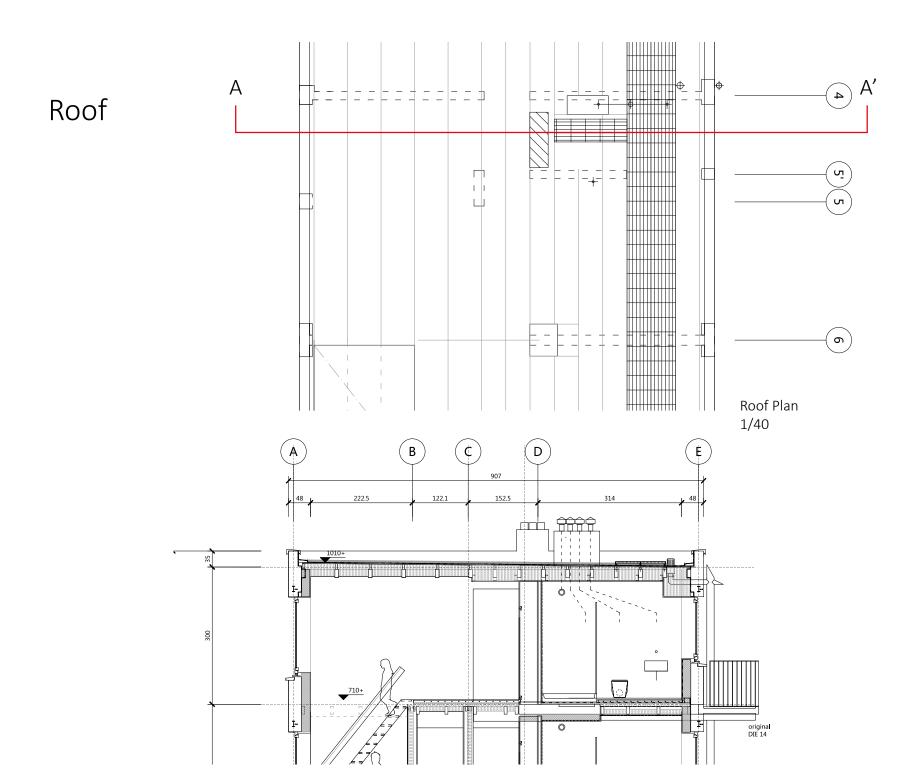
Section AA'



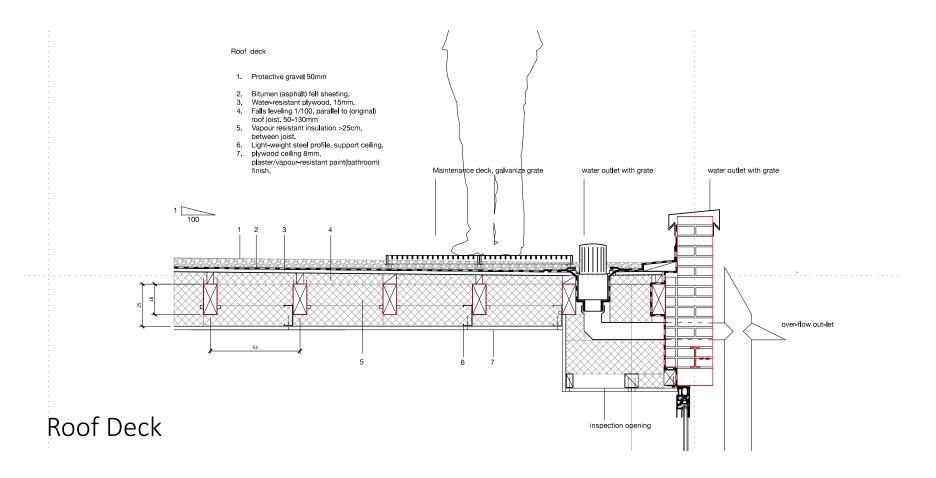
Sustainability







Roof



Old / New





Memory / History





Materialization

Original interior plaster/wall paper Wood stripe Yellow Brick

Framing the portiek Terrazzo & stone

Facade

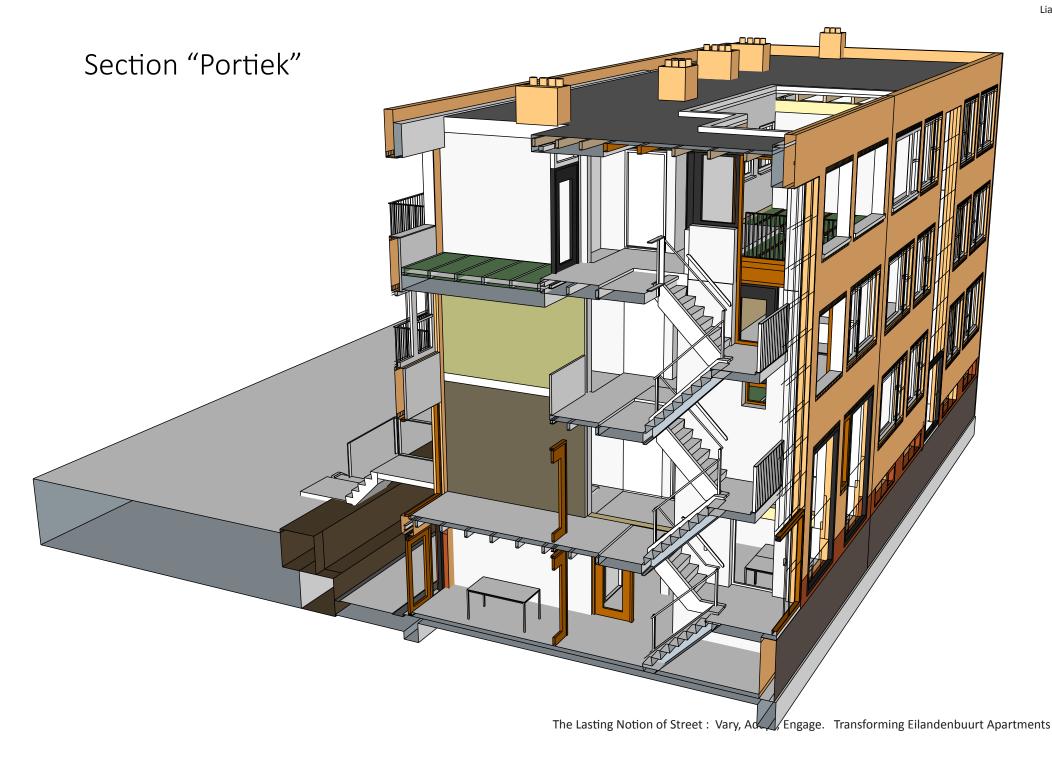


Back Facade



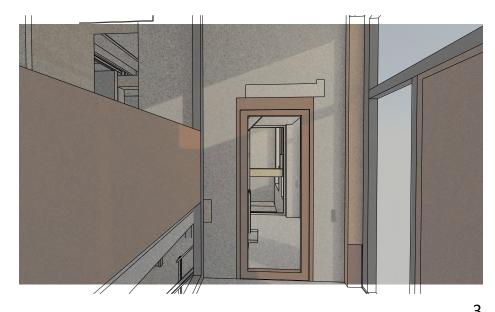
Back Facade Basement



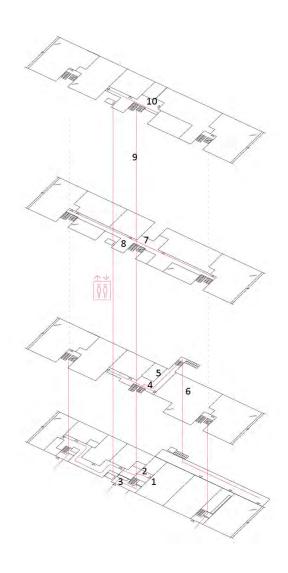


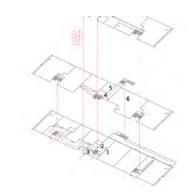
New Entrance

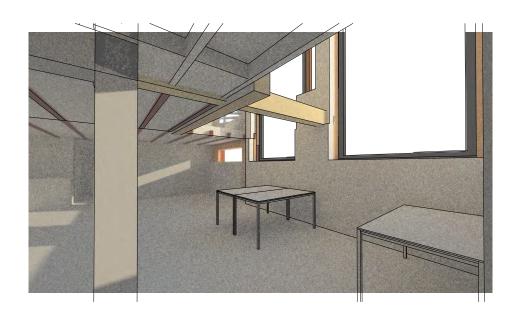




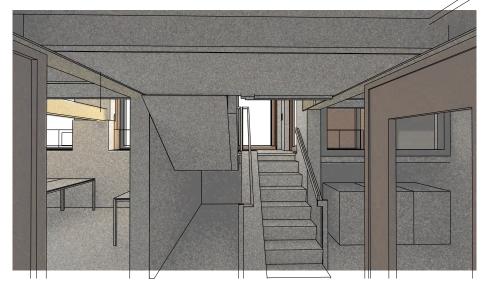
Entrance Hall & Mailbox Street Level







Start-up Office Basement



Portiek, Office & Laundry Room Basement

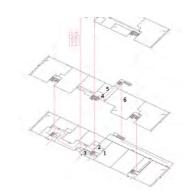
1

2



Type Standard Apartment Ground Floor to 1st Floor

6







Spatial Sequance: Patio





