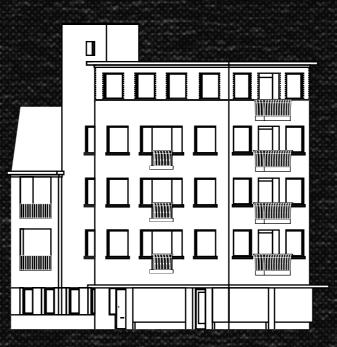
THE REIMAGINED PALACE



Revival and integration of a lost architectural approach with modern challenges and construction.



INHOUDSOPGAVE





FASCINATION

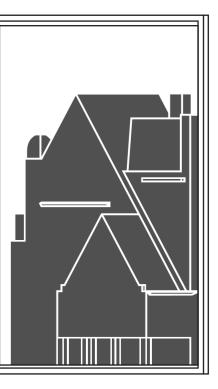
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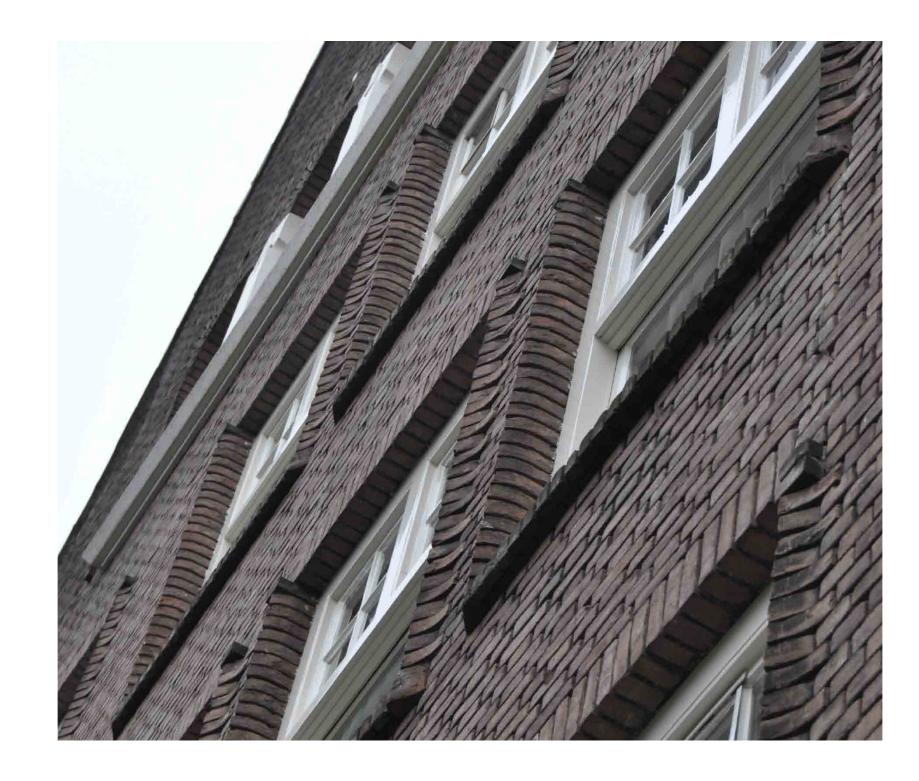


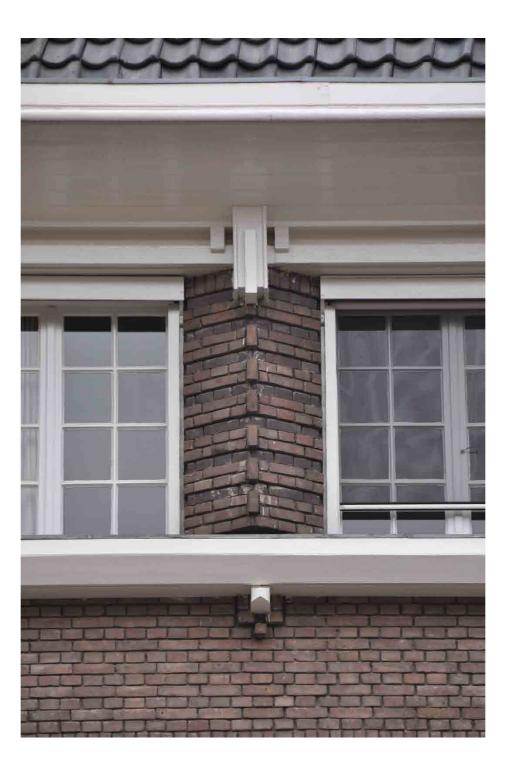
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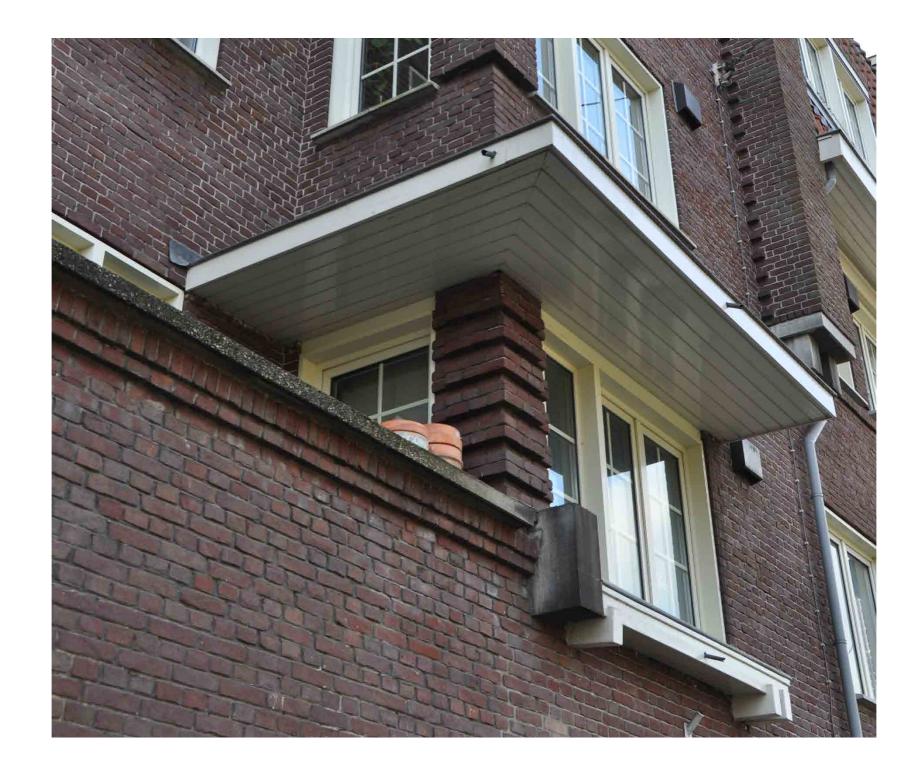
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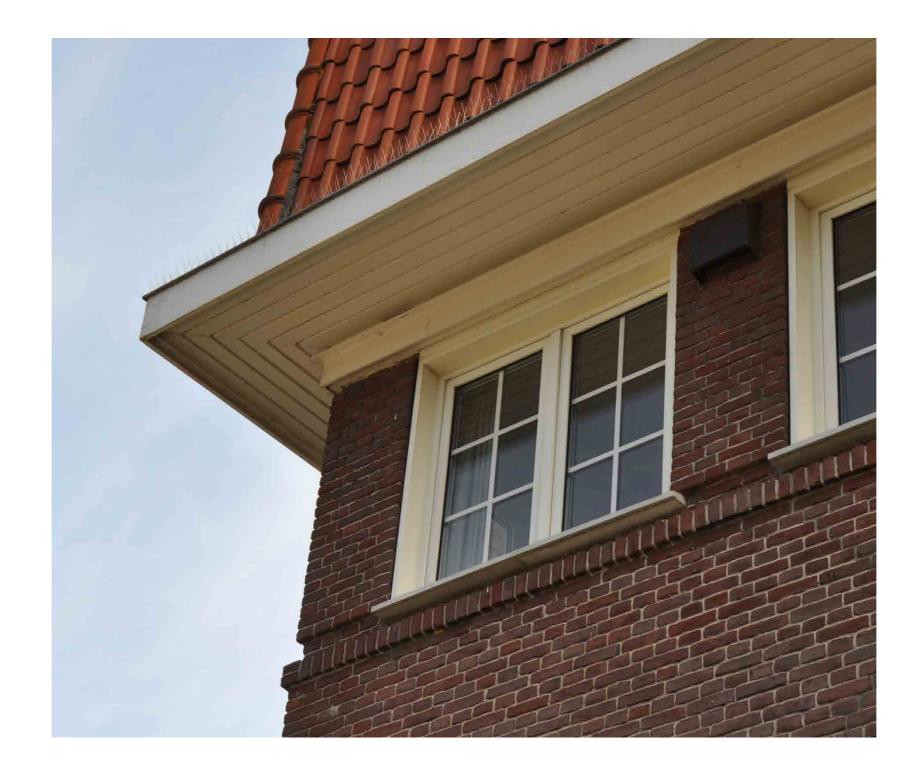
















FASCINATION | LOST APPROACH 10

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FASCINATION | LOST APPROACH 11



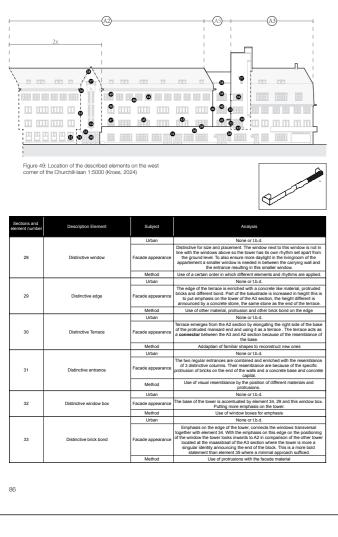
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FASCINATION | LOST APPROACH 12

How does the Amsterdam School use ornaments and other facade elements to partition dwelling blocks in Plan Zuid?



FASCINATION | RESEARCH QUESTION 13

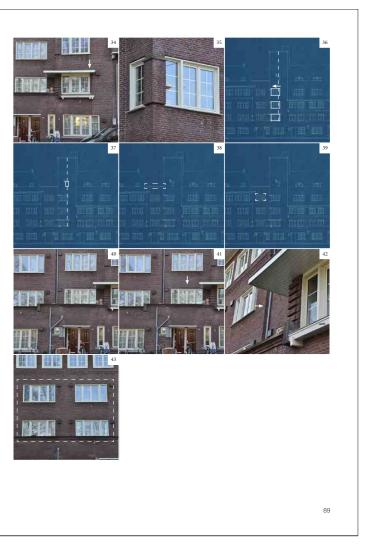




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36 Distinctive window The window is distinctive because of the earlies making pressure to the glasticity of the building block indexes of the endower to the glasticity of the building block indexes of the endower to the glasticity of the building block indexes of the endower of			Method	
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41 Distinctive terrace door The terrace door is distinctive because of the size. The terrace door will be windows a more than the width of total windows above methanoing the vertically of this section. 42 Distinctive recess Wethod None or to 1.0. 42 Distinctive recess The terrace door will be windows a more to more the size. The terrace door will be vertically of this section. 42 Distinctive recess Wethod None or to 1.0. 43 Distinctive section Facade appearanor the profile of the section and to profile of the window section and to profile of the window section and the profile of the section to the section of the section to the section term section of the section term section and the section term section and the section term section and the section term sections term section term secon term secon term section term section term section term secti				
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43 Distinctive terrace door Facade appearance Facade Sacade In the facades creating a continuous facade in the midde Sacade In Facade In Facade In Facade In Facade In Facade In Facade In Facade In F		Distinctive section	Facade appearance	much shorter making the building look much higher than the A3 section. This section is the larges part of the building block and is where duplication takes place most of the times. The facade is separated in subsections by a vertical protusion of an end wall with the same mansard proportions functioning as a staticase. The bottom and top windows are different the middle ones separating the facade in horizontal lines. The Hythm of the windows also
43 Distinctive terrace door Facade appearance Facade appearance Fa			Method	Use of different windows, protrusions and rhythms that divide the facade
43 Distinctive lerrace door Facade appearance Facade Appearance Fa			Lirban	
Method Use of a certain order in which different elements and rhuthms are annuard	43	Distinctive terrace door F		The terrace door is distinctive because the frame including side windows matches the window above. This resembles the windows in the A2 section that is duplicated many times in the facades creating a continuous facade in
	I		Method	Use of a certain order in which different elements and rhythms are applied.

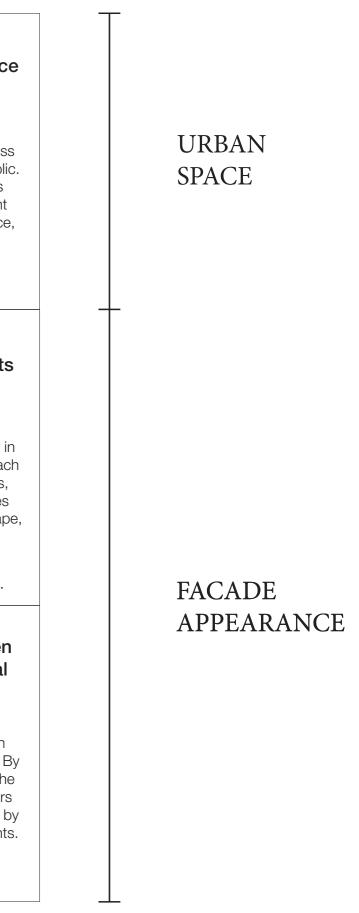
		Urban	None or t.b.d.
44	Distinctive window	Facade appearance	Distinctive because the window has a negative window reveal, meaning the window frame protrudes from the facade. The window is much smaller and i placed twice as much. In result the penant is much smaller accentuating the horizontality much more.
		Method	Use of different windows and rhythms to accentuate horizontality and/or partitioning facade.
		Urban	None or t.b.d.
45	Distinctive terrace door	Facade appearance	Distinctive because of the use only horizontal muntins. The balcony doors which do not have horizontal muntins are above the entrance, a subtle way emphasise the entrance.
		Method	None or t.b.d.
46	Distinctive brick protrusion and course	Urban Facade appearance	Brick course separates the faced horizontally, above the line we have the unater producing window faves with mantiles and beneath the line we have the unater producing window faves with mantiles and beneath the line we bar entrances the horizontally of the upper part of the building block. The cours exist of two parts a vertical three-quarter brick which produces a twy bit was paced, tolkowing the portugation. The wall in between windows (element 44 bar parts be portugater brick which from the areage) part brick as the part bricks. At the top of the face barbor during the transmitter bricks. At the top of the face barbor during the transmitter bricks. At the top of the face barbor during the transmitter bricks. At the top of the face barbor during the transmitter bricks. At the top of the face barbor during the transmitter bricks are barbor during the transmitter bricks. At the top of the face barbor during the transmitter bricks are barbor during the transmitter barbor during the
		Method	Use of protrusion, different courses to partition the facade.
47	Distinctive window	Urban Facade appearance	None or 1b.d. Distinctive window since width of the window is different than the windows it the same row, breaking the pattern just before the vertical end wall produce the wall. Making the transition between the identifies of the section less abrupt, so the window acts as an announcer that something is happening. However the change in the use of munitins seems unsystematic.
		Method	Use of different window sizes to break patterns making transitions less hars and gives more of a monumental look to the change.
		Urban	None or t.b.d.
48	Distinctive window	Facade appearance	Same as element 47, without the change of muntins
		Method	Same as element 47
		Urban	None or t.b.d.
49	Distinctive window	Facade appearance	Same as element 47, without the change of muntins
		Method	Same as element 47
	Distinctive entrance	Urban	None or t.b.d.
50		Facade appearance	Distinctive for the composition of doors and surrounding elements that protrude from regular building line. One wonders where all the doors lead to
		Method	Combining entrances together to hide the borders of the dwellings and creating an accent in the facade.
		Urban	None or t.b.d.
51	Distinctive protrusion	Facade appearance	Distinctive because of the protrusion on the side of the end wall, the protrusion is accomodating the composition of doors and the more monumental look of the end wall overall. The edge of the roof of this protrusion is also enriched by a protrusion of bricks in the same way eleme 29 is. The continues grey (stone/concrete) plinth, element 6, is heightened announce the change and enhances the monumental look.
		Method	None or t.b.d.
		Urban	None or t.b.d.
52	Distinctive window	Facade appearance	Distinctive because the window framing is a sash window which is not present in the other sections. Also the windows have two vertical muntins more in the middle. The window sill and soldier course above the windows are continues as in the other sections.
		Method	Use of different windows to separate sections and different identities within the section
		Urban	None or t.b.d.
53	Distinctive concrete slab	Facade appearance	Distinctive white concrete slabs that matches with the other common white elements; window frames, eaves, hoisting beams and overhangs.
		Method	Use of different materials and colours in the facade.
		Urban	None or t.b.d.
54	Distinctive window/protrusion	Facade appearance	Distinctive because of size, composition and surrounding elements. The composition of the 22 and windows are divided in 2 columns and vertical stacked with 4 or 3 upon each other on each floor. The space inteleveents he vertically stacked windows is filled with the same colour marging I took like one large vertical window. The bricks in between the columns protuce and have ommentation on the upper and lower end. The outer side of the window framing up with the length of the windowsil is increased in the undow frames up with the length of the windowsil is increased in the undow frames up with the length of the end will and as divid is located to endmass the difference in depth and the vertical columns as a whole. The window emphasises the vertically of the end wall and as a distinctive length with the section.
		1	Use of different compositions of windows to emphasis verticality/horizontalit



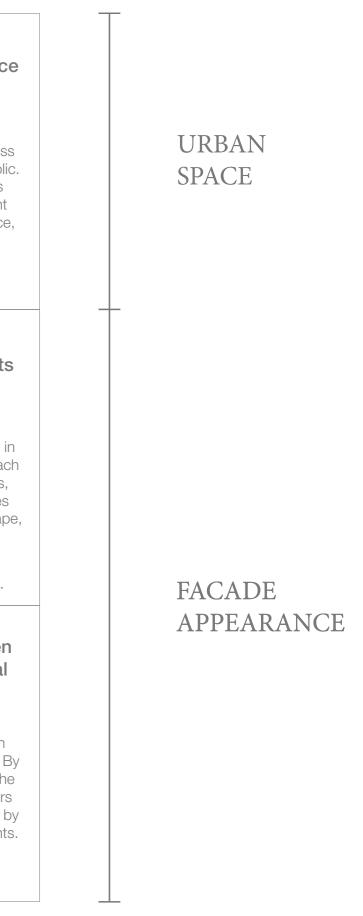


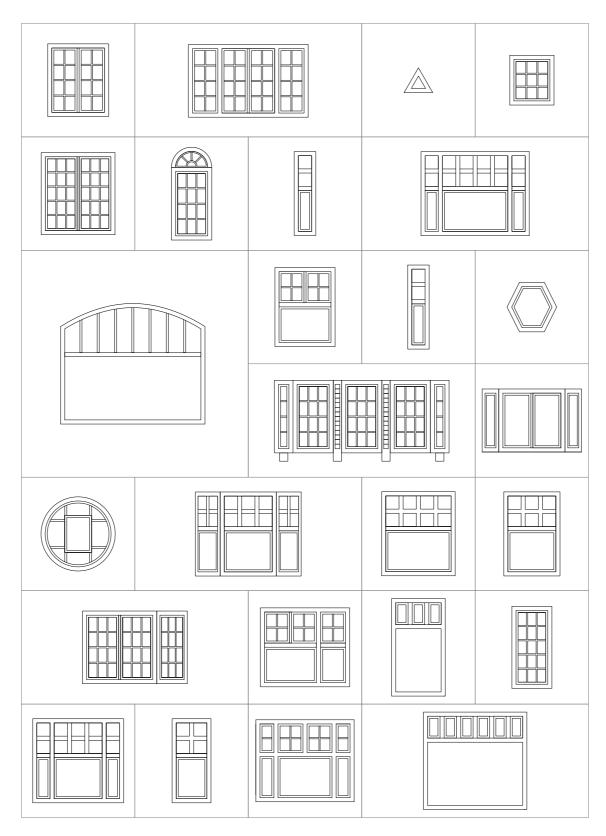
FASCINATION | CATOLOGUE 14

Create different sections and an hierarchy in the building block	Create coherence in the street, building block and urban district	Position and combine entran- ces at street level	Create an intermediate space at entrances
In this hierarchy the corners in the building block and important planes of volumes are emphasised. Methods are; height difference, protrusion or recessions, different roof constructions, overhangs, ornaments, etc.	By using recurring elements, continuous elements or specific configurations of element. For example, using identi- cal entrance configurations, varied configurations of the same roof shape, continuous eaves, etc.	Entrances at street level improves the interaction between the resident and the urban space, sense of safety, vibrancy in the street, accessibility, contribution to the identity of a neighbourhood or district, social connection, etc.	The intermediate space ensures a less harsh border between privat and public. Created by a composition of doors intruded in the building line, different ground material than the public space, overhangs, etc.
Sections CS1: A1, A2, A3, A4, 46, 47, etc. Sections CS2: A1, A2, A3, A4, A5.	Elements CS1: 6, 17, 30, 32, 34, 54, 83, etc. Elements CS2: 5, 6, 7, 20, 24, 75, 89, 98, etc.	Elements CS1: 1, 11, 42, 45, 65, 85, 87. Elements CS2: 5, 8, 31, 50, 59, 61, 71.	Elements CS1: 1, 11, 42, 45, 65, 85, 87. Elements CS2: 5, 8, 31, 50, 59, 61, 71.
Create different (sub)sections and emphasise contrast	Connect the (sub)sections	Use elements around a corner and in different planes	Create an order of elements per (sub)section
Contrast can be made by emphasising the edge of (sub)sections or by empha- sising verticality or horizontality in a (sub) section.	By using elements that refer to, orient to or continues in the other section such as the position of windows, window sills, certain protrusions, material use, large eaves, continuous plinths, ornamentati- ons, string courses, etc.	Improve plasticity by using elements around a corner and in a different pla- nes, making the facade a 3D component of the building block. Elements could be bay windows, distinctive brick bonds, ornamentations, finishings, etc.	The sections are organised vertically in a bottom, middle and top order. In each order facade elements like windows, window sills, muntins, string courses and others are made differently in shape position or composition.
Elements CS1: 2, 3, 6, 14, 18, 24, 26, 28, etc. Elements CS2: 1, 4, 6, 14, 16, 18, 19, 22, etc.	Elements CS1: A1*, 15, 16, 17, 18, 20, etc. Elements CS2: 4, 6, 7, 19, 24, 30, 33, 35, etc.	Elements CS1: 7, 13, 15, 16, 17, 26, 28, etc. Elements CS2: 4, 5, 6, 9, 10, 18, 19, 33, etc.	Elements CS1: 2, 3, 4, 8, 9, 18, 19, 21, etc. Elements CS2: 7, 11, 12, 13, 17, 43, 80 etc.
Break order of elements for emphasis and variation	Emphasise entrances	Conceal the repetitive grid of the dwellings	Divide appearance between commercial and residential use
The order is broken by the use of a different element or rhythm to put emp- hasis on certain characteristics of the (sub)section, to announce another (sub) section or to create variation within the section, without creating a new section.	The entrances are emphasised by diffe- rent materials and use, ornaments, dis- tinctive windows, distinctive positioning of windows, orientation and composition of the doors, protrusions that create gable ends and terraces, etc.	With the use of elements spanning mul- tiple floors, by combining entrances at street level and by creating (sub)sections that are not created solely on the grid of the dwellings.	By using different window frames in colour, shape, size and composition. By using a different or an alteration on the facade plinth, by using different doors which allows more transparancy and by using specific positioning of ornaments.
Elements CS1: 6, 7, 10, 22, 29, 56, 58, etc. Elements CS2: 13, 14, 22, 47, 48, 49, etc.	Elements CS1: 1, 11, 42, 45, 65, 66, 85, etc. Elements CS2: 5, 8, 13, 14, 22, 31, 51, etc.	Elements CS1: 1, 7, 11, A1, A1*, A1**, etc. Elements CS2: 5, A3*, A3**, A5, 31, etc.	Elements CS1: 43, 44, 45, 62, 63, 69, 85. Elements CS2: 8, 9, 72.

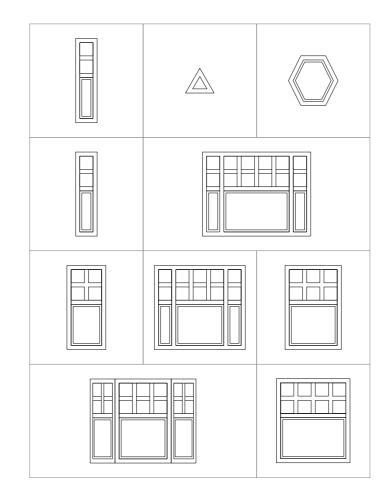


Create coherence in the street, building block and urban district	Position and combine entran- ces at street level	Create an intermediate space at entrances
By using recurring elements, continuous elements or specific configurations of element. For example, using identi- cal entrance configurations, varied configurations of the same roof shape, continuous eaves, etc.	Entrances at street level improves the interaction between the resident and the urban space, sense of safety, vibrancy in the street, accessibility, contribution to the identity of a neighbourhood or district, social connection, etc.	The intermediate space ensures a less harsh border between privat and public Created by a composition of doors intruded in the building line, different ground material than the public space, overhangs, etc.
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Connect the (sub)sections	Use elements around a corner and in different planes	Create an order of elements per (sub)section
By using elements that refer to, orient to or continues in the other section such as the position of windows, window sills, certain protrusions, material use, large eaves, continuous plinths, ornamentati- ons, string courses, etc.	Improve plasticity by using elements around a corner and in a different pla- nes, making the facade a 3D component of the building block. Elements could be bay windows, distinctive brick bonds, ornamentations, finishings, etc.	The sections are organised vertically in a bottom, middle and top order. In each order facade elements like windows, window sills, muntins, string courses and others are made differently in shape position or composition.
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Emphasise entrances	Conceal the repetitive grid of the dwellings	Divide appearance between commercial and residential use
The entrances are emphasised by diffe- rent materials and use, ornaments, dis- tinctive windows, distinctive positioning of windows, orientation and composition of the doors, protrusions that create gable ends and terraces, etc.	With the use of elements spanning mul- tiple floors, by combining entrances at street level and by creating (sub)sections that are not created solely on the grid of the dwellings.	By using different window frames in colour, shape, size and composition. By using a different or an alteration on the facade plinth, by using different doors which allows more transparancy and by using specific positioning of ornaments.
Elements CS1: 1, 11, 42, 45, 65, 66, 85, etc. Elements CS2: 5, 8, 13, 14, 22, 31, 51, etc.	Elements CS1: 1, 7, 11, A1, A1*, A1**, etc. Elements CS2: 5, A3*, A3**, A5, 31, etc.	Elements CS1: 43, 44, 45, 62, 63, 69, 85. Elements CS2: 8, 9, 72.
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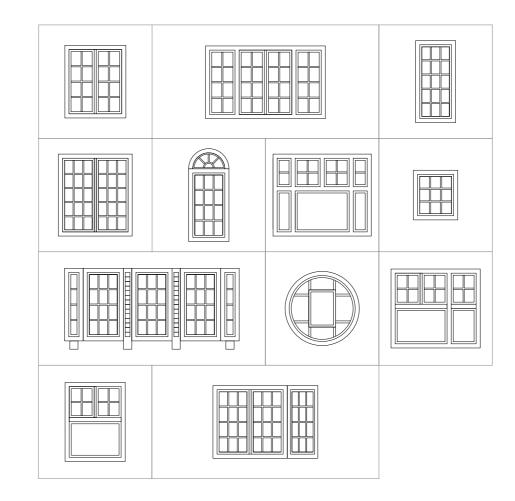


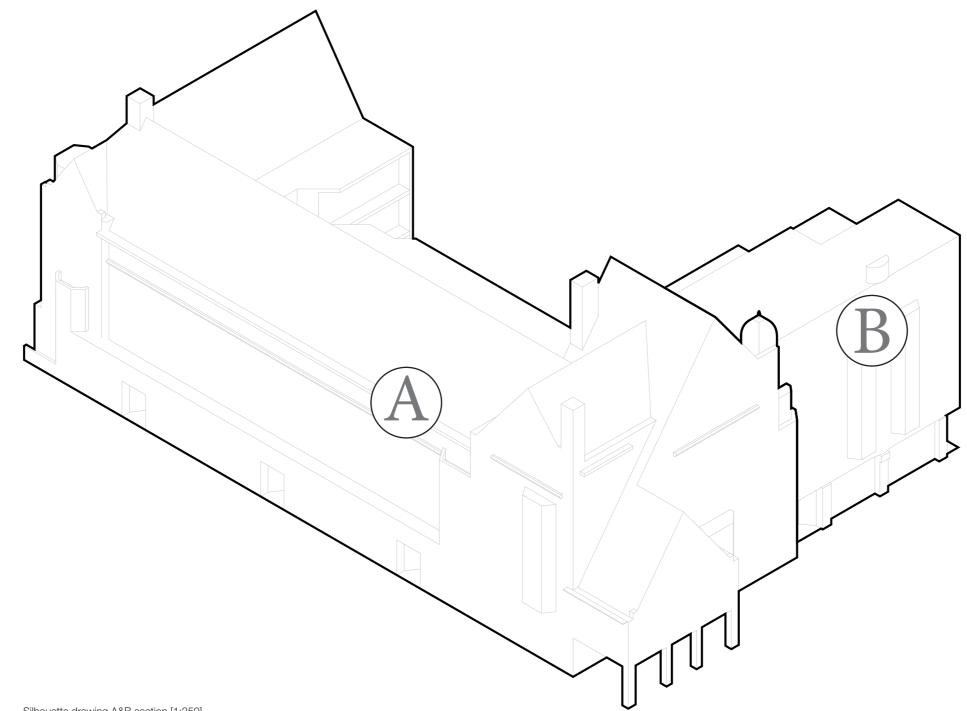


Different window types of The first Case study [scale 1:65]



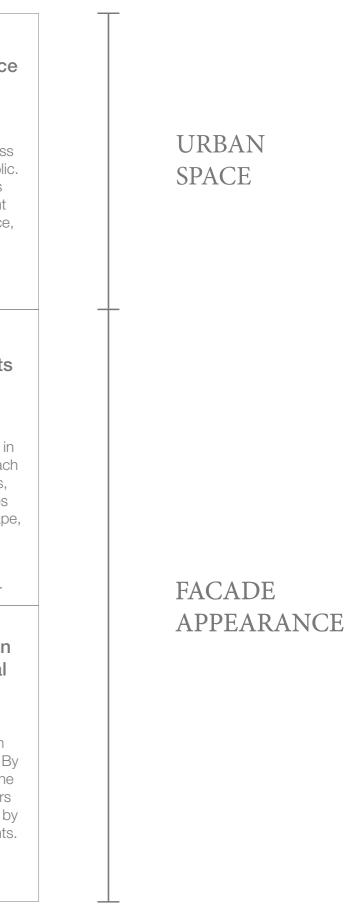
Different window types section B (left) & A (right) [scale 1:65]



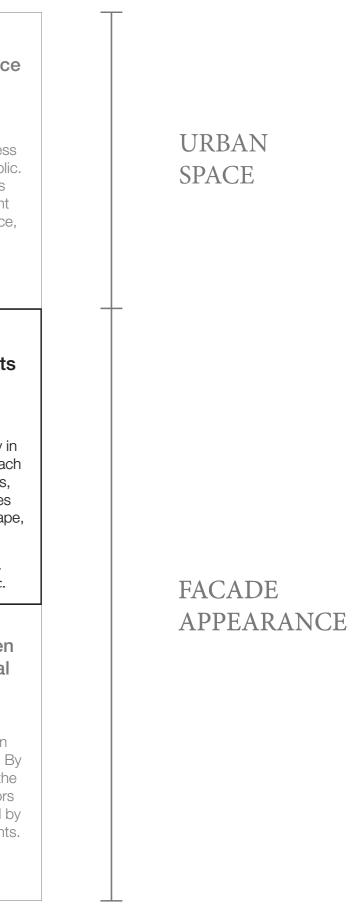


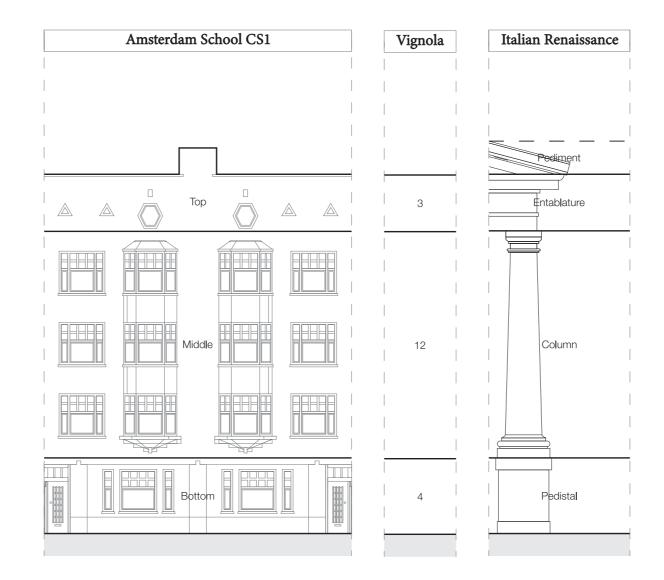
Silhouette drawing A&B section [1:250]

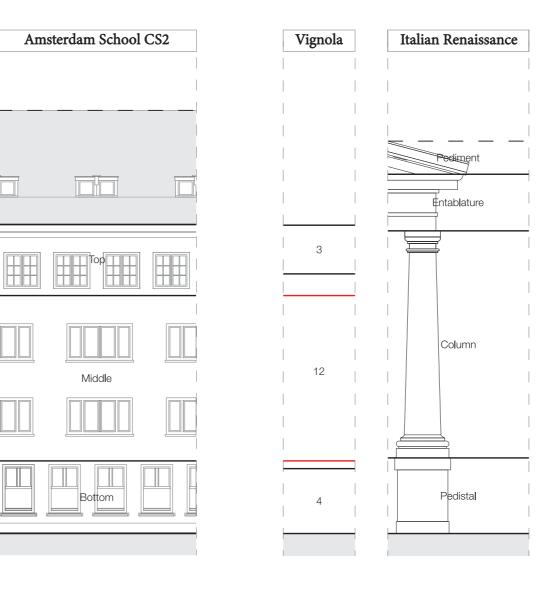
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Connect the (sub)sections	Use elements around a corner and in different planes	Create an order of elements per (sub)section
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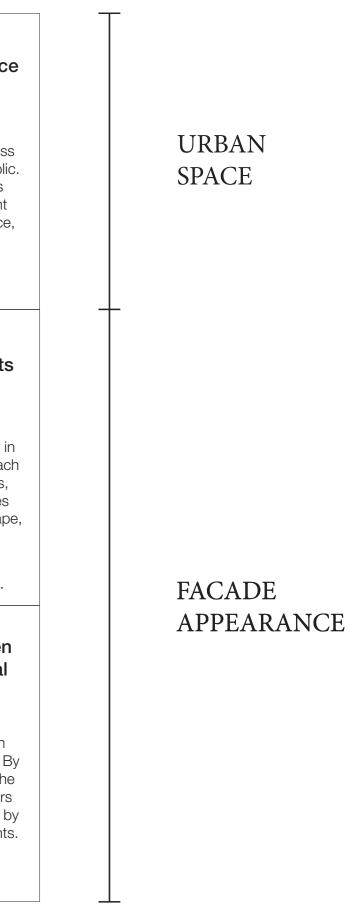
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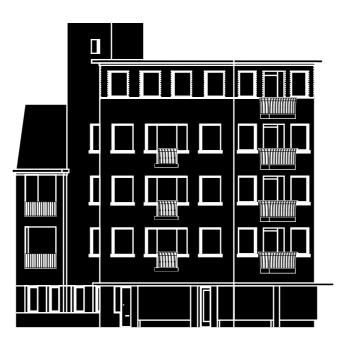
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Sections CS1: A1, A2, A3, A4, 46, 47, etc. Sections CS2: A1, A2, A3, A4, A5.	Elements CS1: 6, 17, 30, 32, 34, 54, 83, etc. Elements CS2: 5, 6, 7, 20, 24, 75, 89, 98, etc.	Elements CS1: 1, 11, 42, 45, 65, 85, 87. Elements CS2: 5, 8, 31, 50, 59, 61, 71.	Elements CS1: 1, 11, 42, 45, 65, 85, 87. Elements CS2: 5, 8, 31, 50, 59, 61, 71.
Create different (sub)sections and emphasise contrast	Connect the (sub)sections	Use elements around a corner and in different planes	Create an order of elements per (sub)section
Contrast can be made by emphasising the edge of (sub)sections or by empha- sising verticality or horizontality in a (sub) section.	By using elements that refer to, orient to or continues in the other section such as the position of windows, window sills, certain protrusions, material use, large eaves, continuous plinths, ornamentati- ons, string courses, etc.	Improve plasticity by using elements around a corner and in a different pla- nes, making the facade a 3D component of the building block. Elements could be bay windows, distinctive brick bonds, ornamentations, finishings, etc.	The sections are organised vertically in a bottom, middle and top order. In each order facade elements like windows, window sills, muntins, string courses and others are made differently in shape position or composition.
Elements CS1: 2, 3, 6, 14, 18, 24, 26, 28, etc. Elements CS2: 1, 4, 6, 14, 16, 18, 19, 22, etc.	Elements CS1: A1*, 15, 16, 17, 18, 20, etc. Elements CS2: 4, 6, 7, 19, 24, 30, 33, 35, etc.	Elements CS1: 7, 13, 15, 16, 17, 26, 28, etc. Elements CS2: 4, 5, 6, 9, 10, 18, 19, 33, etc.	Elements CS1: 2, 3, 4, 8, 9, 18, 19, 21, etc. Elements CS2: 7, 11, 12, 13, 17, 43, 80 etc.
Break order of elements for emphasis and variation	Emphasise entrances	Conceal the repetitive grid of the dwellings	Divide appearance between commercial and residential use
The order is broken by the use of a different element or rhythm to put emphasis on certain characteristics of the (sub)section, to announce another (sub) section or to create variation within the section, without creating a new section.	The entrances are emphasised by diffe- rent materials and use, ornaments, dis- tinctive windows, distinctive positioning of windows, orientation and composition of the doors, protrusions that create gable ends and terraces, etc.	With the use of elements spanning mul- tiple floors, by combining entrances at street level and by creating (sub)sections that are not created solely on the grid of the dwellings.	By using different window frames in colour, shape, size and composition. By using a different or an alteration on the facade plinth, by using different doors which allows more transparancy and by using specific positioning of ornaments.
Elements CS1: 6, 7, 10, 22, 29, 56, 58, etc. Elements CS2: 13, 14, 22, 47, 48, 49, etc.	Elements CS1: 1, 11, 42, 45, 65, 66, 85, etc. Elements CS2: 5, 8, 13, 14, 22, 31, 51, etc.	Elements CS1: 1, 7, 11, A1, A1*, A1**, etc. Elements CS2: 5, A3*, A3**, A5, 31, etc.	Elements CS1: 43, 44, 45, 62, 63, 69, 85. Elements CS2: 8, 9, 72.

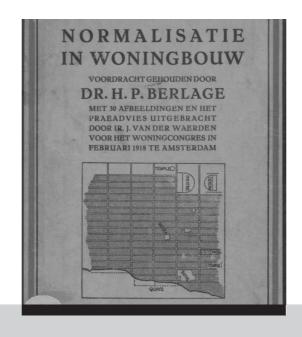


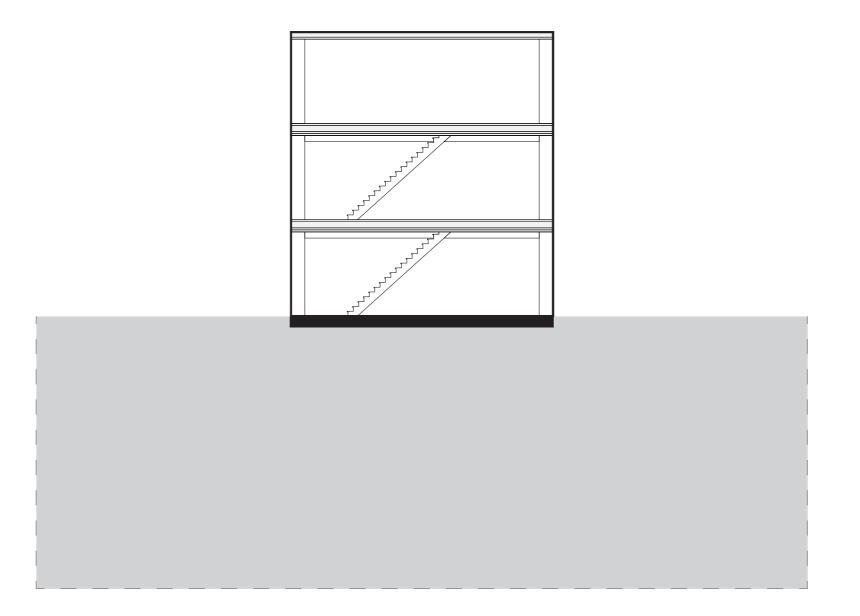
How can the principles outlined in the toolbox be integrated with modern challenges, such as sustainability, environmental impact and current construction methods?

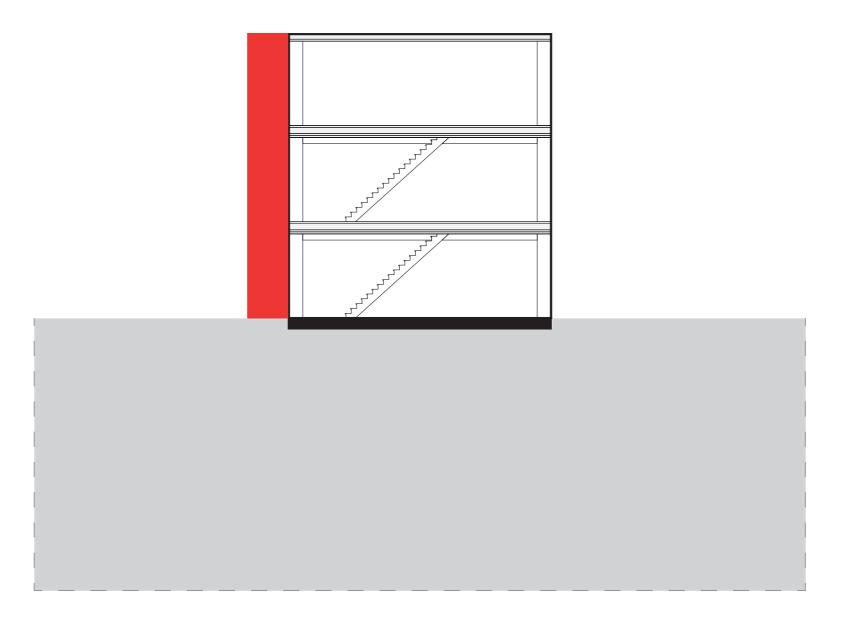
RESEARCH | DESIGN QUESTION 25

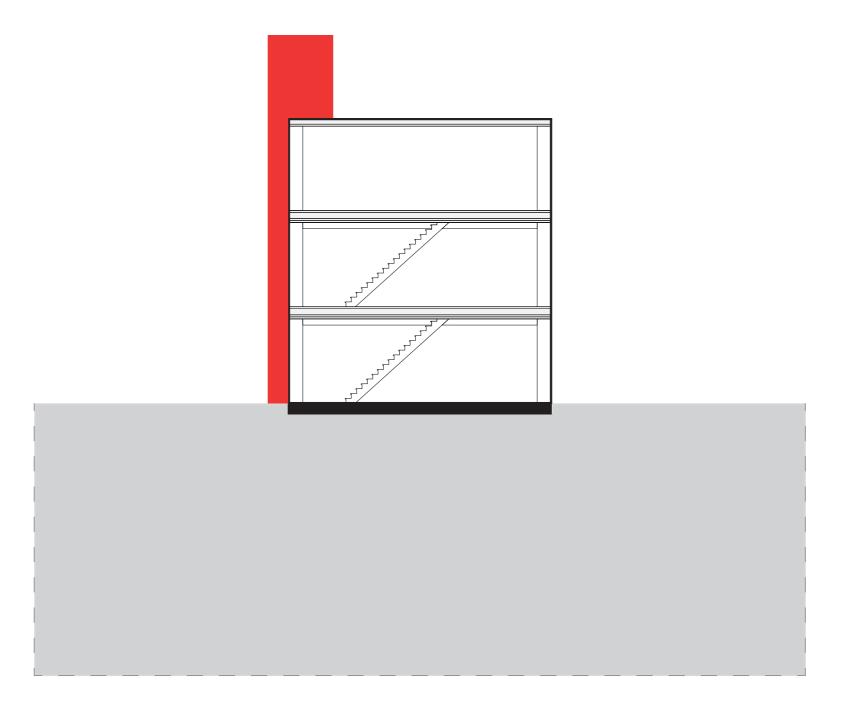
DESIGN



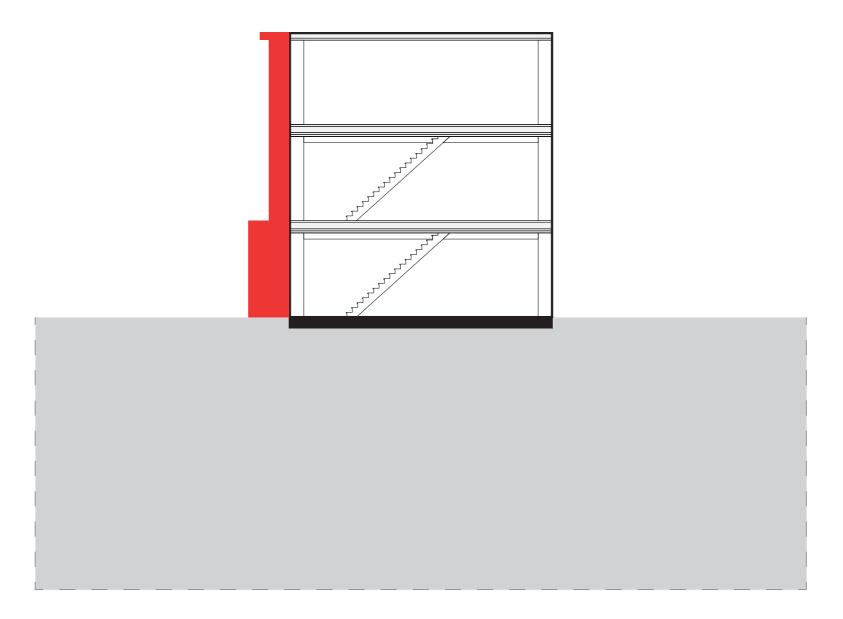








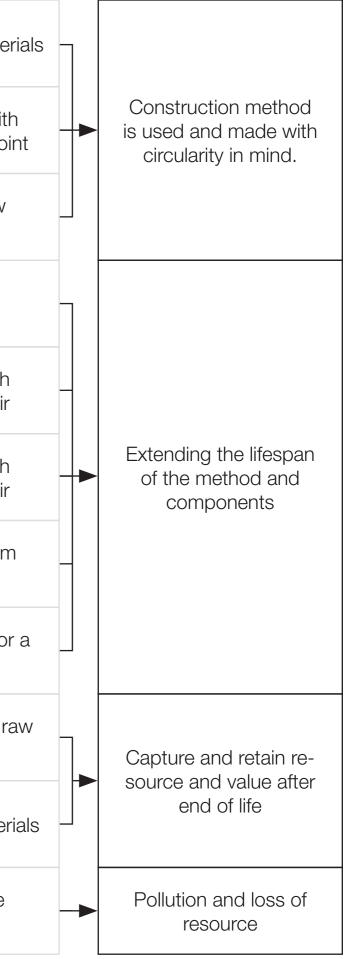




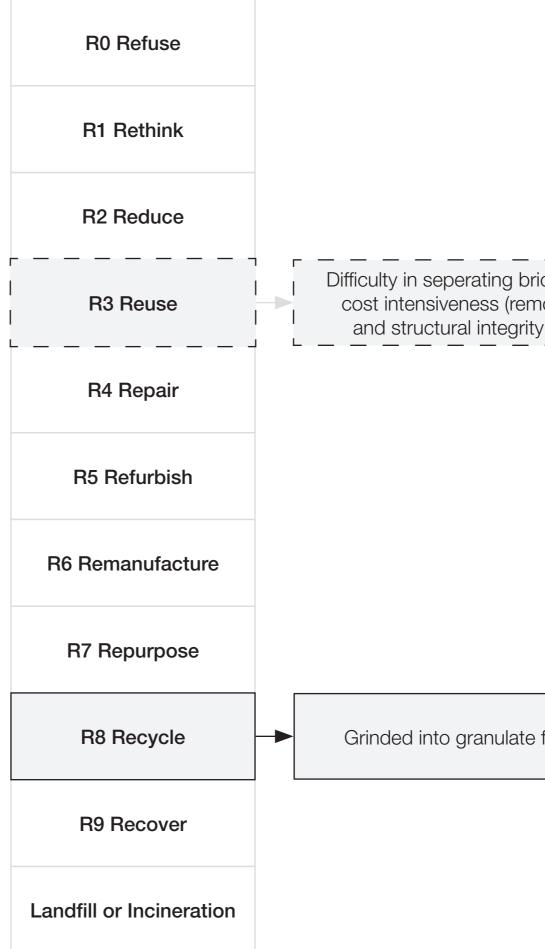


R1 Rethink (Re)design a product with circularity as a starting point circularity circularity as a starting point circularity as a start circularity as a startend lifespan through maintenance and repaint circulari		-	
R1 Retnink circularity as a starting point circularity circu	R0 Refuse		Refuse the use of raw mate
R2 Reduce materials R3 Reuse Reuse the product R4 Repair Extend lifespan through maintenance and repair R5 Refurbish Extend lifespan through maintenance and repair R6 Remanufacture Create new product from secondary materials R7 Repurpose Reuse the product, but for different purpose R8 Recycle Process the product into ra materials for reuse R9 Recover Recover energy from materials Not utilising end-of-life Not utilising end-of-life	R1 Rethink		(Re)design a product with circularity as a starting poi
R4 Repair Extend lifespan through maintenance and repair R5 Refurbish Extend lifespan through maintenance and repair R6 Remanufacture Create new product from secondary materials R7 Repurpose Reuse the product, but for different purpose R8 Recycle Process the product into ra materials for reuse R9 Recover Recover energy from materials Not utilising end-of-life Not utilising end-of-life	R2 Reduce		
R4 Repair maintenance and repair R5 Refurbish Extend lifespan through maintenance and repair R6 Remanufacture Create new product from secondary materials R7 Repurpose Reuse the product, but for different purpose R8 Recycle Process the product into ra materials for reuse R9 Recover Recover energy from materials Not utilising end-of-life Not utilising end-of-life	R3 Reuse		Reuse the product
R5 Refurbisin maintenance and repair R6 Remanufacture Create new product from secondary materials R7 Repurpose Reuse the product, but for different purpose R8 Recycle Process the product into ra materials for reuse R9 Recover Recover energy from materials Not utilising end-of-life	R4 Repair		Extend lifespan through maintenance and repair
R6 Remanufacture secondary materials R7 Repurpose Reuse the product, but for different purpose R8 Recycle Process the product into ra materials for reuse R9 Recover Recover energy from materials Not utilising end-of-life	R5 Refurbish		Extend lifespan through maintenance and repair
R7 Repurpose different purpose R8 Recycle Process the product into ra materials for reuse R9 Recover Recover energy from mater Landfill or Incineration Not utilising end-of-life	R6 Remanufacture		Create new product from secondary materials
R9 Recover Recover energy from materials for reuse Not utilising end-of-life	R7 Repurpose		Reuse the product, but for different purpose
Landfill or Incineration Not utilising end-of-life	R8 Recycle		Process the product into ra materials for reuse
	R9 Recover		Recover energy from mater
	Landfill or Incineration		0

Main Construction Method Case Studies Research: Clay bricks with cement mortar







Main Construction Method Case Studies Research: Clay bricks with cement mortar

Difficulty in seperating bricks with cement mortar, labour and cost intensiveness (removing, selecting, cleaning), quality and structural integrity and damage during demolition.

Grinded into granulate for roads, foundations, aggregate



DESIGN | CIRCLEWOOD 35



NOORDERENG GROEP

COMPANY

DWa



CIRCLEWOOD





bbr

abt

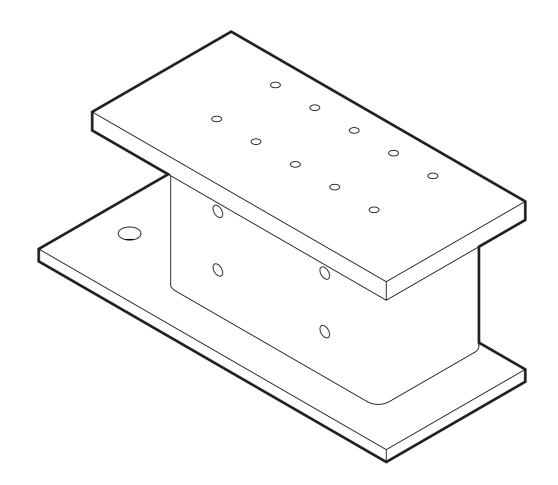
TNO innovation for life

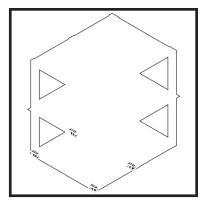


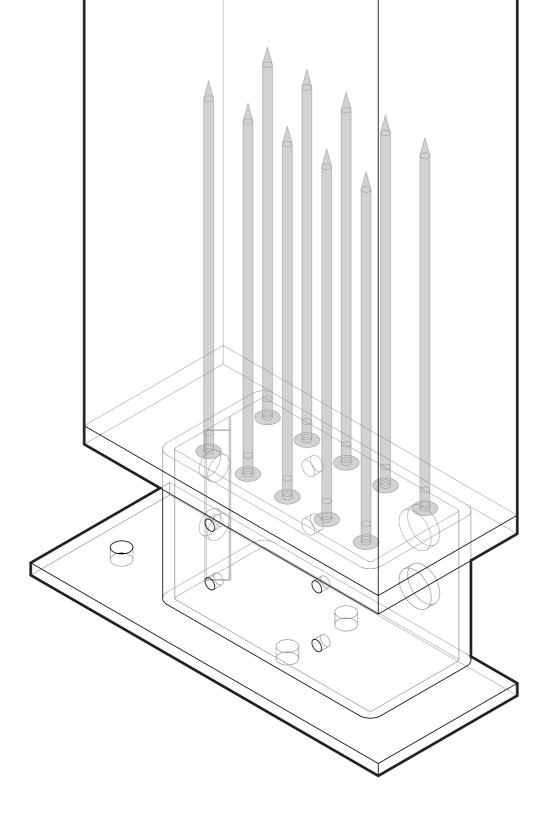


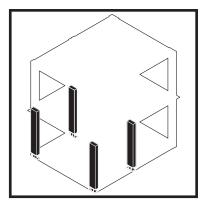


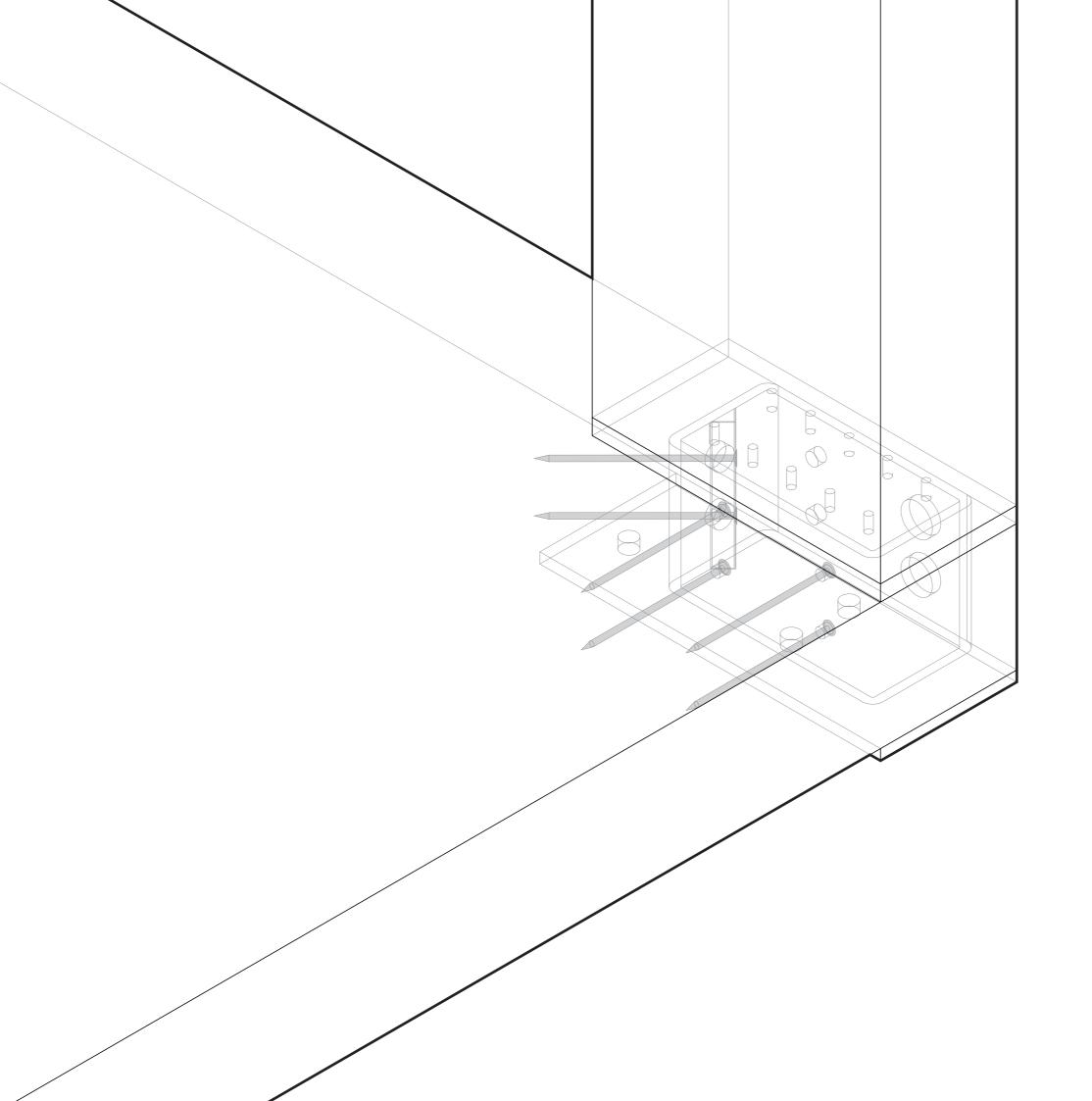
DESIGN | CIRCLEWOOD 36

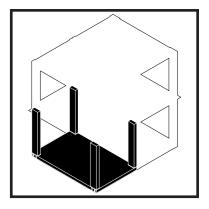


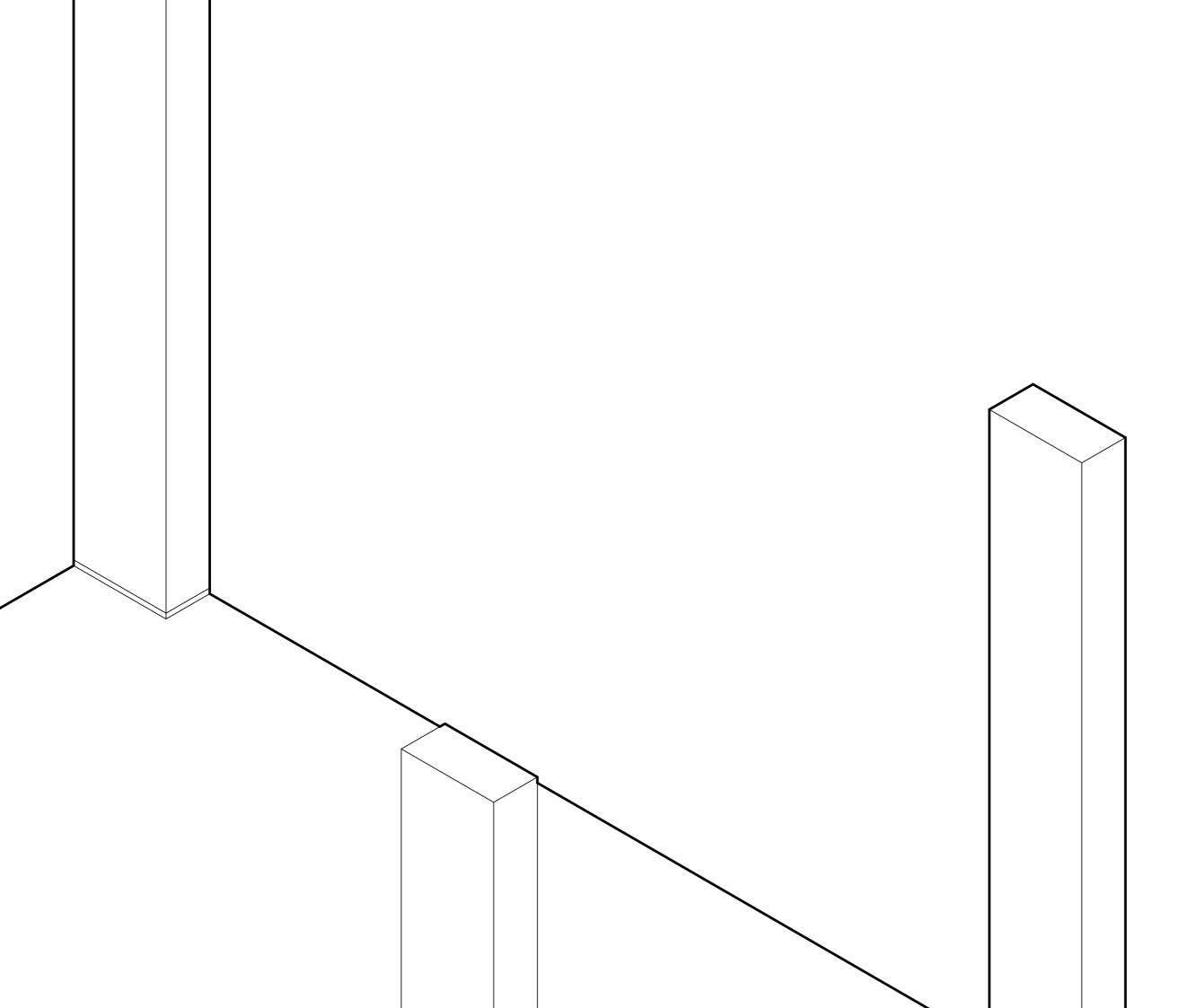


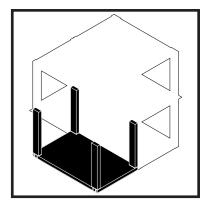


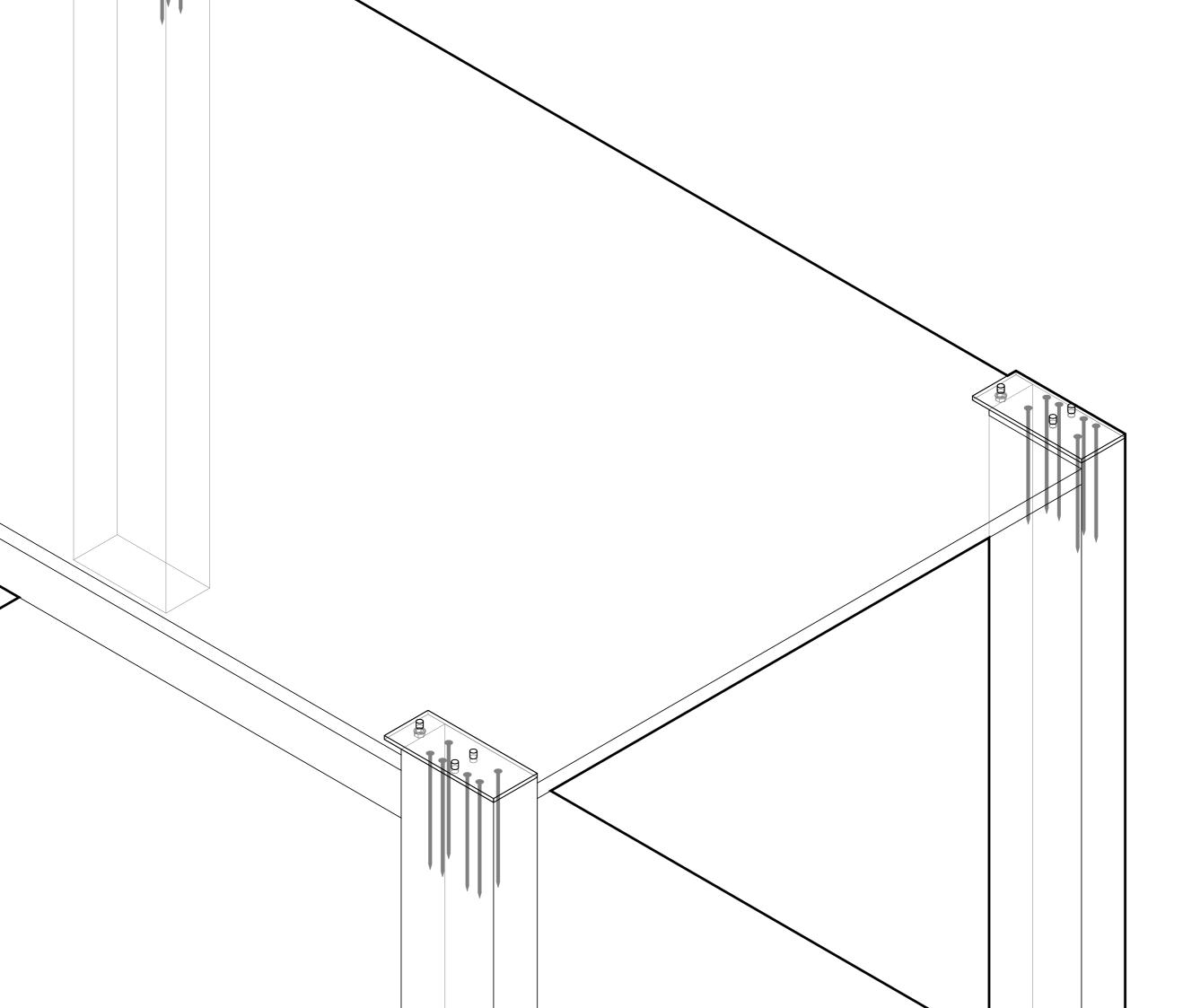


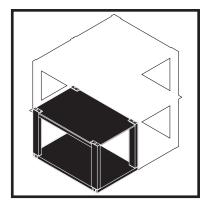


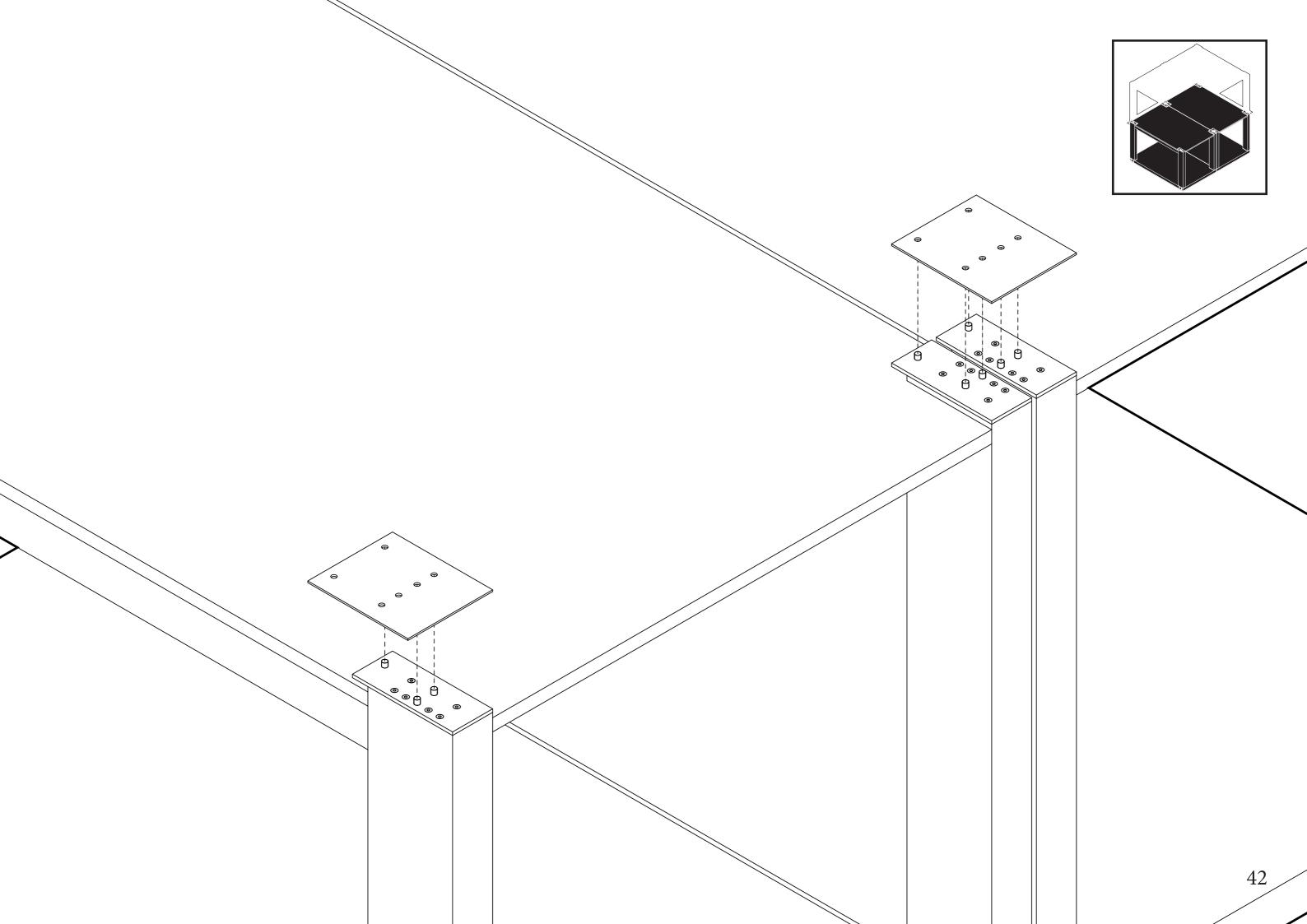


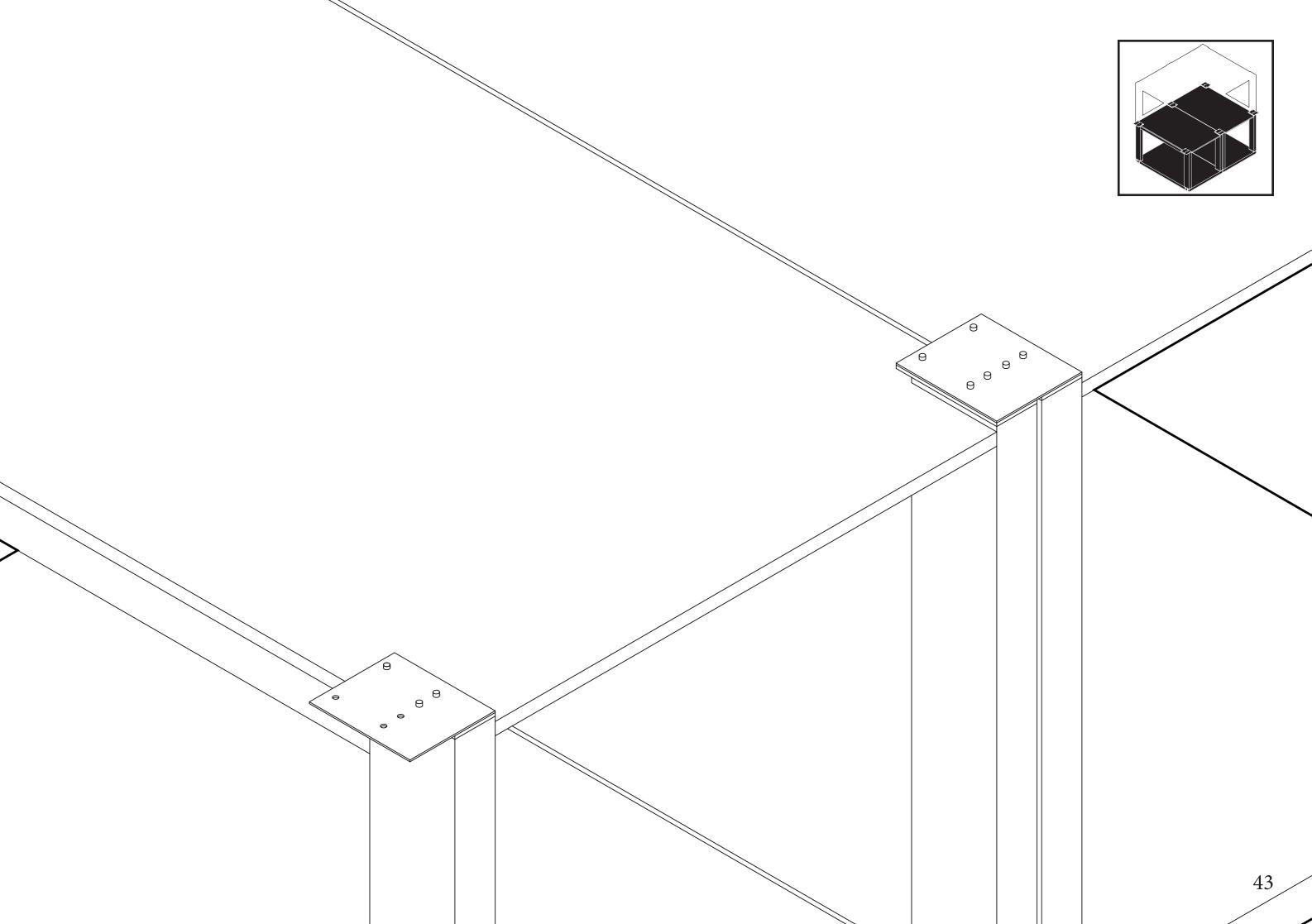


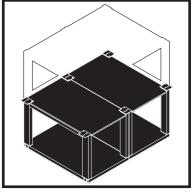


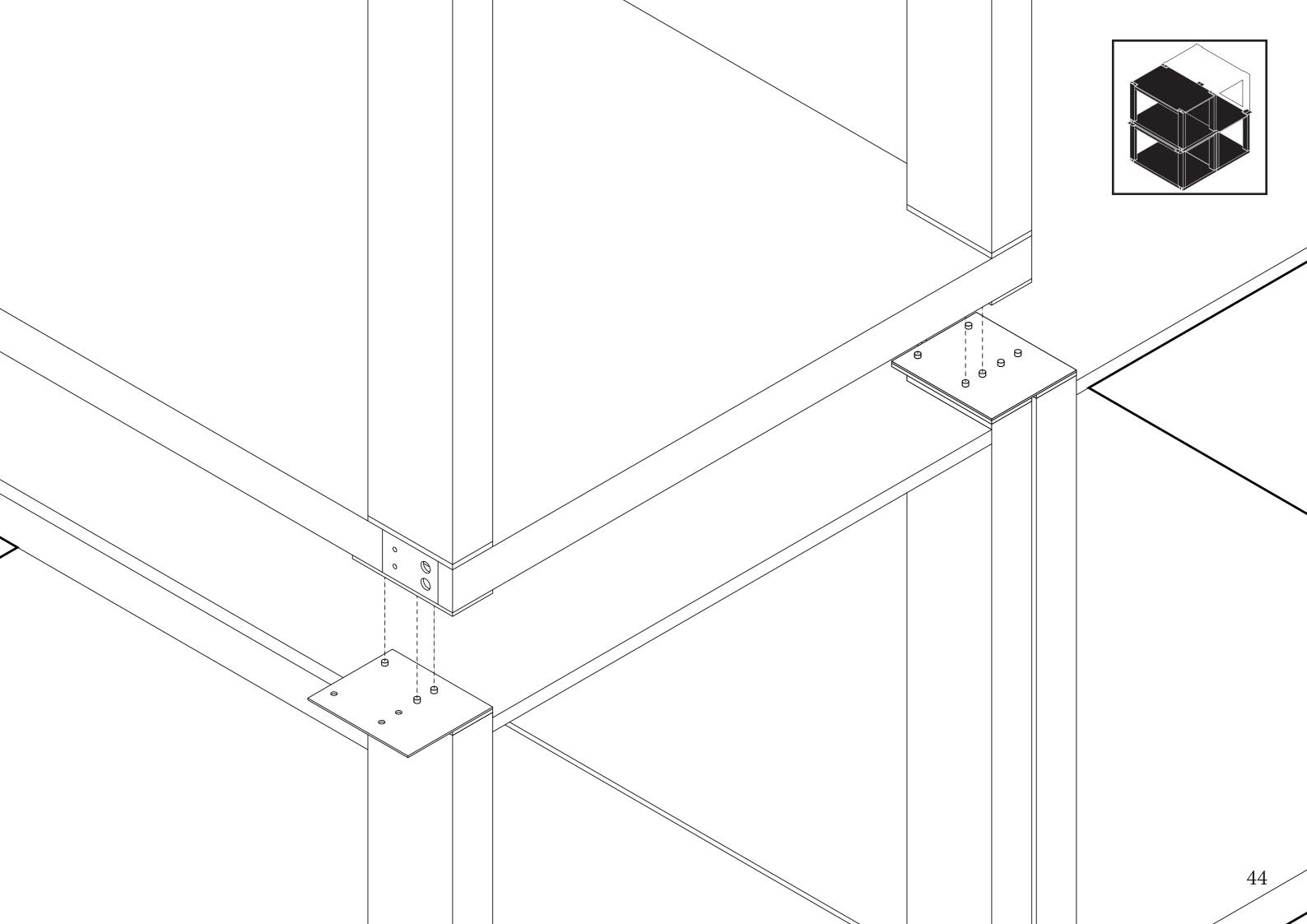


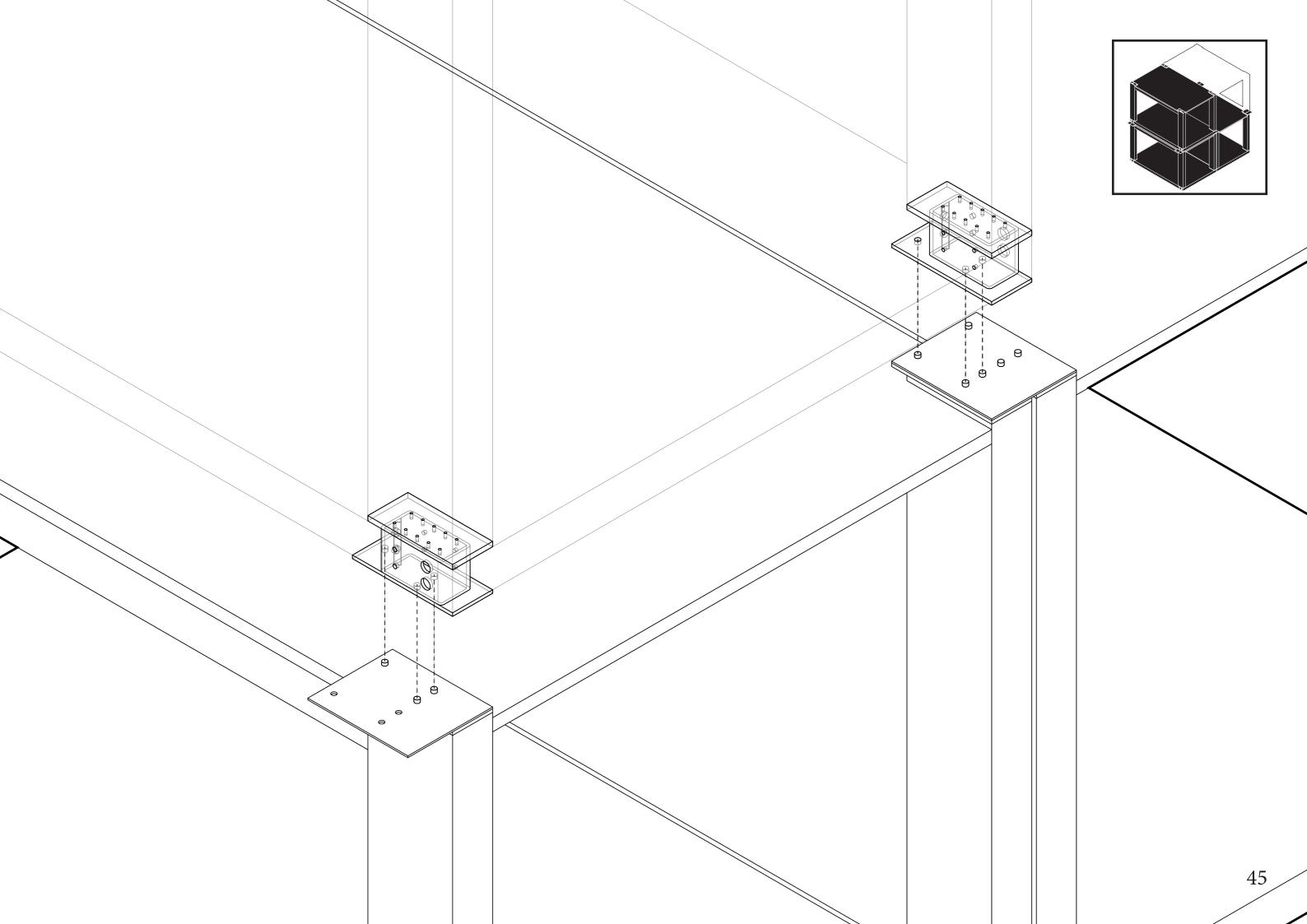


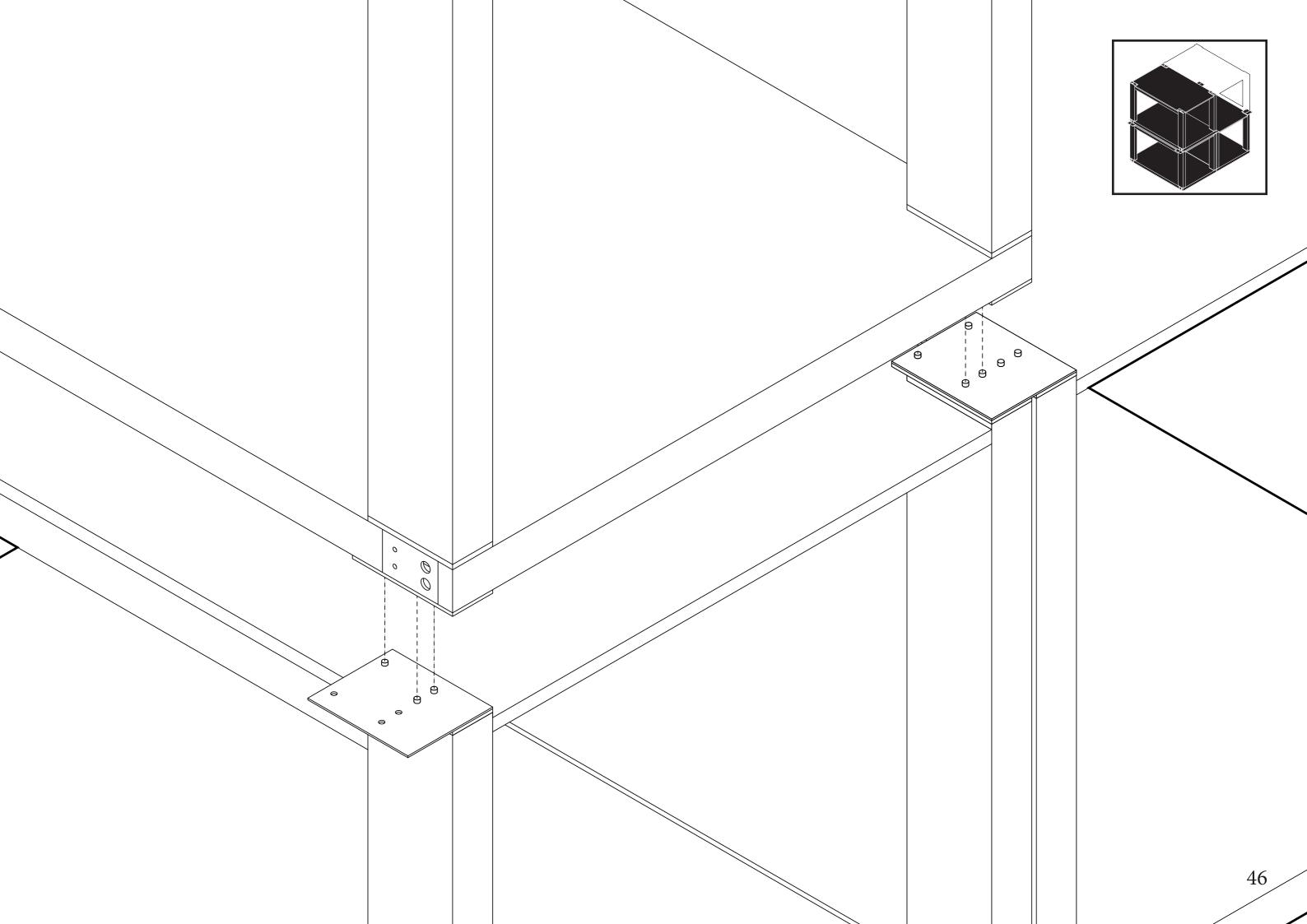


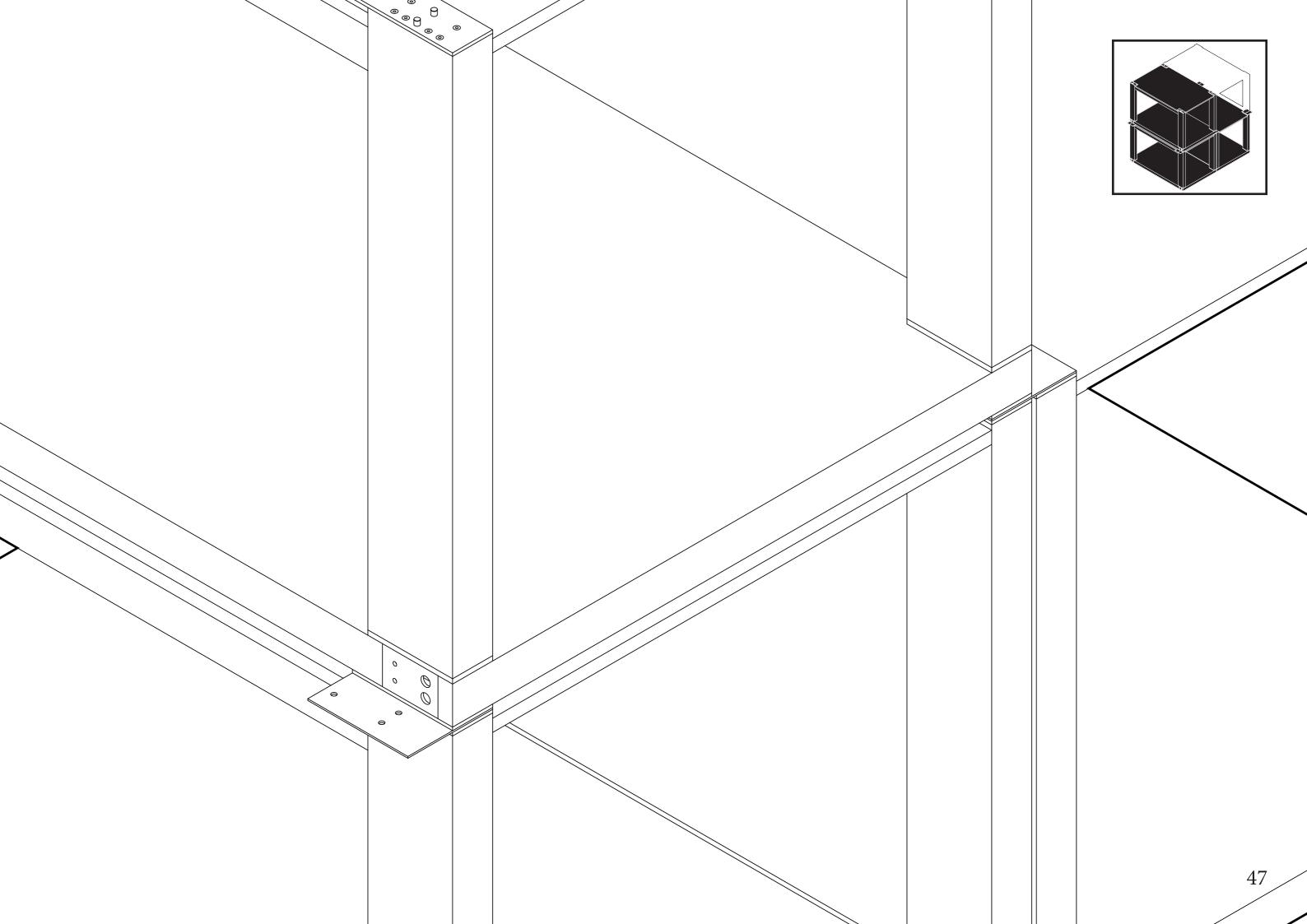


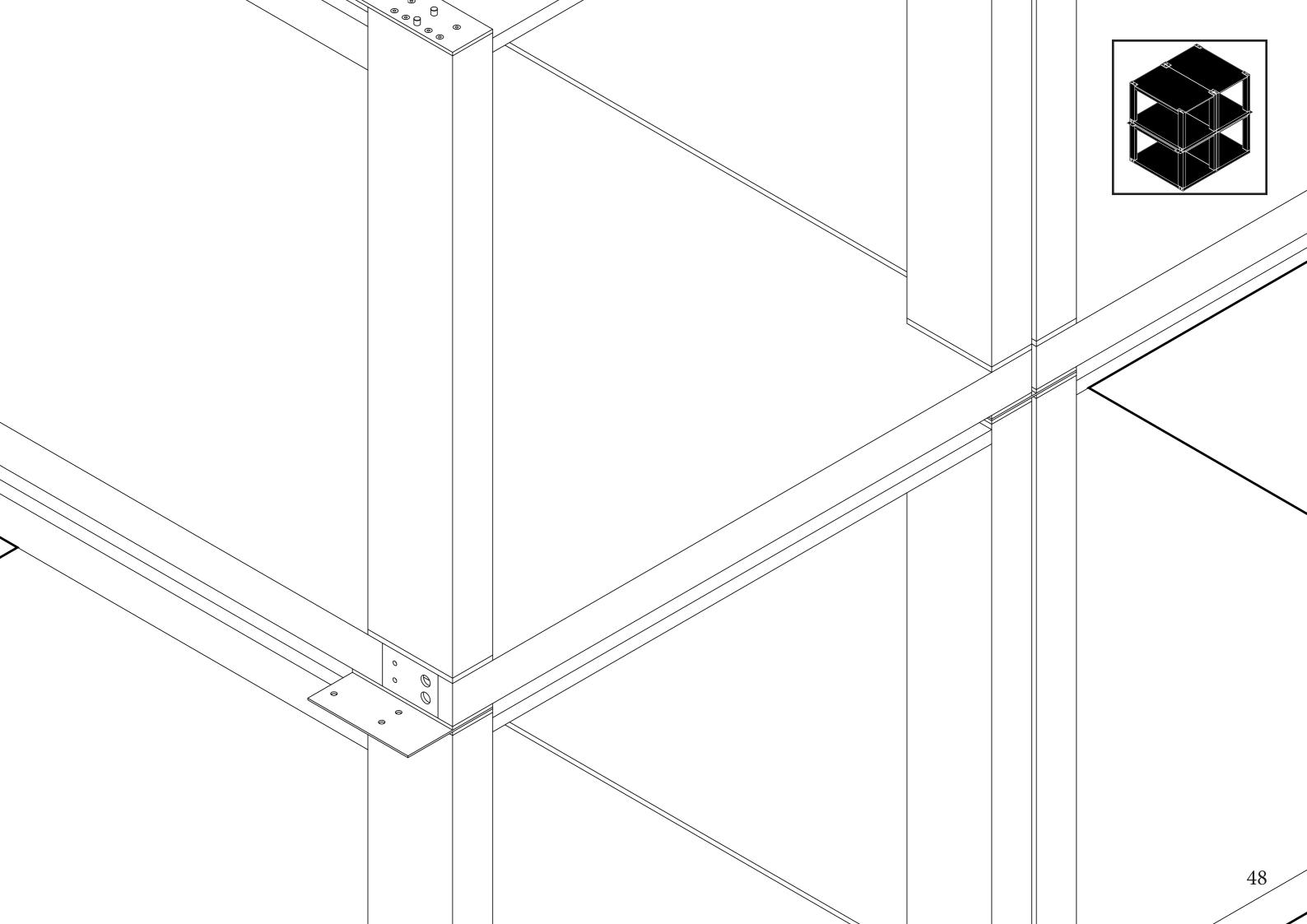


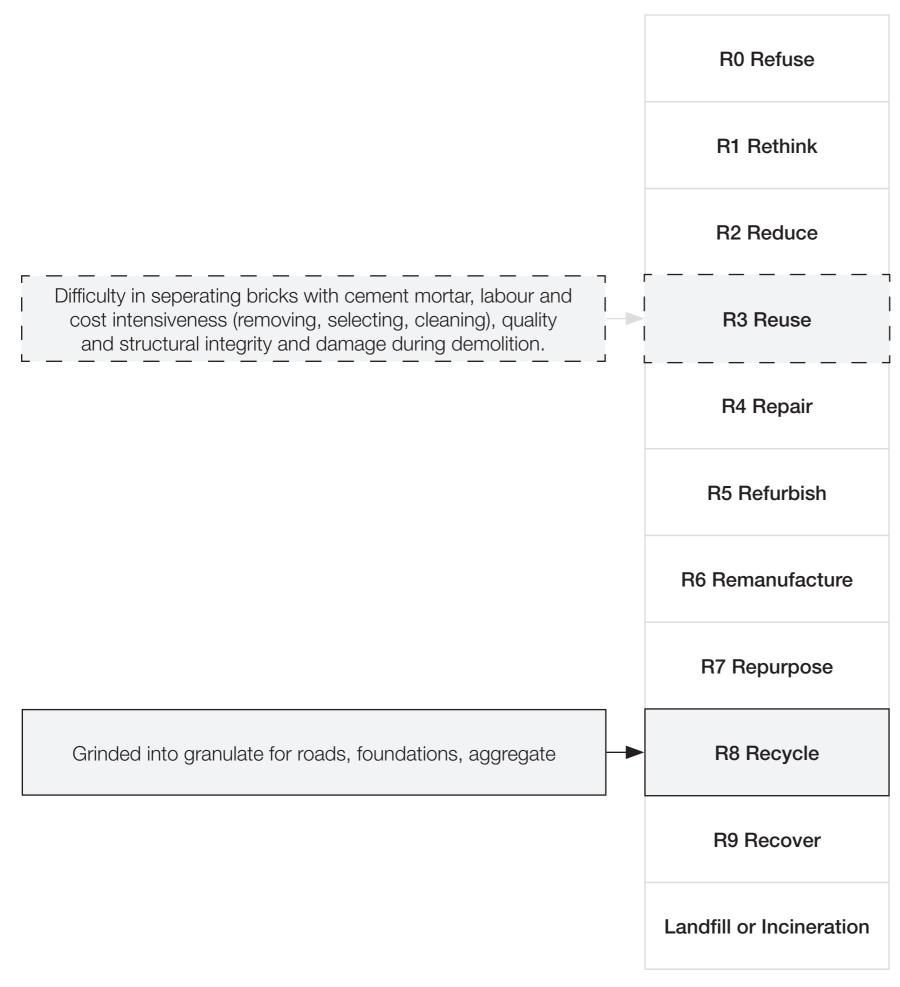




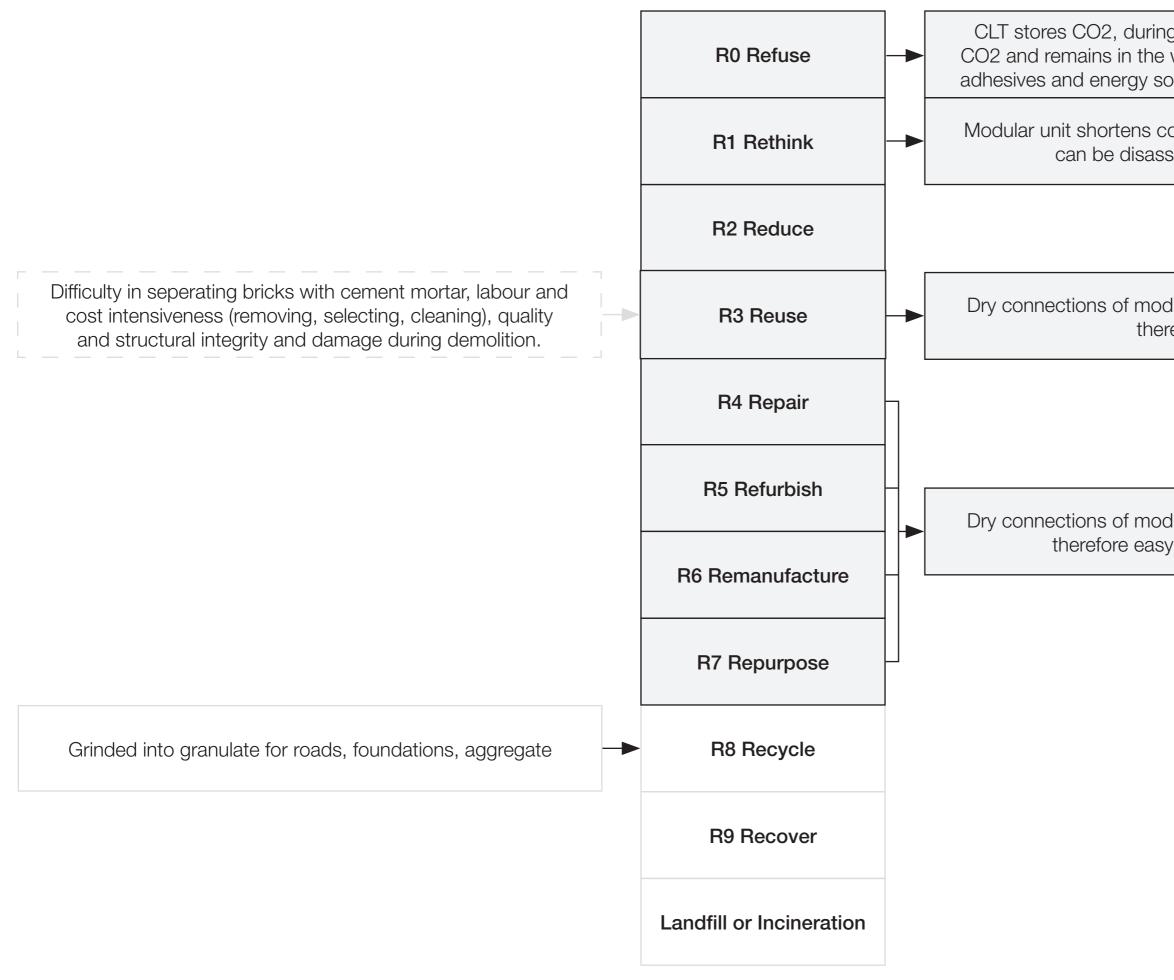








DESIGN | CIRCLEWOOD 49



CLT stores CO2, during the growth of the tree it absorbs CO2 and remains in the wood. Depending on the transport, adhesives and energy sources used CLT is carbon-negative

Modular unit shortens construction time, are cost effecient, can be disassembled and are flexible.

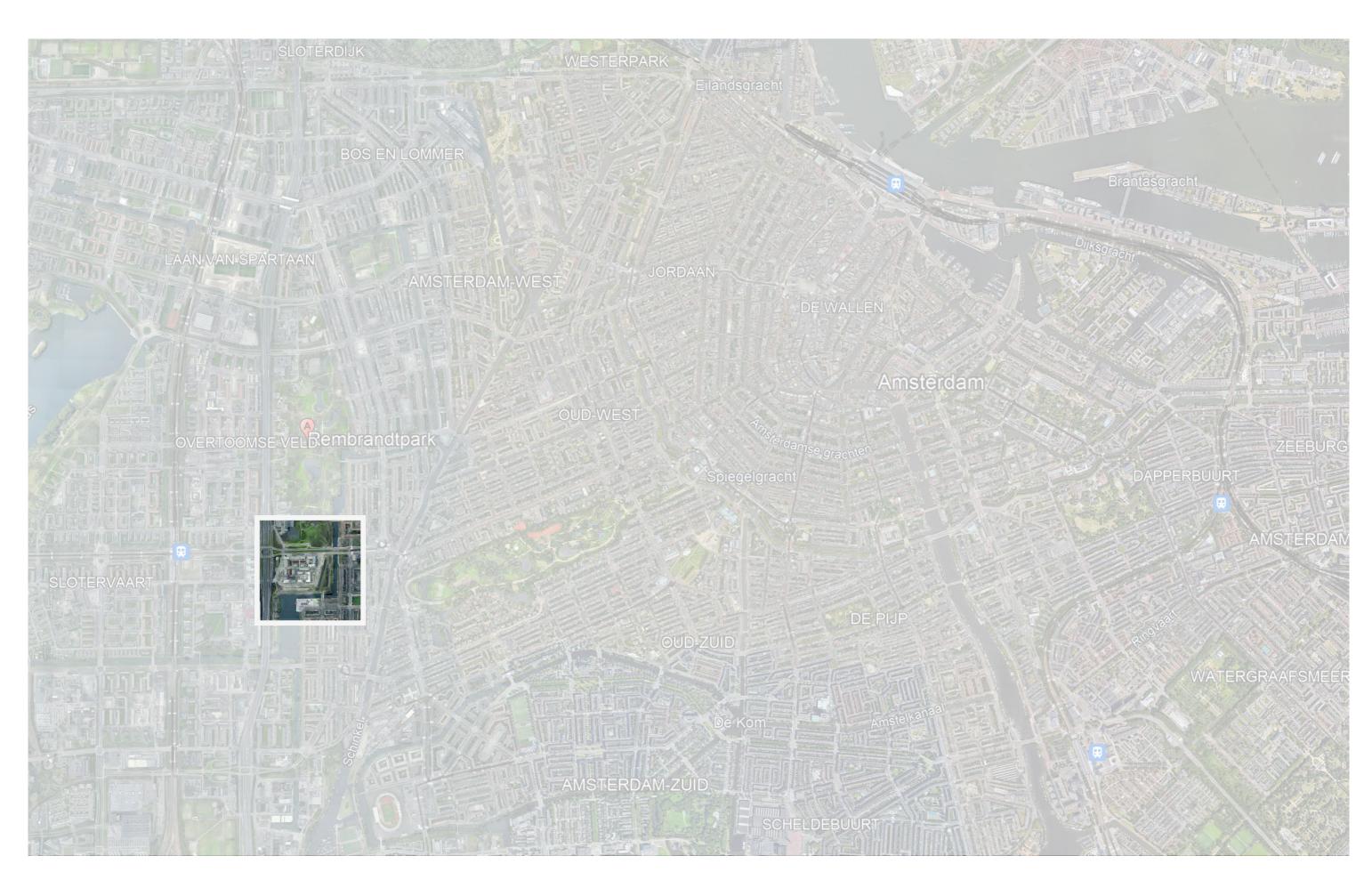
Dry connections of modular unit make it demountable and therefore reusable.

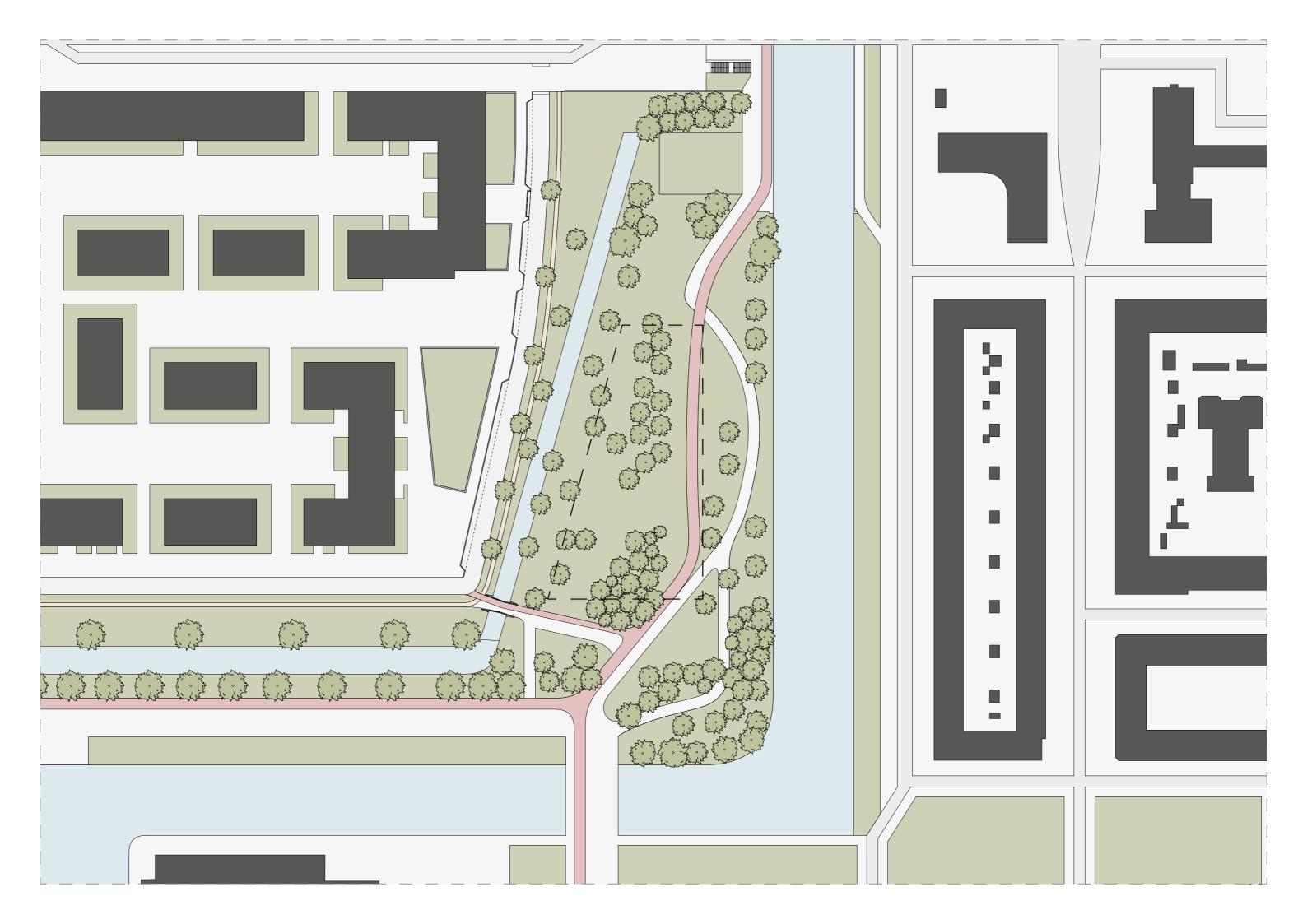
Dry connections of modular unit make it demountable and therefore easy to handle and maintain.

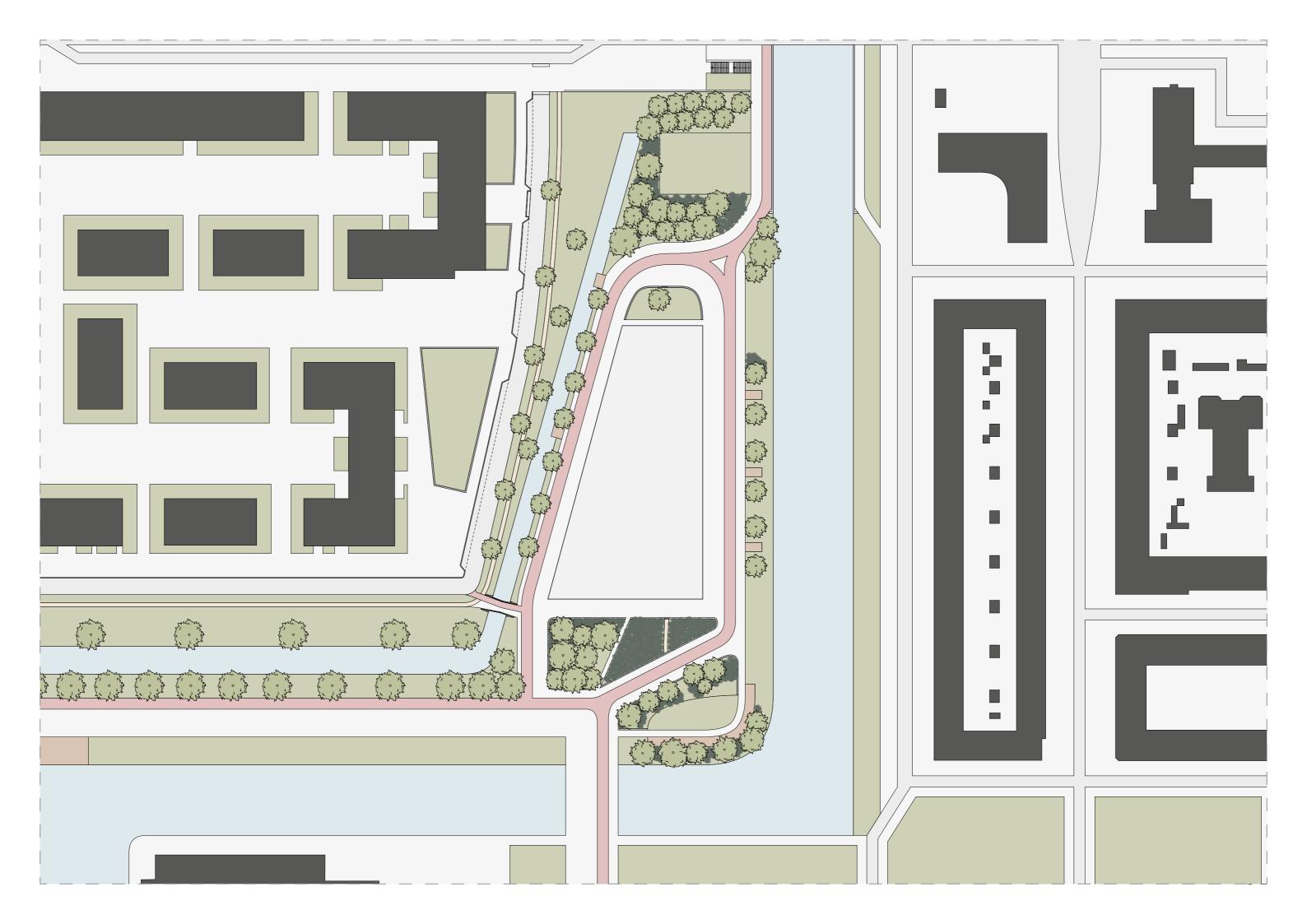
Circular strategy of Circle Wood: Modular unit with CLT components and Steel Joint

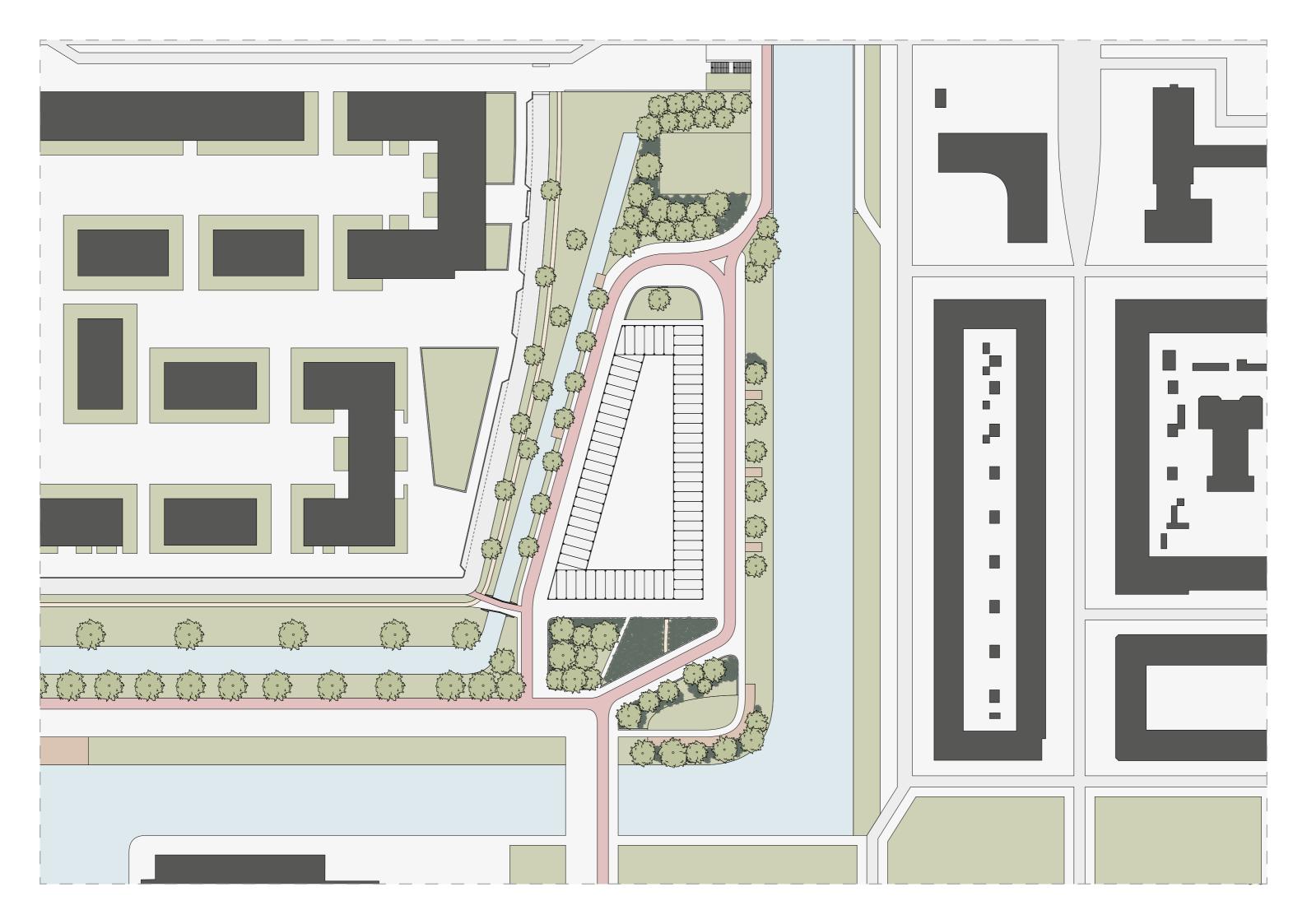


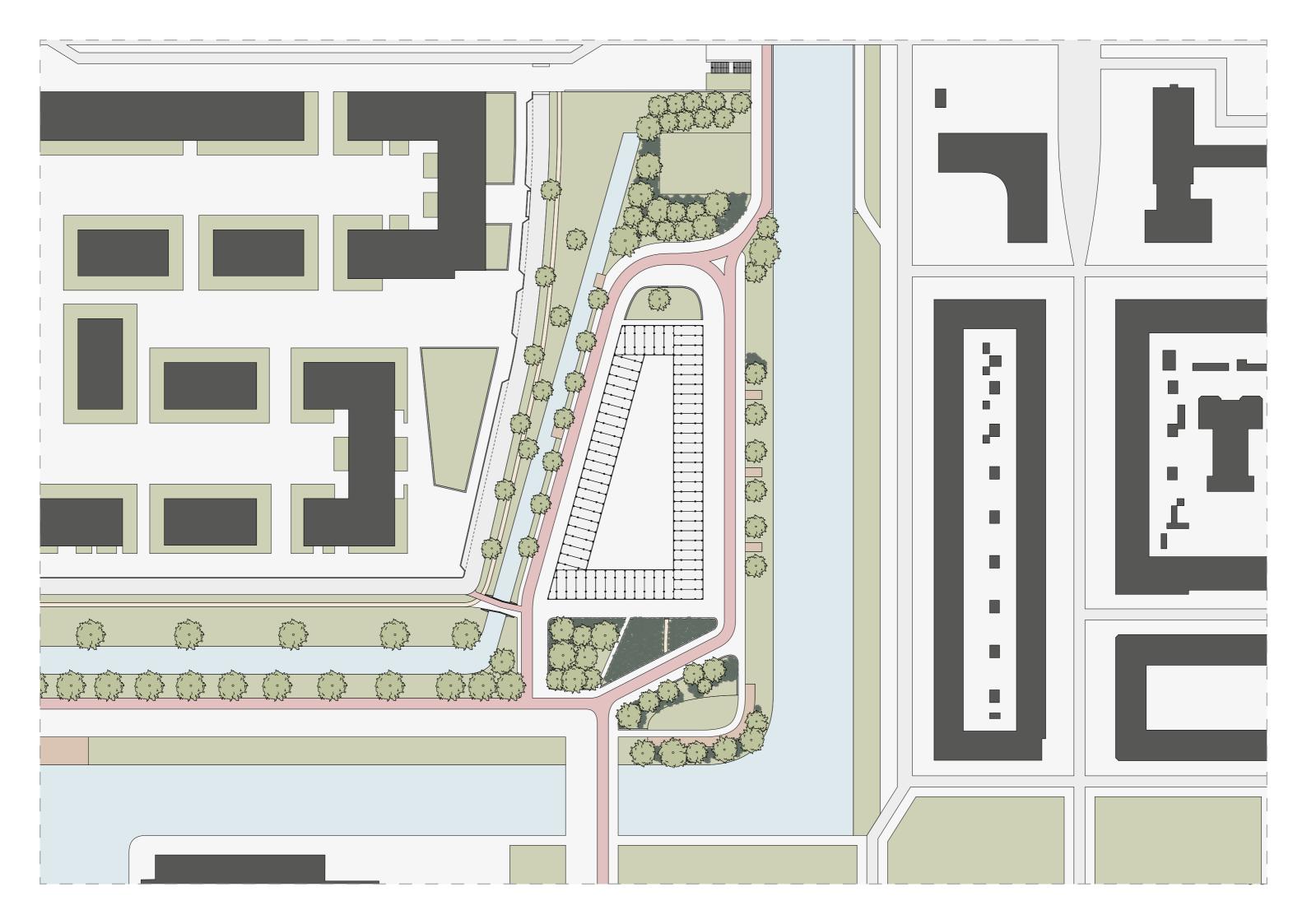


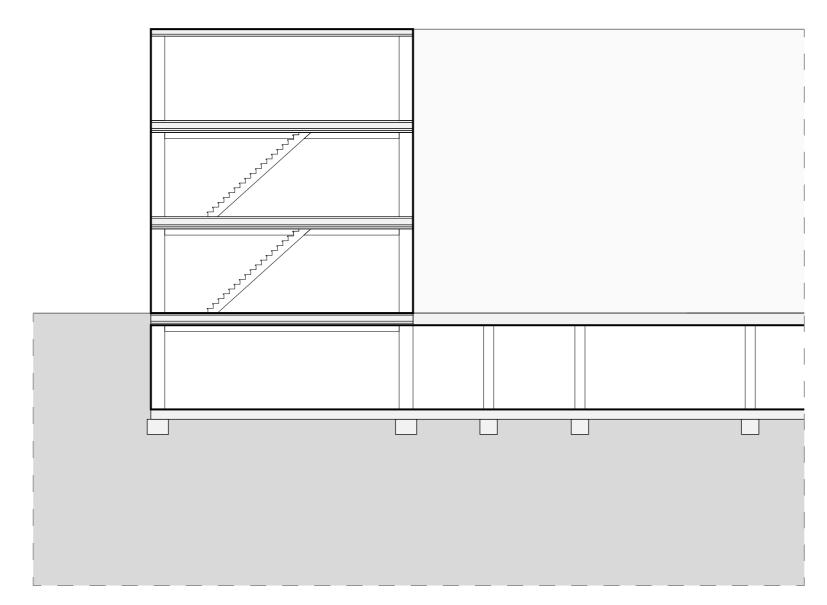




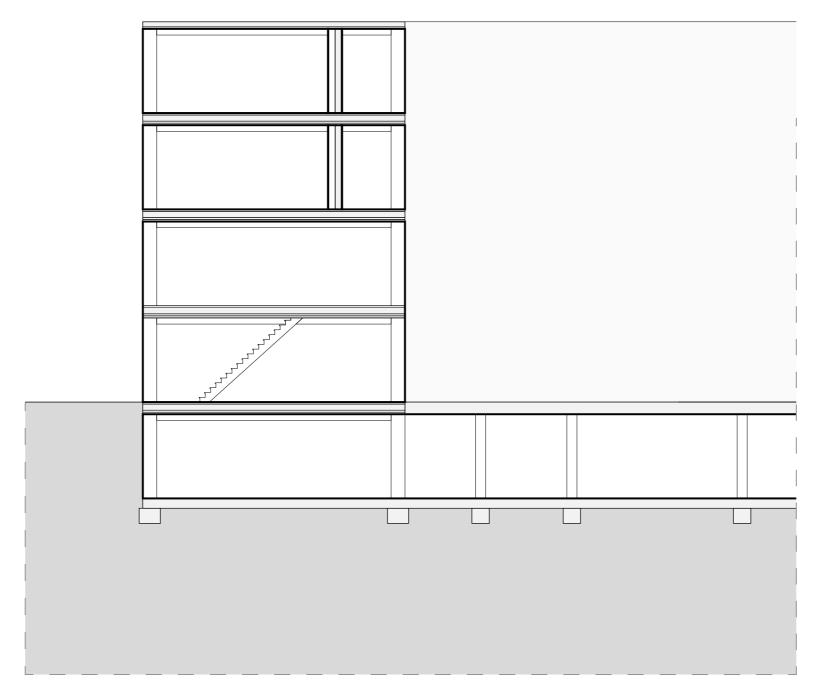




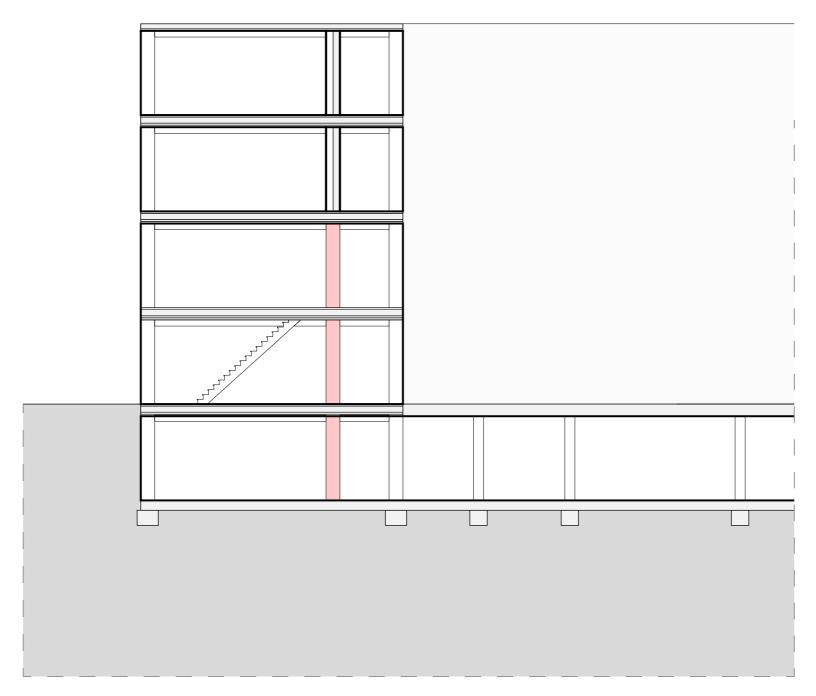




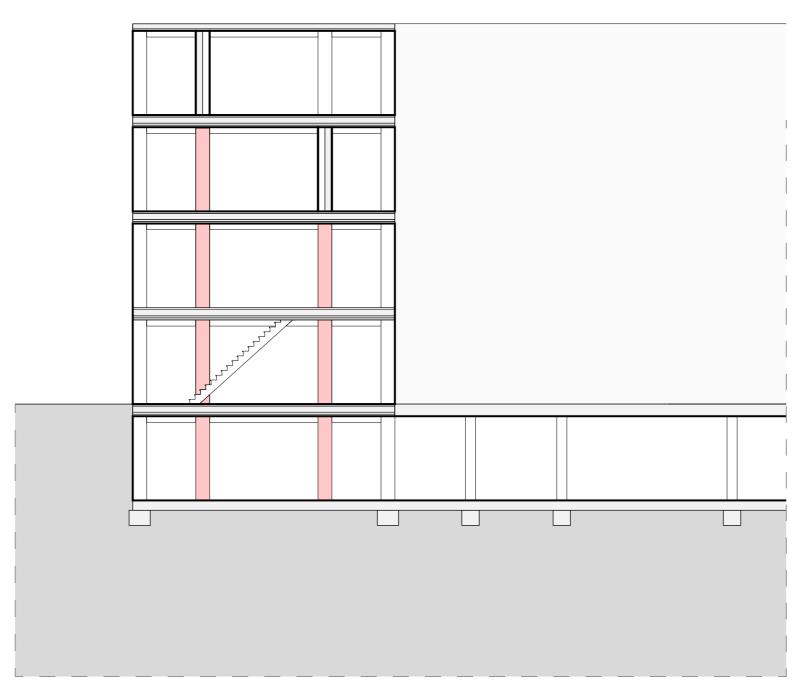
Column Placement rowhouse



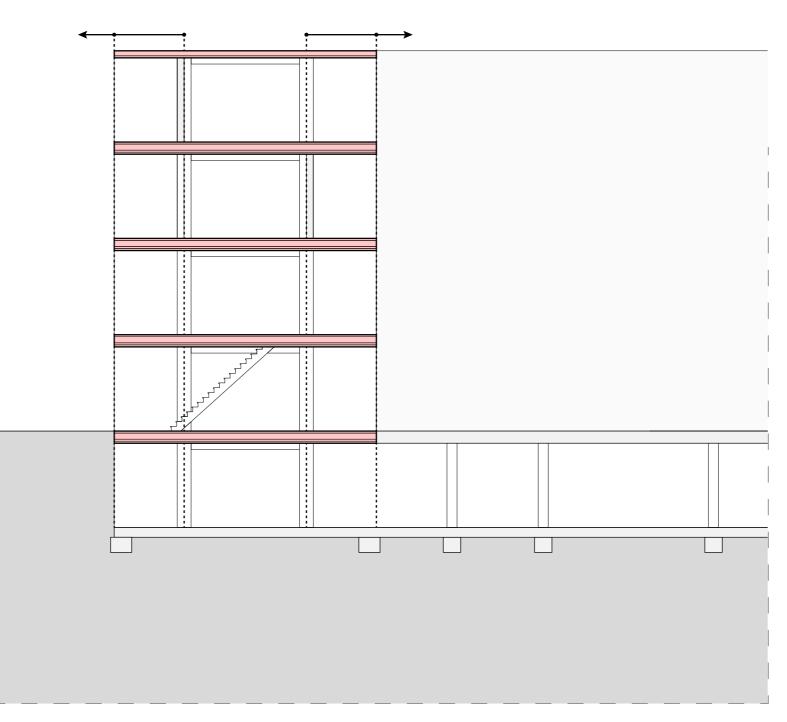
Extra Columns with apartments



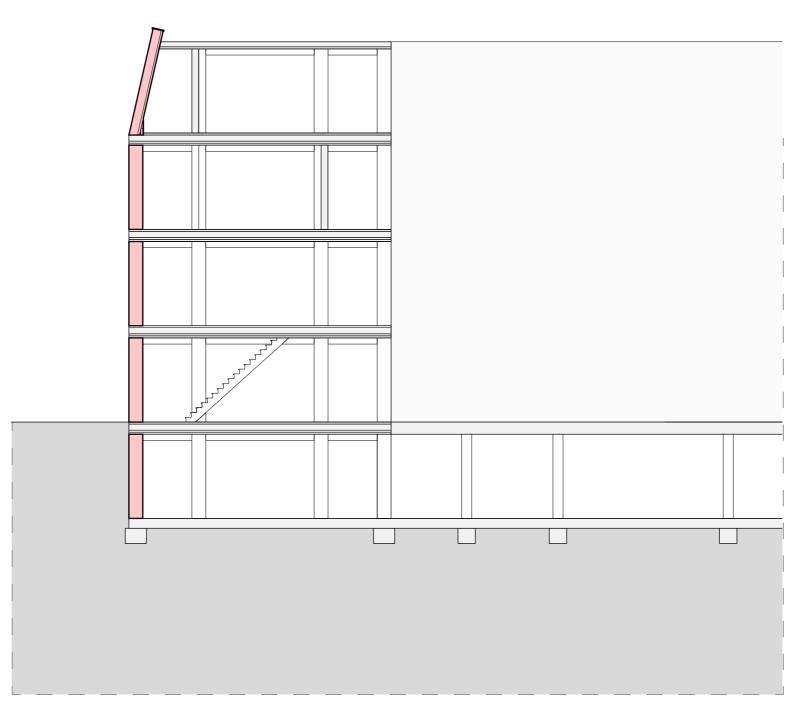
Extra Columns building with apartments stacked on maisonettes



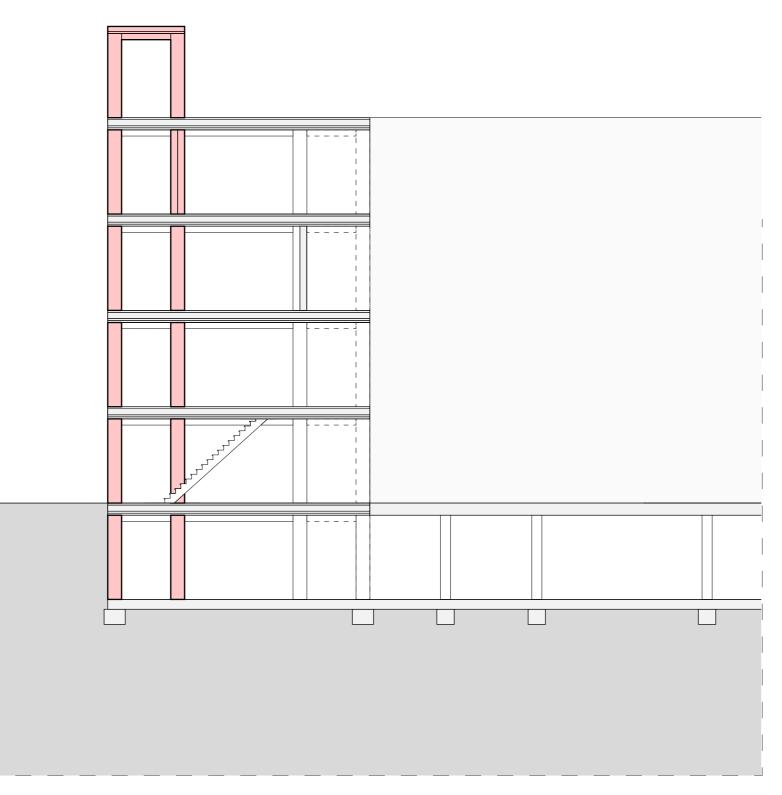
Extra Columns for design freedom



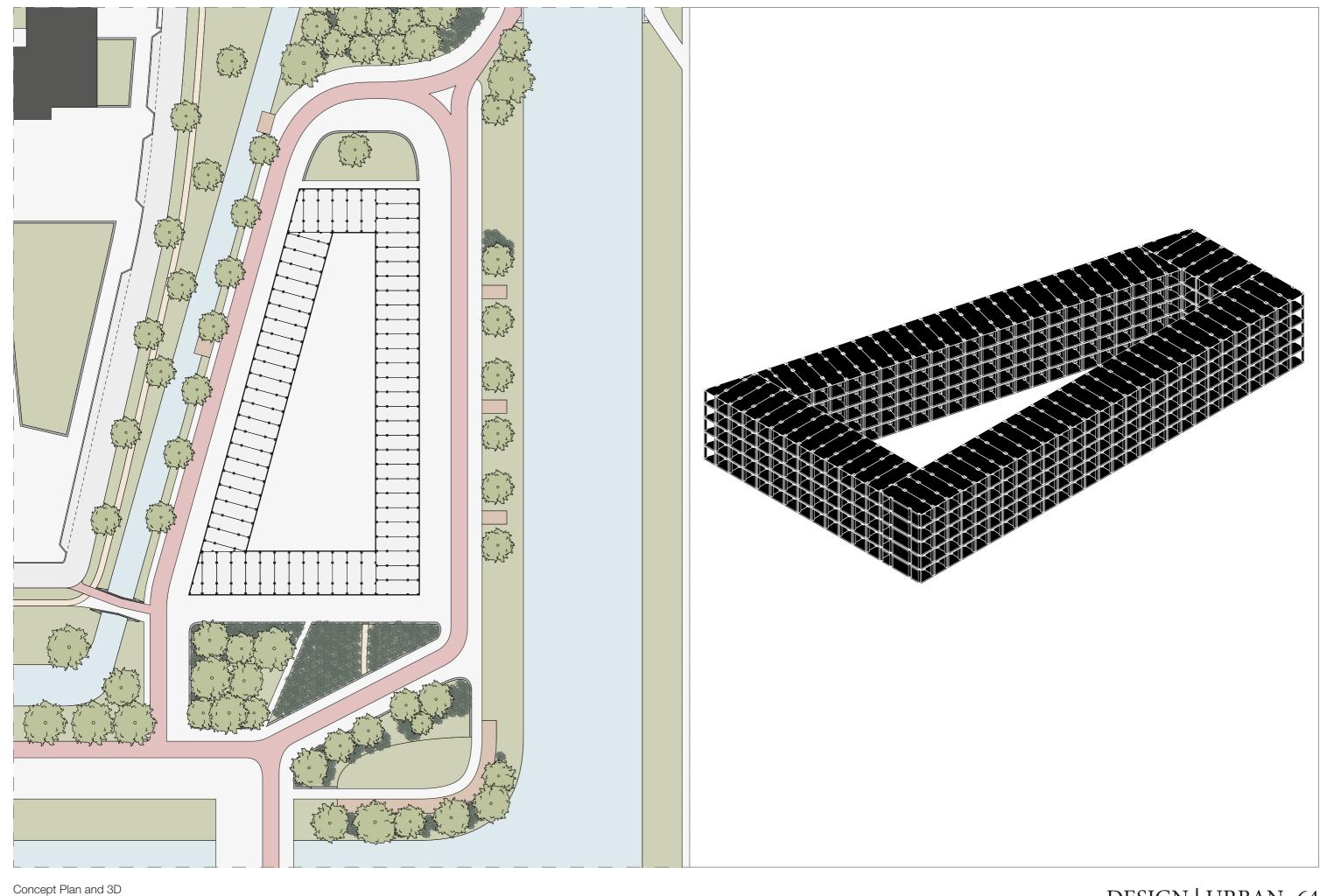
The middle section could be enlarged

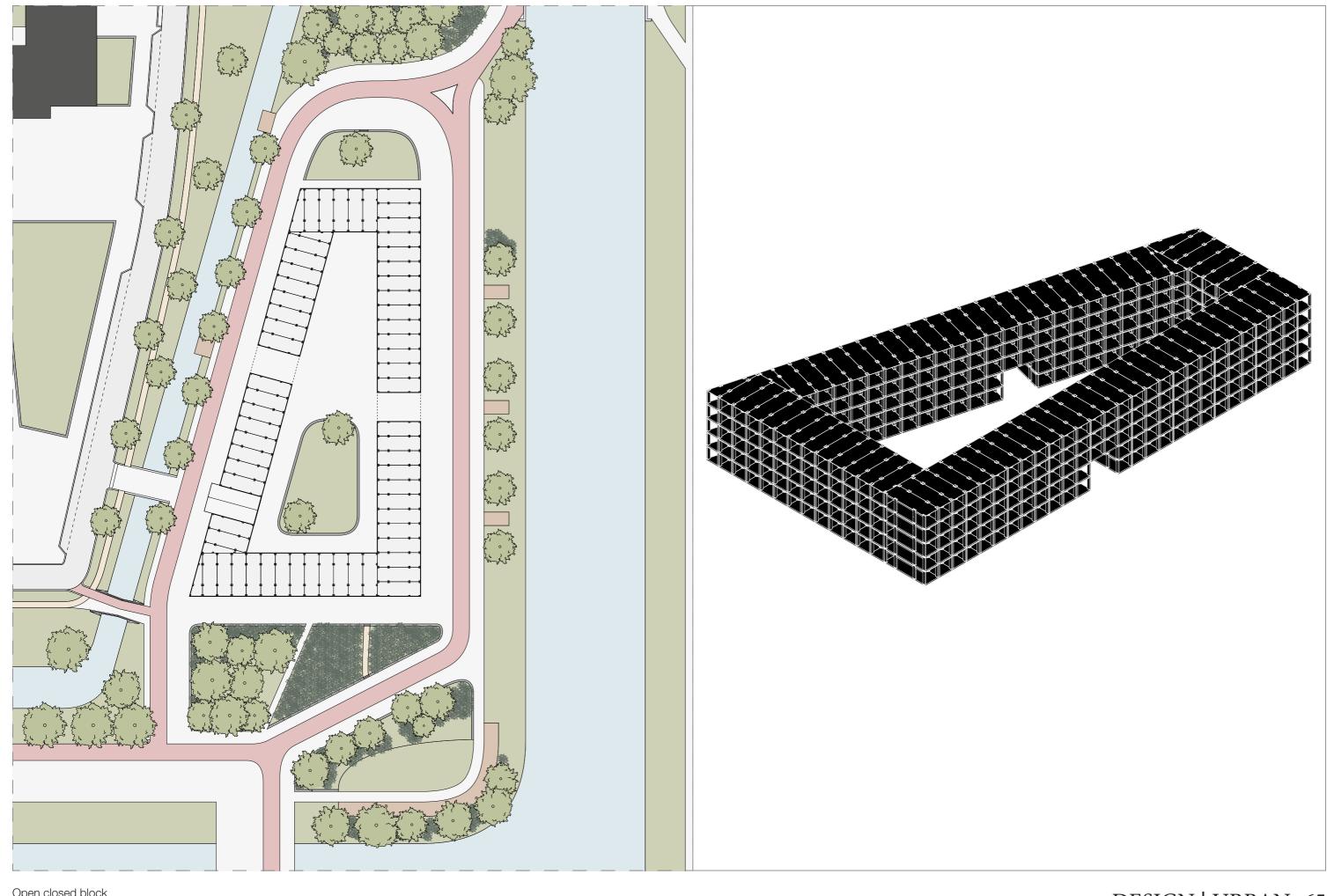


Addition of heavier loads to support the use of the design principles

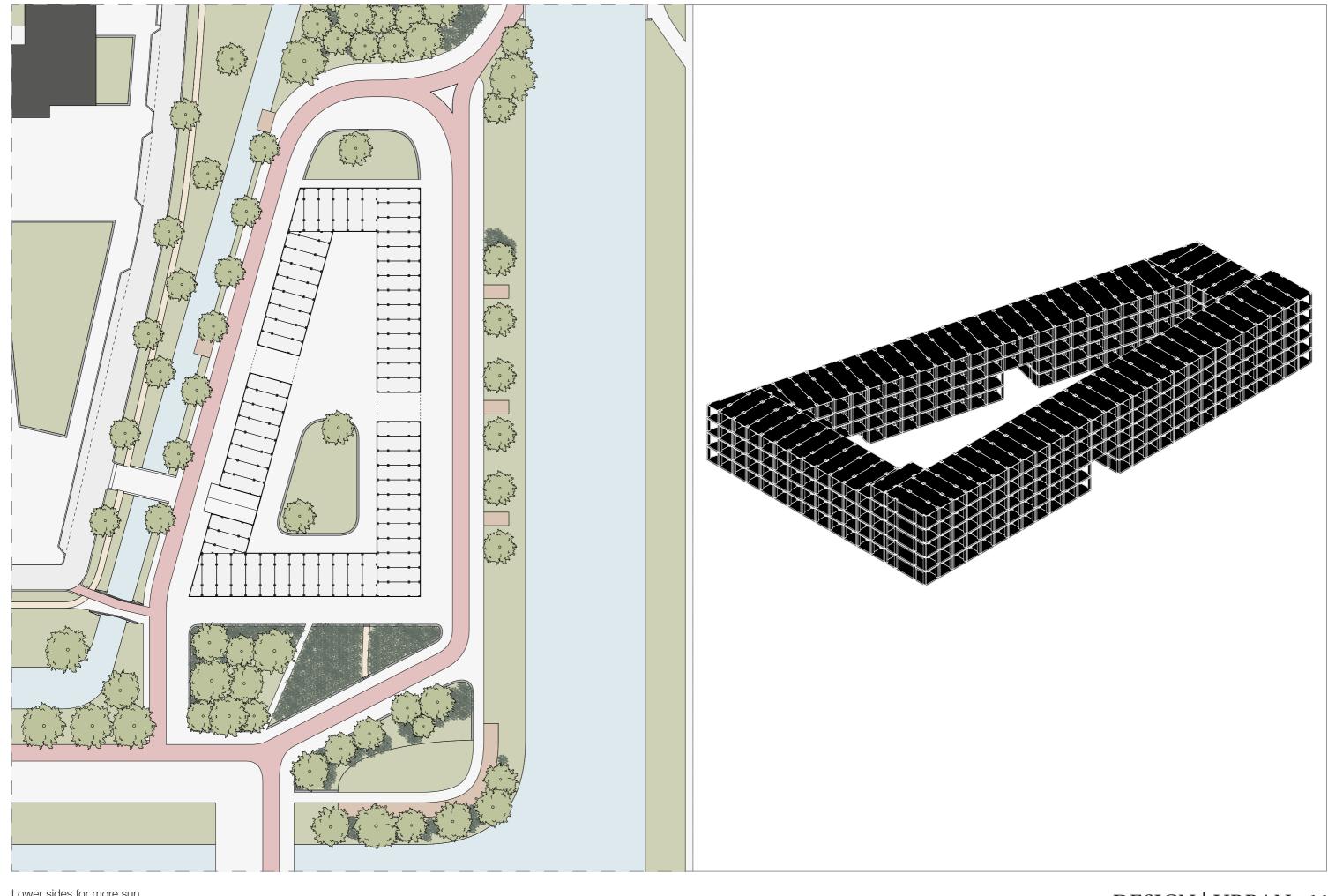


Addition of heavier loads to support the use of the design principles





Open closed block

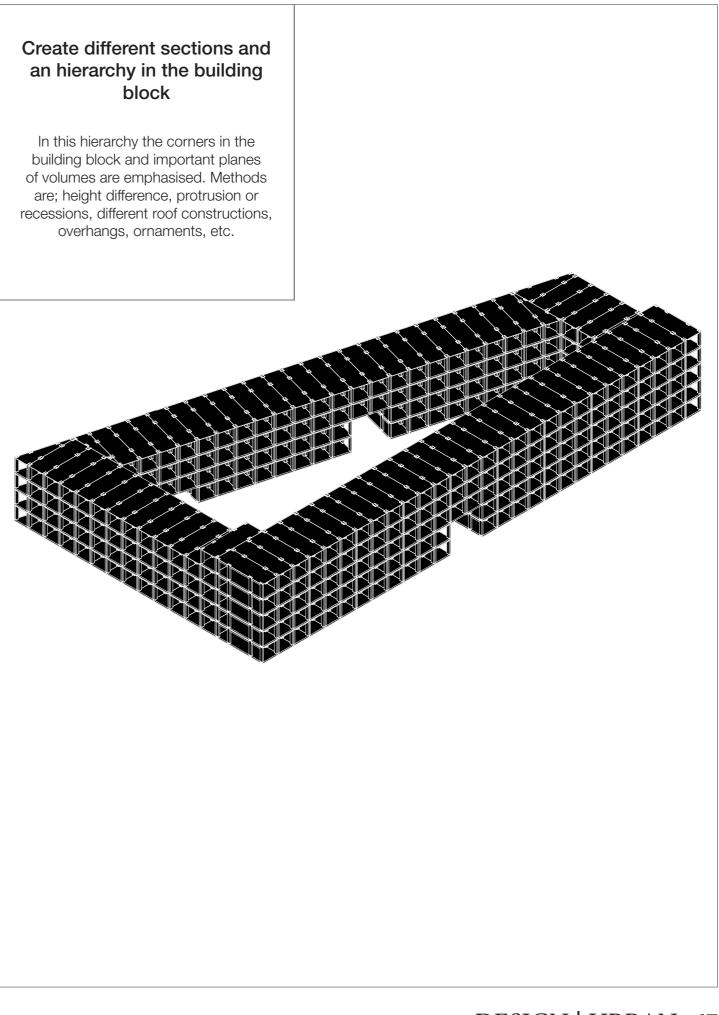


Lower sides for more sun



block

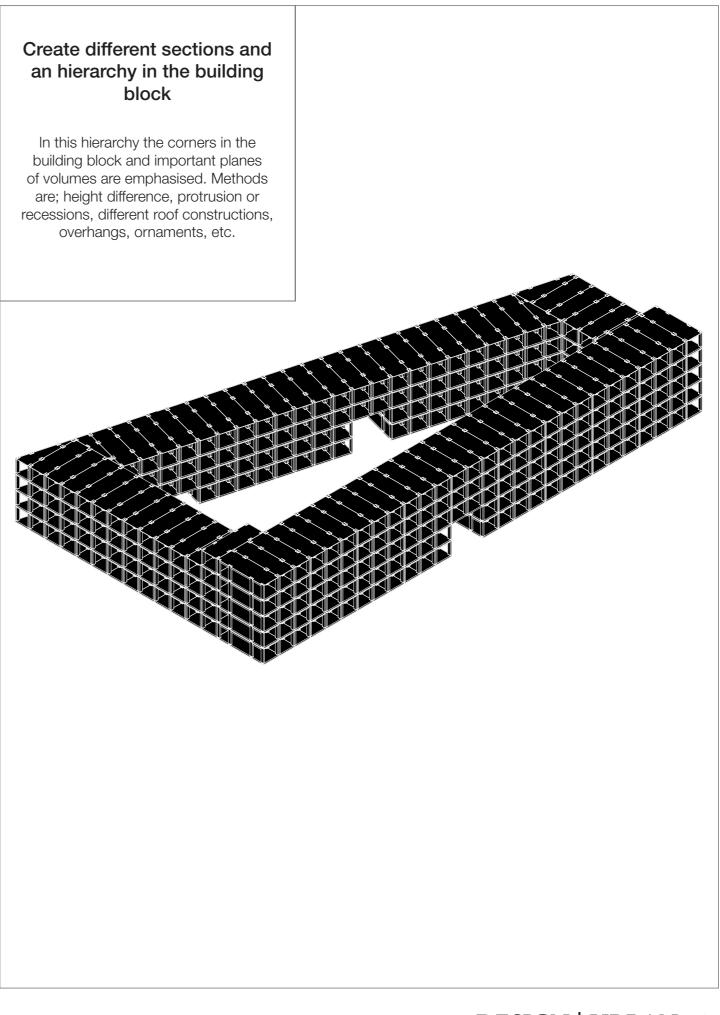
of volumes are emphasised. Methods are; height difference, protrusion or overhangs, ornaments, etc.

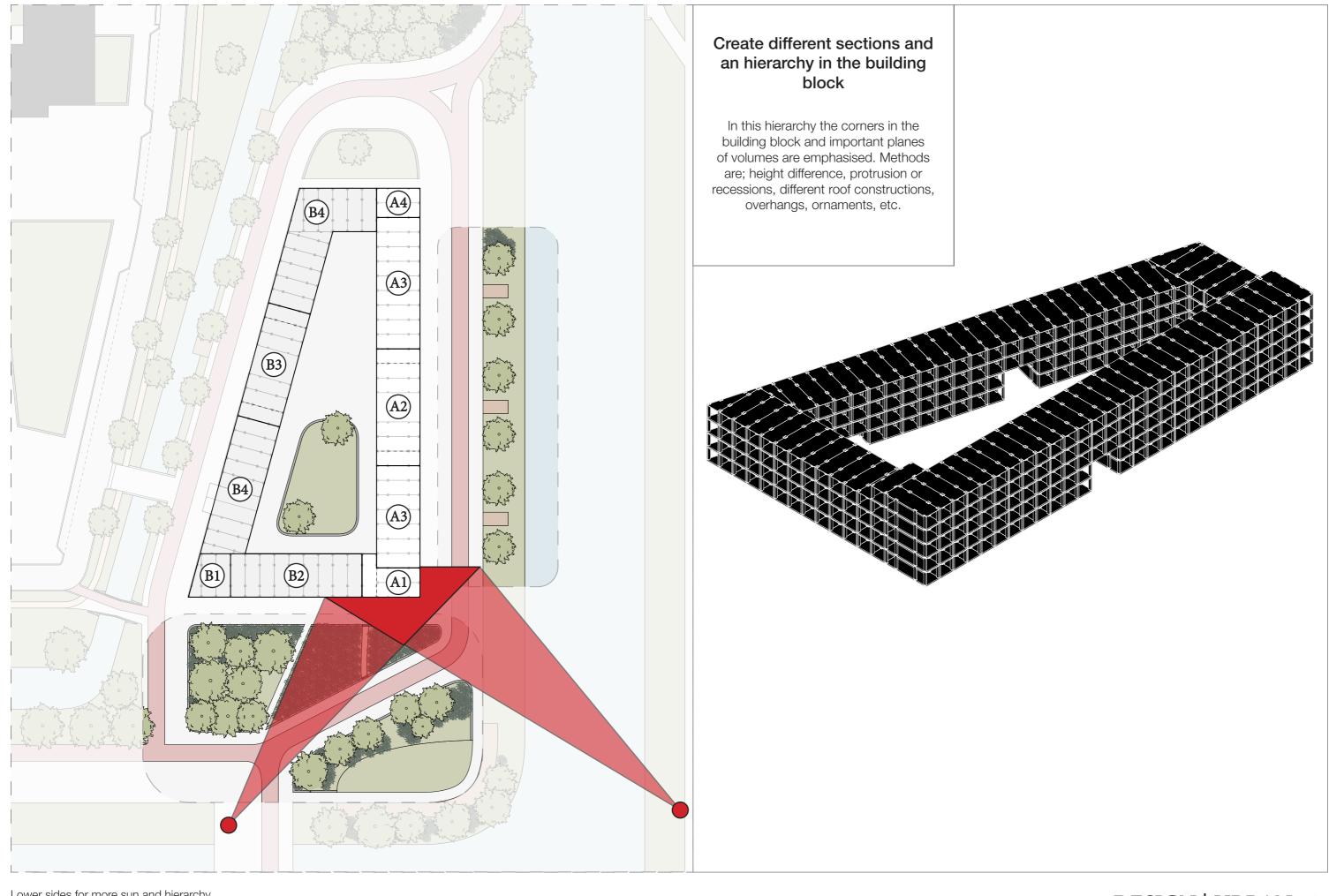




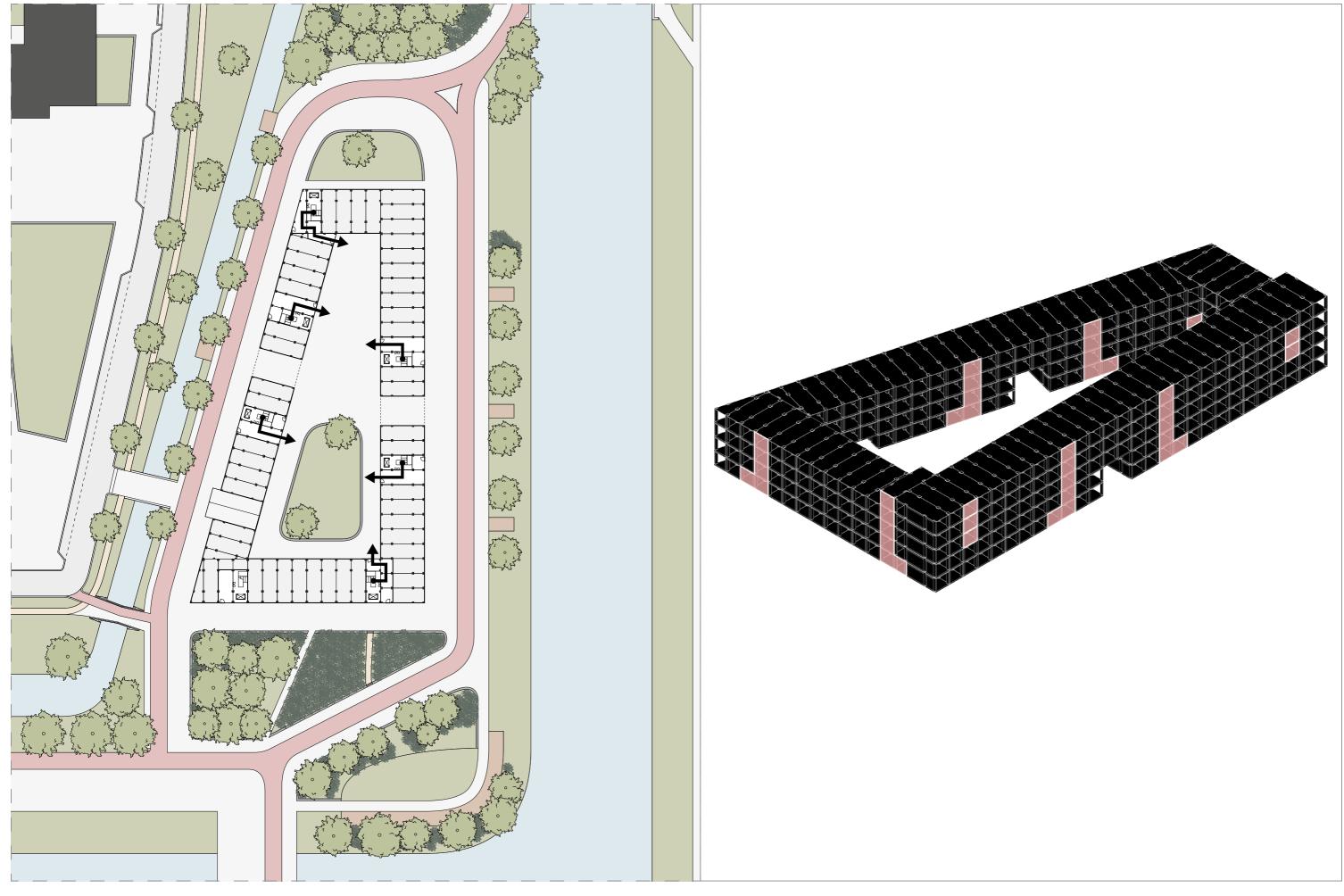
block

are; height difference, protrusion or



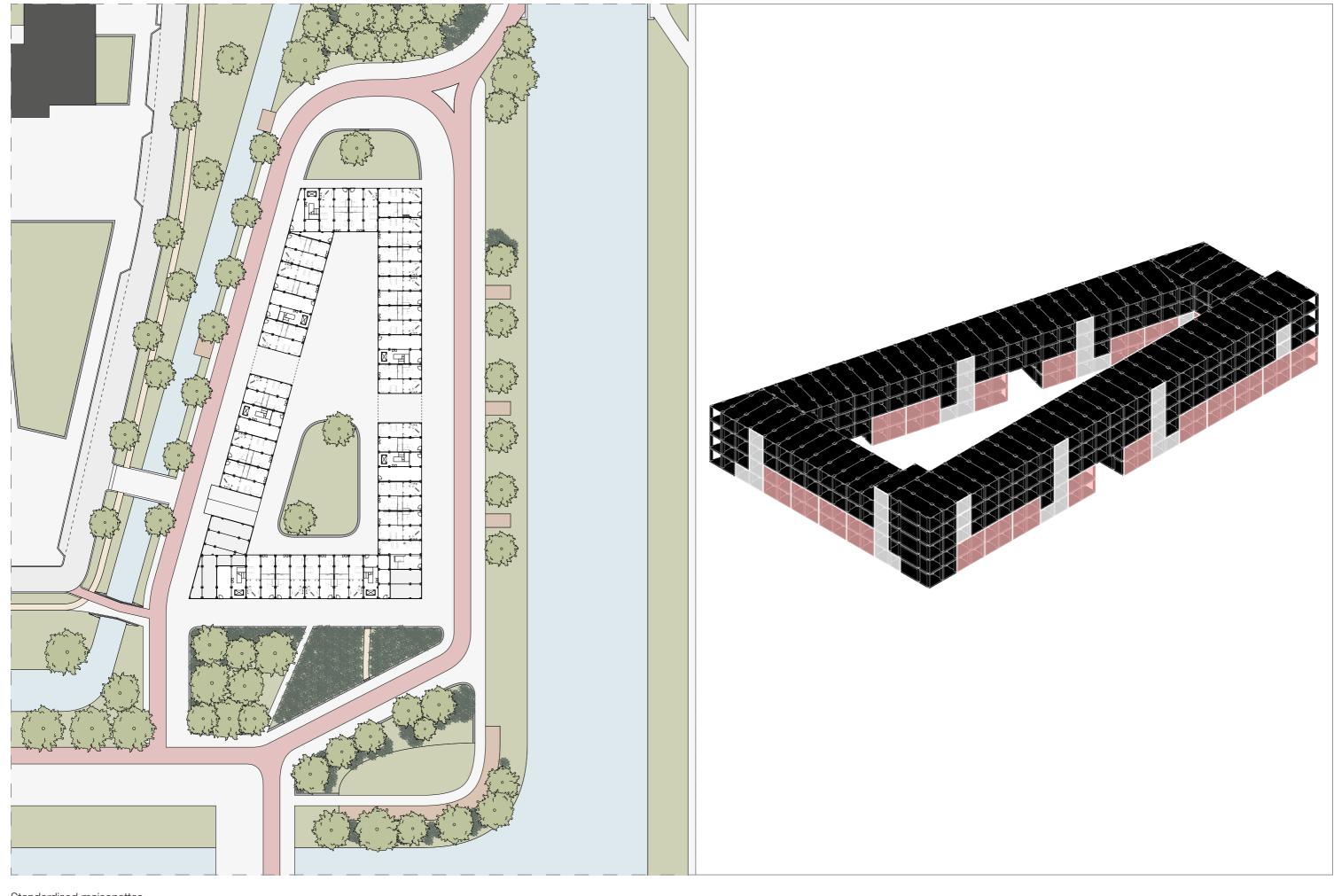


Lower sides for more sun and hierarchy



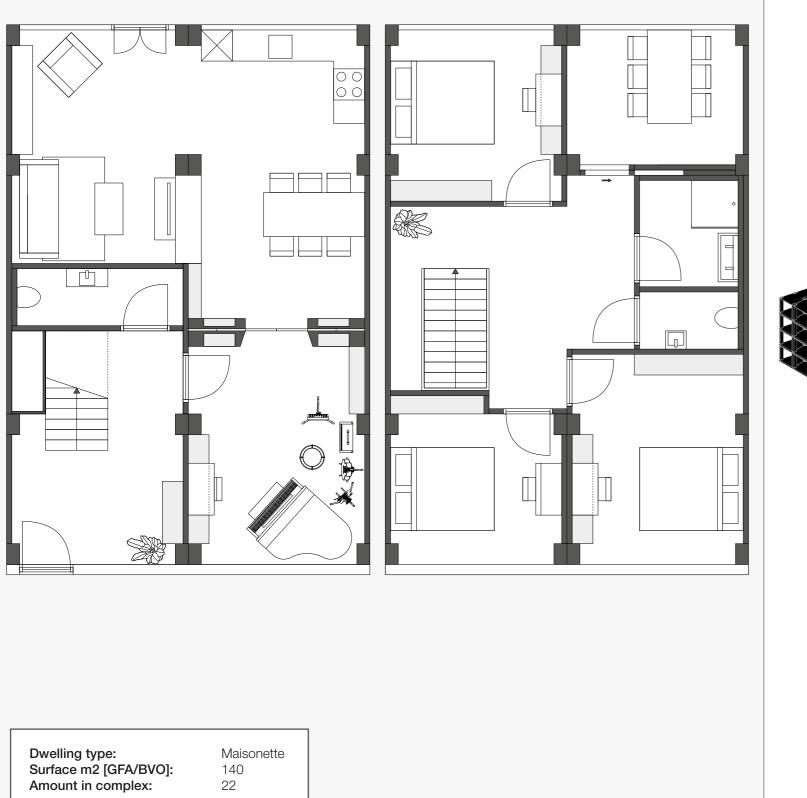
Accessability courtyard

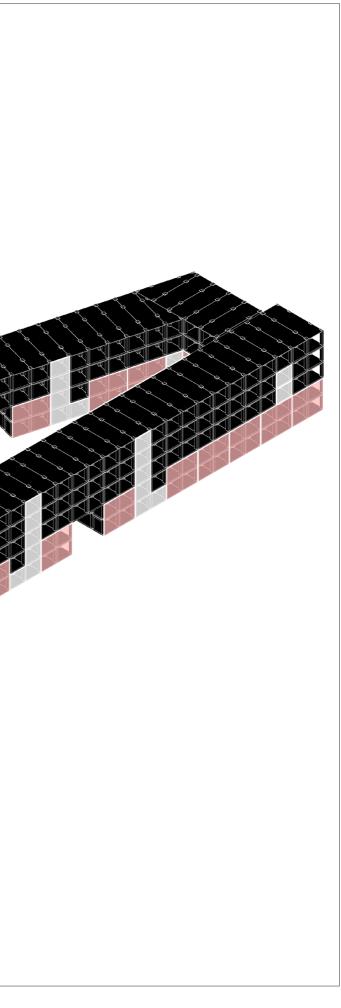
DESIGN | PLANS 70



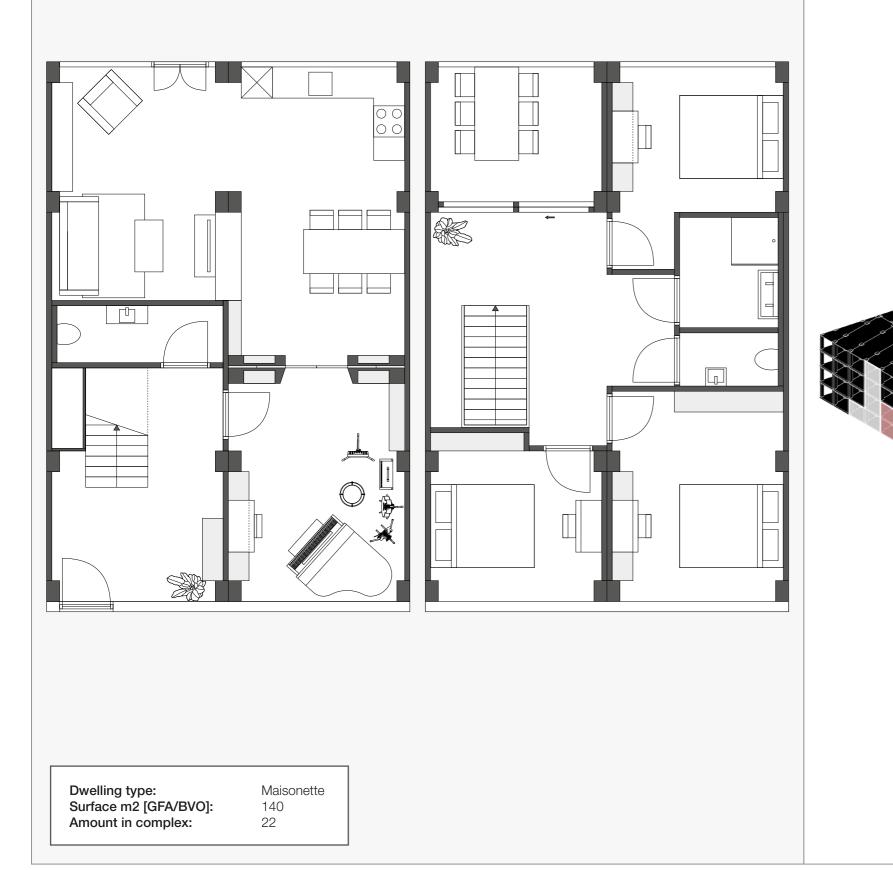
Standardised maisonettes

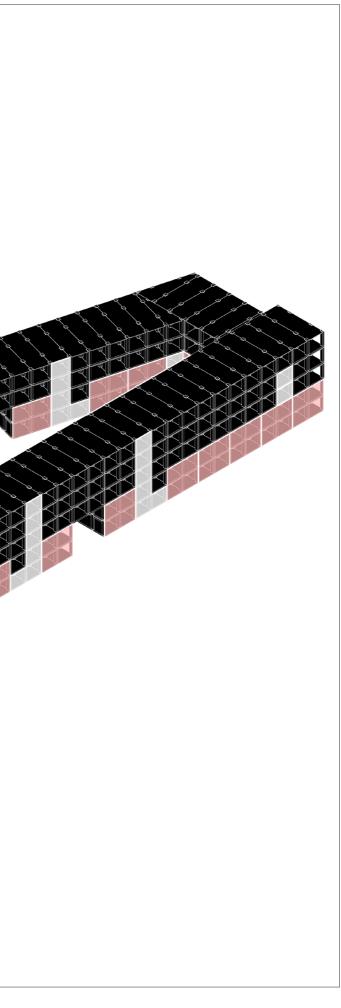
DESIGN | PLANS 71

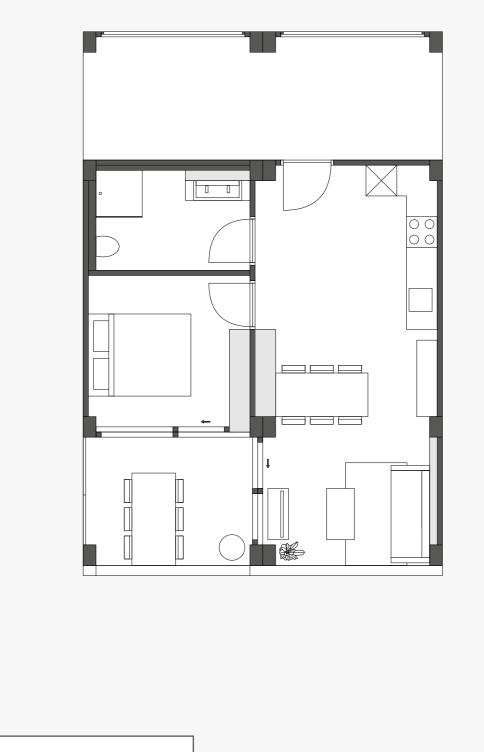




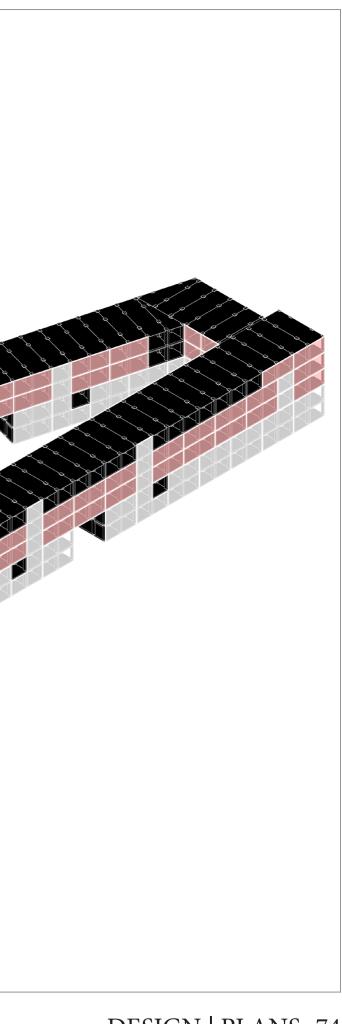
DESIGN | PLANS 72

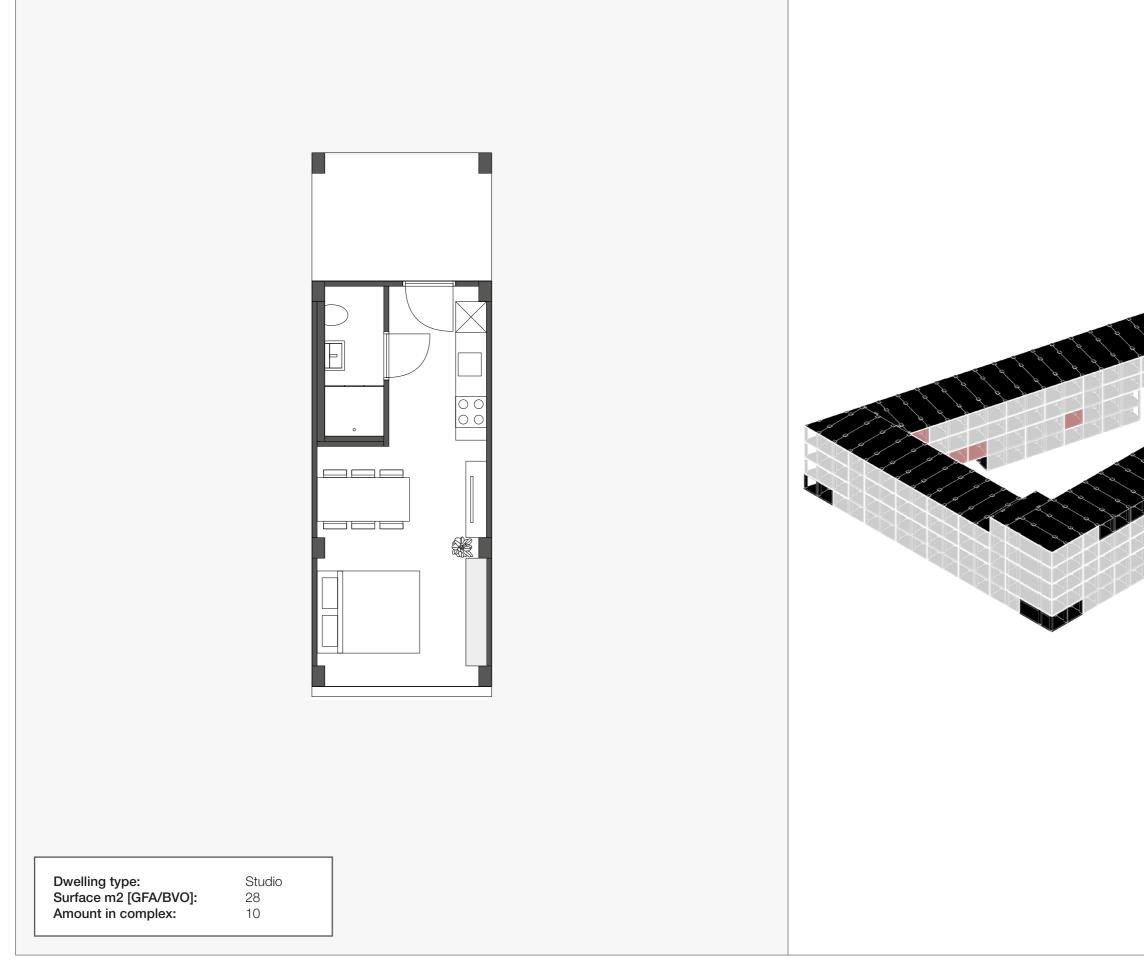


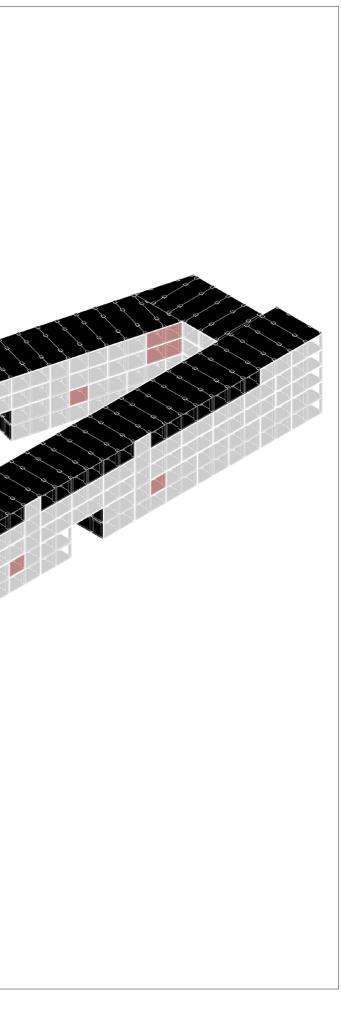


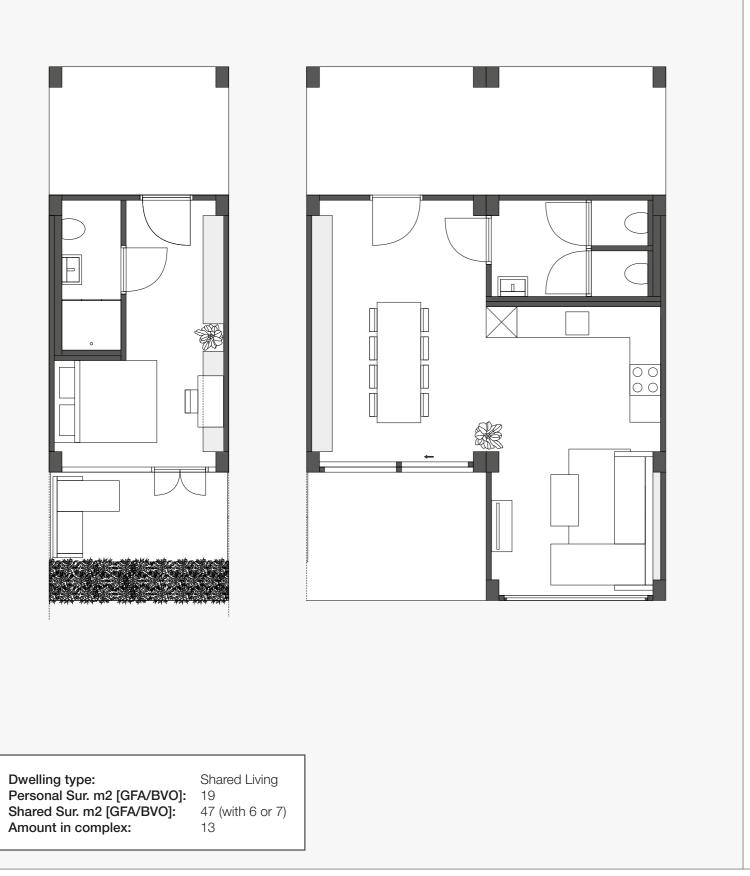


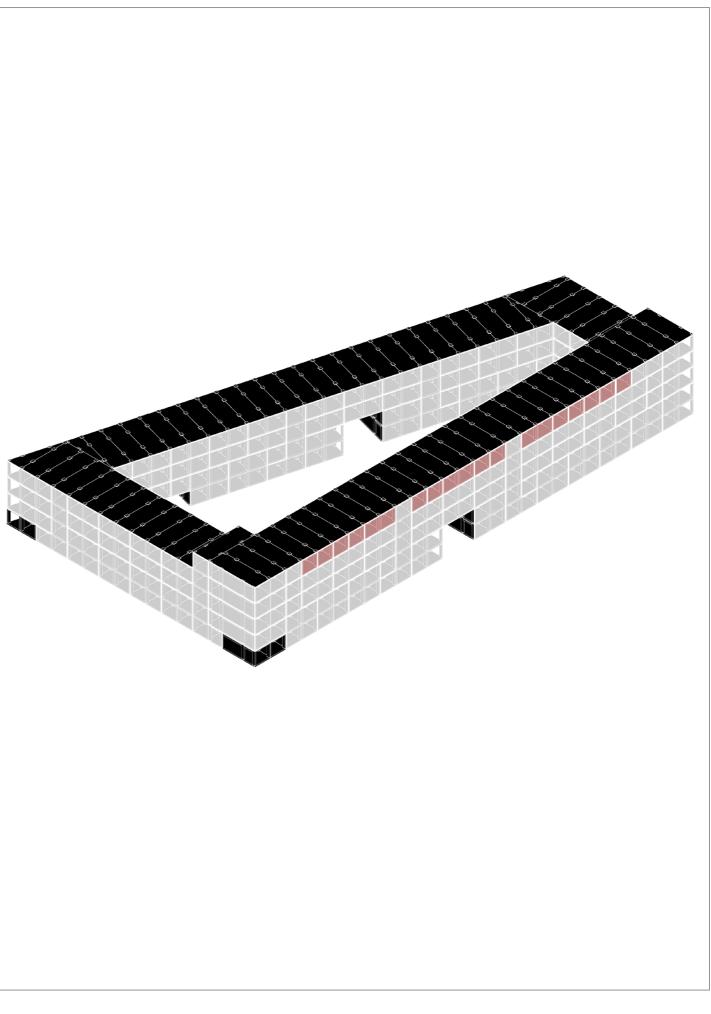
Dwelling type: Surface m2 [GFA/BVO]: Amount in complex: Apartment 48 61



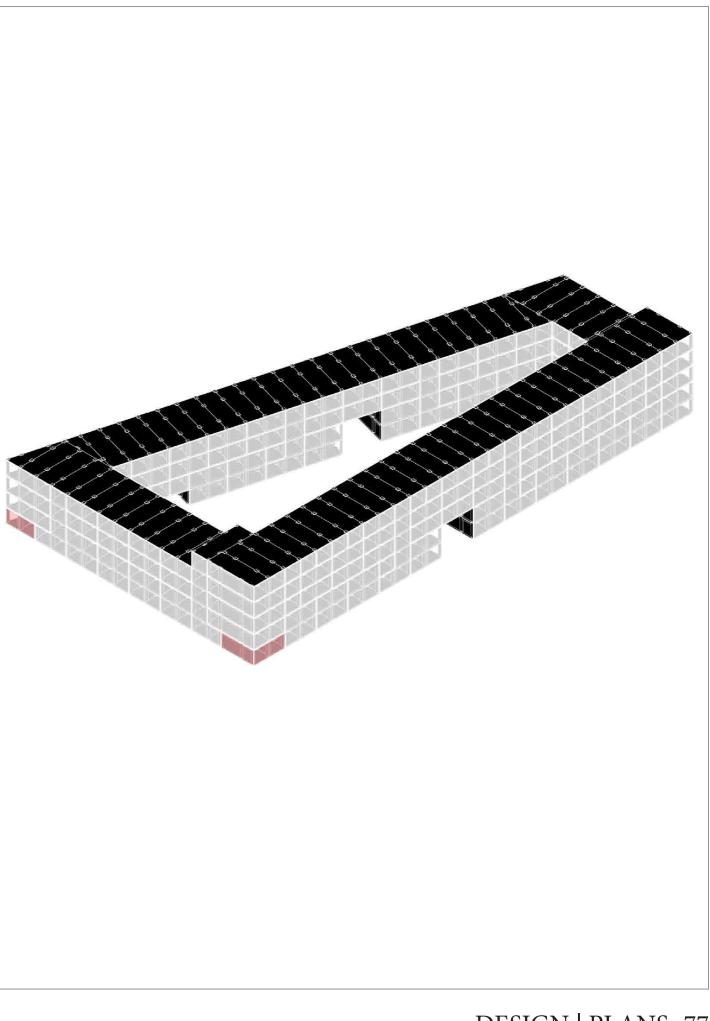


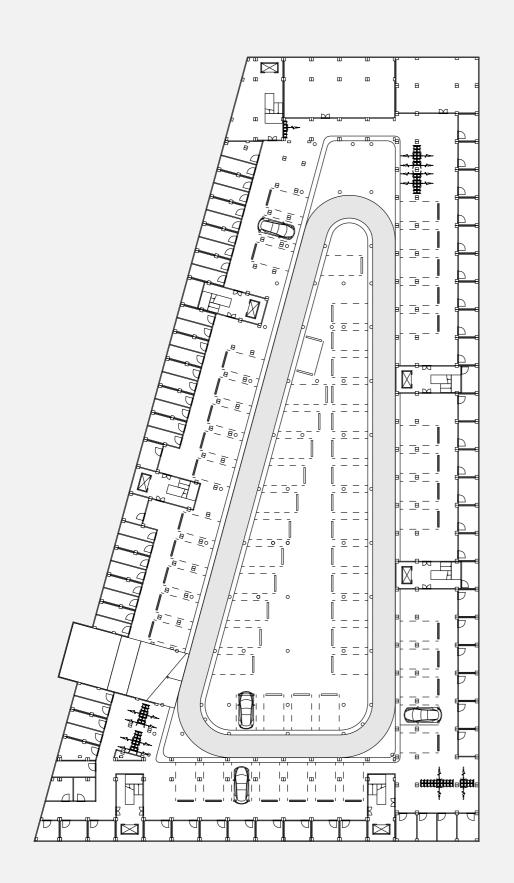


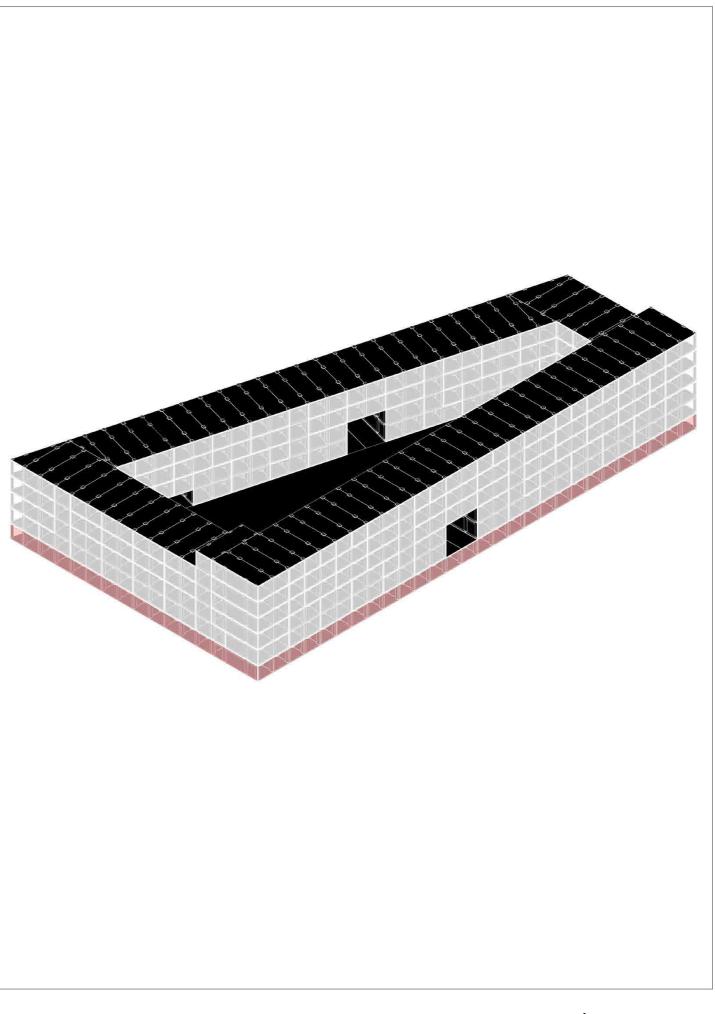


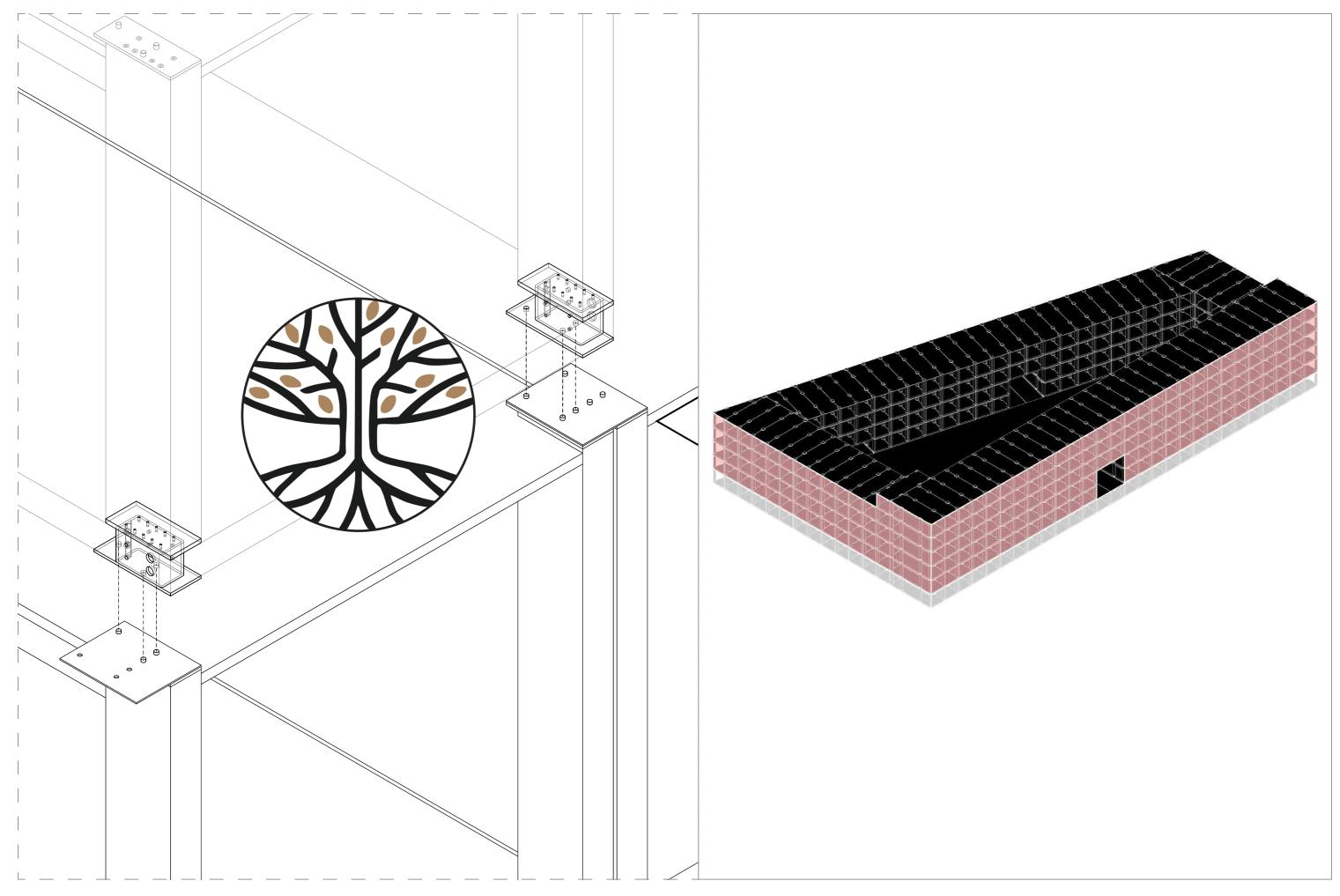


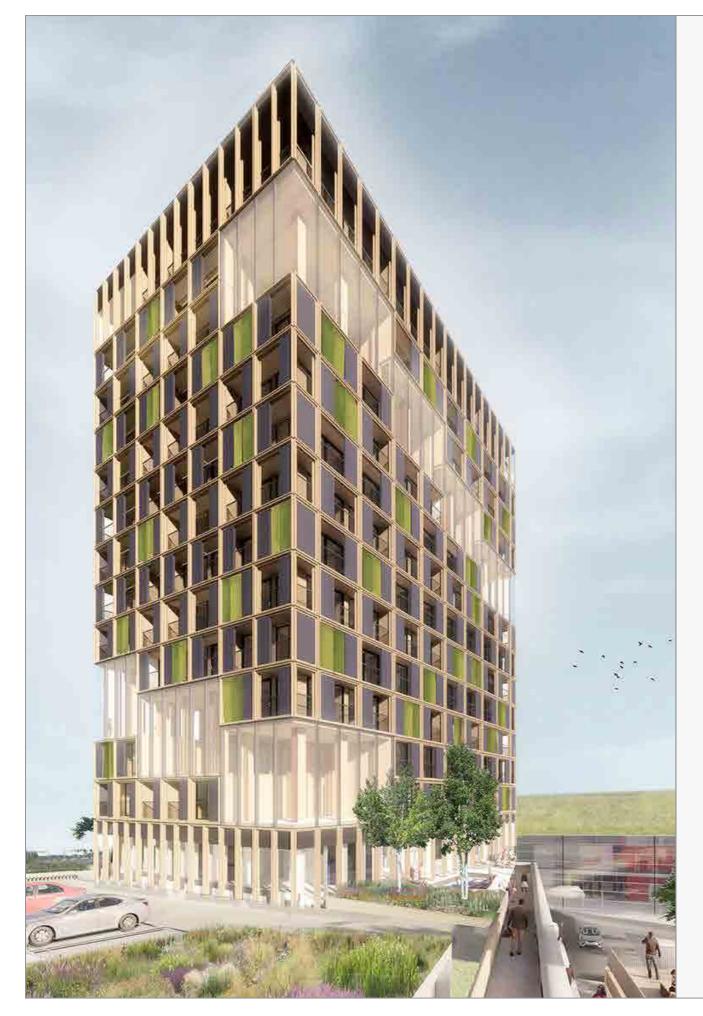


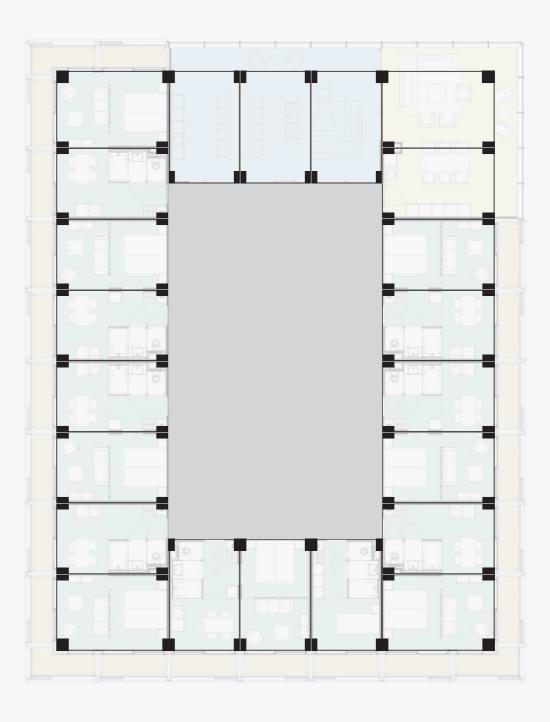










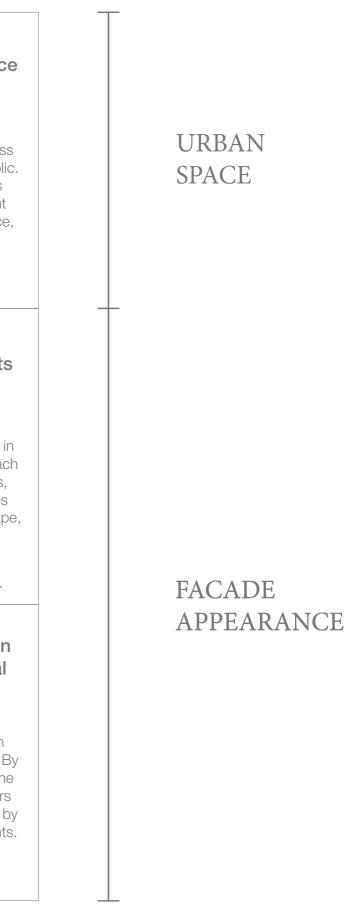


Facade and Module Energie Hotel Ede (start project 2018)

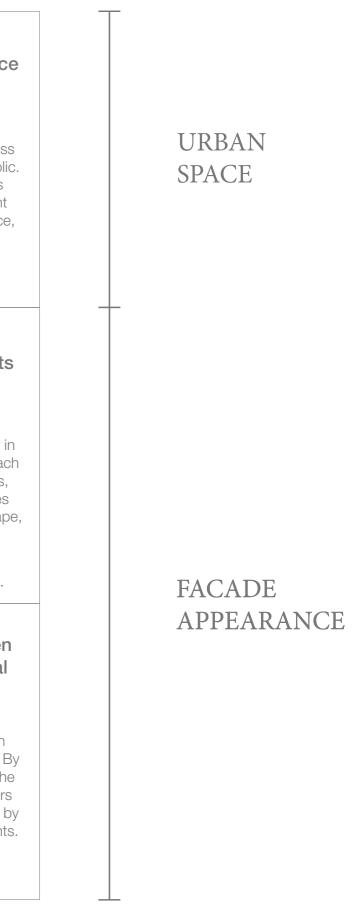


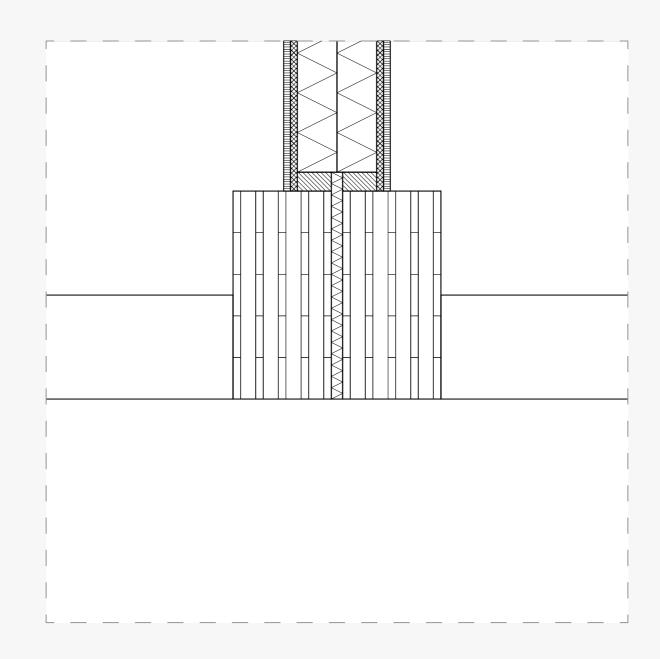


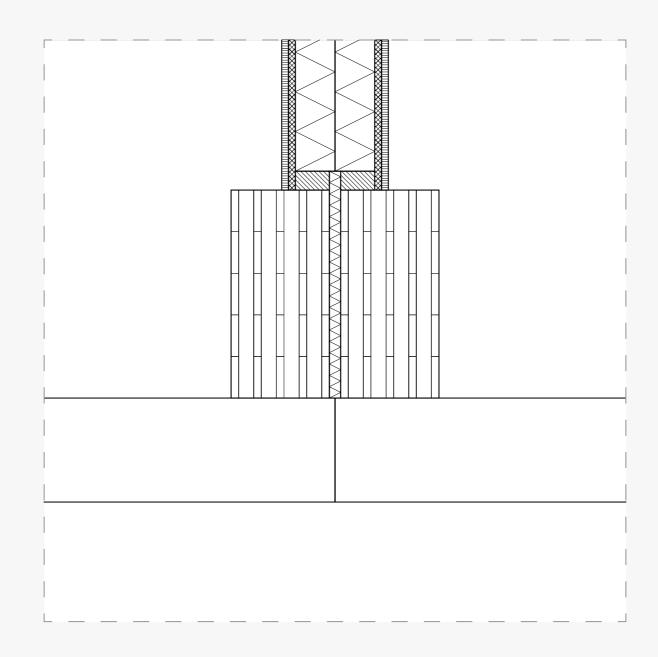
Create different sections and an hierarchy in the building block	Create coherence in the street, building block and urban district	Position and combine entran- ces at street level	Create an intermediate space at entrances
In this hierarchy the corners in the building block and important planes of volumes are emphasised. Methods are; height difference, protrusion or recessions, different roof constructions, overhangs, ornaments, etc.	By using recurring elements, continuous elements or specific configurations of element. For example, using identi- cal entrance configurations, varied configurations of the same roof shape, continuous eaves, etc.	Entrances at street level improves the interaction between the resident and the urban space, sense of safety, vibrancy in the street, accessibility, contribution to the identity of a neighbourhood or district, social connection, etc.	The intermediate space ensures a less harsh border between privat and public. Created by a composition of doors intruded in the building line, different ground material than the public space, overhangs, etc.
Sections CS1: A1, A2, A3, A4, 46, 47, etc. Sections CS2: A1, A2, A3, A4, A5.	Elements CS1: 6, 17, 30, 32, 34, 54, 83, etc. Elements CS2: 5, 6, 7, 20, 24, 75, 89, 98, etc.	Elements CS1: 1, 11, 42, 45, 65, 85, 87. Elements CS2: 5, 8, 31, 50, 59, 61, 71.	Elements CS1: 1, 11, 42, 45, 65, 85, 87. Elements CS2: 5, 8, 31, 50, 59, 61, 71.
Create different (sub)sections and emphasise contrast	Connect the (sub)sections	Use elements around a corner and in different planes	Create an order of elements per (sub)section
Contrast can be made by emphasising the edge of (sub)sections or by empha- sising verticality or horizontality in a (sub) section.	By using elements that refer to, orient to or continues in the other section such as the position of windows, window sills, certain protrusions, material use, large eaves, continuous plinths, ornamentati- ons, string courses, etc.	Improve plasticity by using elements around a corner and in a different pla- nes, making the facade a 3D component of the building block. Elements could be bay windows, distinctive brick bonds, ornamentations, finishings, etc.	The sections are organised vertically in a bottom, middle and top order. In each order facade elements like windows, window sills, muntins, string courses and others are made differently in shape, position or composition.
Elements CS1: 2, 3, 6, 14, 18, 24, 26, 28, etc. Elements CS2: 1, 4, 6, 14, 16, 18, 19, 22, etc.	Elements CS1: A1*, 15, 16, 17, 18, 20, etc. Elements CS2: 4, 6, 7, 19, 24, 30, 33, 35, etc.	Elements CS1: 7, 13, 15, 16, 17, 26, 28, etc. Elements CS2: 4, 5, 6, 9, 10, 18, 19, 33, etc.	Elements CS1: 2, 3, 4, 8, 9, 18, 19, 21, etc. Elements CS2: 7, 11, 12, 13, 17, 43, 80 etc.
Break order of elements for emphasis and variation	Emphasise entrances	Conceal the repetitive grid of the dwellings	Divide appearance between commercial and residential use
The order is broken by the use of a different element or rhythm to put emp- hasis on certain characteristics of the (sub)section, to announce another (sub) section or to create variation within the section, without creating a new section.	The entrances are emphasised by diffe- rent materials and use, ornaments, dis- tinctive windows, distinctive positioning of windows, orientation and composition of the doors, protrusions that create gable ends and terraces, etc.	With the use of elements spanning mul- tiple floors, by combining entrances at street level and by creating (sub)sections that are not created solely on the grid of the dwellings.	By using different window frames in colour, shape, size and composition. By using a different or an alteration on the facade plinth, by using different doors which allows more transparancy and by using specific positioning of ornaments.
Elements CS1: 6, 7, 10, 22, 29, 56, 58, etc. Elements CS2: 13, 14, 22, 47, 48, 49, etc.	Elements CS1: 1, 11, 42, 45, 65, 66, 85, etc. Elements CS2: 5, 8, 13, 14, 22, 31, 51, etc.	Elements CS1: 1, 7, 11, A1, A1*, A1**, etc. Elements CS2: 5, A3*, A3**, A5, 31, etc.	Elements CS1: 43, 44, 45, 62, 63, 69, 85. Elements CS2: 8, 9, 72.

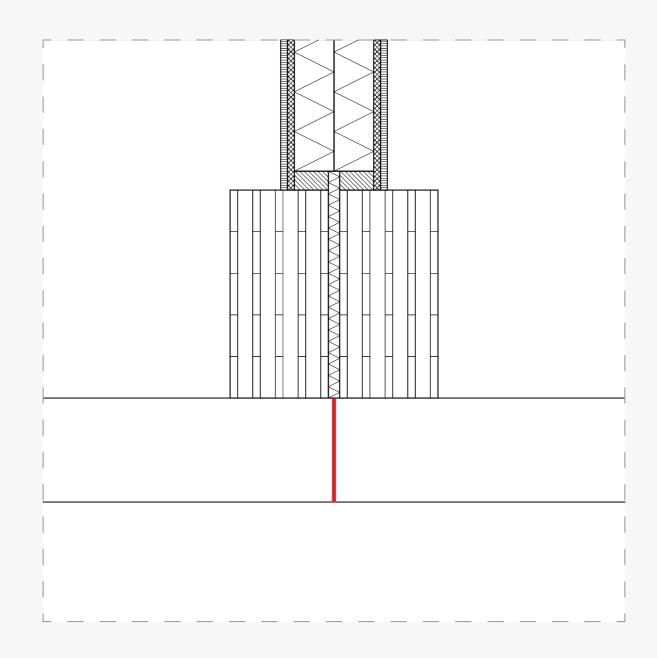


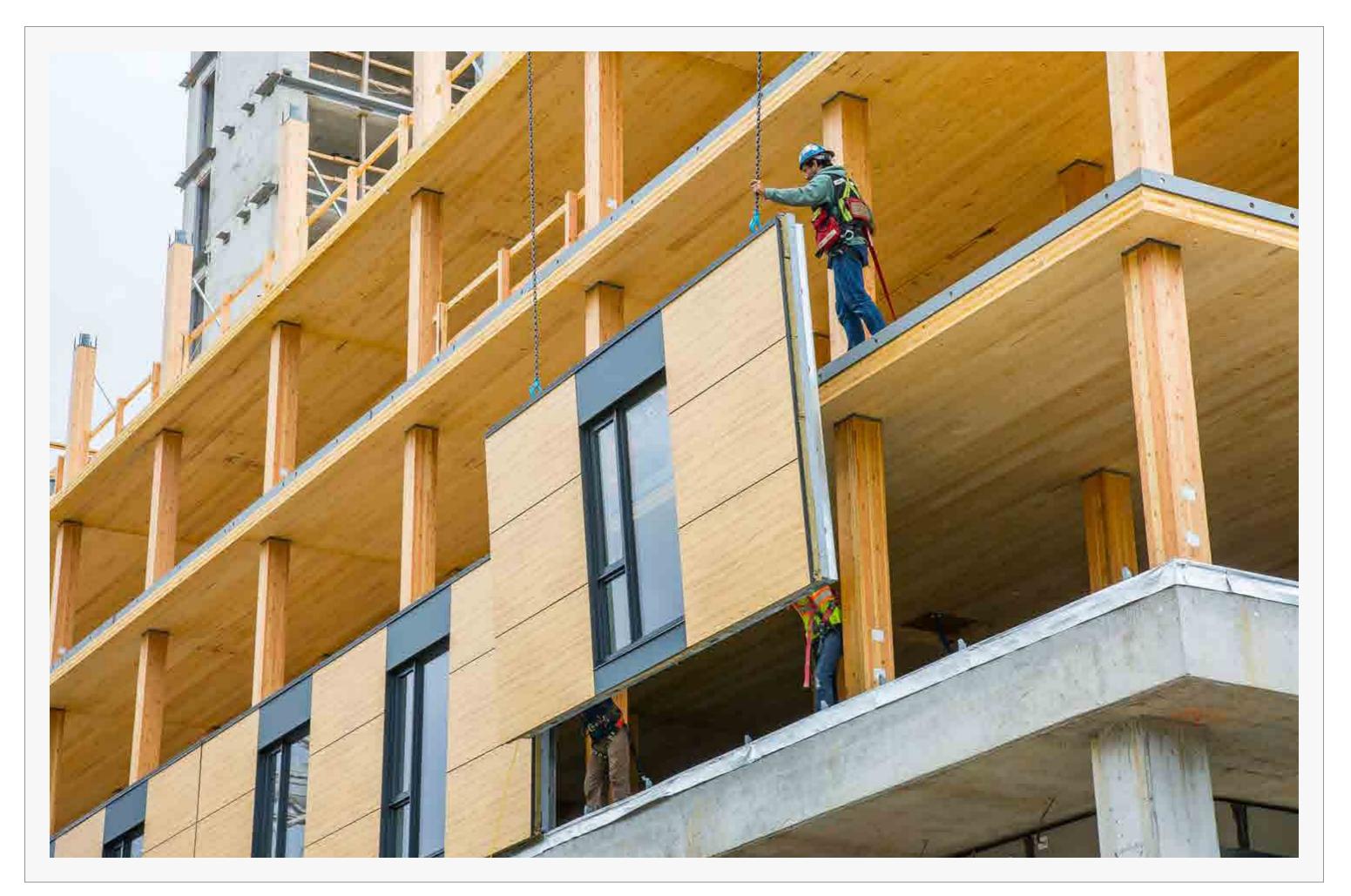
Create different sections and an hierarchy in the building block	Create coherence in the street, building block and urban district	Position and combine entran- ces at street level	Create an intermediate space at entrances
In this hierarchy the corners in the building block and important planes of volumes are emphasised. Methods are; height difference, protrusion or recessions, different roof constructions, overhangs, ornaments, etc.	By using recurring elements, continuous elements or specific configurations of element. For example, using identi- cal entrance configurations, varied configurations of the same roof shape, continuous eaves, etc.	Entrances at street level improves the interaction between the resident and the urban space, sense of safety, vibrancy in the street, accessibility, contribution to the identity of a neighbourhood or district, social connection, etc.	The intermediate space ensures a less harsh border between privat and public. Created by a composition of doors intruded in the building line, different ground material than the public space, overhangs, etc.
Sections CS1: A1, A2, A3, A4, 46, 47, etc. Sections CS2: A1, A2, A3, A4, A5.	Elements CS1: 6, 17, 30, 32, 34, 54, 83, etc. Elements CS2: 5, 6, 7, 20, 24, 75, 89, 98, etc.	Elements CS1: 1, 11, 42, 45, 65, 85, 87. Elements CS2: 5, 8, 31, 50, 59, 61, 71.	Elements CS1: 1, 11, 42, 45, 65, 85, 87. Elements CS2: 5, 8, 31, 50, 59, 61, 71.
Create different (sub)sections and emphasise contrast	Connect the (sub)sections	Use elements around a corner and in different planes	Create an order of elements per (sub)section
Contrast can be made by emphasising the edge of (sub)sections or by empha- sising verticality or horizontality in a (sub) section.	By using elements that refer to, orient to or continues in the other section such as the position of windows, window sills, certain protrusions, material use, large eaves, continuous plinths, ornamentati- ons, string courses, etc.	Improve plasticity by using elements around a corner and in a different pla- nes, making the facade a 3D component of the building block. Elements could be bay windows, distinctive brick bonds, ornamentations, finishings, etc.	The sections are organised vertically in a bottom, middle and top order. In each order facade elements like windows, window sills, muntins, string courses and others are made differently in shape position or composition.
Elements CS1: 2, 3, 6, 14, 18, 24, 26, 28, etc. Elements CS2: 1, 4, 6, 14, 16, 18, 19, 22, etc.	Elements CS1: A1*, 15, 16, 17, 18, 20, etc. Elements CS2: 4, 6, 7, 19, 24, 30, 33, 35, etc.	Elements CS1: 7, 13, 15, 16, 17, 26, 28, etc. Elements CS2: 4, 5, 6, 9, 10, 18, 19, 33, etc.	Elements CS1: 2, 3, 4, 8, 9, 18, 19, 21, etc. Elements CS2: 7, 11, 12, 13, 17, 43, 80 etc.
Break order of elements for emphasis and variation	Emphasise entrances	Conceal the repetitive grid of the dwellings	Divide appearance between commercial and residential use
The order is broken by the use of a different element or rhythm to put emp- hasis on certain characteristics of the (sub)section, to announce another (sub) section or to create variation within the section, without creating a new section.	The entrances are emphasised by diffe- rent materials and use, ornaments, dis- tinctive windows, distinctive positioning of windows, orientation and composition of the doors, protrusions that create gable ends and terraces, etc.	With the use of elements spanning mul- tiple floors, by combining entrances at street level and by creating (sub)sections that are not created solely on the grid of the dwellings.	By using different window frames in colour, shape, size and composition. By using a different or an alteration on the facade plinth, by using different doors which allows more transparancy and by using specific positioning of ornaments.
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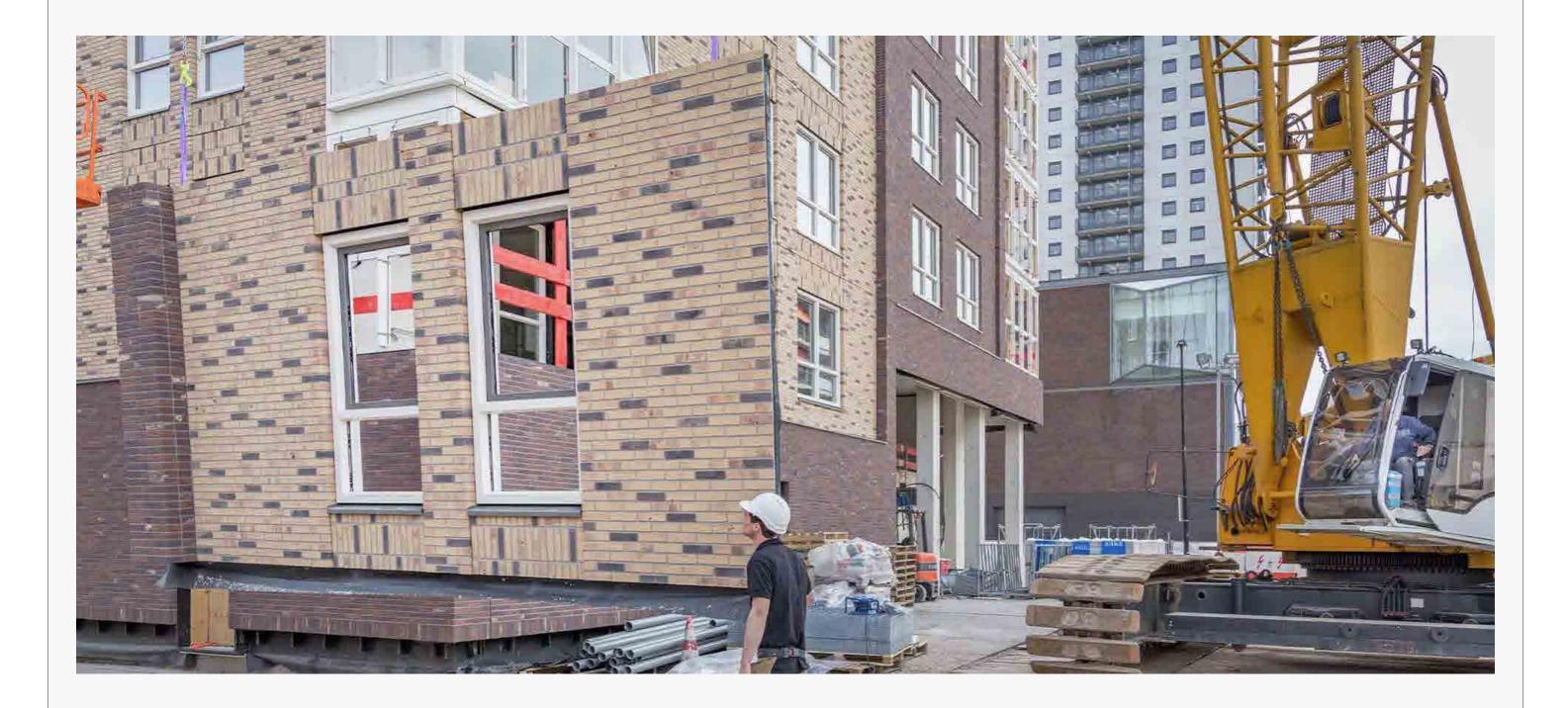


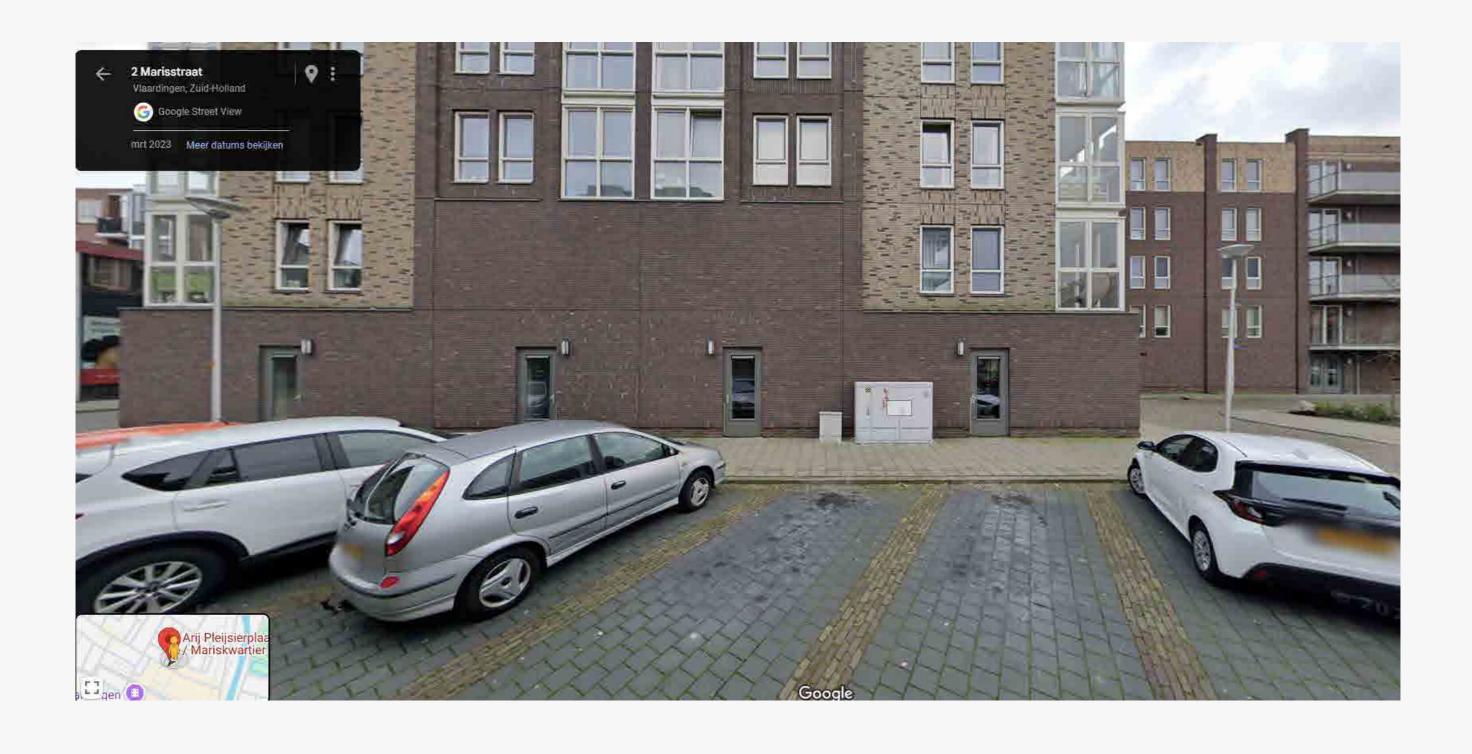




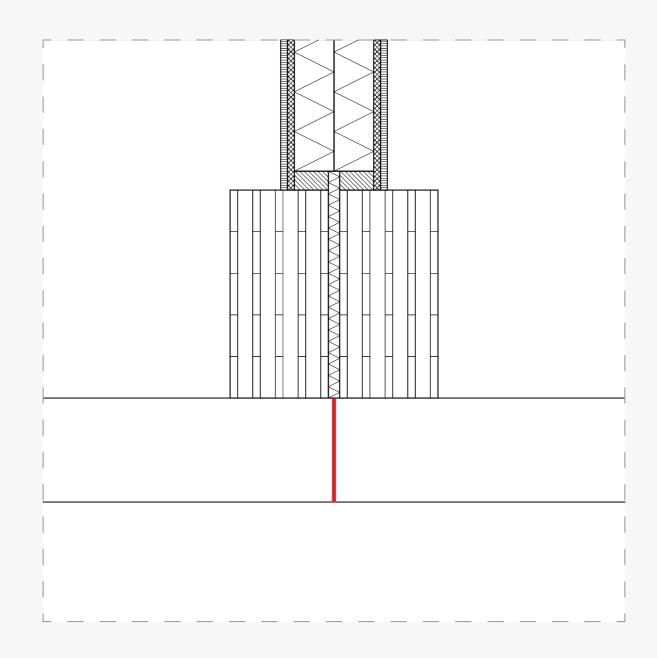


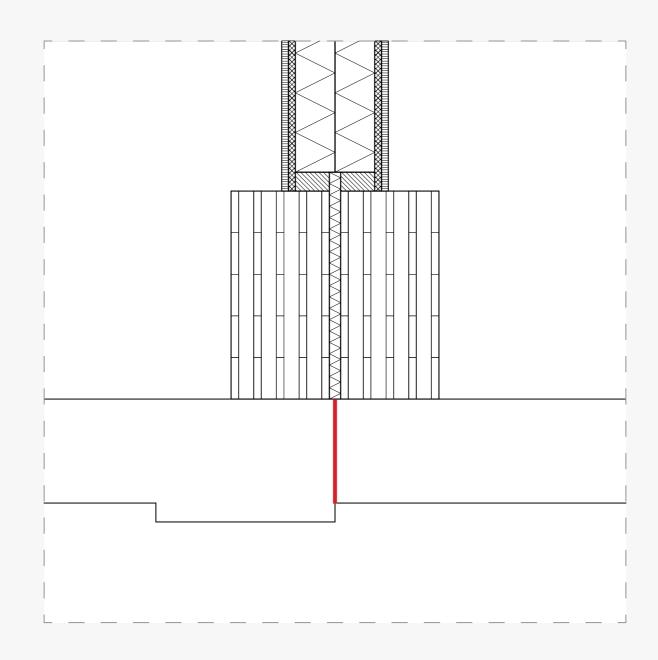


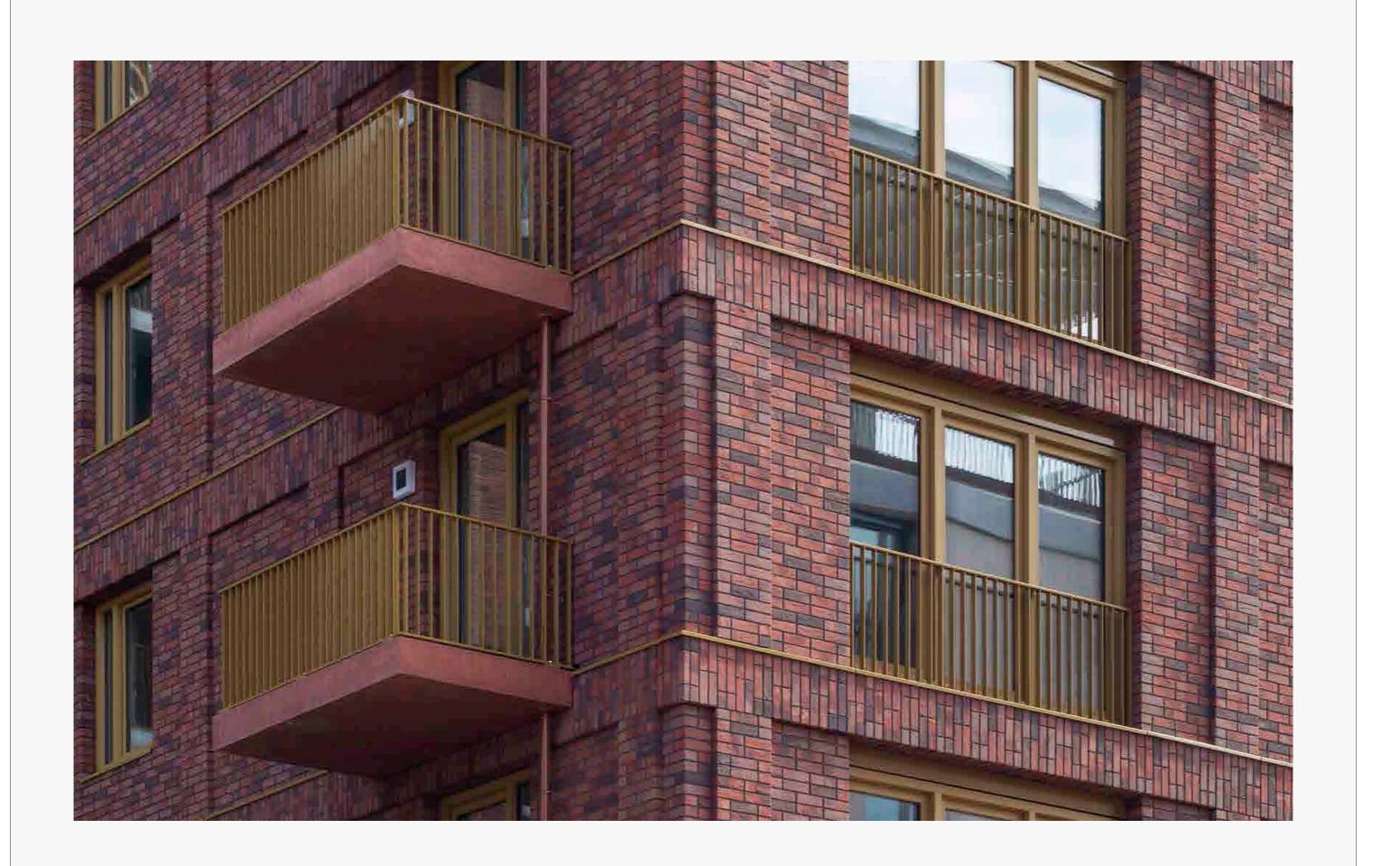




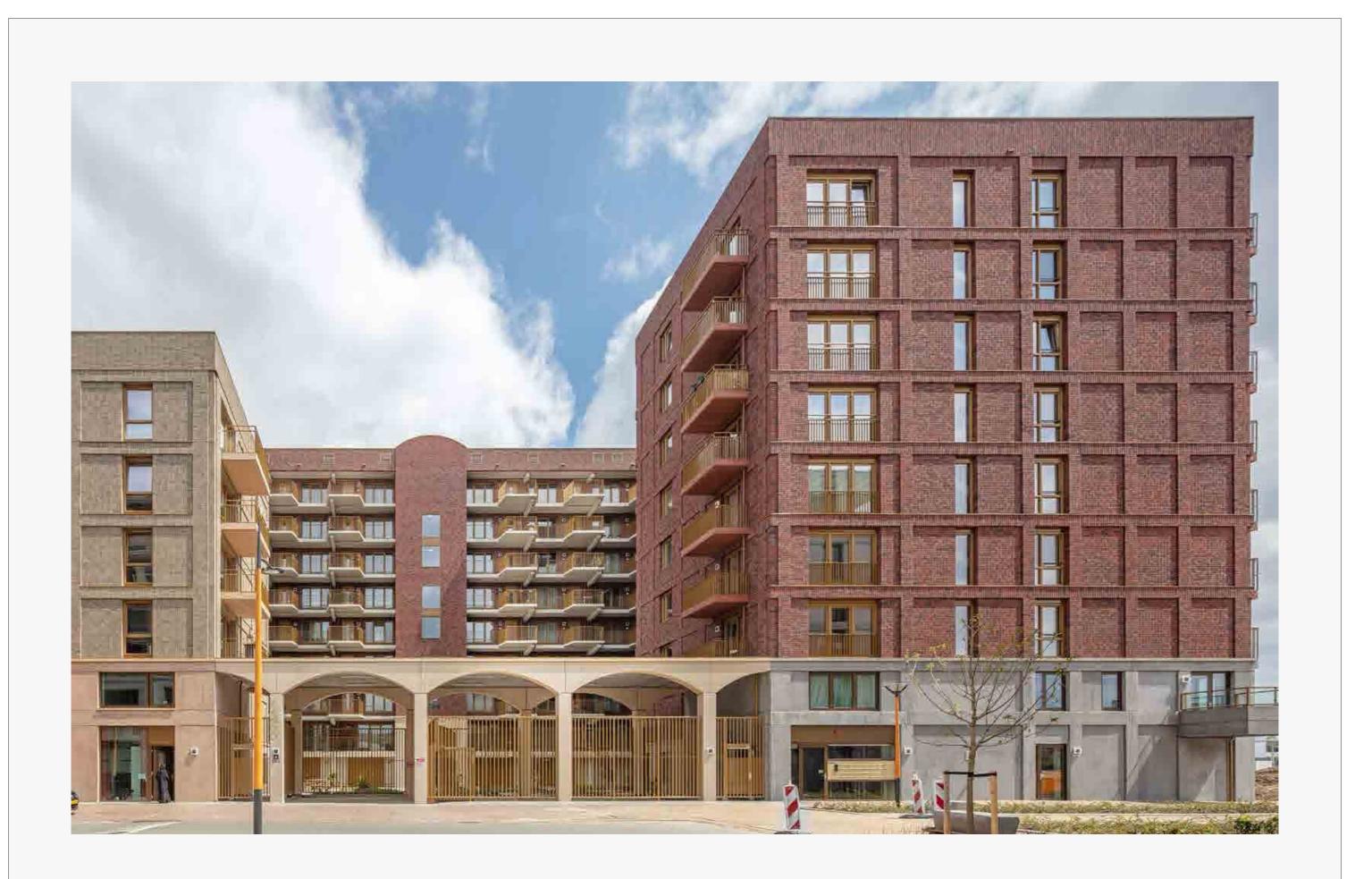


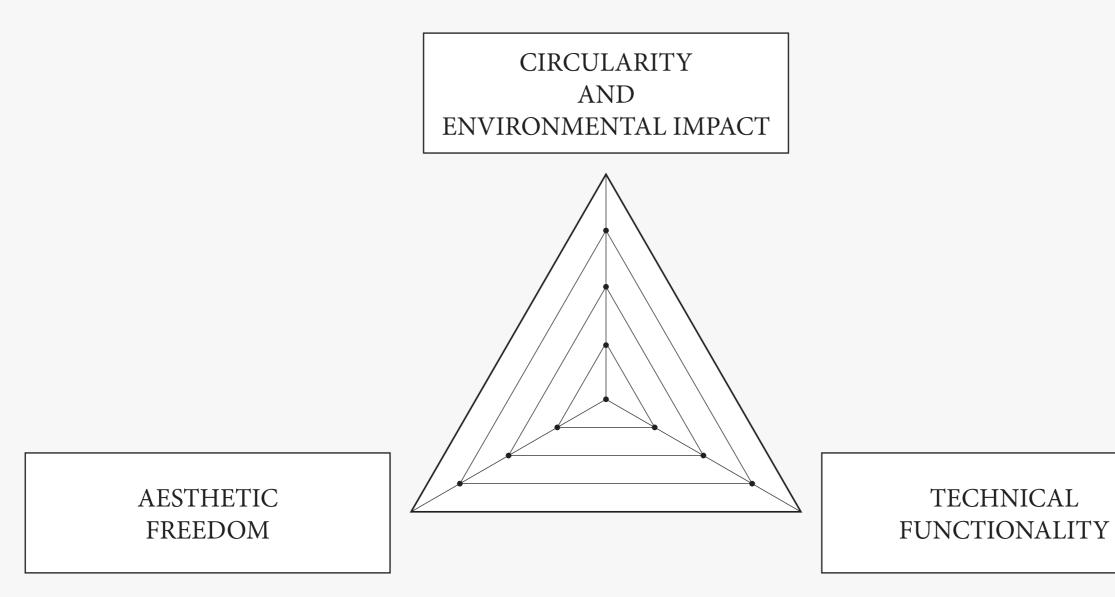


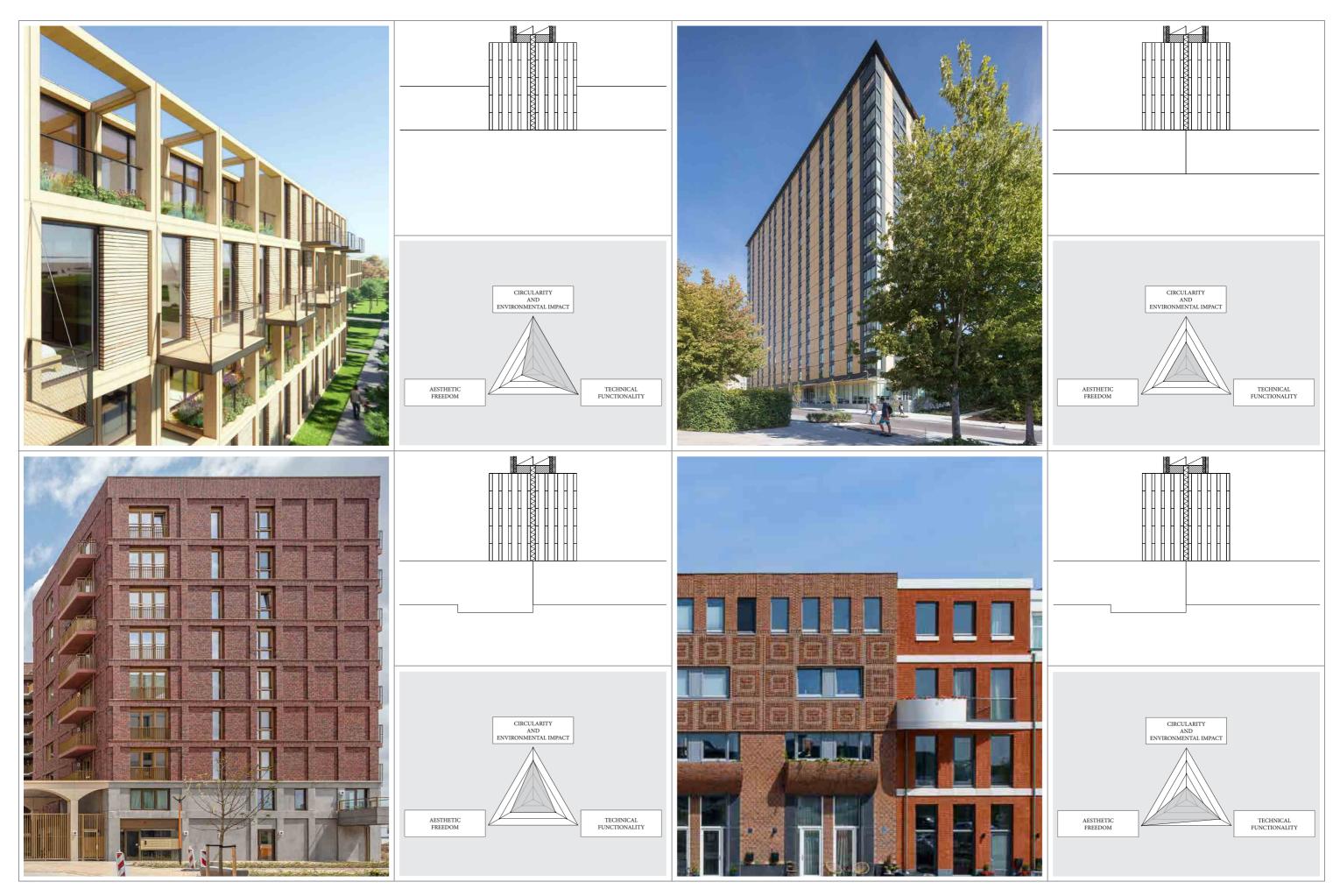


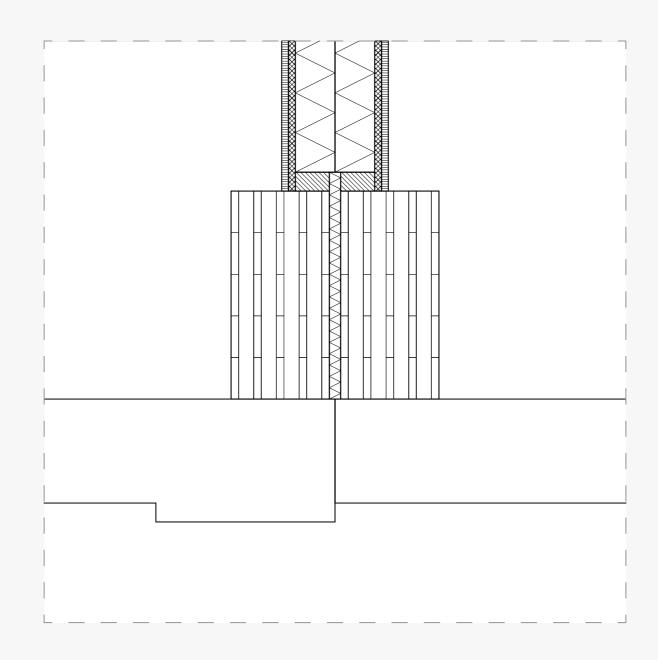


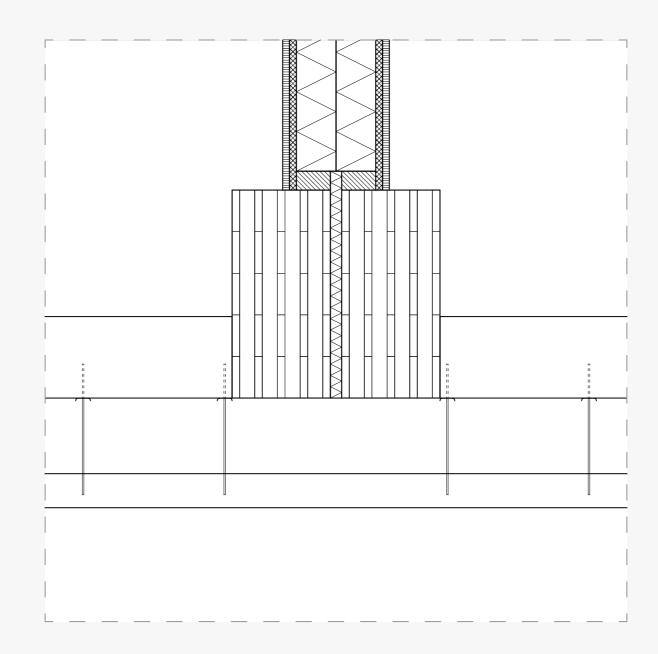


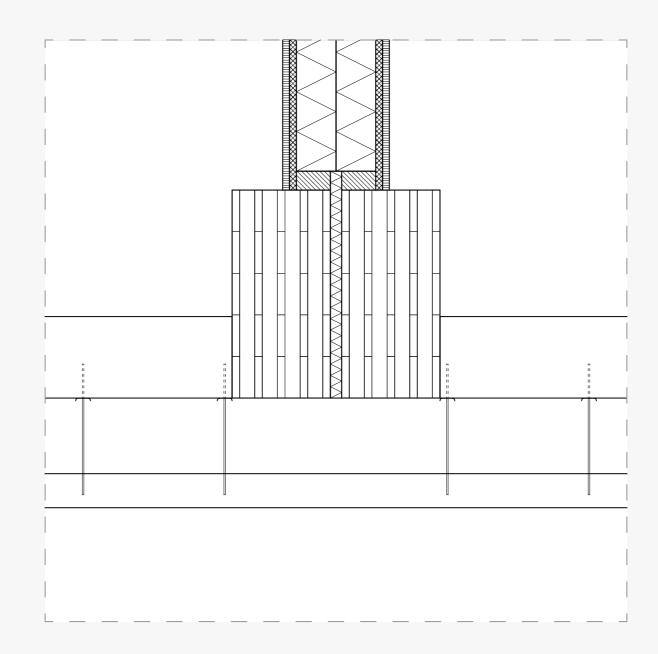


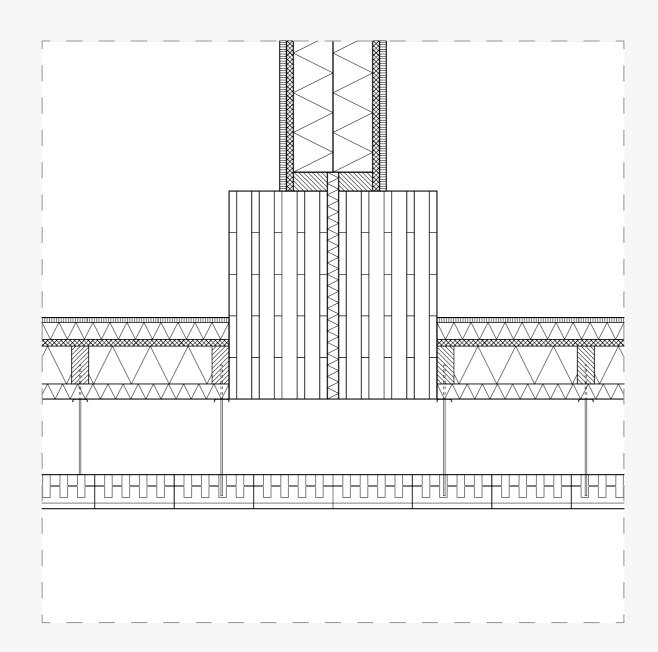


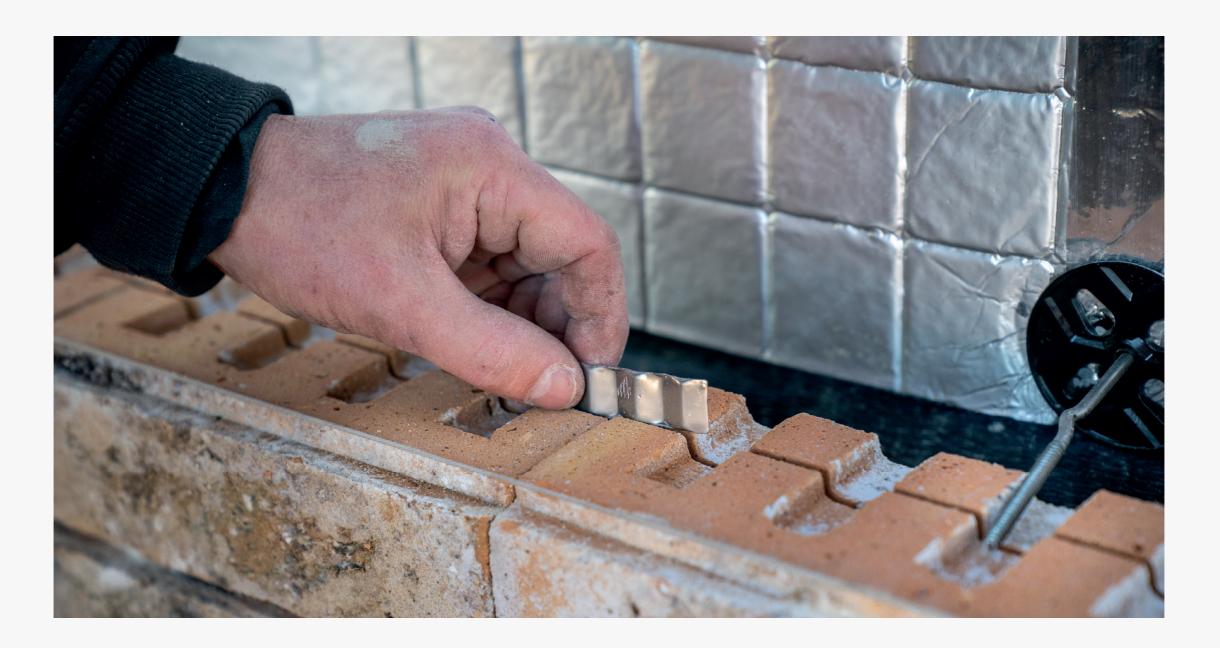


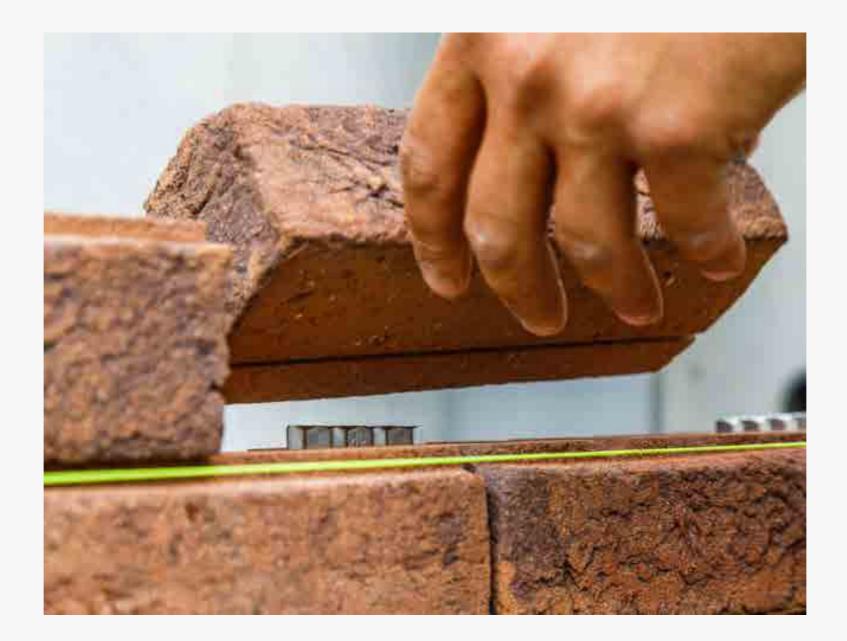






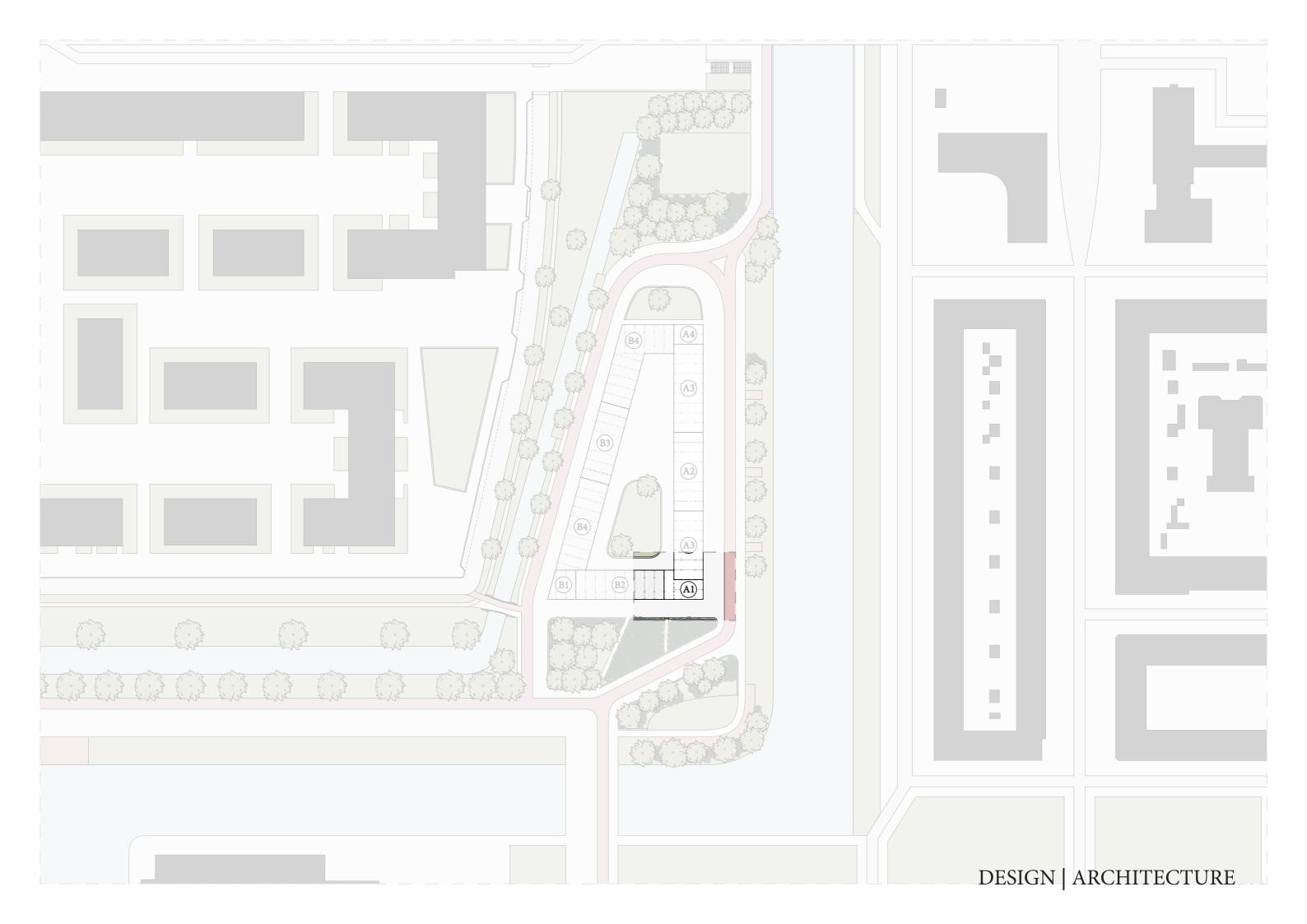






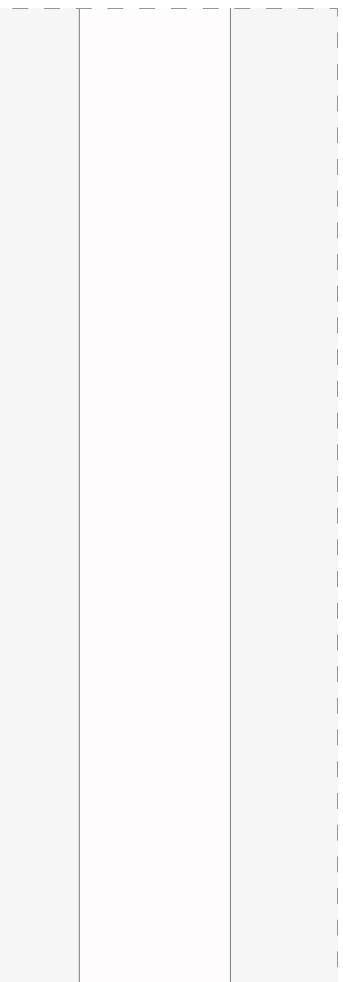


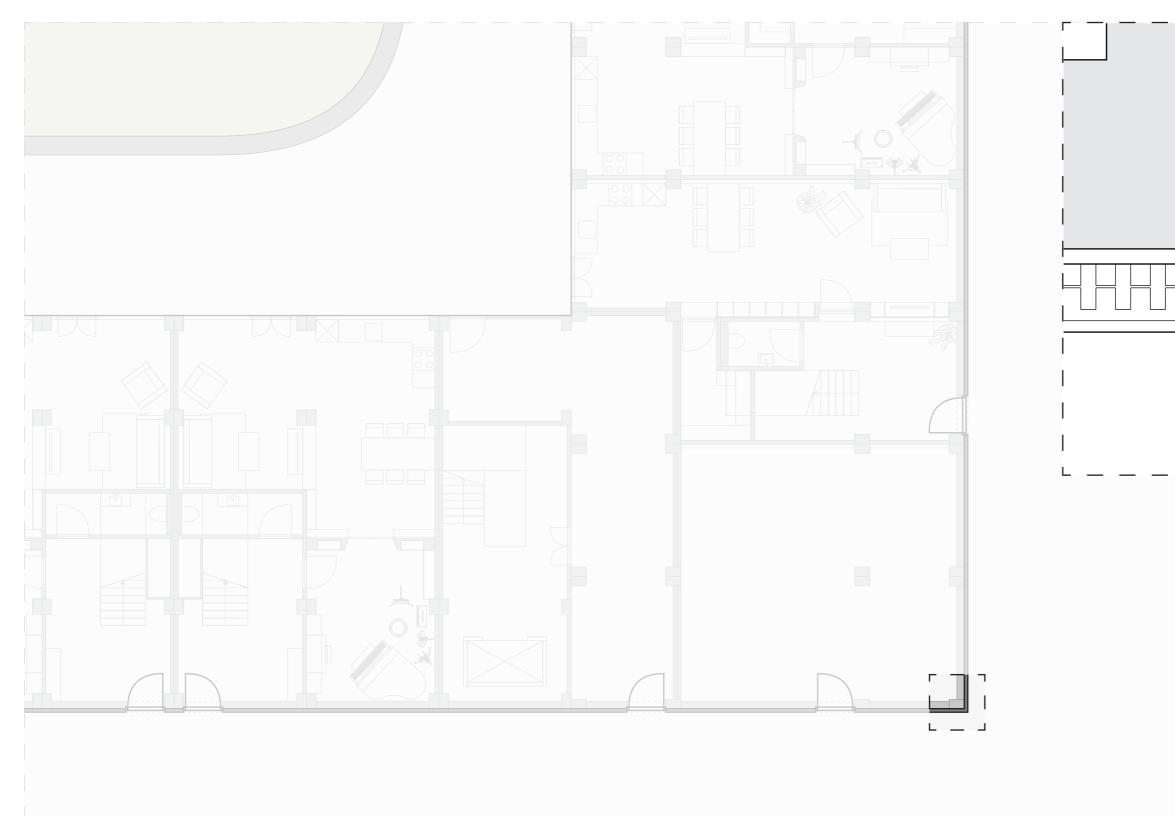


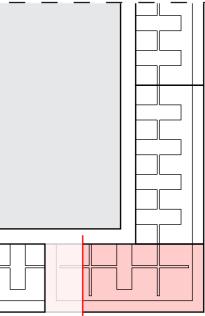




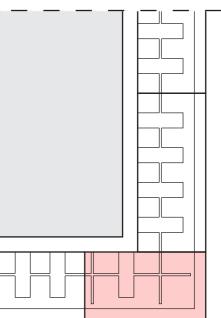






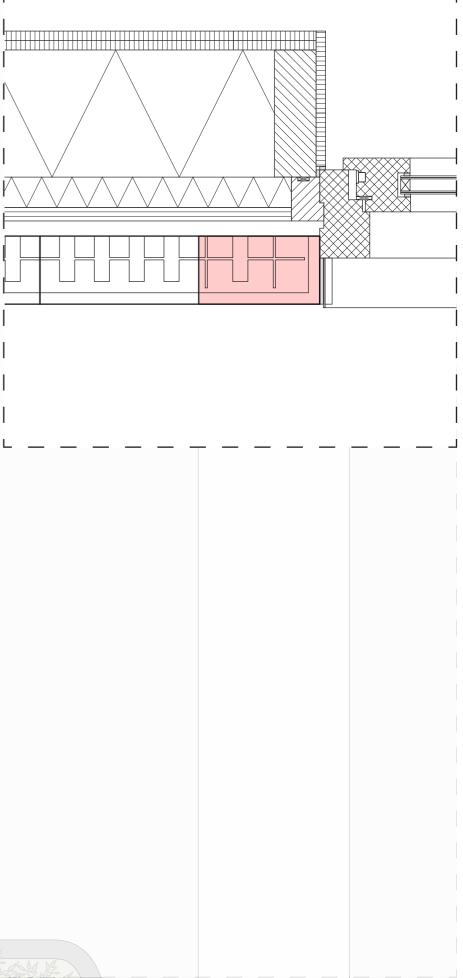






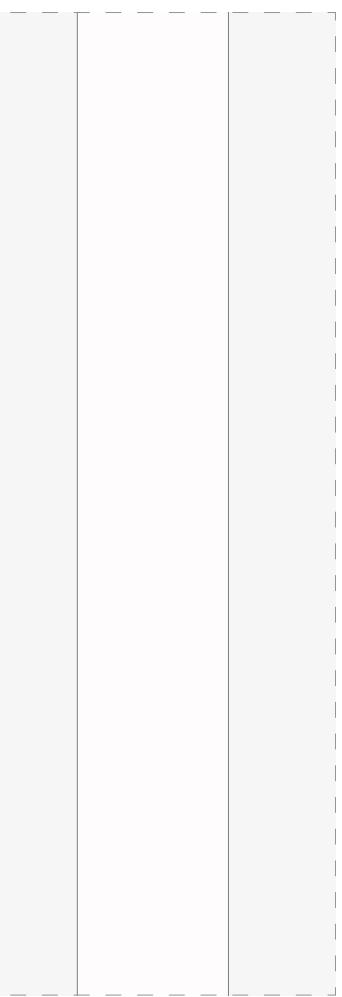


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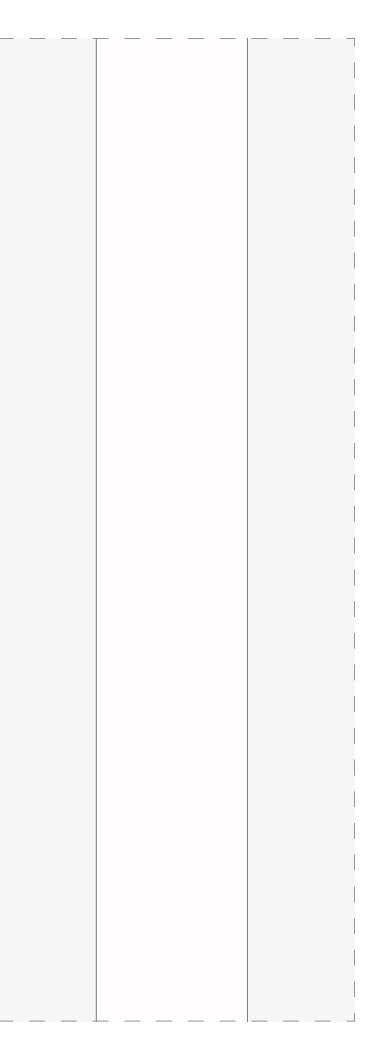










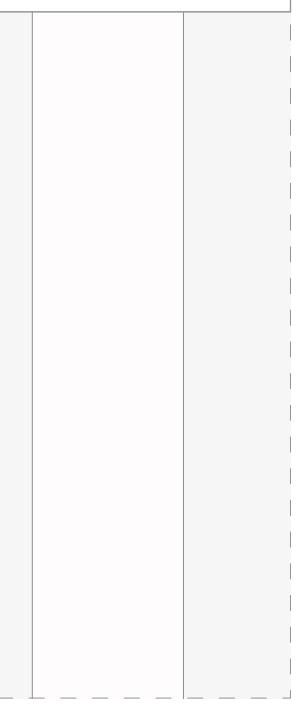




MB UNB UNB NACO

Create different sections and an hierarchy in the building block

In this hierarchy the corners in the building block and important planes of volumes are emphasised. Methods are; height difference, protrusion or recessions, different roof constructions, overhangs, ornaments, etc.













Characteristics of the B2 section

- Different building height in the whole of the B section in comparison to the A section.
- Emphasised height difference by a sloped roof.
- Less diverse usage and amount of facade elements in the order of elements in comparison to the A section.
- More horizontal emphasis in comparison to the A section.

Continuous elements of the B2 section

- Plinth serves as a unifying element, connecting all sections
- Windows of the bottom order are continuous into the A1* subsection.
- A distinct masonry bond connects the windows of the bottom order in the B2 section and the A1* subsection.
- Entrances are emphasised, combined and have an intermediate space in the same configuaration as the whole block.
- Minimised entablature with a fascia and plain frieze refers to the A1 section.

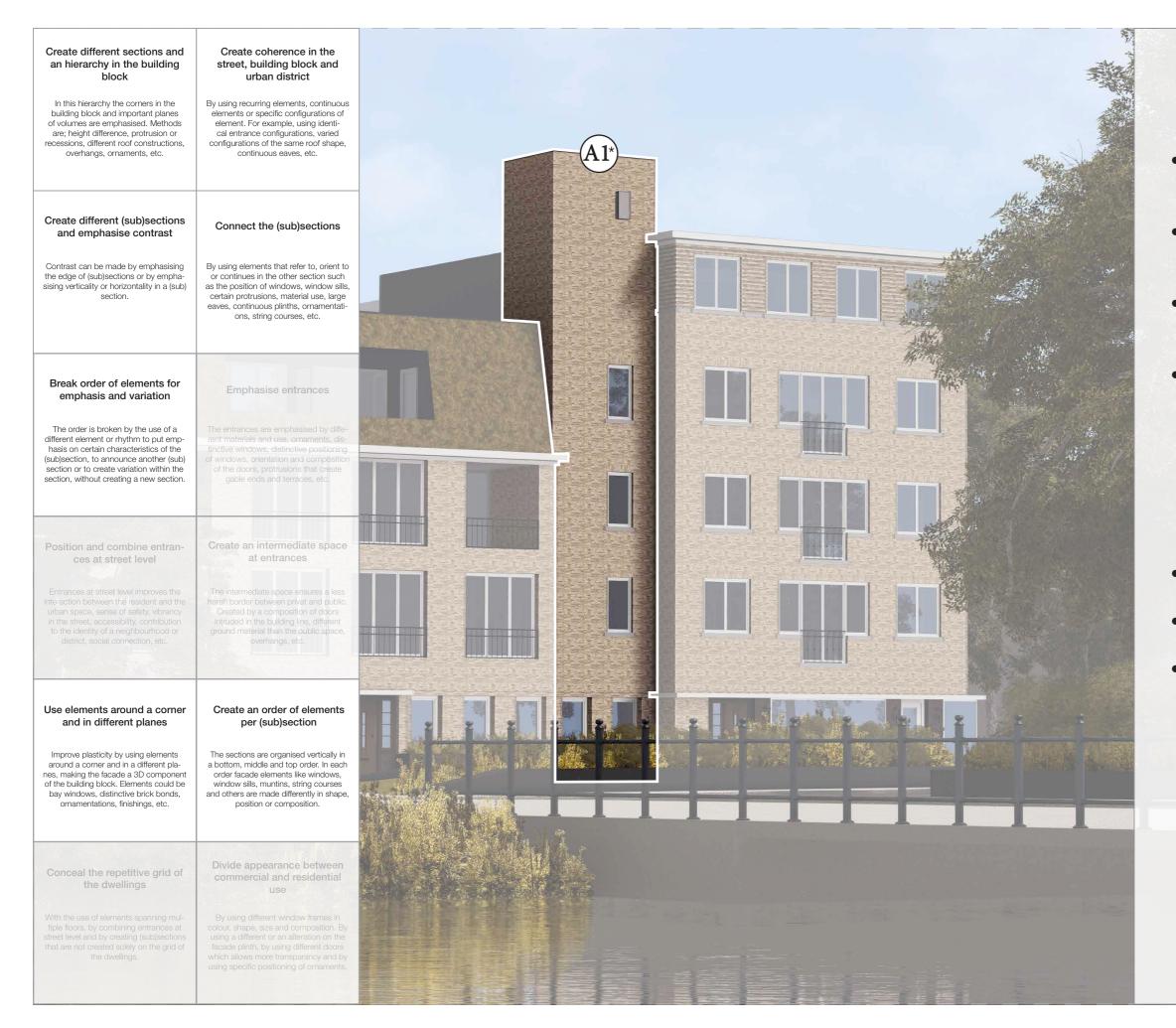
Create different sections and an hierarchy in the building block In this hierarchy the corners in the building block and important planes of volumes are emphasised. Methods are; height difference, protrusion or recessions, different roof constructions, overhangs, ornaments, etc.	Create coherence in the street, building block and urban district By using recurring elements, continuous elements or specific configurations of element. For example, using identi- cal entrance configurations, varied configurations of the same roof shape, continuous eaves, etc.
Create different (sub)sections and emphasise contrast	Connect the (sub)sections By using elements that refer to, orient to
the edge of (sub)sections or by empha- sising verticality or horizontality in a (sub) section.	or continues in the other section such as the position of windows, window sills, certain protrusions, material use, large eaves, continuous plinths, ornamentati- ons, string courses, etc.
Break order of elements for emphasis and variation	Emphasise entrances
The order is broken by the use of a different element or rhythm to put emphasis on certain characteristics of the (sub)section, to announce another (sub) section or to create variation within the section, without creating a new section.	The entrances are emphasised by diffe- rent materials and use, ornaments, dis- tinctive windows, distinctive positioning of windows, orientation and composition of the doors, protrusions that create gable ends and terraces, etc.
Position and combine entran- ces at street level	Create an intermediate space at entrances
Entrances at street level improves the interaction between the resident and the urban space, sense of safety, vibrancy in the street, accessibility, contribution to the identity of a neighbourhood or district, social connection, etc.	The intermediate space ensures a less harsh border between privat and public. Created by a composition of doors intruded in the building line, different ground material than the public space, overhangs, etc.
Use elements around a corner and in different planes	Create an order of elements per (sub)section
Improve plasticity by using elements around a corner and in a different pla- nes, making the facade a 3D component of the building block. Elements could be bay windows, distinctive brick bonds, ornamentations, finishings, etc.	The sections are organised vertically in a bottom, middle and top order. In each order facade elements like windows, window sills, muntins, string courses and others are made differently in shape, position or composition.
Conceal the repetitive grid of the dwellings	Divide appearance between commercial and residential use
With the use of elements spanning mul- tiple floors, by combining entrances at street level and by creating (sub)sections that are not created solely on the grid of the dwellings.	By using different window frames in colour, shape, size and composition. By using a different or an alteration on the facade plinth, by using different doors which allows more transparancy and by using specific positioning of ornaments.

Characteristics of the B2 section

- Different building height in the whole of the B section in comparison to the A section.
- Emphasised height difference by a sloped roof.
- Less diverse usage and amount of facade elements in the order of elements in comparison to the A section.
- More horizontal emphasis in comparison to the A section.

Continuous elements of the B2 section

- Plinth serves as a unifying element, connecting all sections
- Windows of the bottom order are continuous into the A1* subsection.
- A distinct masonry bond connects the windows of the bottom order in the B2 section and the A1* subsection.
- Entrances are emphasised, combined and have an intermediate space in the same configuaration as the whole block.
- Minimised entablature with a fascia and plain frieze refers to the A1 section.



Characteristics of the A1* subsection

- Highest building height marking its hierarchy and urban importance.
- Difference is emphasised by different elements, placement and building line.
- The subsection has a accommodating role towards the A1 section.
- Emphasises height by ornament at the top.

Continuous elements of the A1* subsection

- Plinth serves as a unifying element, connecting all sections.
- Windows of the bottom order are continuous into the B2 section.
- A distinct masonry bond connects the windows of the bottom order with the windows of the B2 section.



Characteristics of the A1 section

- Different building height in the whole of the A section in comparison to the B section.
- More diverse usage and amount of facade elements.
- Only the A1 section showcases thicker windowsills and lintels.
- The A1 section protrudes the regular building line the most.
- Commercial space on groundfloor that is different in appearance.
- The A1 section showcases both loggias that extend slightly and different French balconies in comparison to the B-section.

Continuous elements of the A1 section

- Plinth serves as a unifying element, connecting all sections.
- Minimised entablature with fascia and plain frieze refers to the B2 and A3 section.
- The fences of the balconies
- continue in the A3 section.
- Overhang creates intermediate space in the A3 section.



Characteristics of the A3 section

- Sloped roof and recession of the building line hierarchize the A1 and A2 section.
- Diverse usage and amount of facade elements in comparison to the B section.
- Less elements in comparison to the A1 section.
- Different windows in each order in comparison to the other sections.
- Emphasises horizontality over verticality in comparison to the A1 section.

Continuous elements of the A3 section

- Plinth and emphasised entrances serve as a unifying element, connecting all sections.
- A distinct masonry bond connects the windows of the bottom order emphasising horizontality.
- Minimised entablature and fence of french balcony refers to the other sections.
- Overhang that creates intermediate space continues in the A1 section.

Create different sections and an hierarchy in the building block In this hierarchy the corners in the building block and important planes of volumes are emphasised. Methods are; height difference, protrusion or recessions, different roof constructions, overhangs, ornaments, etc.	Create coherence in the street, building block and urban district By using recurring elements, continuous elements or specific configurations of element. For example, using identi- cal entrance configurations, varied configurations of the same roof shape, continuous eaves, etc.	
Create different (sub)sections and emphasise contrast Contrast can be made by emphasising the edge of (sub)sections or by empha- sising verticality or horizontality in a (sub) section.	Connect the (sub)sections By using elements that refer to, orient to or continues in the other section such as the position of windows, window sills, certain protrusions, material use, large eaves, continuous plinths, ornamentati- ons, string courses, etc.	
Break order of elements for emphasis and variation	Emphasise entrances	
The order is broken by the use of a different element or rhythm to put emp- hasis on certain characteristics of the (sub)section, to announce another (sub) section or to create variation within the section, without creating a new section.	The entrances are emphasised by diffe- rent materials and use, ornaments, dis- tinctive windows, distinctive positioning of windows, orientation and composition of the doors, protrusions that create gable ends and terraces, etc.	
Position and combine entran- ces at street level Entrances at street level improves the interaction between the resident and the urban space, sense of safety, vibrancy in the street, accessibility, contribution to the identity of a neighbourhood or district, social connection, etc.	Create an intermediate space at entrances The intermediate space ensures a less harsh border between privat and public. Created by a composition of doors intruded in the building line, different ground material than the public space, overhangs, etc.	
Use elements around a corner and in different planes	Create an order of elements per (sub)section	
Improve plasticity by using elements around a corner and in a different pla- nes, making the facade a 3D component of the building block. Elements could be bay windows, distinctive brick bonds, ornamentations, finishings, etc.	The sections are organised vertically in a bottom, middle and top order. In each order facade elements like windows, window sills, muntins, string courses and others are made differently in shape, position or composition.	
Conceal the repetitive grid of the dwellings	Divide appearance between commercial and residential use	
With the use of elements spanning mul- tiple floors, by combining entrances at street level and by creating (sub)sections that are not created solely on the grid of the dwellings.	By using different window frames in colour, shape, size and composition. By using a different or an alteration on the facade plinth, by using different doors which allows more transparancy and by using specific positioning of ornaments.	



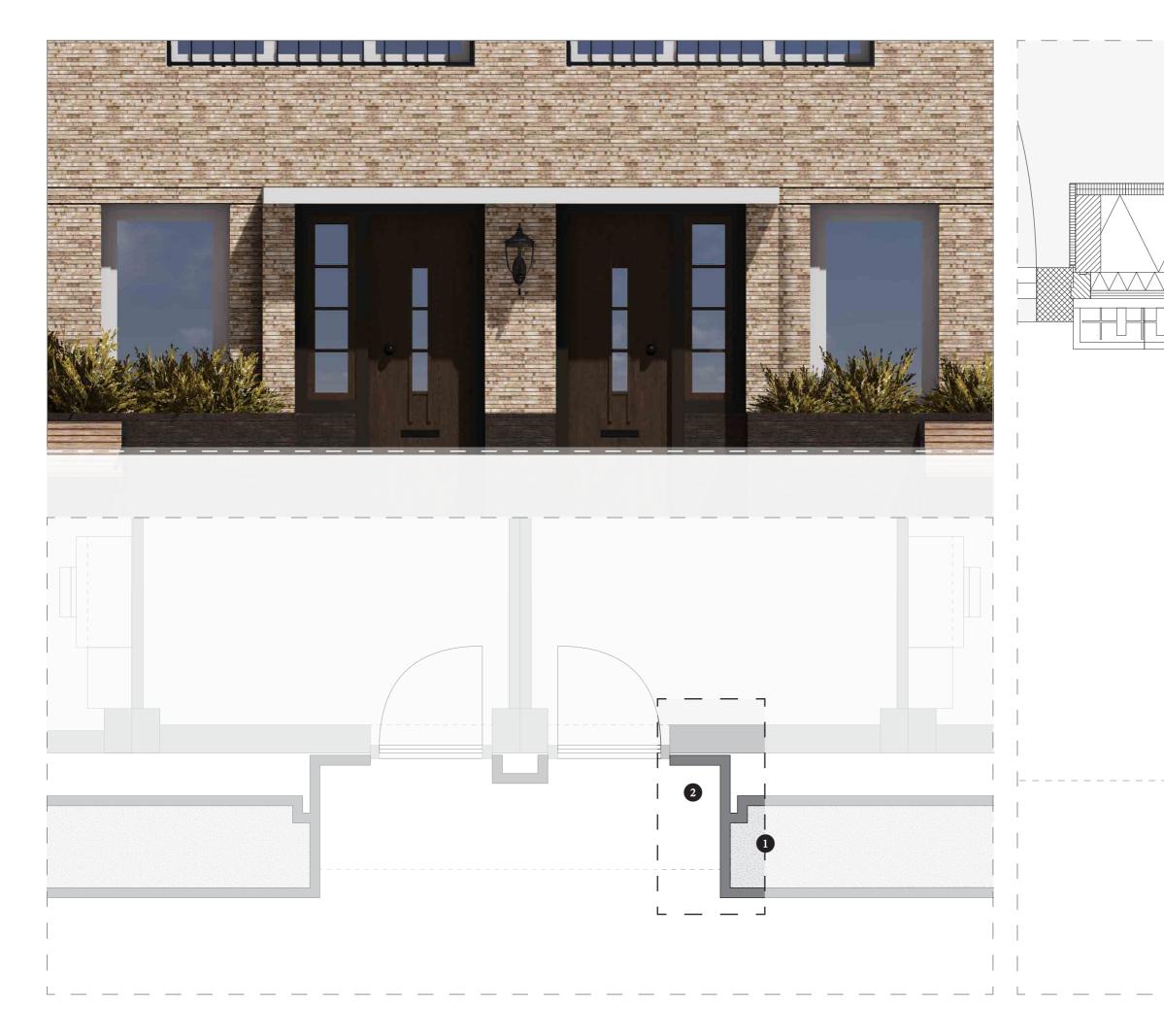


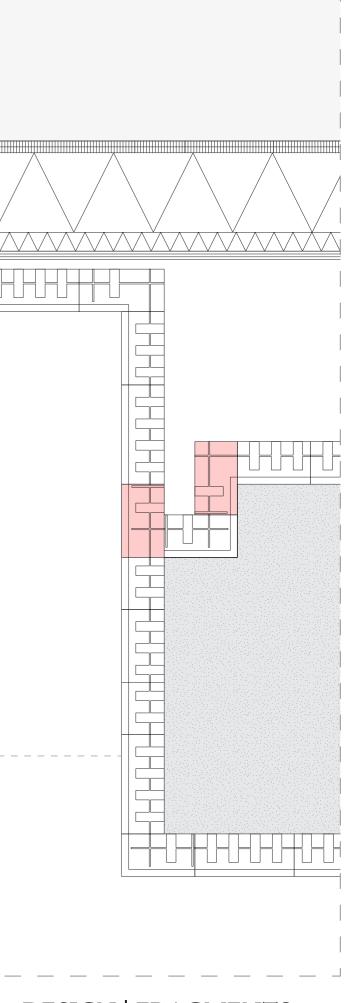




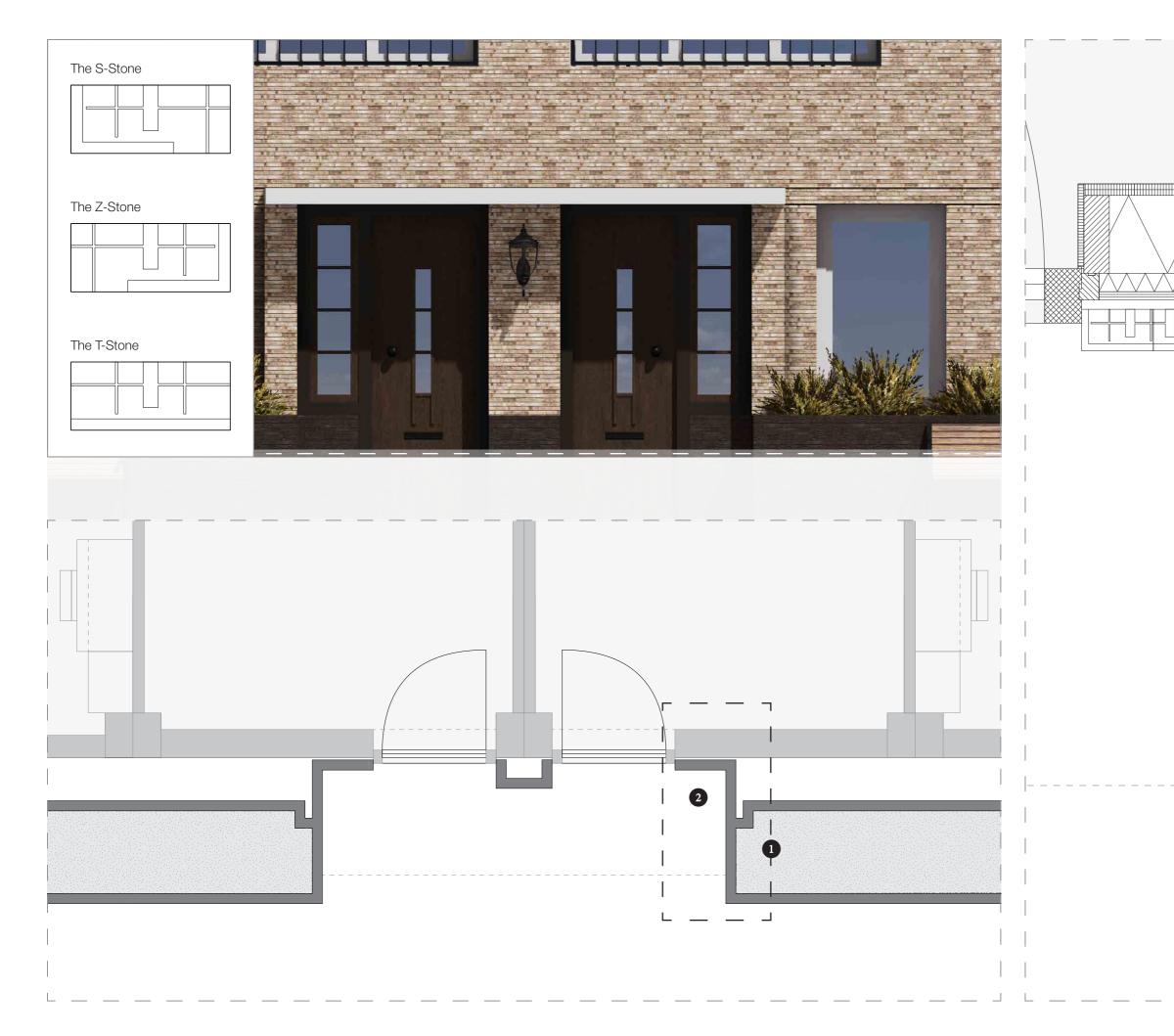


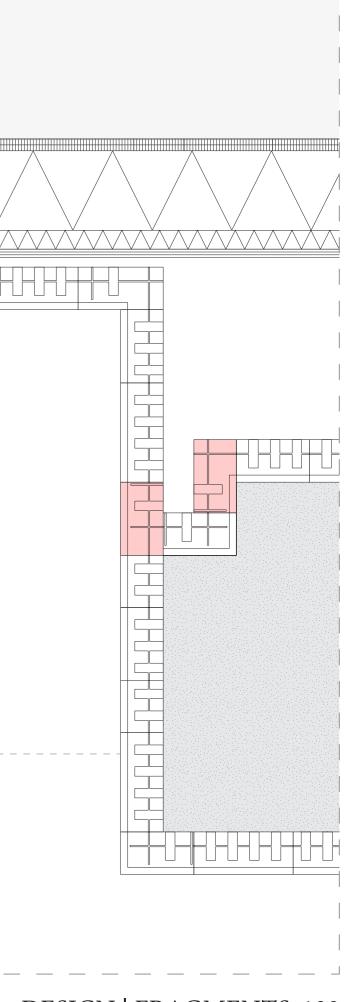




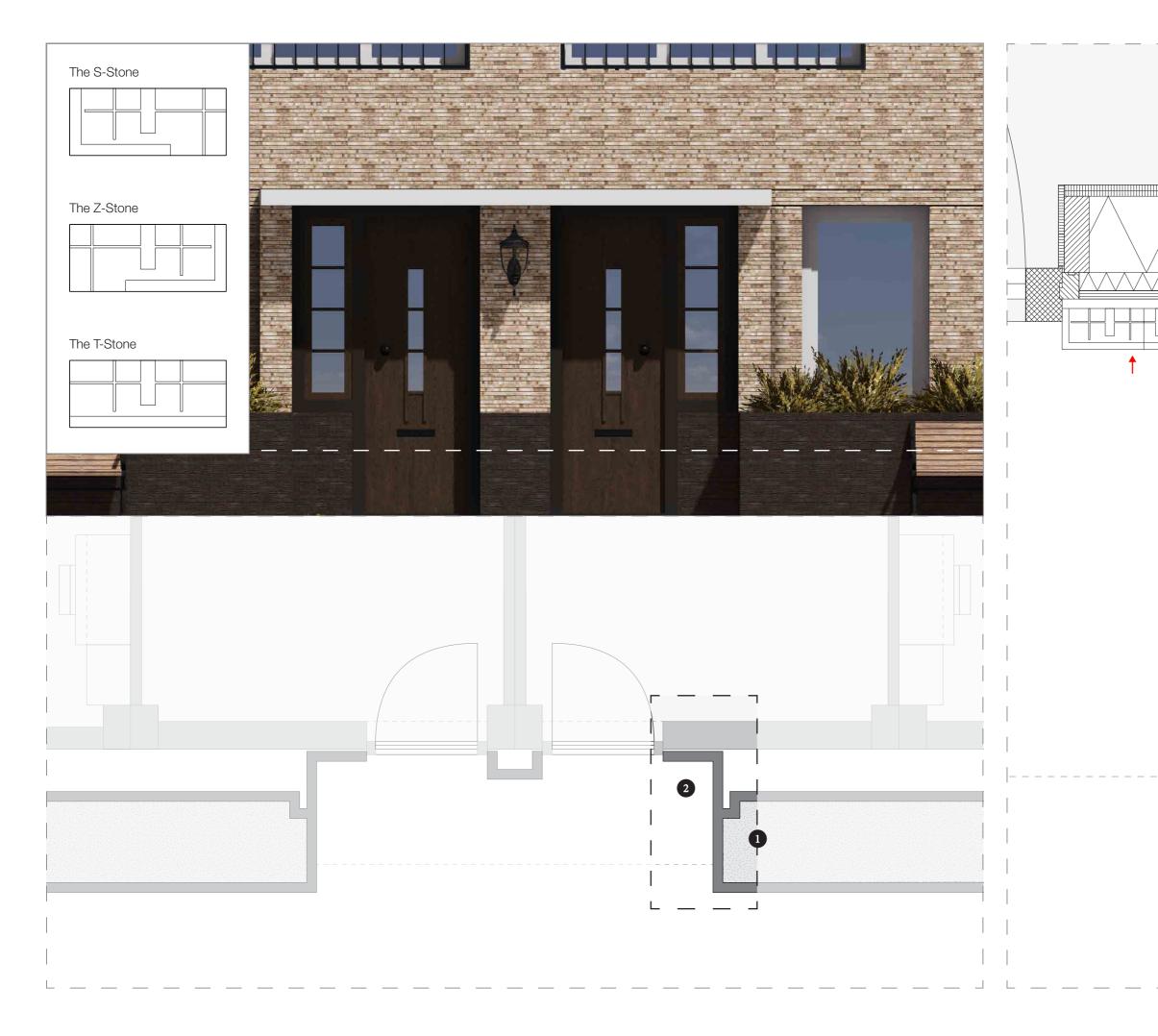


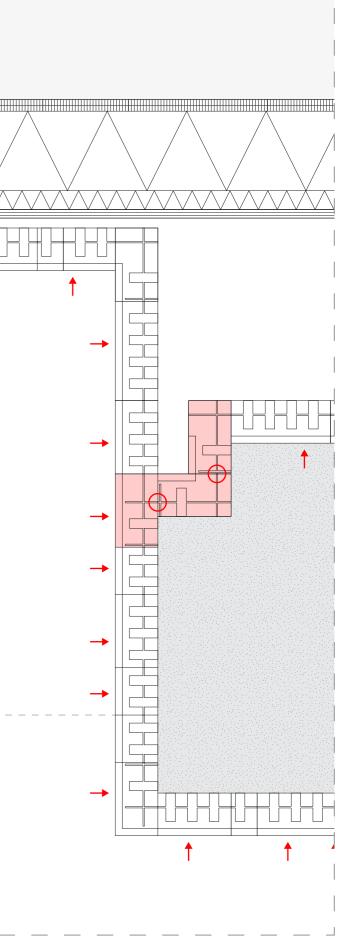
DESIGN | FRAGMENTS 129

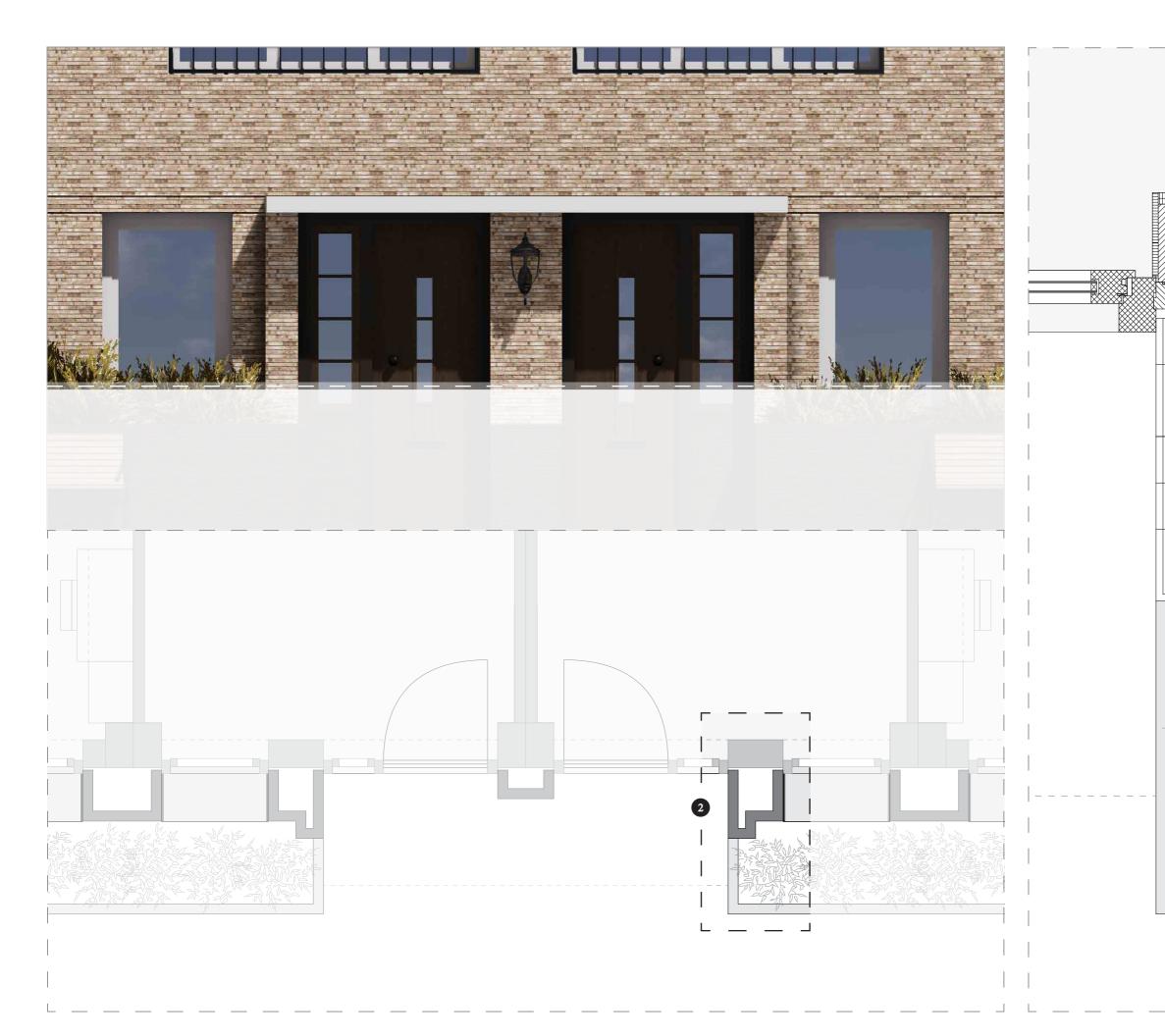


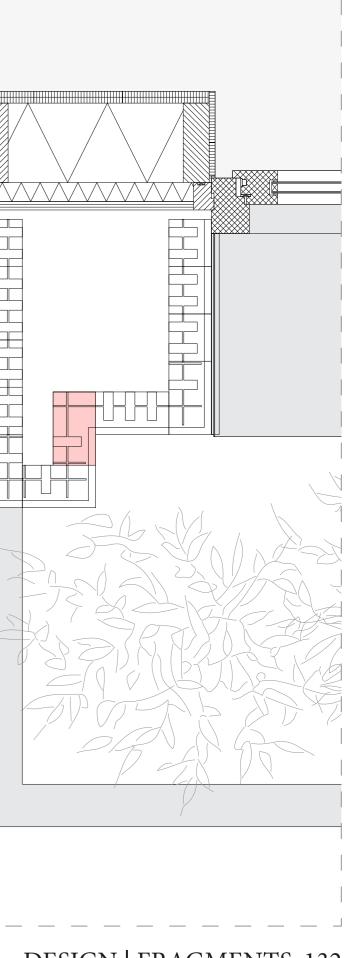


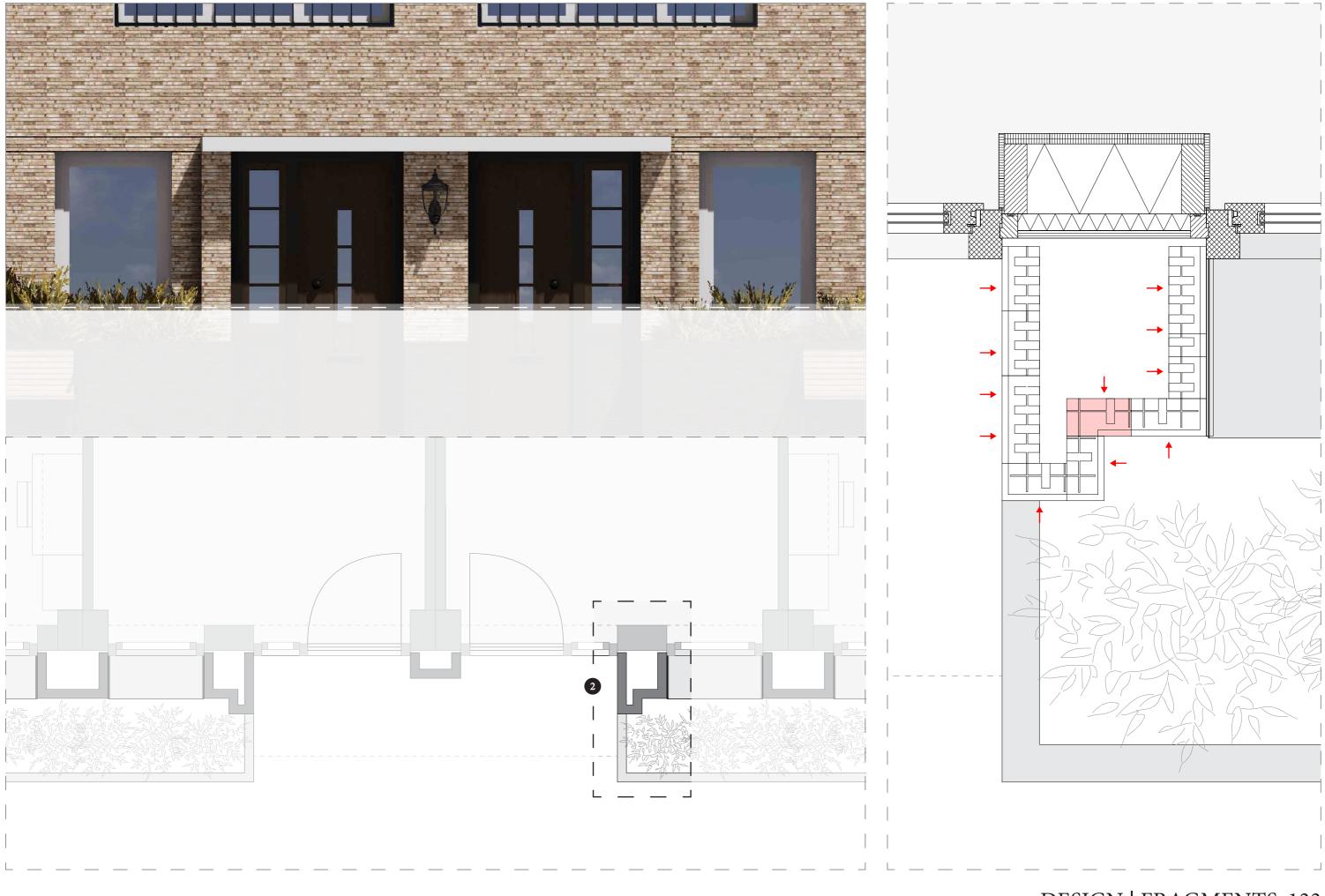
DESIGN | FRAGMENTS 130

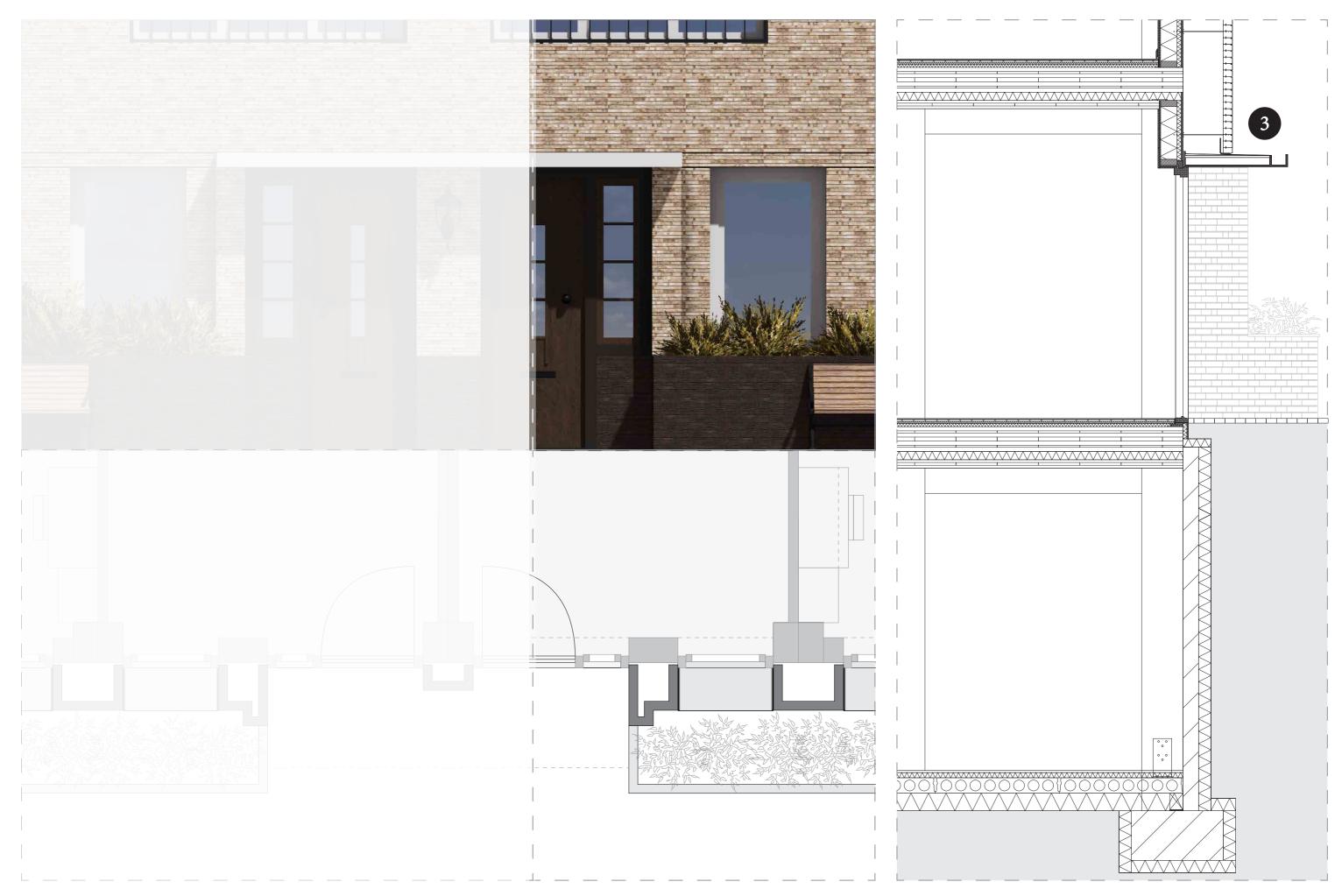


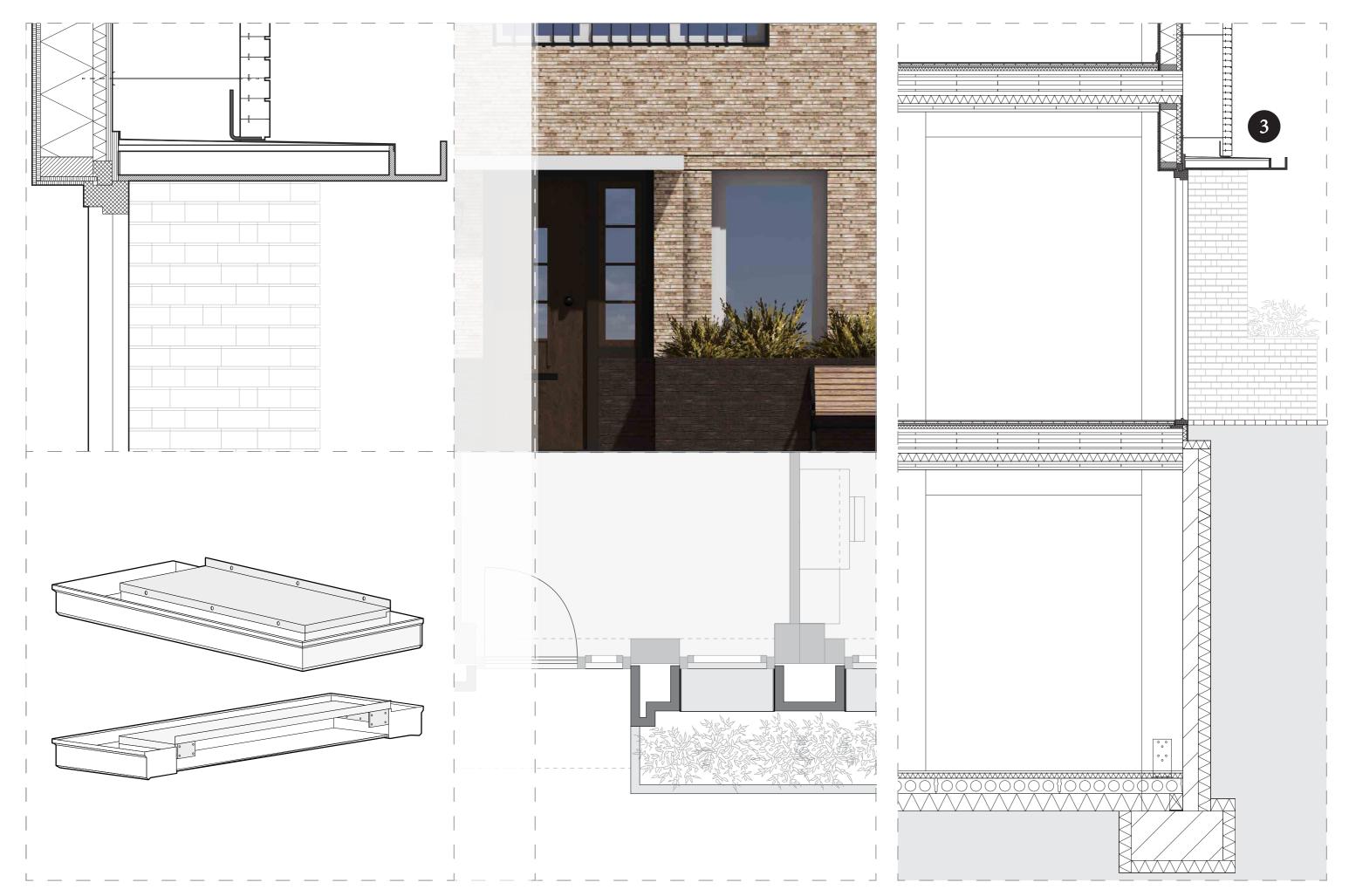




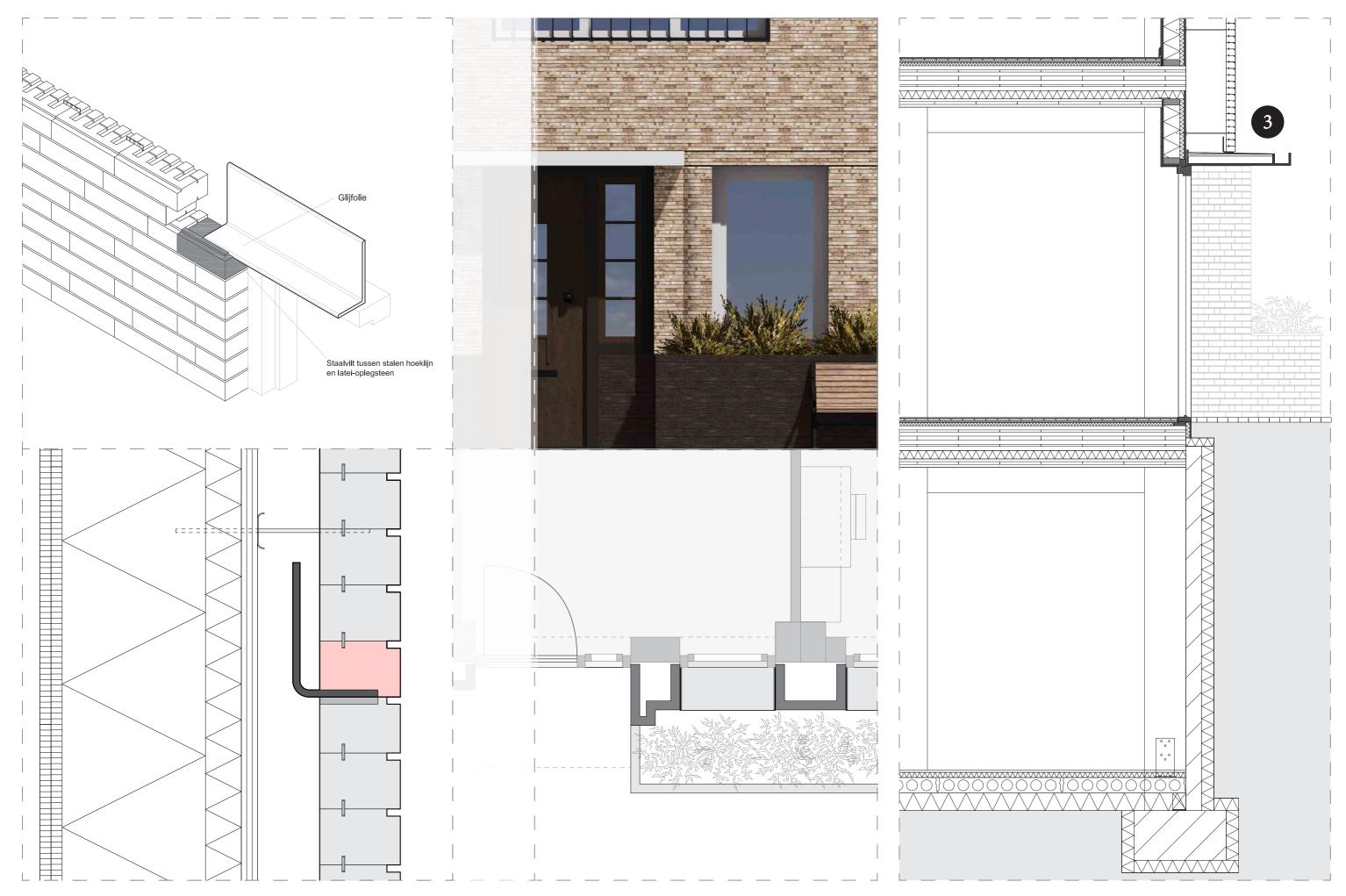


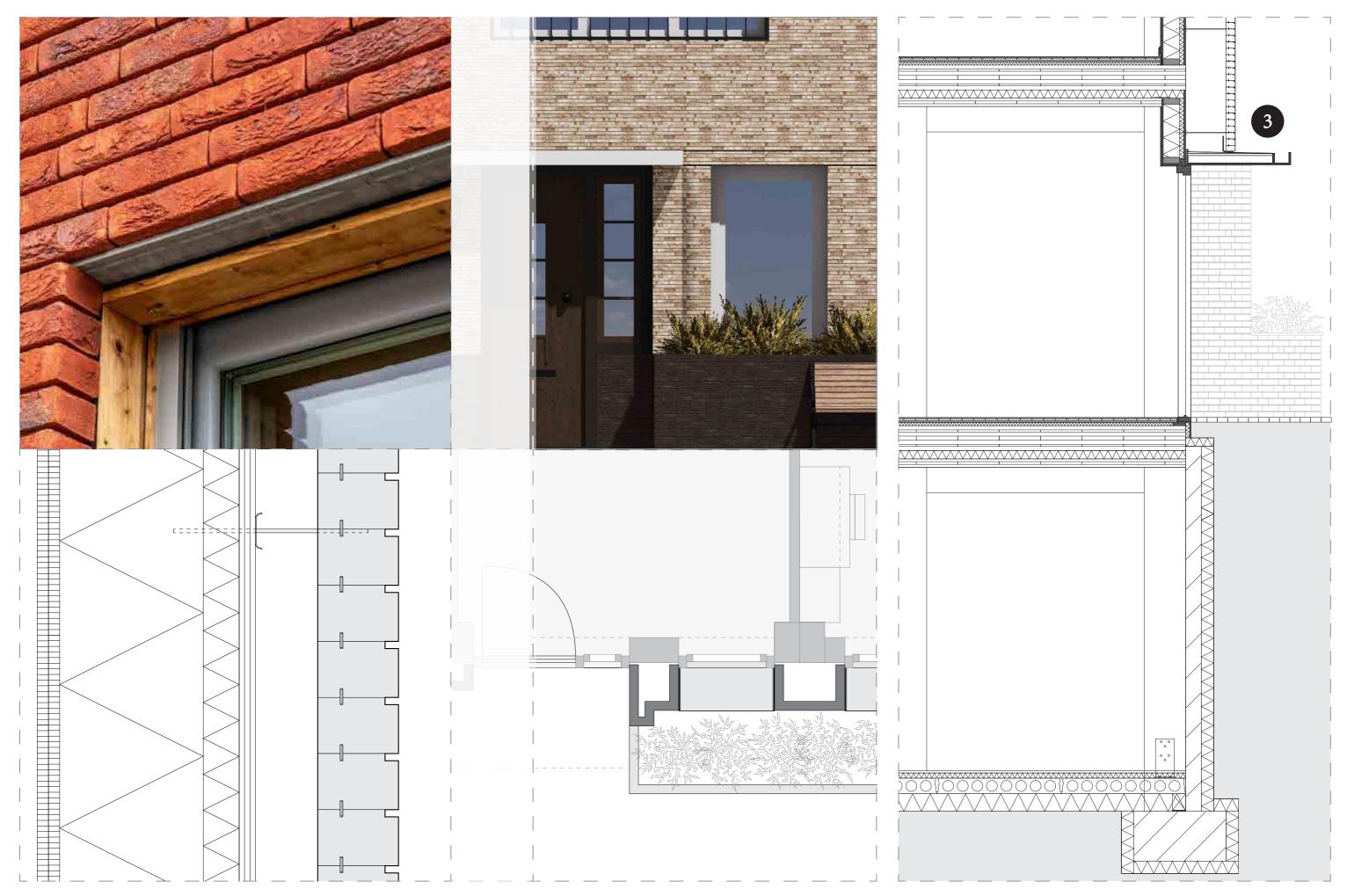


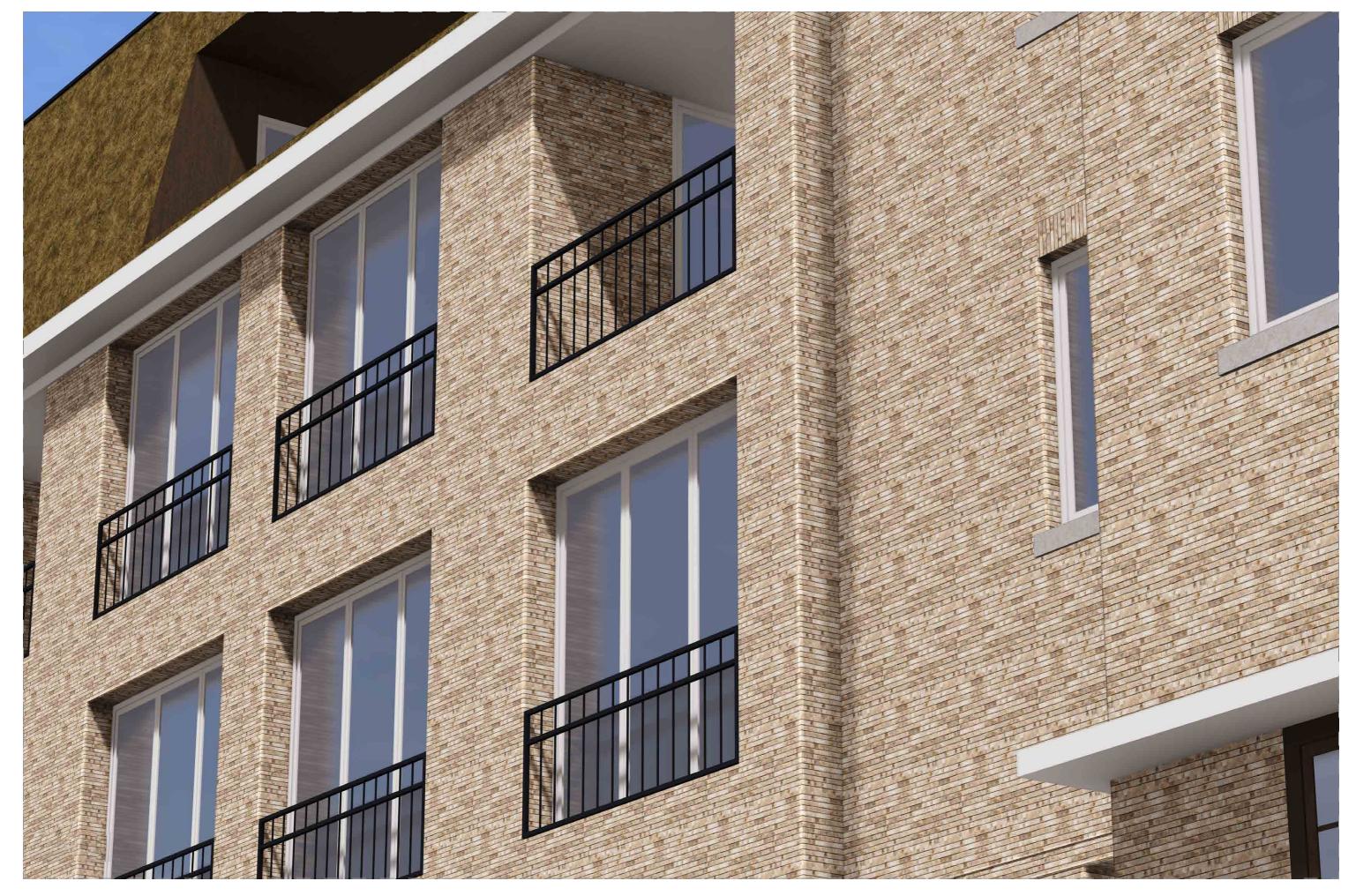




Prefab overhang from Polytech



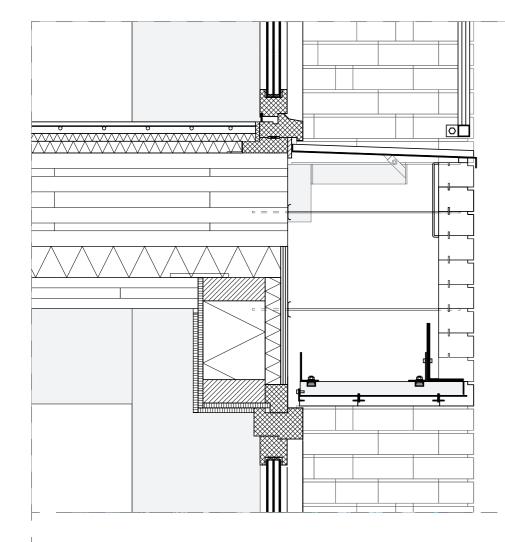




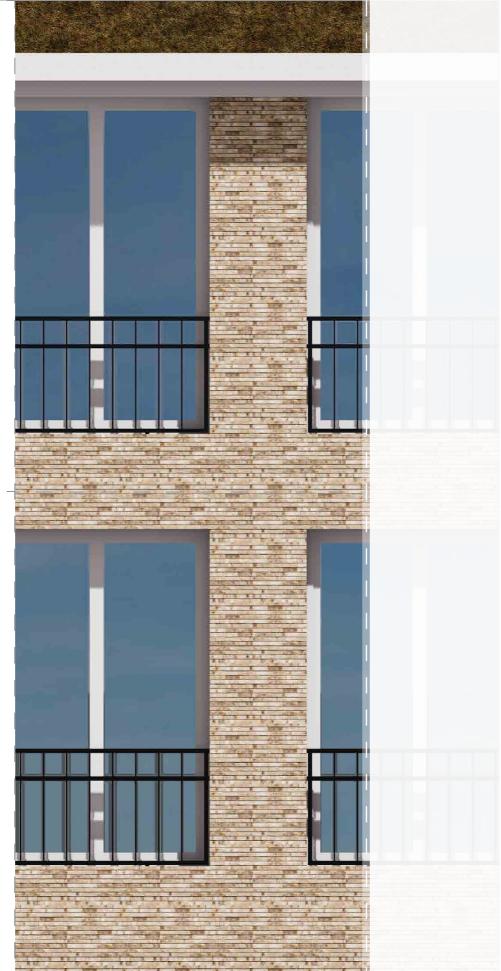


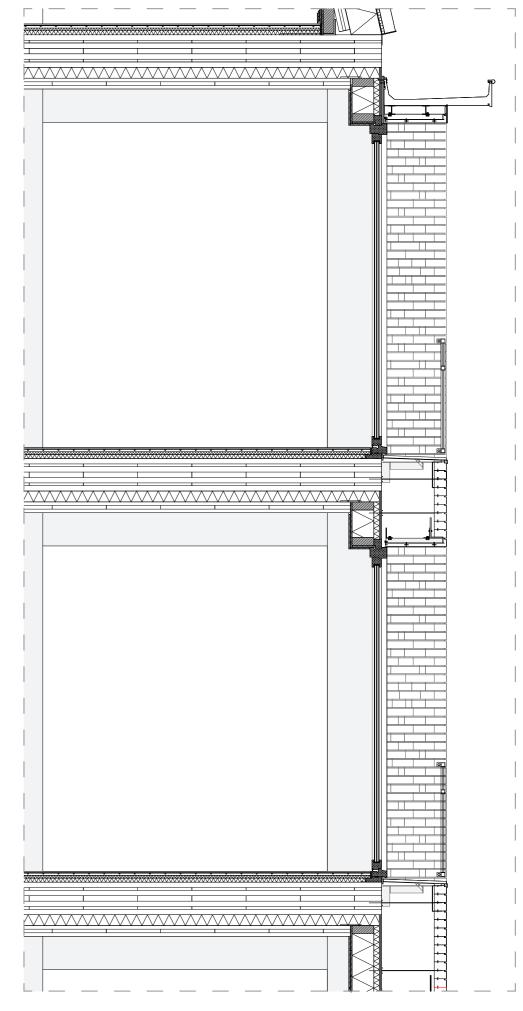


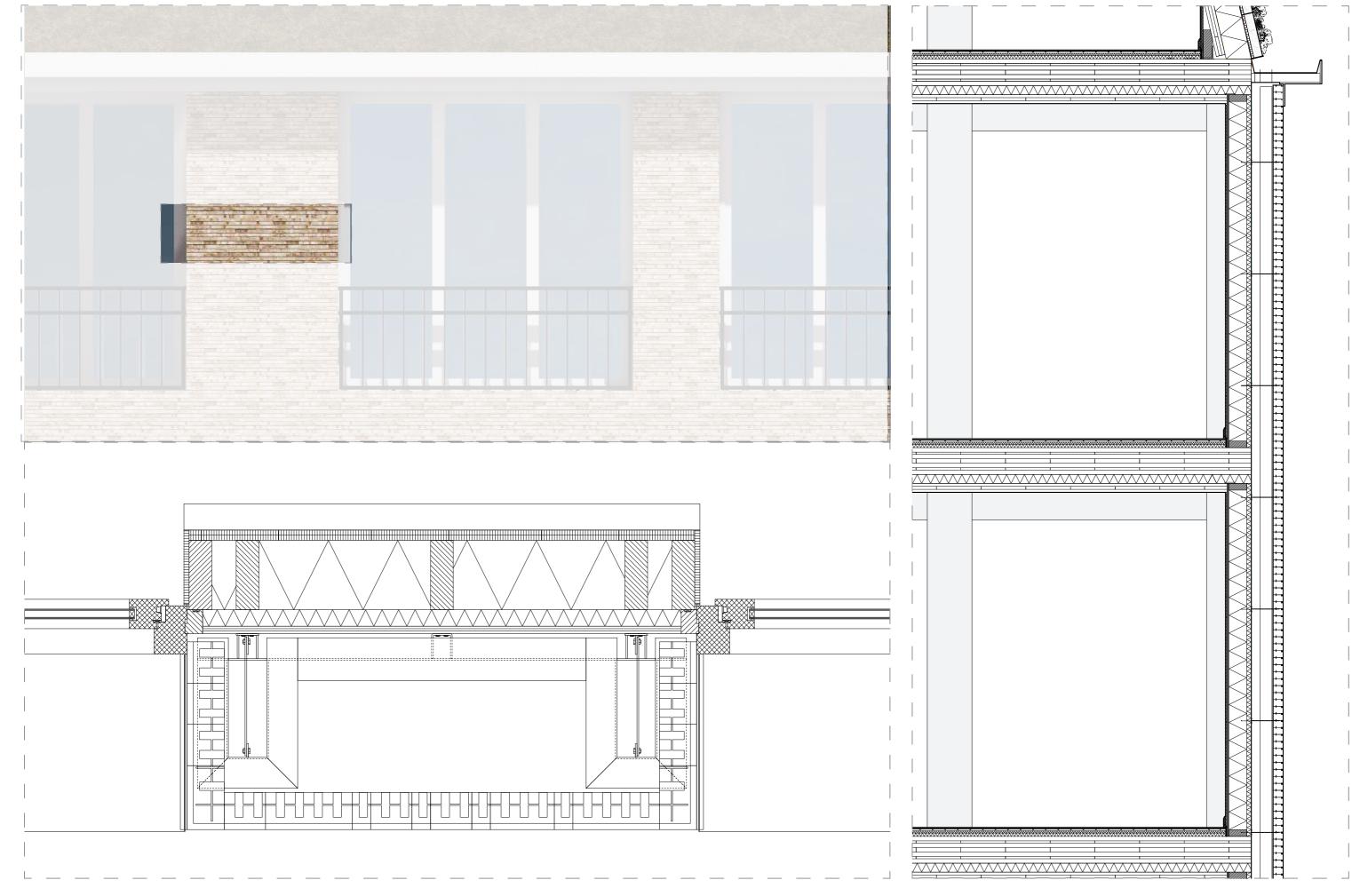














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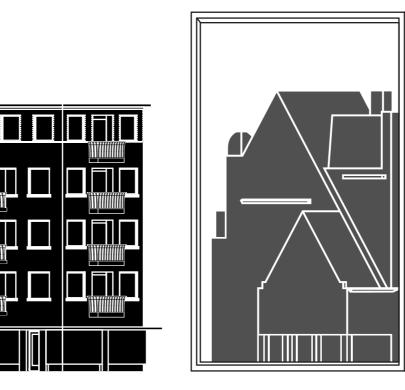
DESIGN | FRAGMENTS 145





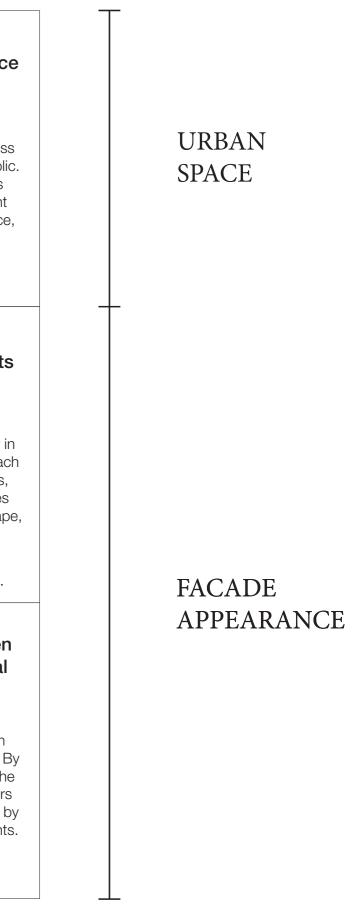
DESIGN | ARCHITECTURE 147

REFLECTION



148

Create different sections and an hierarchy in the building block	Create coherence in the street, building block and urban district	Position and combine entran- ces at street level	Create an intermediate space at entrances	
In this hierarchy the corners in the building block and important planes of volumes are emphasised. Methods are; height difference, protrusion or recessions, different roof constructions, overhangs, ornaments, etc.	By using recurring elements, continuous elements or specific configurations of element. For example, using identi- cal entrance configurations, varied configurations of the same roof shape, continuous eaves, etc. Entrances at street level improves the interaction between the resident and the urban space, sense of safety, vibrancy in the street, accessibility, contribution to the identity of a neighbourhood or district, social connection, etc.		The intermediate space ensures a less harsh border between privat and public. Created by a composition of doors intruded in the building line, different ground material than the public space, overhangs, etc.	
Sections CS1: A1, A2, A3, A4, 46, 47, etc. Sections CS2: A1, A2, A3, A4, A5.			Elements CS1: 1, 11, 42, 45, 65, 85, 87. Elements CS2: 5, 8, 31, 50, 59, 61, 71.	
Create different (sub)sections and emphasise contrast	Connect the (sub)sections	Use elements around a corner and in different planes	Create an order of elements per (sub)section	
Contrast can be made by emphasising the edge of (sub)sections or by empha- sising verticality or horizontality in a (sub) section.	By using elements that refer to, orient to or continues in the other section such as the position of windows, window sills, certain protrusions, material use, large eaves, continuous plinths, ornamentati- ons, string courses, etc.	Improve plasticity by using elements around a corner and in a different pla- nes, making the facade a 3D component of the building block. Elements could be bay windows, distinctive brick bonds, ornamentations, finishings, etc.	The sections are organised vertically in a bottom, middle and top order. In each order facade elements like windows, window sills, muntins, string courses and others are made differently in shape, position or composition.	
Elements CS1: 2, 3, 6, 14, 18, 24, 26, 28, etc. Elements CS2: 1, 4, 6, 14, 16, 18, 19, 22, etc.	Elements CS1: A1*, 15, 16, 17, 18, 20, etc. Elements CS2: 4, 6, 7, 19, 24, 30, 33, 35, etc.	Elements CS1: 7, 13, 15, 16, 17, 26, 28, etc. Elements CS2: 4, 5, 6, 9, 10, 18, 19, 33, etc.	Elements CS1: 2, 3, 4, 8, 9, 18, 19, 21, etc. Elements CS2: 7, 11, 12, 13, 17, 43, 80 etc.	
Break order of elements for emphasis and variation	Emphasise entrances	Conceal the repetitive grid of the dwellings	Divide appearance between commercial and residential use	
The order is broken by the use of a different element or rhythm to put emp- hasis on certain characteristics of the (sub)section, to announce another (sub) section or to create variation within the section, without creating a new section.	The entrances are emphasised by diffe- rent materials and use, ornaments, dis- tinctive windows, distinctive positioning of windows, orientation and composition of the doors, protrusions that create gable ends and terraces, etc.	With the use of elements spanning mul- tiple floors, by combining entrances at street level and by creating (sub)sections that are not created solely on the grid of the dwellings.	By using different window frames in colour, shape, size and composition. By using a different or an alteration on the facade plinth, by using different doors which allows more transparancy and by using specific positioning of ornaments.	
Elements CS1: 6, 7, 10, 22, 29, 56, 58, etc. Elements CS2: 13, 14, 22, 47, 48, 49, etc.	Elements CS1: 1, 11, 42, 45, 65, 66, 85, etc. Elements CS2: 5, 8, 13, 14, 22, 31, 51, etc.	Elements CS1: 1, 7, 11, A1, A1*, A1**, etc. Elements CS2: 5, A3*, A3**, A5, 31, etc.	Elements CS1: 43, 44, 45, 62, 63, 69, 85. Elements CS2: 8, 9, 72.	











LOST PALACES Research on the usage of ornaments and other facade elements by the Amsterdam School in Plan Zuid Koen Kroes

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∢	File Edit Selection View Go Run	Terminal Help	$\leftarrow \rightarrow$		₽ Python			
С	EXPLORER	alleen afstand 1x90	🕏 Alleen afstand 1x90, incl 110	🕏 Dagkant 1 (tm 1x135, max 1x55, 0x 90)	🔷 S-Band 2x90	🔮 Hoek L1 🛛 🔮 Hoek L2		
D S S S S S S S S S S S S S S S S S S S	EXPLORER ···· PYTHON S bocht en dagkant Z bocht en plantenbak Hoek L1 Hoek L2 Hoek L3 Hoek R1 Hoek R2 Hoek R2 Alleen afstand 0x90, incl 110 Alleen afstand 1x90 Alleen afstand 1x90, incl 110 Alleen afstand 90 x0 alleen afstand 90 x0 alleen afstand tm 1x 135 en 0x 90	Z bocht en plantenbak > 1 # Doelafstau 2 target_dista 3 values = [2: 4 5 # Lijst om 0 6 solutions = 7 8 # Itereren 0 9 for a in rau 10 for b in 11 for 12 1 13 1 14 15	<pre>> Hoek R3 > nd en de coëfficiënten ance = 1285 10, 155, 100, 90, 55] # Corro de oplossingen op te slaan [] over alle mogelijke combination nge(target_distance // values n range(2, target_distance // c in range(target_distance // for d in [0]: # Exact 0 keep for e in range(target_distance for e in range(target_distance distance = (a * value)</pre>	esponding to a, b, c, d, e es van a, b, c, d en e [0] + 1): values[1] + 1): # Minimaal 2 keer / values[2] + 1): # Geen beperking r 90 stance // values[4] + 1): # Geen be es[0] +	155 voor 100	Hoek L1 Hoek L2		
		<pre>16 17 17 18 19 19 20 21 21 22 23 24 25 26 27 27 28 29 29 20 20 20 20 20 20 20 20 20 20</pre>						
		Ontwerp/Python/Z b Aantal oplossingen zijn a = 0, b = 2, c = 7 a = 0, b = 3, c = 6 a = 0, b = 4, c = 5 a = 0, b = 5, c = 4 a = 0, b = 5, c = 4 a = 0, b = 7, c = 2 a = 1, b = 2, c = 6 a = 1, b = 3, c = 5 a = 1, b = 4, c = 4 a = 1, b = 5, c = 3 a = 2, b = 2, c = 5 a = 2, b = 3, c = 4	PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS PS C:\Users\kckro\OneDrive\Documenten\Afstuderen\Ontwerp\Huidig Ontwerp\Python> & C:/Users/kckro/AppData/Local/Programs/Python/Python38/python.exe Ontwerp/Python/Z bocht en plantenbak/Hoek R3" Aantal oplossingen zijn: a = 0, b = 2, c = 7, d = 0, e = 5 a = 0, b = 3, c = 6, d = 0, e = 4 a = 0, b = 3, c = 6, d = 0, e = 3 a = 0, b = 5, c = 4, d = 0, e = 1 a = 0, b = 5, c = 3, d = 0, e = 1 a = 0, b = 7, c = 2, d = 0, e = 1 a = 1, b = 3, c = 5, d = 0, e = 1 a = 1, b = 3, c = 5, d = 0, e = 1 a = 1, b = 4, c = 4, d = 0, e = 1 a = 2, b = 3, c = 4, d = 0, e = 1 a = 2, b = 3, c = 4, d = 0, e = 1 B = 2, b = 3, c = 4, d = 0, e = 1 A = 1, b = 3, c = 5, d = 0, e = 1 B = 2, b = 3, c = 4, d = 0, e = 1 B = 2, b = 3, c = 4, d = 0, e = 0 PS C:\Users\kckro\OneDrive\Documenten\Afstuderen\Ontwerp\Huidig Ontwerp\Python> []					
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