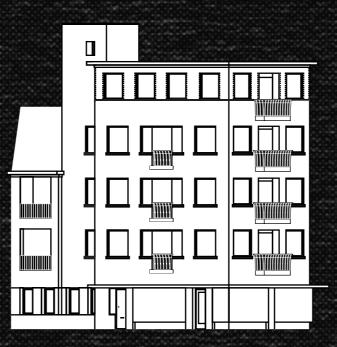
# THE REIMAGINED PALACE



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



# INHOUDSOPGAVE





#### FASCINATION

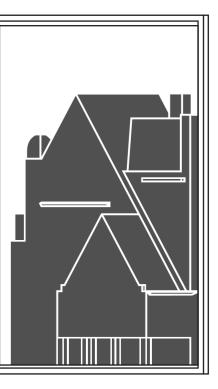
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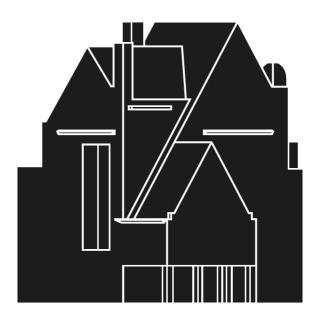
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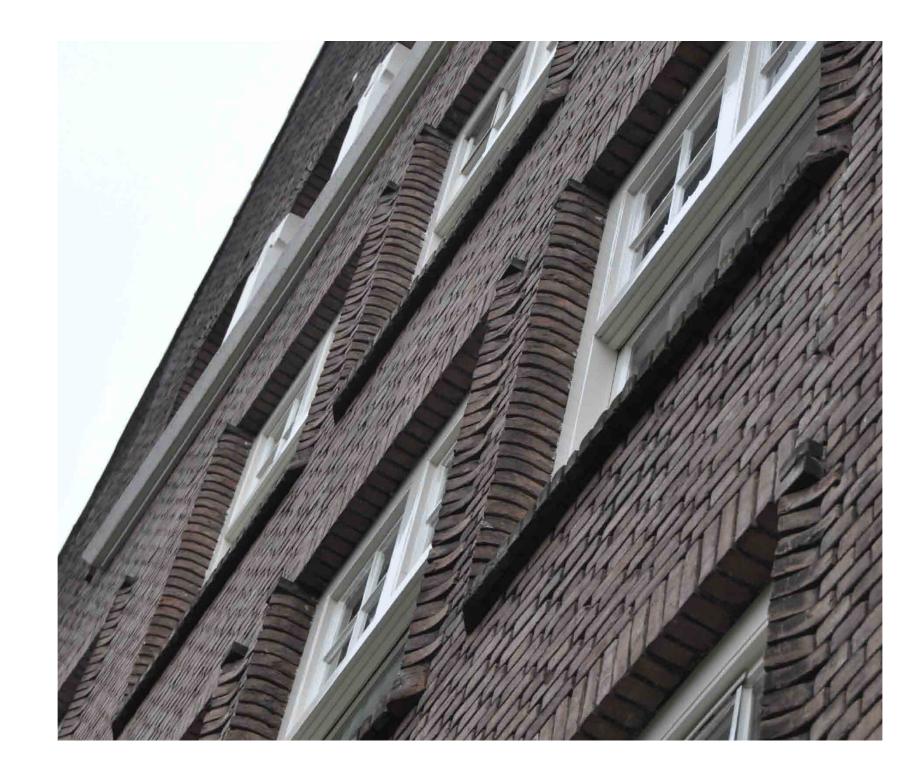


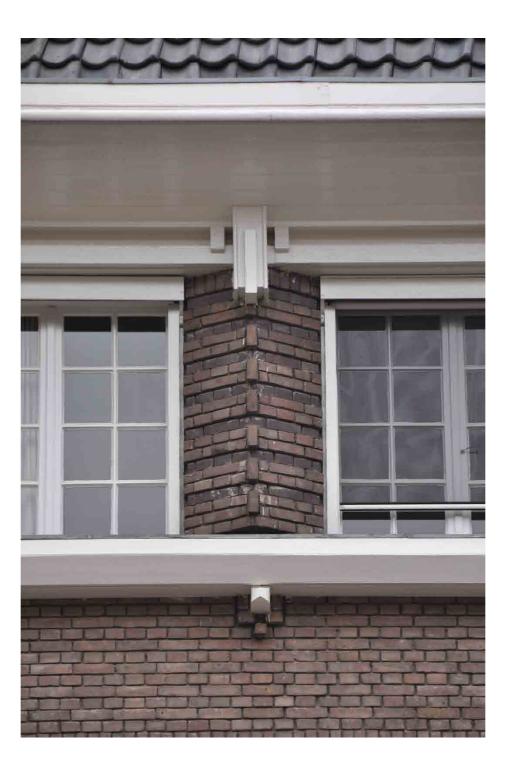
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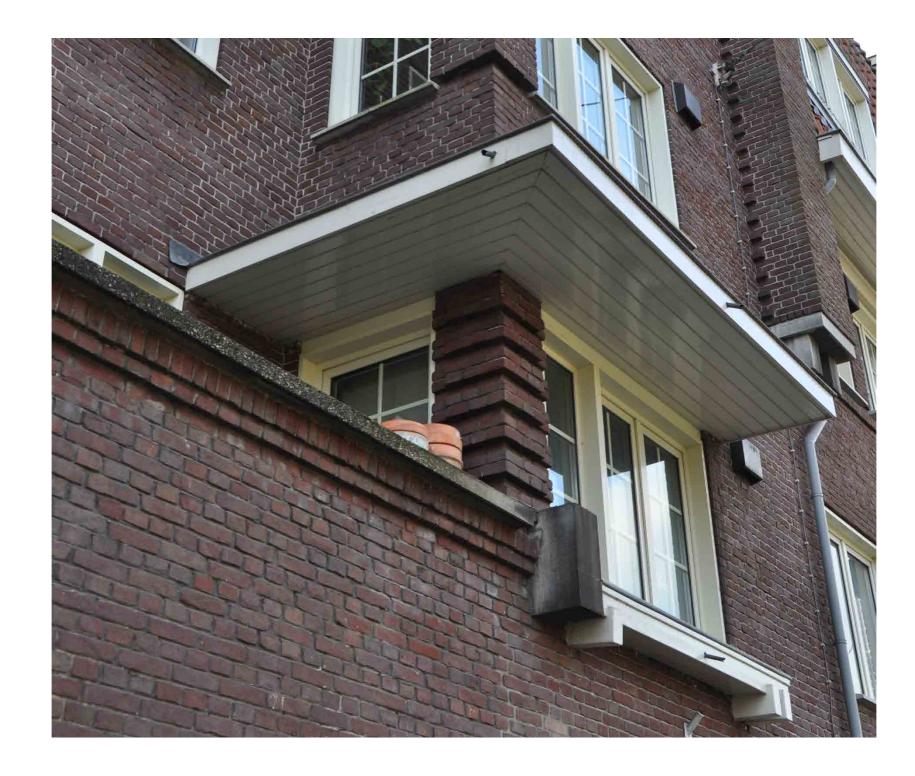
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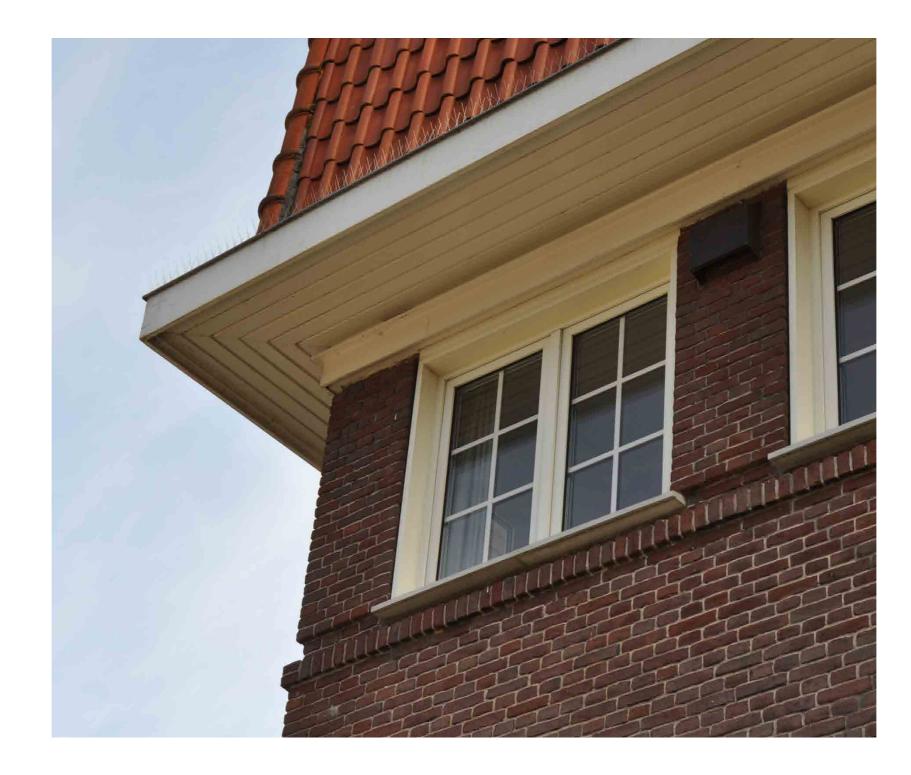
















# FASCINATION | LOST APPROACH 10

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# FASCINATION | LOST APPROACH 11



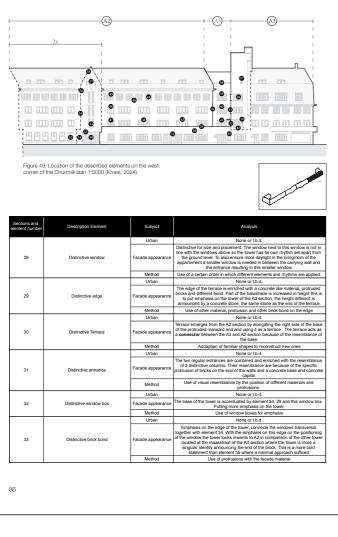
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# FASCINATION | LOST APPROACH 12

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



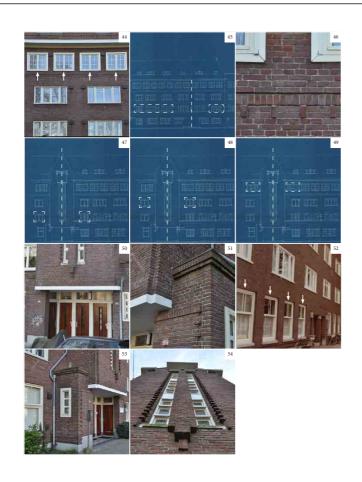
#### FASCINATION | RESEARCH QUESTION 13

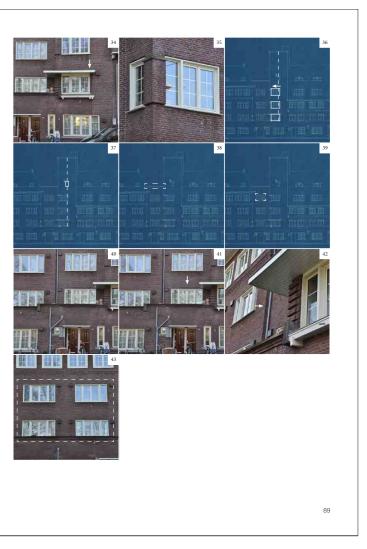




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36         Distinctive window         The window is distinctive because of the earlies making pressure to the glasticity of the building block indexes of the endower to the glasticity of the building block indexes of the endower to the glasticity of the building block indexes of the endower of			Method	
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37         Desinctive window         Lithum         The window is districtly because of the other windows a laboration of the town. This window is located in the middle herefore enhancing the field of the draw middle and the middle herefore enhancing the field of the draw middle and the middle herefore enhancing the field of the draw middle and the middle herefore enhancing the field of the draw middle and polarized on the edge.           A5         Distinctive section         This section is more presence appearance. This has and dentity of the faced because of the edge.           38         Distinctive section         R is see as a individual part and dentity of the faced because of the edge.           39         Distinctive edge         Method         None or 15.0.           39         Distinctive window         Facede appearance.         Edge is the same like the baser (element 24) nonework building like.           39         Distinctive window         Facede appearance.         Window is districtive in Course (element 24) nonework districtive because of the edge.           40         Distinctive window         Facede appearance.         Window is districtive in Course (element 24) nonework districtive because of the edge.           41         Distinctive window         Facede appearance.         Window is districtive incomparison to A2 on the same flow.           42         Distinctive window         Facede appearance.         Window is districtive incomparison to A2 and the same flow.           42         Distinctive terace	36	Distinctive window	Facade appearance	comparison to the tower. It is located more to the edge therefore it is 'looking' at the other sections making it relate more to the plasticity of the building
37         Districtive window         Facede appearance facede appearance bioceden in the middle herefore enhancing the tend of the other windows a like element 30 being of the edge.           45         Method         None or 10.0           56         The station is none accommodating than the wightbeening it serves as an in here in the station is none accommodating than the wightbeening it serves as an in here in the station is none accommodating than the wightbeening it serves as an in here in the station is none accommodating than the wightbeening it serves as an in here in the station is none accommodating than the wightbeening it serves as an in here in the station is none accommodating than the wightbeening it serves as an in here in the station is none accommodating than the wightbeening it serves as an in here in the serves than the polyacity of the faced because of the use of the same lang balancing of the simulation and the station is the serve than the here in the serves the the here the wightbeening it here instructions and not like. If all doesn's the use of the same lang balancing of the station balance of the use of the same lang balance of the use of the same lang balance of the use of the same lang balance of the lang.           38         Distinctive edge         Facede appearance facede appearance balance         Edge is the same lang balance of the same lang balance of the same lang balance of the use of the same lang balance of the use of the same lang balance of the same lang.           39         Distinctive window         Facede appearance facede appearance face			Method	None or t.b.d.
37         Districtive window         Facede appearance is located in the middle therefore enhancing the feed of the draw middle and locate enternal. So into a single enternal single enternal. So into a single enternal			Urban	None or t.b.d.
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Method         Use of offerent well compares recession/portunion           38         Distinctive edge         Edge is the same like the base (demost 24) hower officing the object of base of bas	A5 (Churchill-laan)	Distinctive section	Facade appearance	and positioning of the elements. All the windows are placed in the middle making a more presence appearance than the A4 section on the Maasstraat. It also relates more to the lower than the regular A2/A3 section because of the use of the same edge with brick profrusion and roof tiles. It also deem't have the distinctive brick course (15) which again makes it reals more to the
38         Utan         None or 15.0.           39         Distinctive edge         Facade appearance B height, it is placed much over Than the lower. See Urban AS churchlish an.           39         Distinctive window         Facade appearance Facade appearance Method         For the same last here boxer (energy 42) hower of solicitive boxes of the height, it is placed much over Than the lower. See Urban AS churchlish an.           39         Distinctive window         Facade appearance Facade appearance Method         Window is distinctive in comparison to A2 on the same flow with that emplasing their of incomparison to A2 on the same flow with that the implasing their of incomparison to A2 on the same flow with that emplasing their of incomparison to A2 on the same after flow with that emplasing their of incomparison to A2 on the same after flow with that emplasing their of incomparison to A2 on the same after flow with that emplasing their of incomparison to A2 on the same after flow with that emplasing their of incomparison to the A2 action on the same flow window as implasing their of incomparison to the A3 action on the same flow window as implasing their of incomparison to the A3 action on the same after flow visitors in their their of the same after flow window as implasing their of incomparison to the A3 action on the same flow windows is made to match the with of located windows above enhanching windows is made to match the with of located windows above enhanching windows is made to match the with of located windows above enhanching windows is made to match the with of located windows above enhanching windows is made to match the with of located windows above enhanching windows is made to match the with of located windows above enhanching windows is made to mathe the with of located windows above enhanching windo			Method	
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39         Distinctive window         Facade appearance Method         Window is distinctive in comparison to A2 on the same flow with that emphasising there difference.           40         Distinctive window         Method         None or to 1.0.           40         Distinctive window         Facade appearance emphasising there has a base of the A2 action has a difference.           41         Distinctive terrace door         Window is distinctive terrace door         Window is distinctive terrace door window particular. This window is here are a the window one (D) is ophasizing with window (The A2 action has a difference window particular. This window is the same a the window one (D) is ophasizing with window (The A2 action has a difference window particular. This window is the same a the window one (D) is ophasizing with window (The A2 action has a difference window).           41         Distinctive terrace door         Urban         The thrace door is distinctive because door with fits windows is made to match the with of located windows.           42         Distinctive recess         Facade appearance Wethod         Window is distinctive because door with fits windows is made to match the with of located windows.           42         Distinctive recess         Facade appearance Wethod         Now or 10.0.           43         Distinctive section         Facade appearance windows and window a			Method	None or t.b.d.
39         Distinctive window         Facade appearance Method         Window is distinctive in comparison to A2 on the same flow with that emphasising there difference.           40         Distinctive window         Luban         None or to 1.0.           40         Distinctive window         Facade appearance emphasising there is a distinctive in comparison to Re A2 action has a difference.           41         Distinctive terrace door         Window is distinctive in comparison to Re A2 action has a difference.           42         Distinctive terrace door         Uban         The thrace distinctive bearse and the window window parison to the A2 action has a difference.           42         Distinctive terrace door         Facade appearance windows is made to match the wind of located windows.           42         Distinctive terrace door         The thrace door sing distinctive bearse and window is accomparison to the A2 and A3 action.           42         Distinctive terrace door         Facade appearance windows is made to match the wind of located windows.           42         Distinctive recess         Facade appearance Wethod         Nore or to 1.0.           43         Distinctive section         Facade appearance windows is made to match the wind of located windows there an automation and and window wi			Urban	None or thid
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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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A2 Wetside Chardhilidaan         Method         None or t.b.d.           A2 Wetside Chardhilidaan         Distinctive section         I behveen the profusion of the starsaes and their complementary bases a space is created, for some this is a place for their how sign of the management valide on drawing and herefore it seems uniferional by the architect. This section is distinctive because the lower slope of the management for law much shorter making the building look much higher than the A3 section. This is consistentiation and by uniform the same management of law profusion of a red wall with the same management subclinitia as it is. Method           43         Distinctive terrace door         The starten door is discussed whom single a continuous started in a procession of the full methods the full door short the same manage opportung of the startenas. The books in space of the full door and by uniform separating the factor is the full door and by uniform term as substantiat as it is.           43         Distinctive terrace door         Facade appearance Facade appearance Facade appearance Facade appearance	42	Distinctive recess	-	The whole A4 section is recessed in comparison to the A2 and A3 section.
A2 Werside Currchil-kan         Urban         space is created, for some this is a place for the birs of order an opportunity to create a lites grand notavely against the facade. This is not valide on drawing and therefore it seems unifiednoise by the architect. This section is distribute because the lower signs of the manager for lite much shorter making the building look much higher than the A3 section. This place most of the times. The facade is apparation is not setting the facade in hostochial lines. The facade is apparation is not setting the facade in hostochial lines. The facade is apparation functioning as it differs the scales in control lines. The facade is apparation is not differs the scales of portunation and by inviticed of the setting of the scale in the scale in the different the miclos as and of the setting of the scales in the scale in the different the miclos of the setting of the scales in the scale in the different the miclos of the setting of the scales in the scale in the different the miclos of the setting of the scales in the scale in the different the miclos of the setting of the scales in the scale in the different the miclos of the setting of the setting of the scales of the setting of the scales of the setting of the scales of the setting of the scales of the setting of the scales of the setting of the scales of the setting of the scales of the setting of the scales of that is duplicated many time in the facades creating a continuous facade in the setting of the scales of the setting of the scales of the setting of the scales of that is duplicated many time in the facades creating a continuous facade in the setting of the scales of the setting of the scales of the setting of the scales of the setting of the scales of the setting of the scales of the setting of the scales of the setting of the scales of the setting of the setting of the scales of the setting of the scales of the setting of the scales of the setting of the scales of the settin	I		Method	
A2 Westside Churchil-laan         Distinctive section         Facade appearance appearance         Facade appearance protugion of an end wall with the same managed production and by windows are different them added ones separation of an end wall with the same managed production takes using protugion of an end wall with the same managed production takes using separation of an end wall with the same managed production takes using address. Because of this te block covers the end works and of the text host covers of the text ock covers the end works and the same managed production and by windows are different the windows also differes. Because of this text ock covers the end works and the same managed production host of the same managed production and the same managed production takes and the same managed of the text ock covers the end works and the same managed of the text ock covers the end works and the same and the same managed production and the same managed production that is duplicated many times in the facades corealing de windows that is duplicated many times in the facades a continuous facade in the same and the facade same and the same managed production and the text of the text ock covers the text ock covers the text ock occers the take is duplicated many times in the facades corealing a continuous facade in the managed and the same and the same and the same and the same text occers the text occers the text ock covers the text occers the text occers the text occers the text occers the take is duplicated many times in the facades corealing a continuous facade in the managed and text occers the text occers the text occers the text occers the text occers the text occers the text occers the text occers the text occers the text occers the text occers the text occers the text occers the text occers the text occers the text occocers the text occers the text occers the text occers th			Urban	space is created, for some this is a place for their bike for other an opportunity to create a little garden closely against the facade. This is not
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.

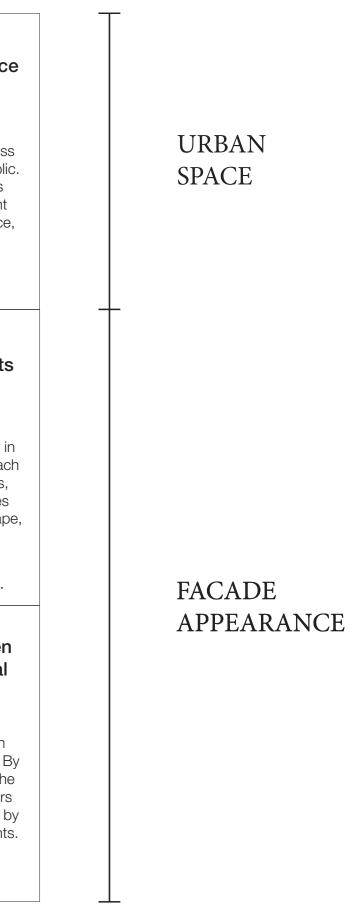
		Urban	None or t.b.d.
44	Distinctive window	Facade appearance	Distinctive because the window has a negative window reveal, meaning the window frame protrudes from the facade. The window is much smaller and i placed twice as much. In result the penant is much smaller accentuating the horizontality much 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



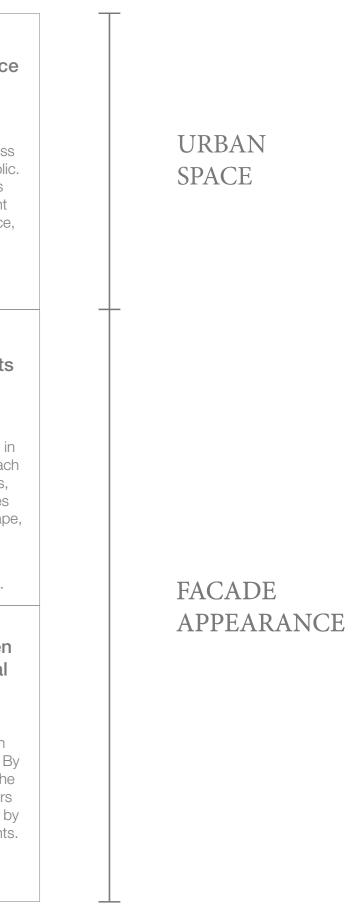


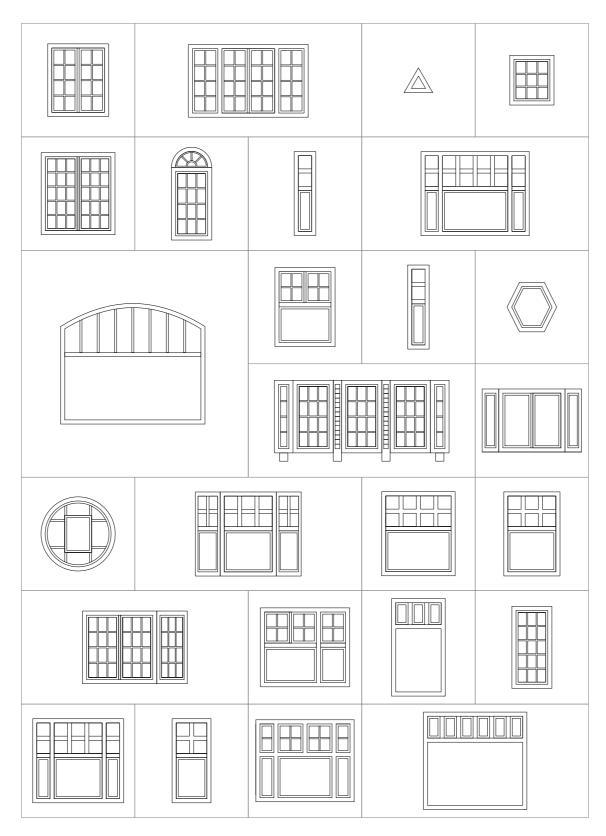
#### FASCINATION | CATOLOGUE 14

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.

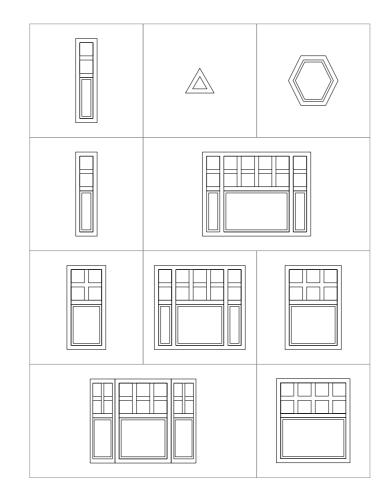


Create coherence in the street, building block and urban district	Position and combine entran- ces at street level	Create an intermediate space at entrances
By using recurring elements, continuous elements or specific configurations of element. For example, using identi- cal entrance configurations, 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.
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.
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.
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.
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.
	<ul> <li>street, building block and urban district</li> <li>By using recurring elements, continuous elements or specific configurations of element. For example, using identical entrance configurations, varied configurations of the same roof shape, continuous eaves, etc.</li> <li>Elements CS1: 6, 17, 30, 32, 34, 54, 83, etc. Elements CS2: 5, 6, 7, 20, 24, 75, 89, 98, etc.</li> <li>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, ornamentations, string courses, etc.</li> <li>Elements CS1: A1*, 15, 16, 17, 18, 20, etc. Elements CS2: 4, 6, 7, 19, 24, 30, 33, 35, etc.</li> <li>The entrances are emphasised by different materials and use, ornaments, distinctive windows, orientation and composition of windows, orientation and composition of the doors, protrusions that create gable ends and terraces, etc.</li> </ul>	street, building block and urban districtPosition and combine entran- ces at street levelBy using recurring elements, continuous element, For example, using identi- cal entrance configurations, varied 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.Elements CS1: 6, 17, 30, 32, 34, 54, 83, etc.Elements CS1: 1, 11, 42, 45, 65, 85, 87. Elements CS2: 5, 6, 7, 20, 24, 75, 89, 98, etc.By using elements that refer to, orient to or continuous in the other section such as the position of windows, window sills, cortain protrusions, material use, large eaves, continuous plinths, ornamentati- ons, string courses, etc.Use elements caround a corner and in different planesEmphasise entrancesImprove plasticity by using elements around a corner and in a different pla- nes, making the facade a 3D component of the building block. Elements CS1: A1*, 15, 16, 17, 18, 20, etc. Elements CS2: 4, 6, 7, 19, 24, 30, 33, 35, 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 CS2: 4, 5, 6, 9, 10, 18, 19, 33, etc.The entrances are emphasised by diffe- rent materials and use, ornaments, dis- tinctive windows, distinctive positioning of windows, distinctive position

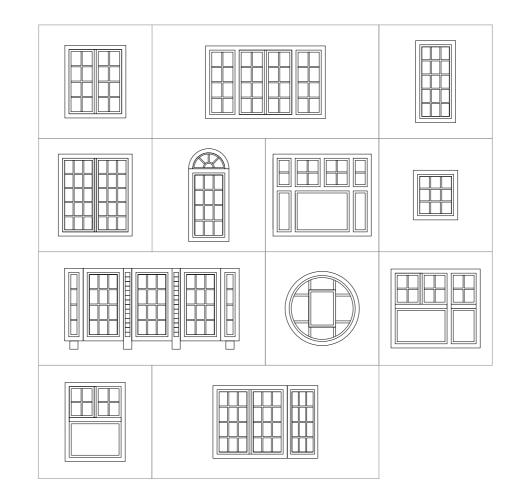


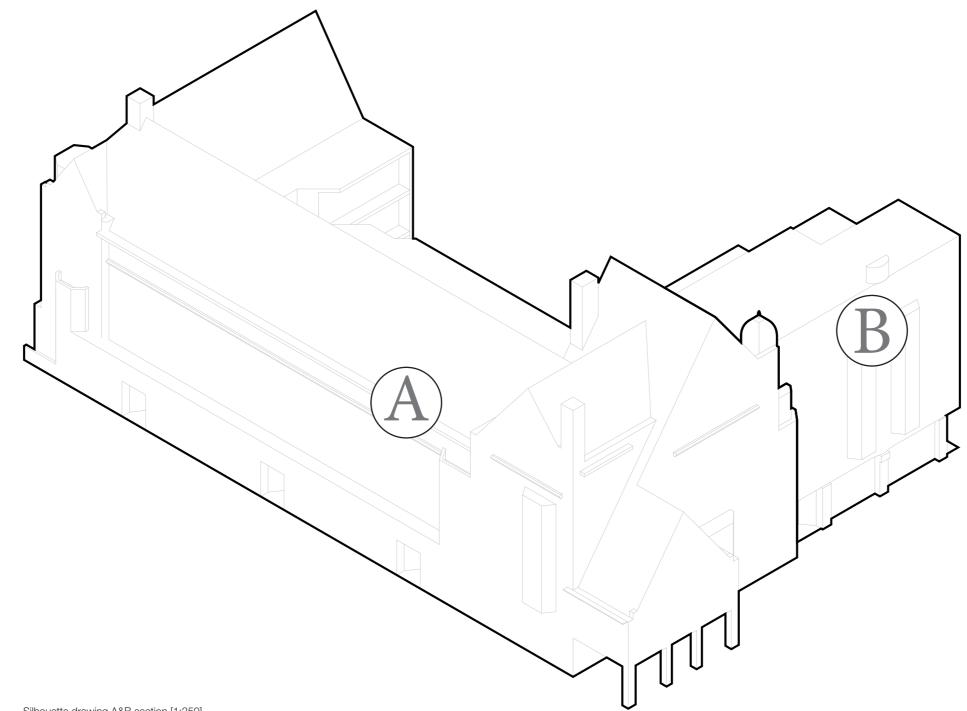


Different window types of The first Case study [scale 1:65]



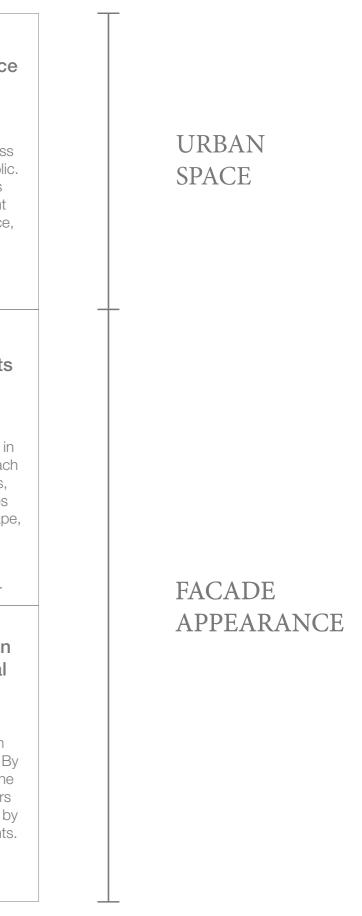
Different window types section B (left) & A (right) [scale 1:65]



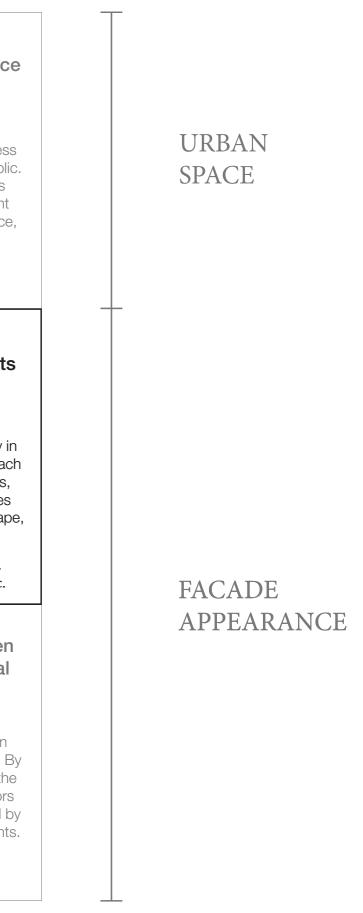


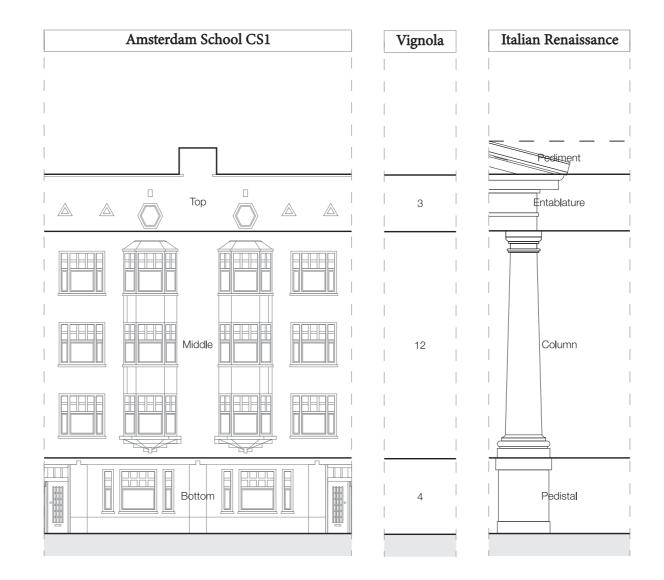
Silhouette drawing A&B section [1:250]

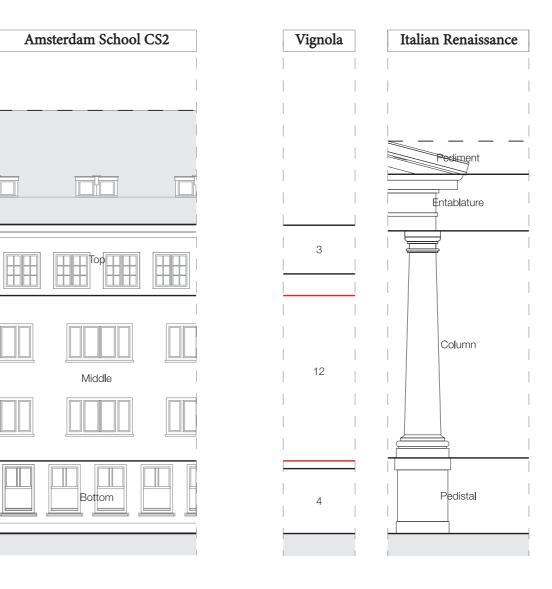
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Connect the (sub)sections	Use elements around a corner and in different planes	Create an order of elements per (sub)section
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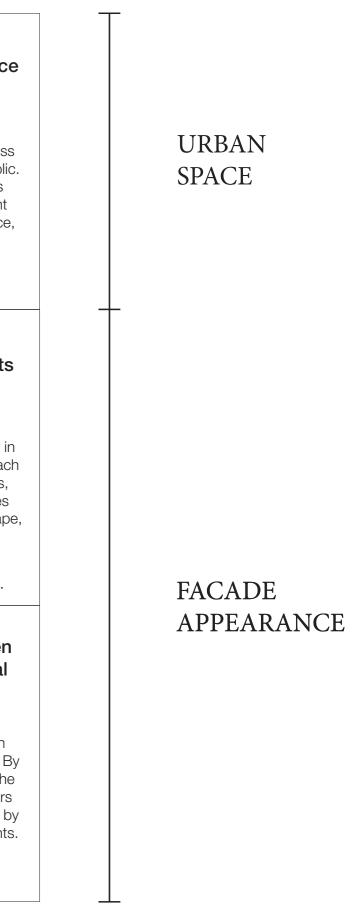
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Connect the (sub)sections	Use elements around a corner and in different planes	Create an order of elements per (sub)section
By using elements that refer to, orient to or continues in the other section such as the position of windows, window sills, 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.
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.
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.
	<ul> <li>street, building block and urban district</li> <li>By using recurring elements, continuous elements or specific configurations of element. For example, using identical entrance configurations, varied configurations of the same roof shape, continuous eaves, etc.</li> <li>Elements CS1: 6, 17, 30, 32, 34, 54, 83, etc. Elements CS2: 5, 6, 7, 20, 24, 75, 89, 98, etc.</li> <li>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, ornamentations, string courses, etc.</li> <li>Elements CS1: A1*, 15, 16, 17, 18, 20, etc. Elements CS2: 4, 6, 7, 19, 24, 30, 33, 35, etc.</li> <li>The entrances are emphasised by different materials and use, ornaments, distinctive windows, orientation and composition of windows, orientation and composition of the doors, protrusions that create gable ends and terraces, etc.</li> </ul>	street, building block and urban districtPosition and combine entran- ces at street levelBy using recurring elements, continuous element. For example, using identi- cal entrance configurations, varied 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.Elements CS1: 6, 17, 30, 32, 34, 54, 83, etc.Elements CS1: 1, 11, 42, 45, 65, 85, 87. Elements CS2: 5, 6, 7, 20, 24, 75, 89, 98, etc.By using elements that refer to, orient to or continuous plinths, ornamentati- ons, string courses, etc.Use elements around a corner and in different planesBy using elements that refer to, orient to or 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 CS1: A1*, 15, 16, 17, 18, 20, etc. Elements CS2: 4, 6, 7, 19, 24, 30, 33, 35, etc.Emphasise entrancesConceal the repetitive grid of the dwellingsThe entrances are emphasised by diffe- rent materials and use, ornaments, dis- tirctive windows, distinctive positioning of windows, distinctive positi







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 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.

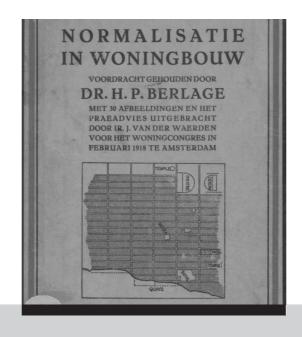


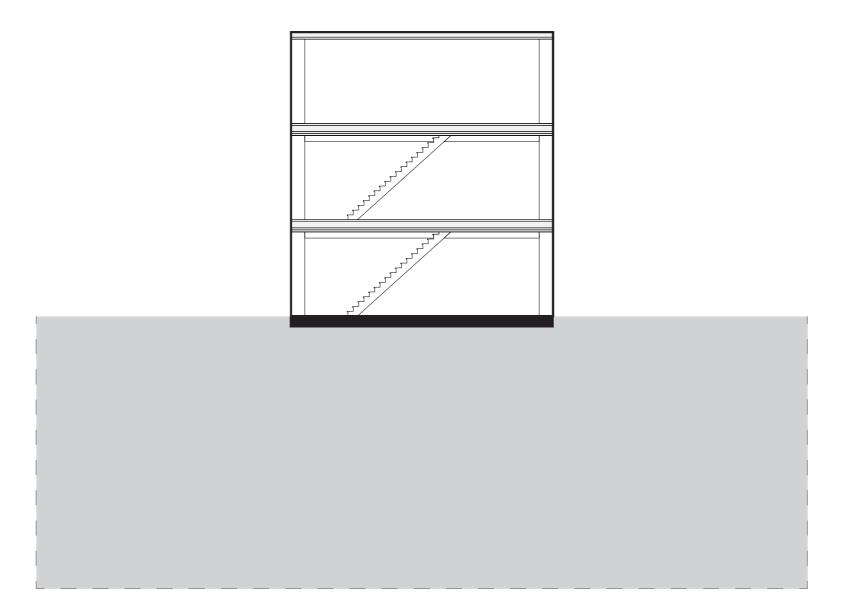
How can the principles outlined in the toolbox be integrated with modern challenges, such as sustainability, environmental impact and current construction methods?

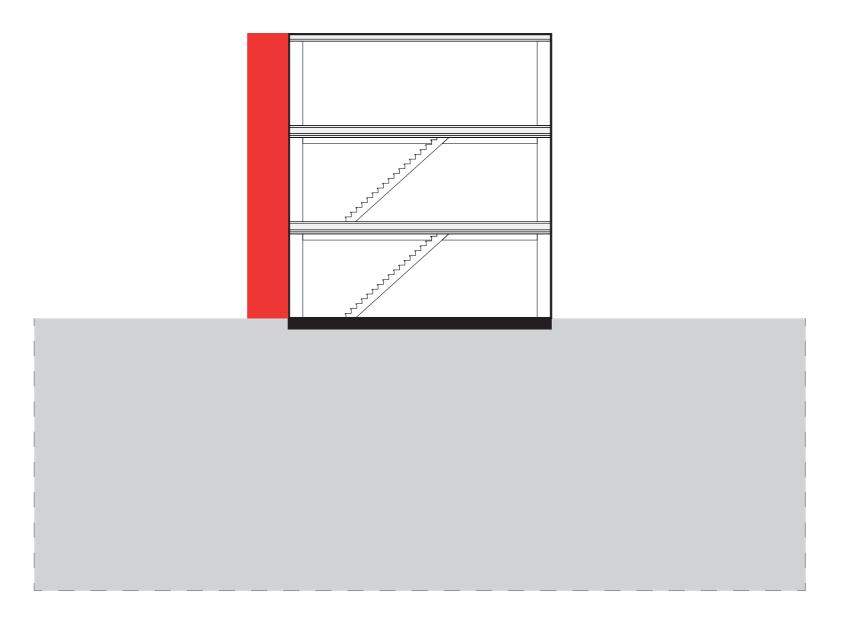
#### RESEARCH | DESIGN QUESTION 25

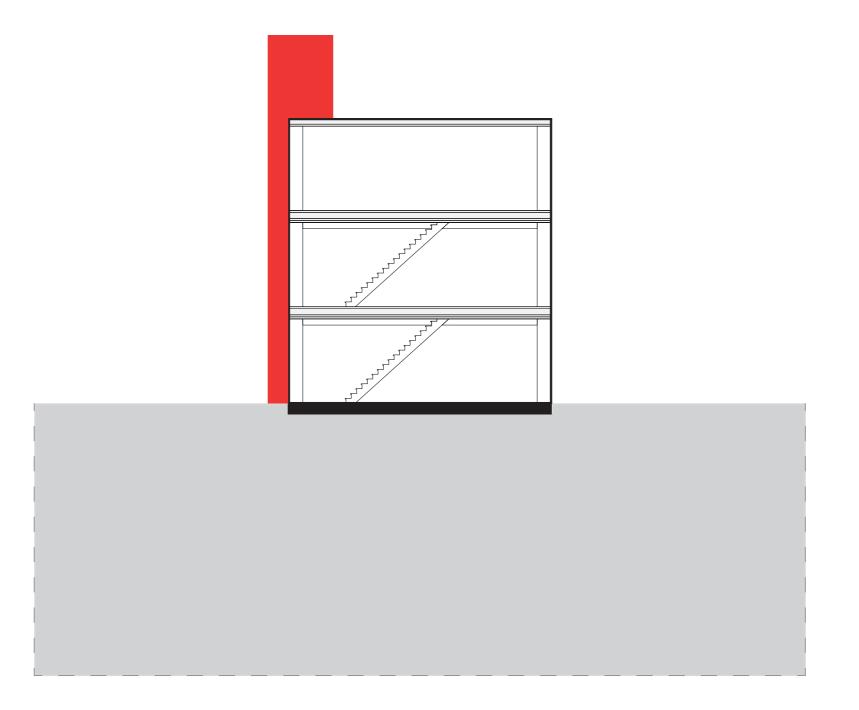
# DESIGN



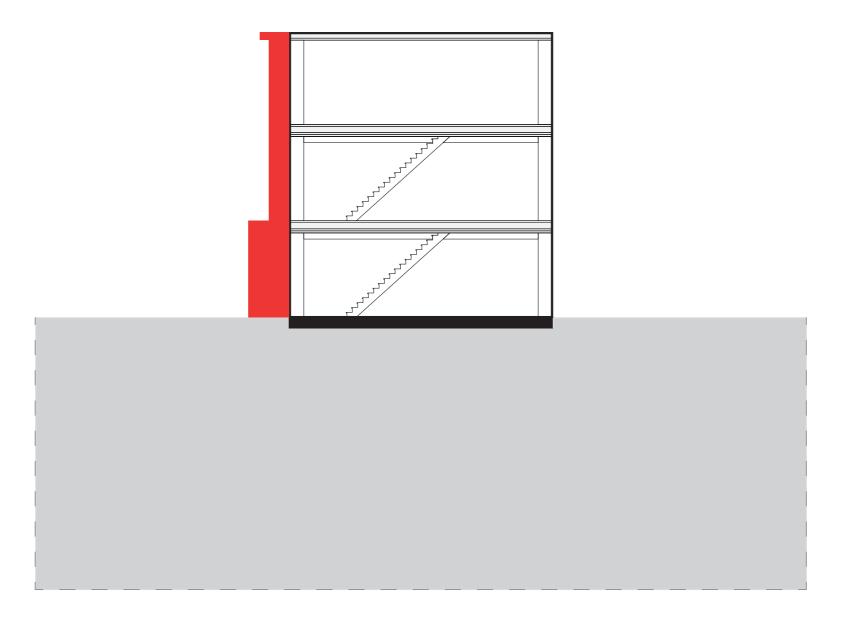








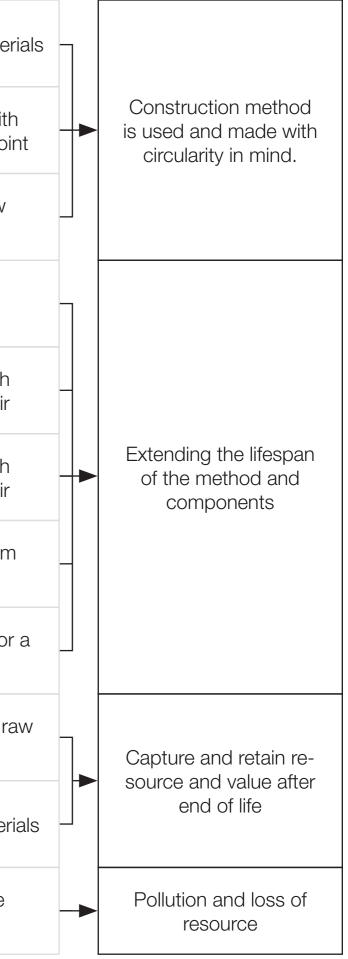




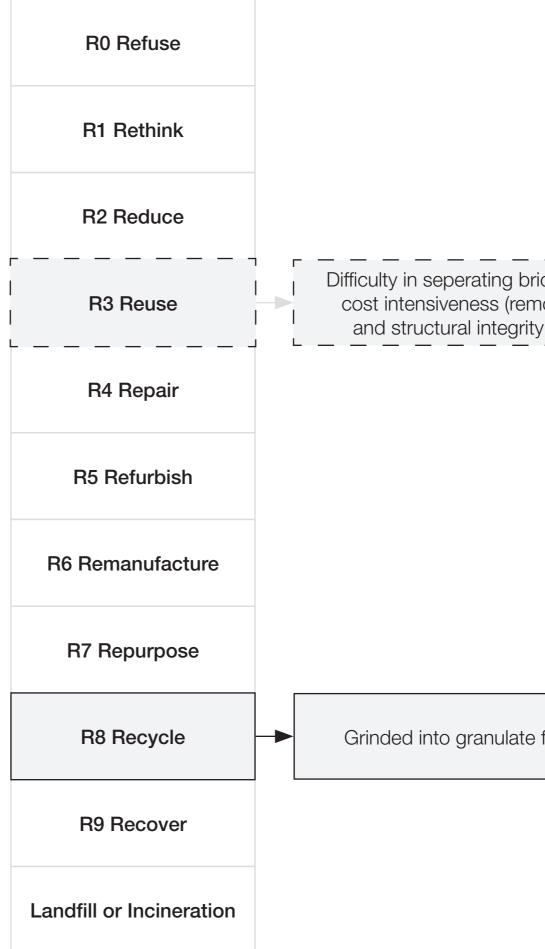


R1 Rethink       (Re)design a product with circularity as a starting point circularity circularity as a starting point circularity as a start circularity as a startend lifespan through maintenance and repaint circulari		-	
R1 Retnink       circularity as a starting point circularity circu	R0 Refuse		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

**DW**a



CIRCLEWOOD





bbr

abt

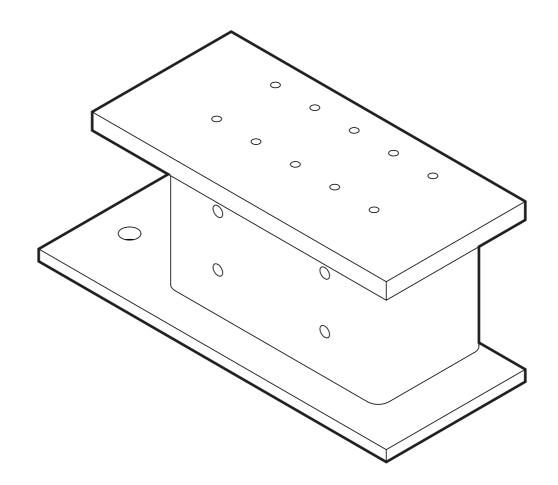
# **TNO** innovation for life

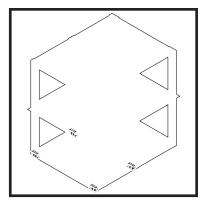


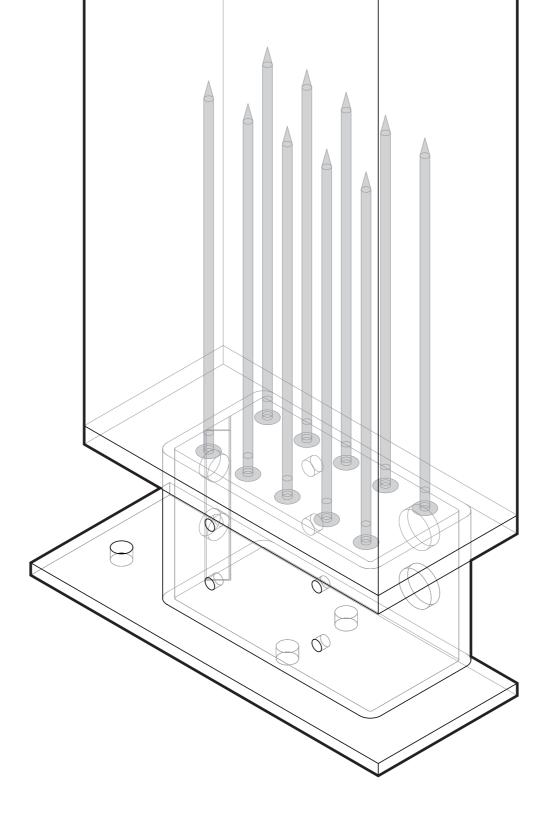


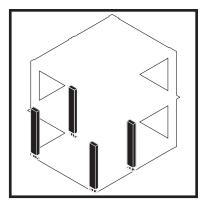


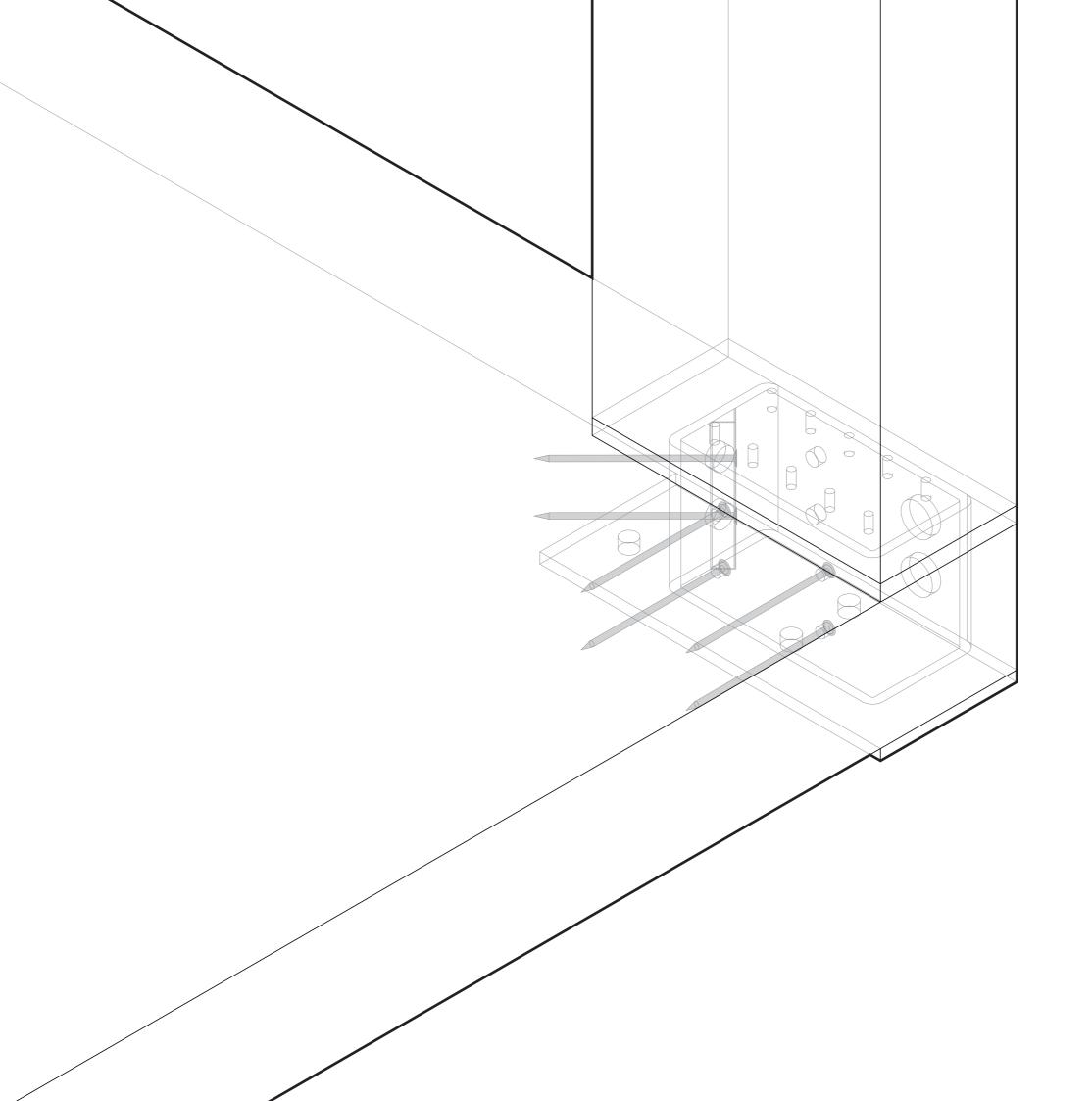
#### DESIGN | CIRCLEWOOD 36

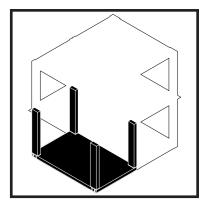


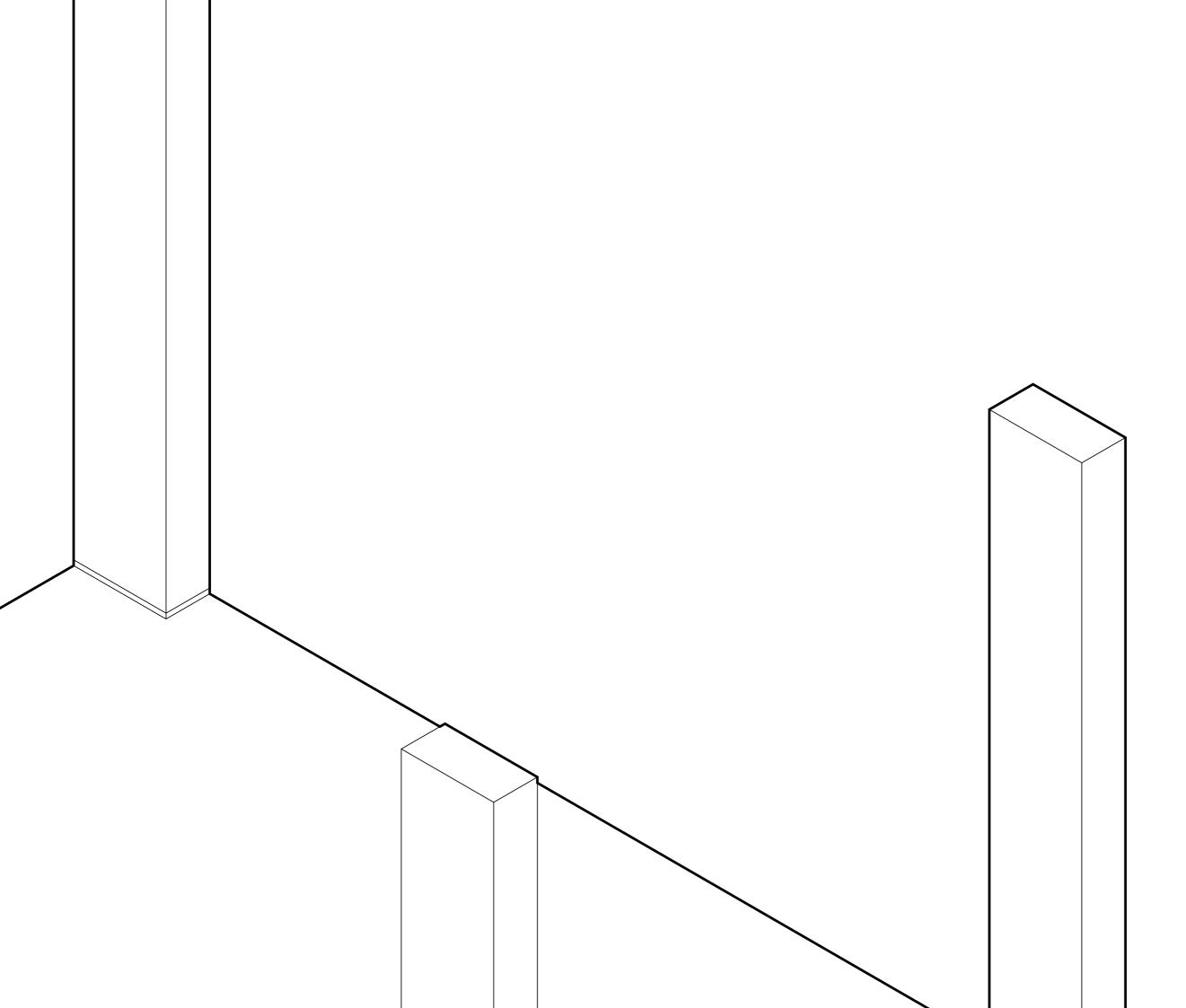


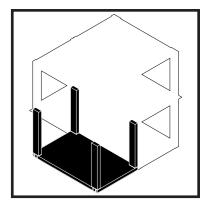


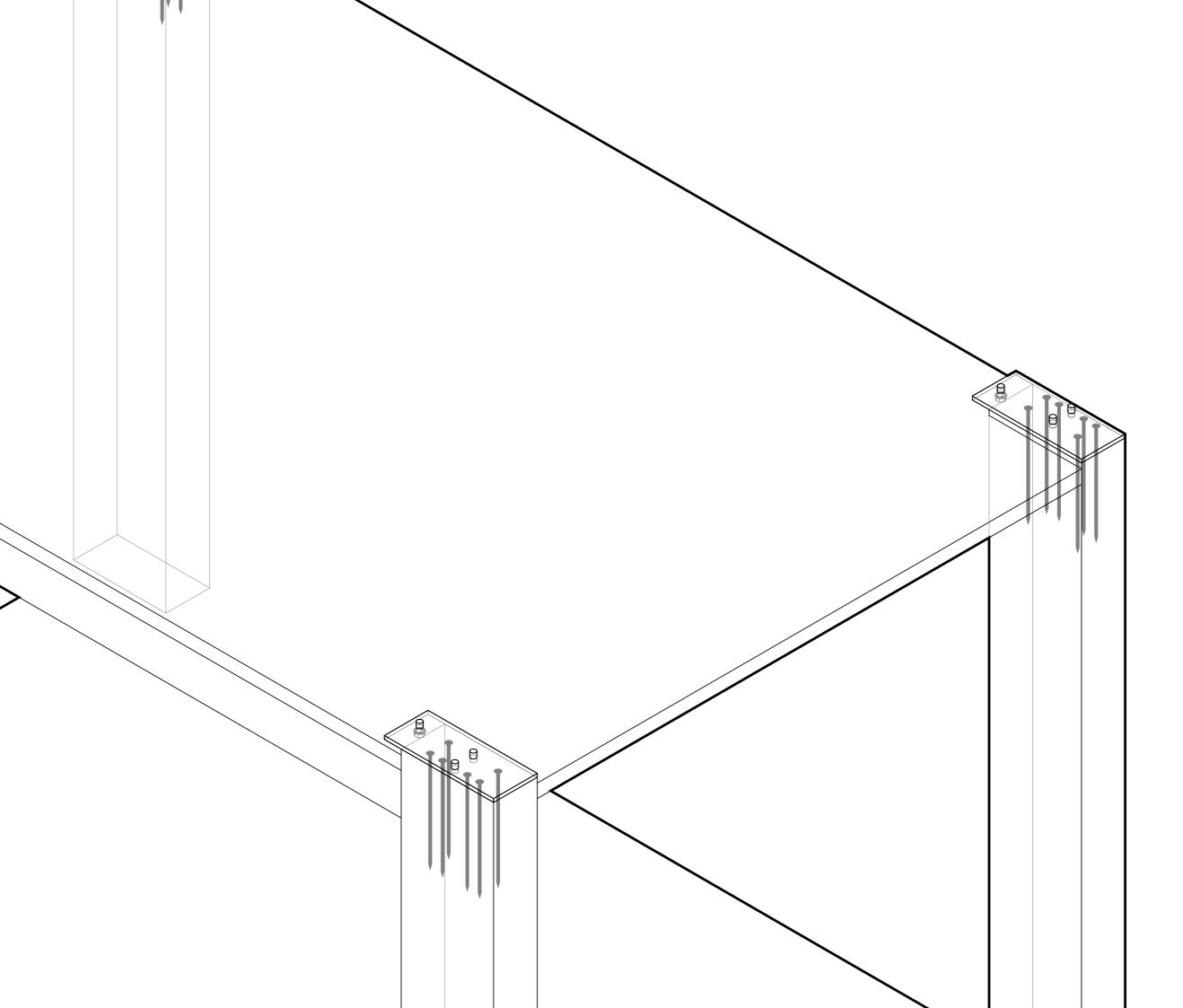


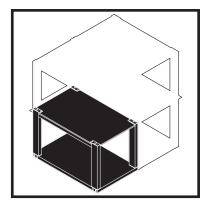


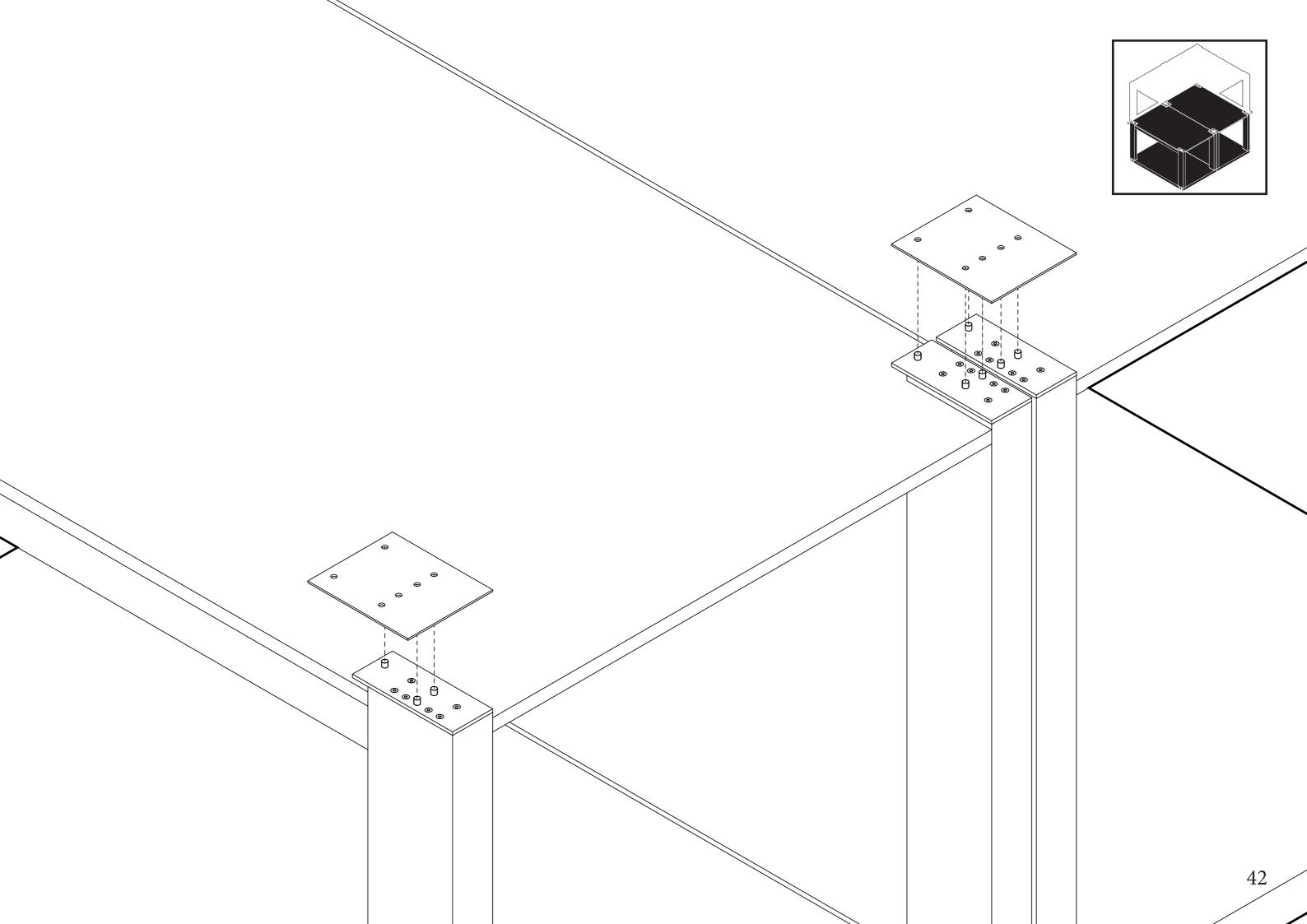


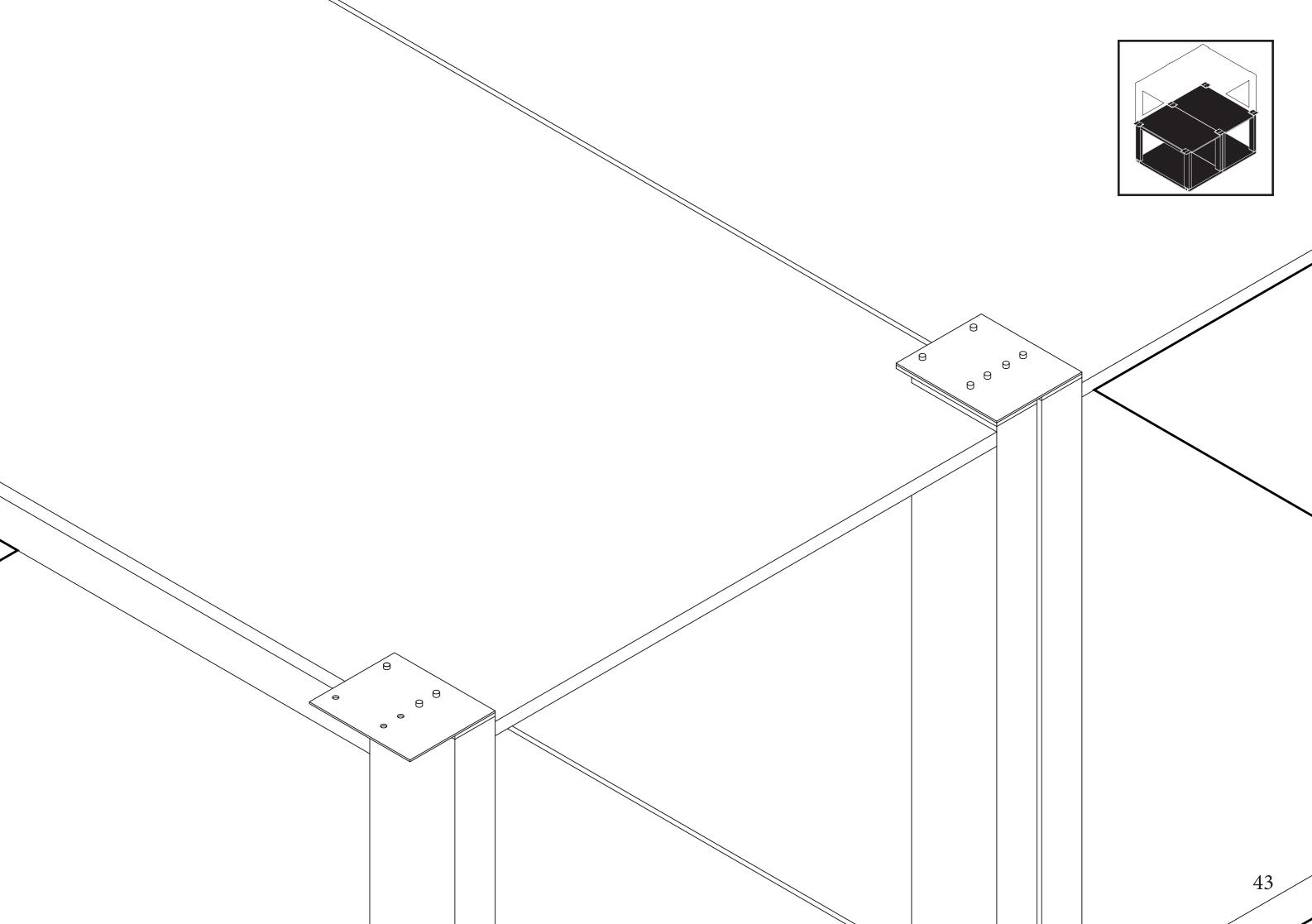


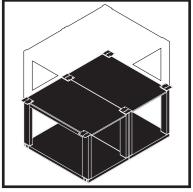


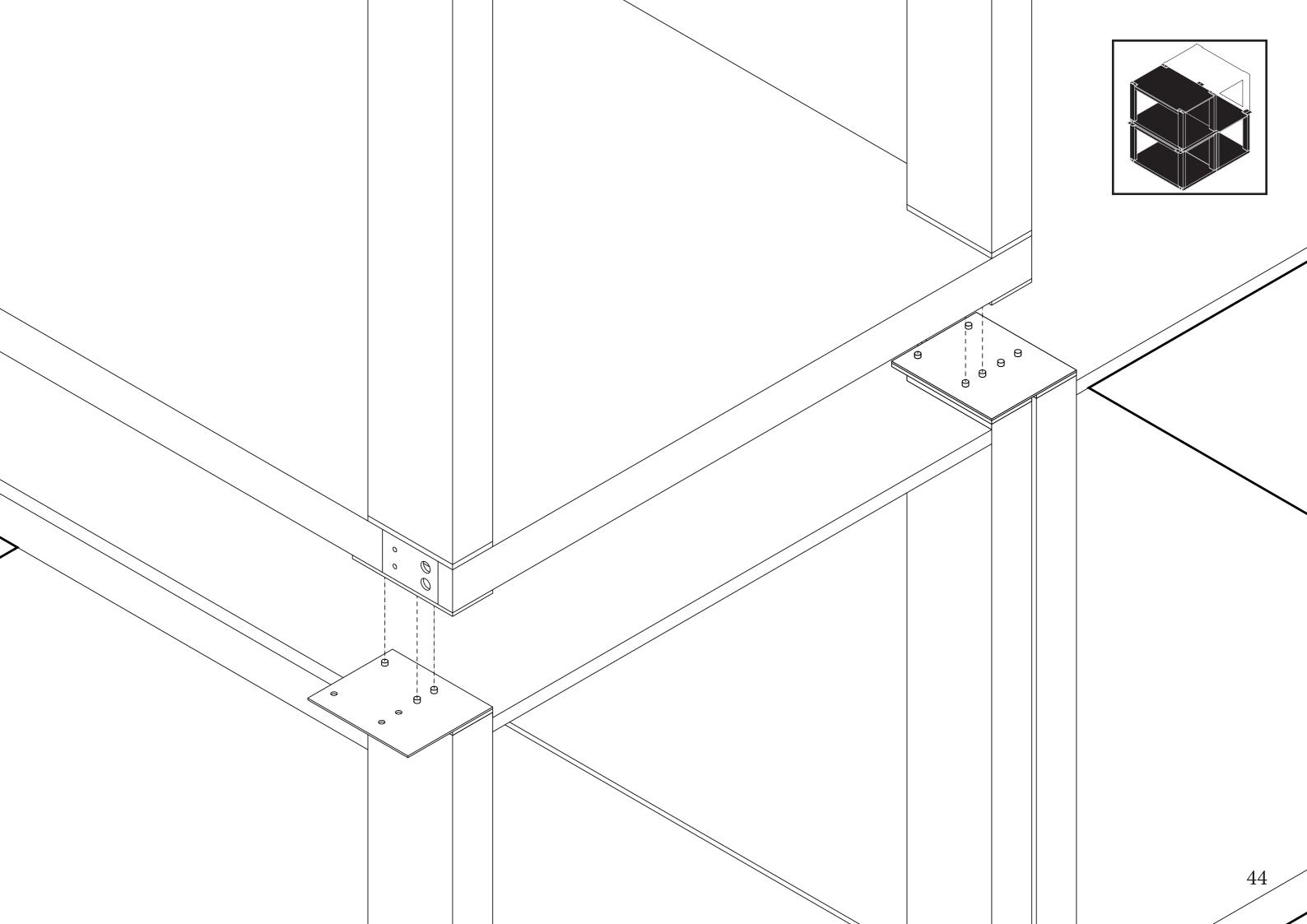


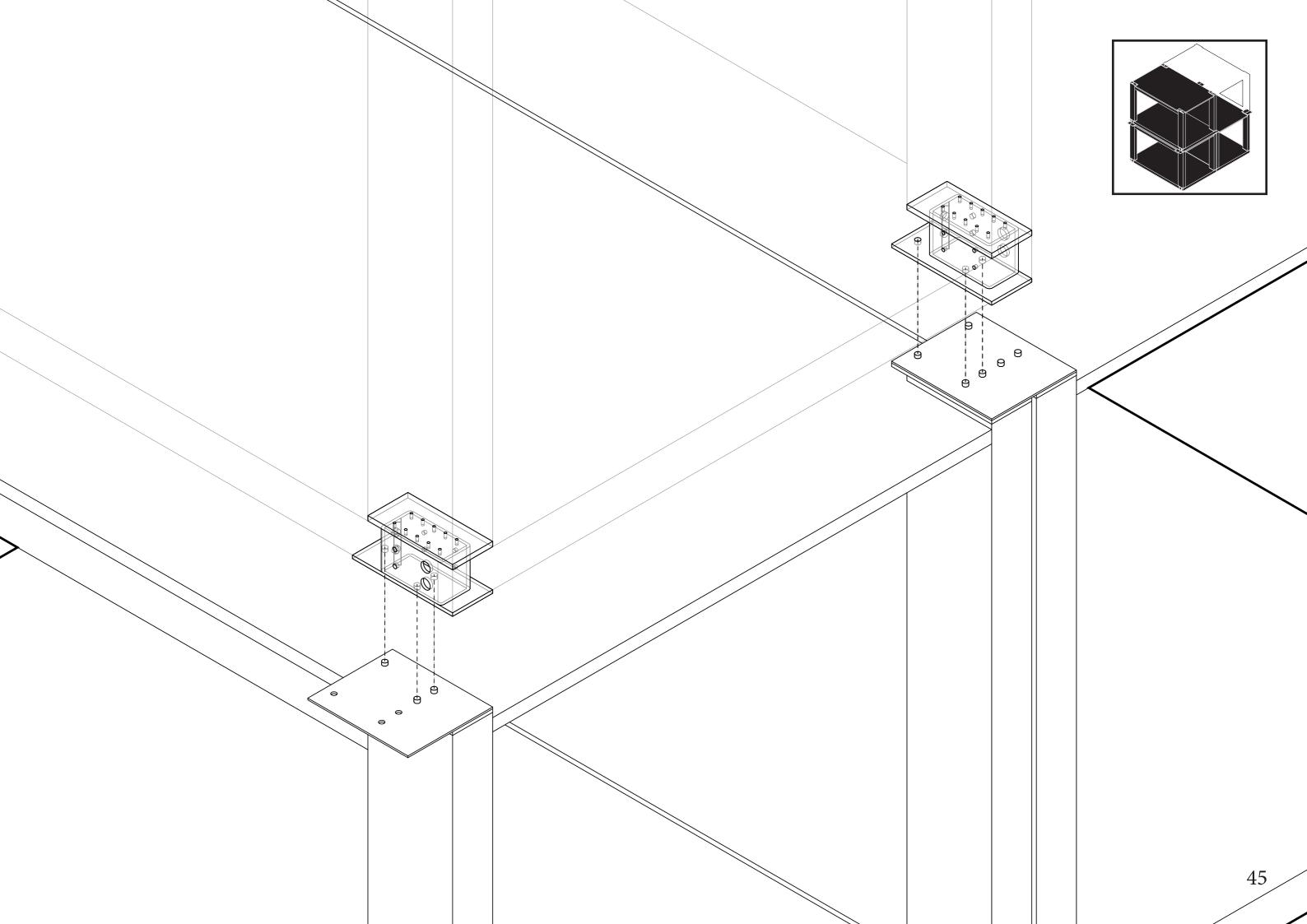


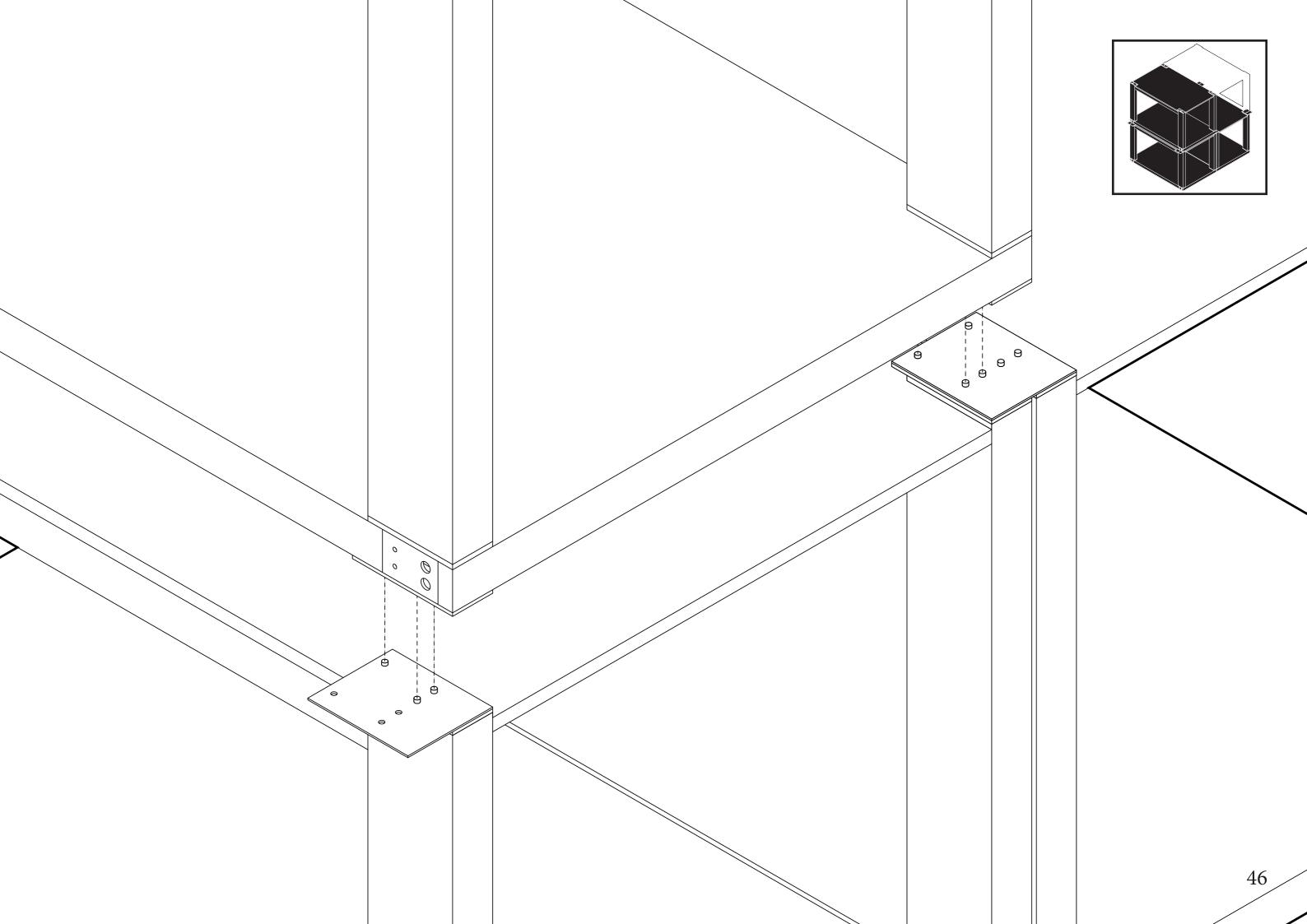


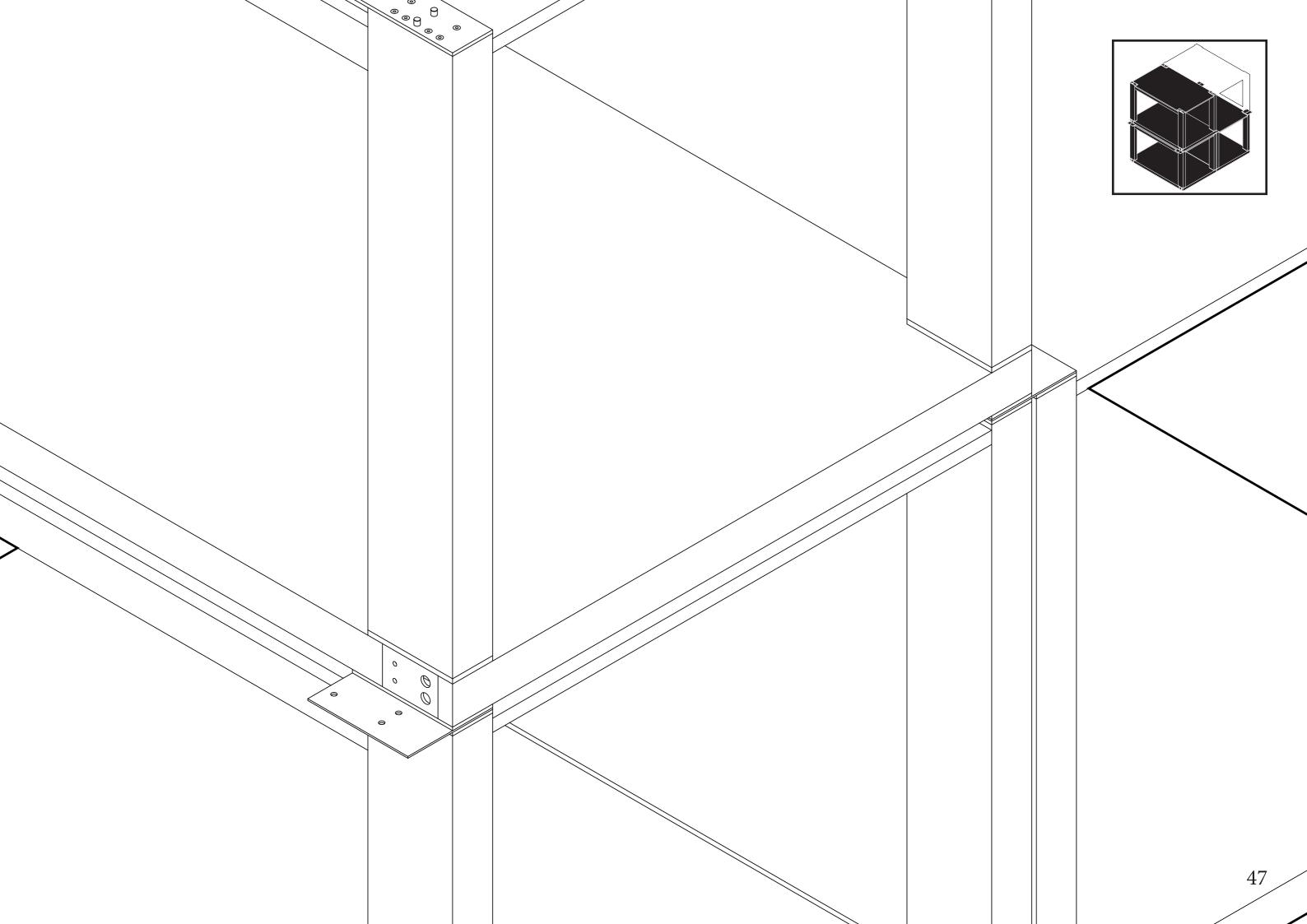


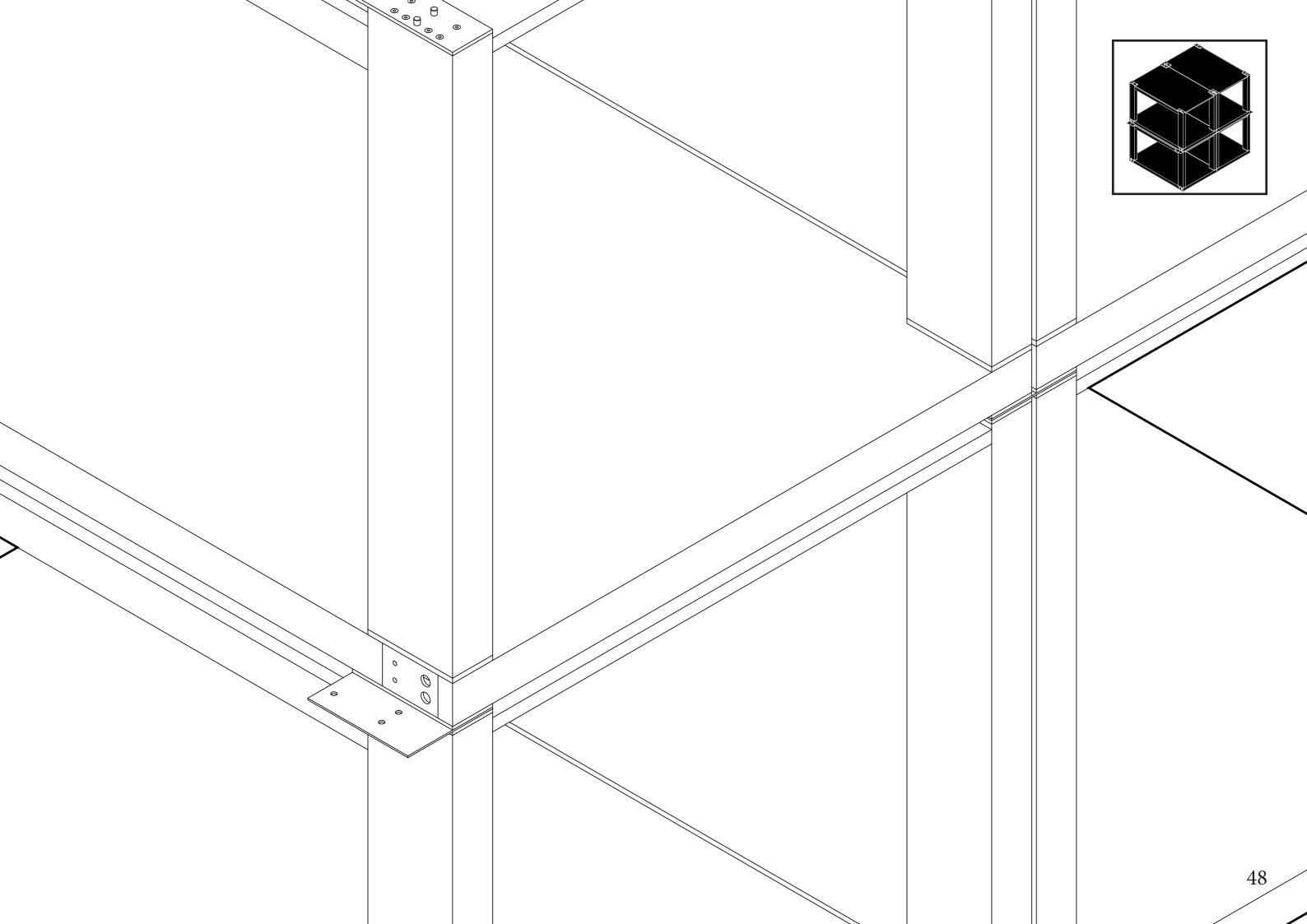


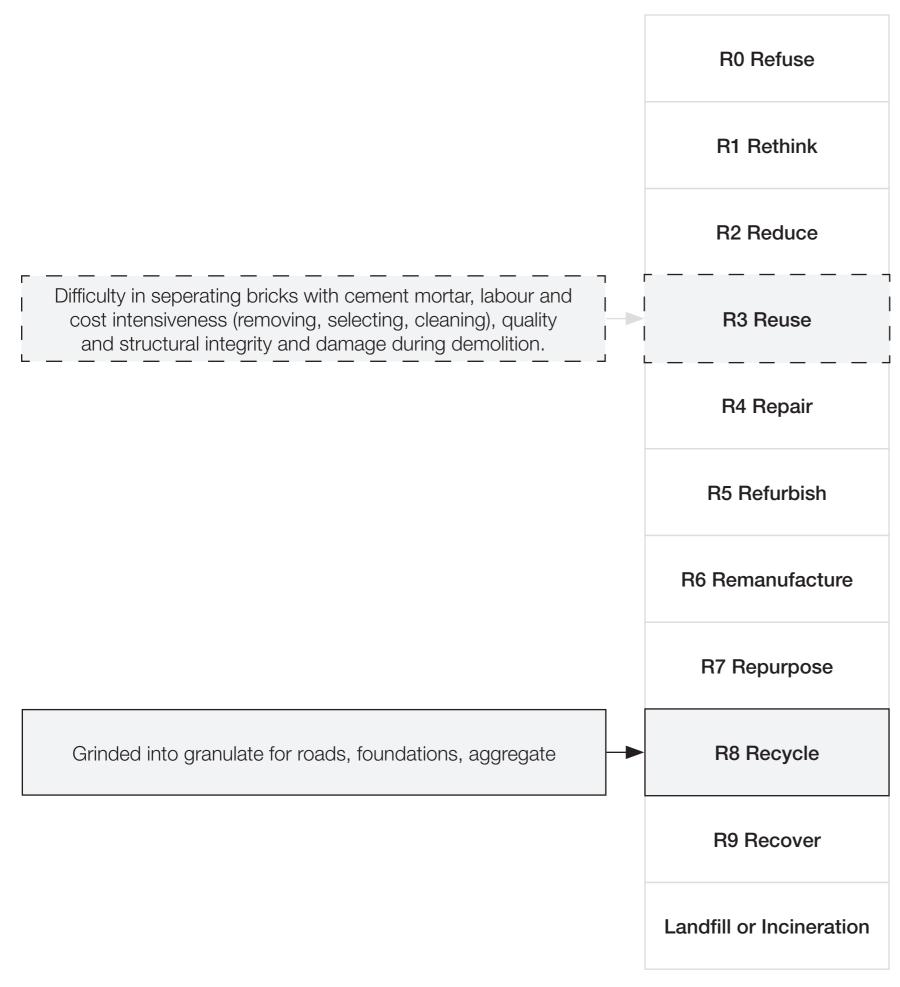




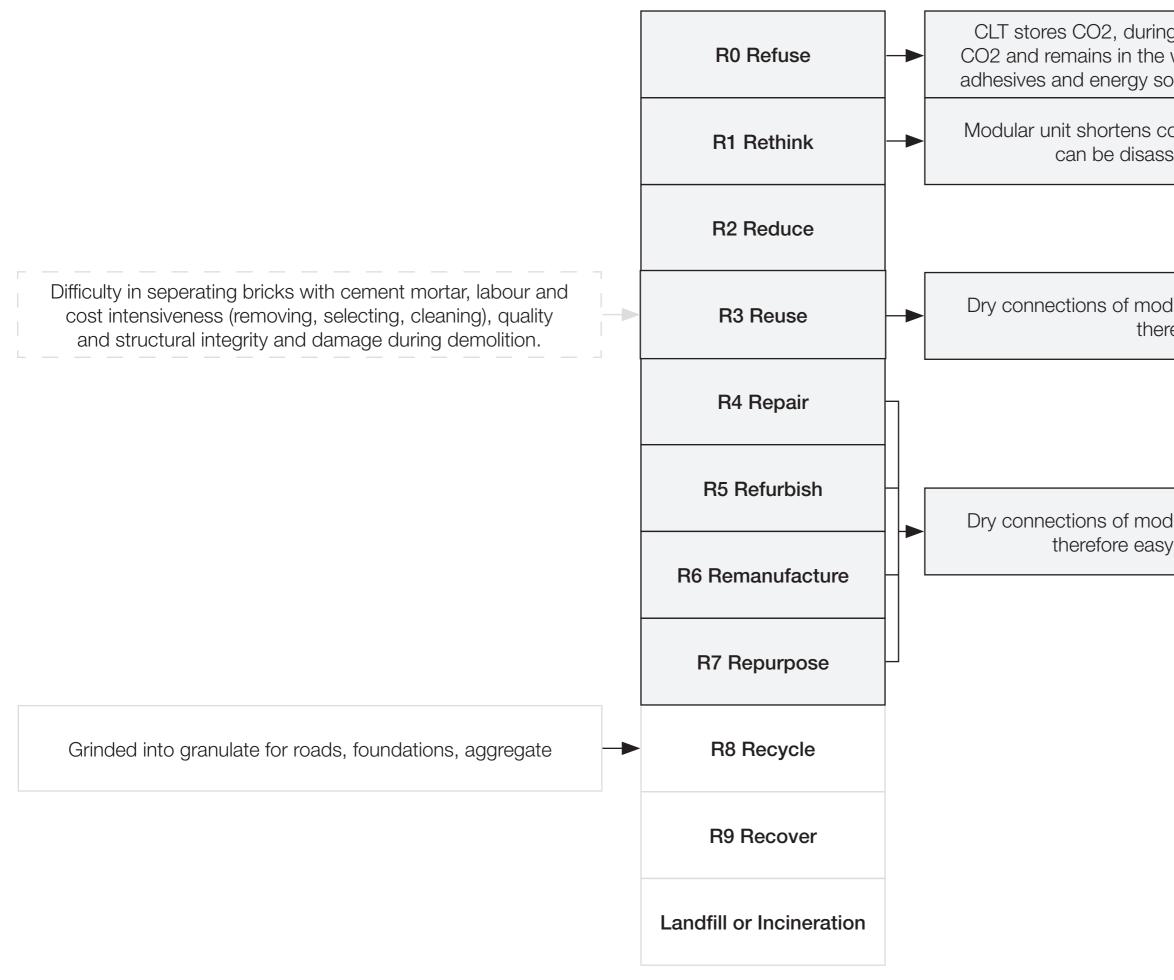








#### DESIGN | CIRCLEWOOD 49



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.

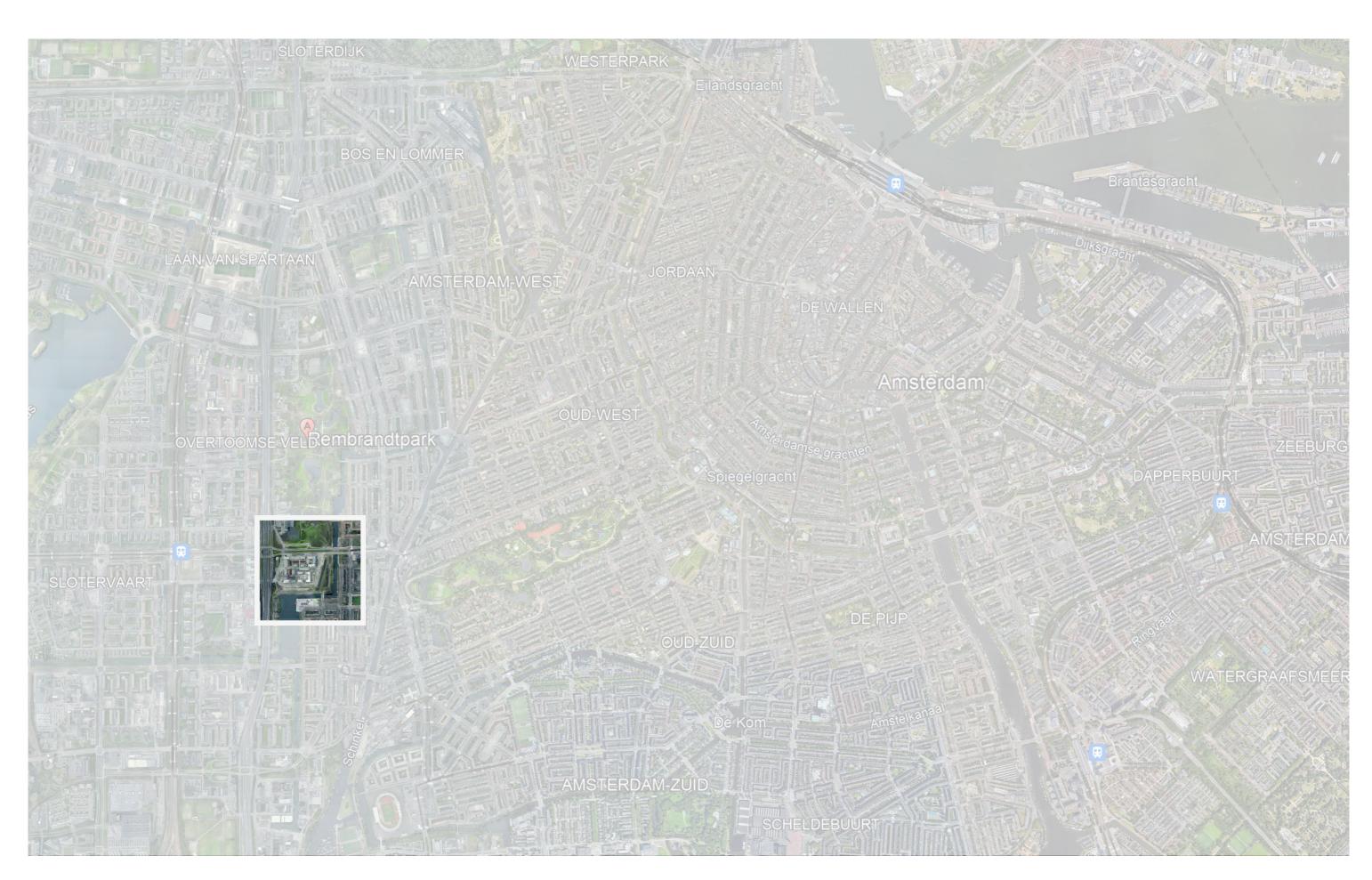
Dry connections of modular unit make it demountable and therefore reusable.

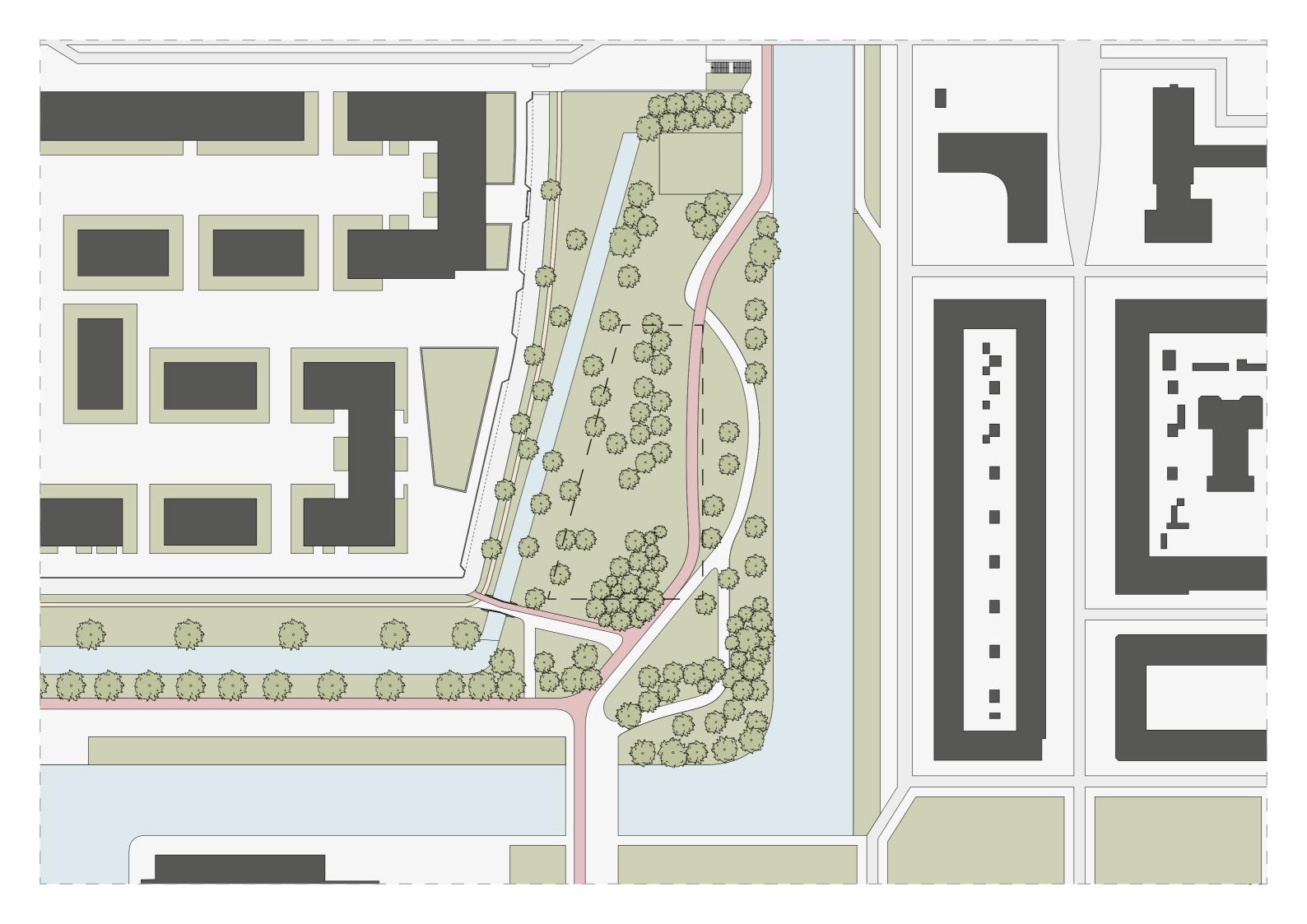
Dry connections of modular unit make it demountable and therefore easy to handle and maintain.

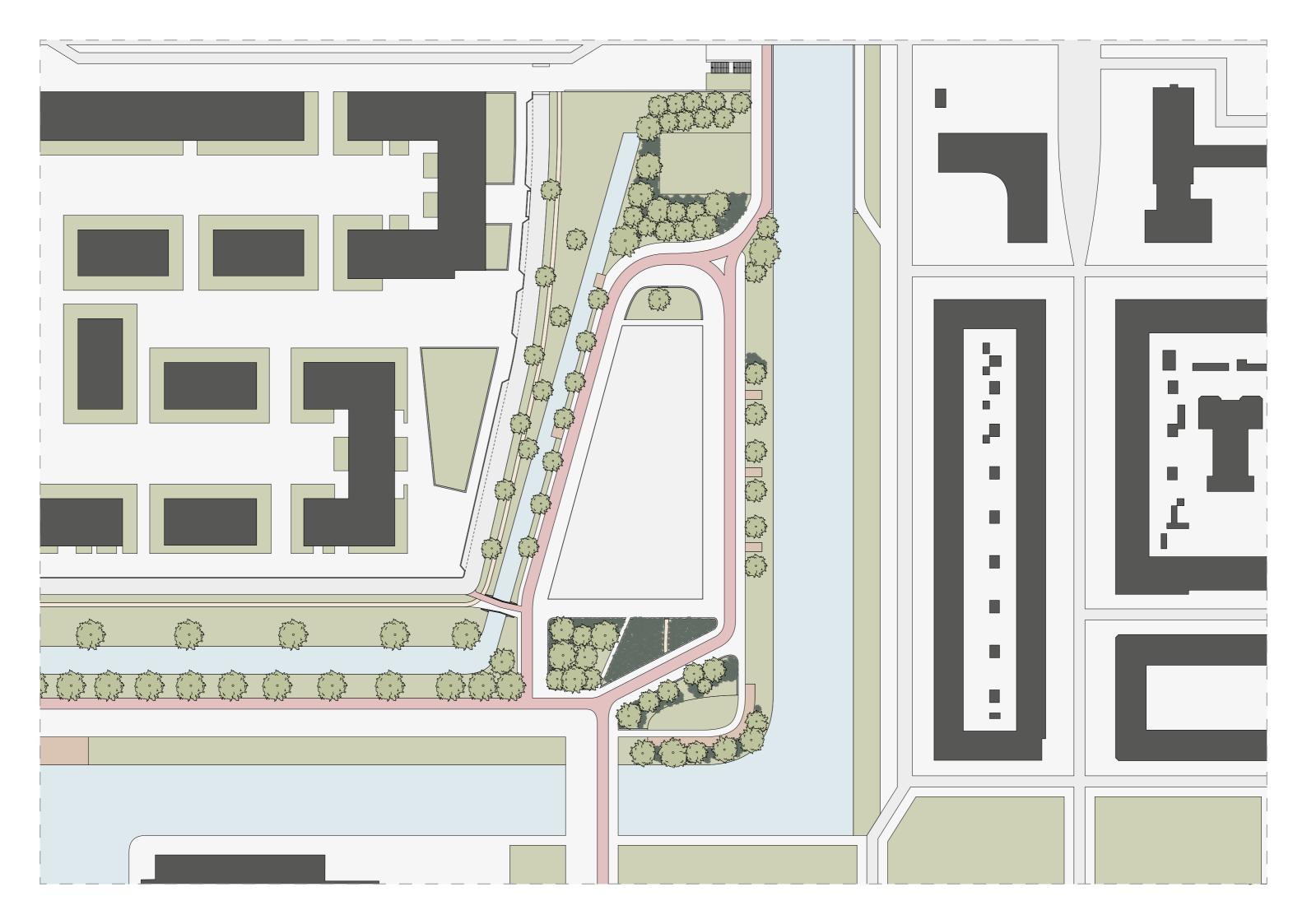
Circular strategy of Circle Wood: Modular unit with CLT components and Steel Joint

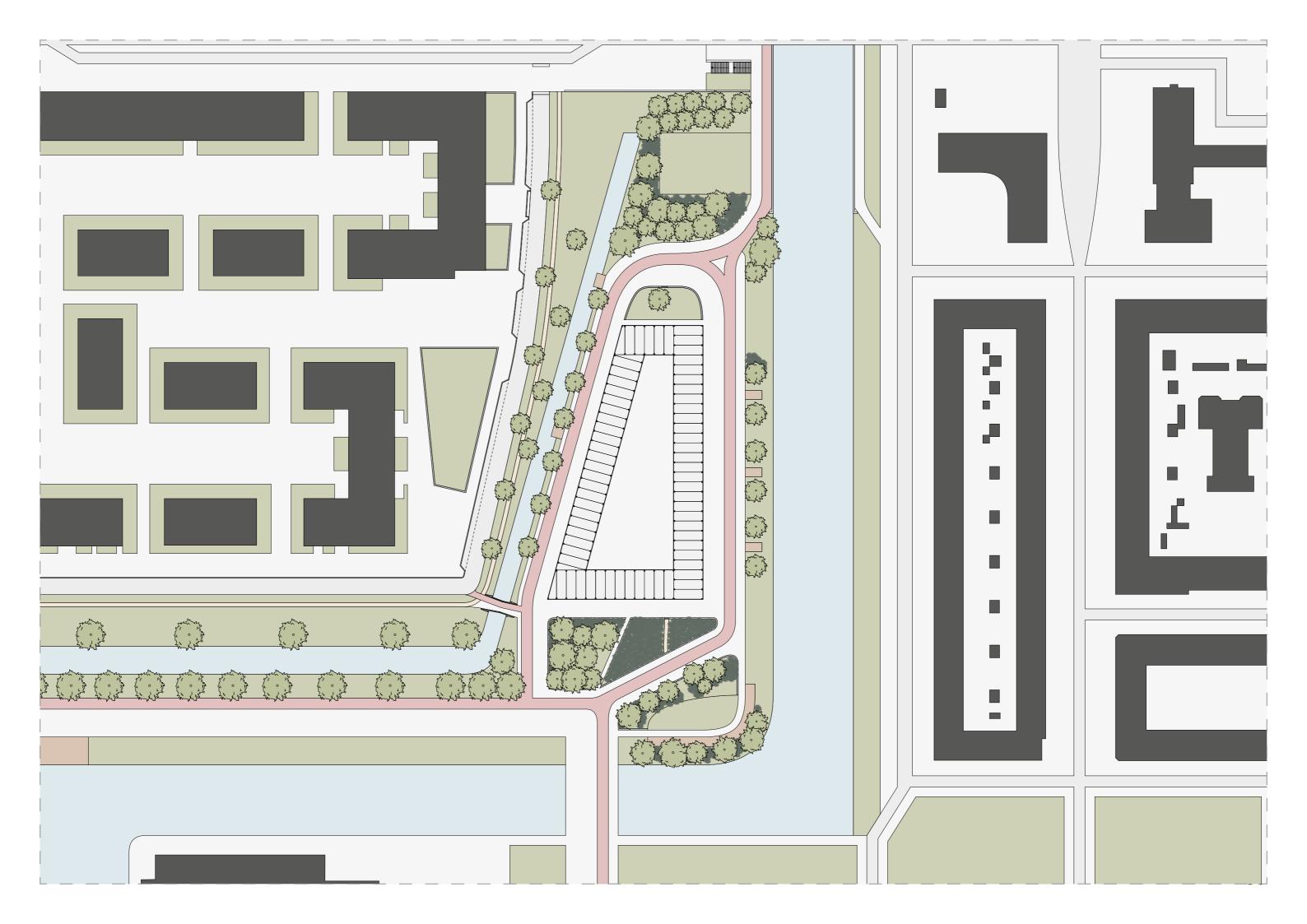


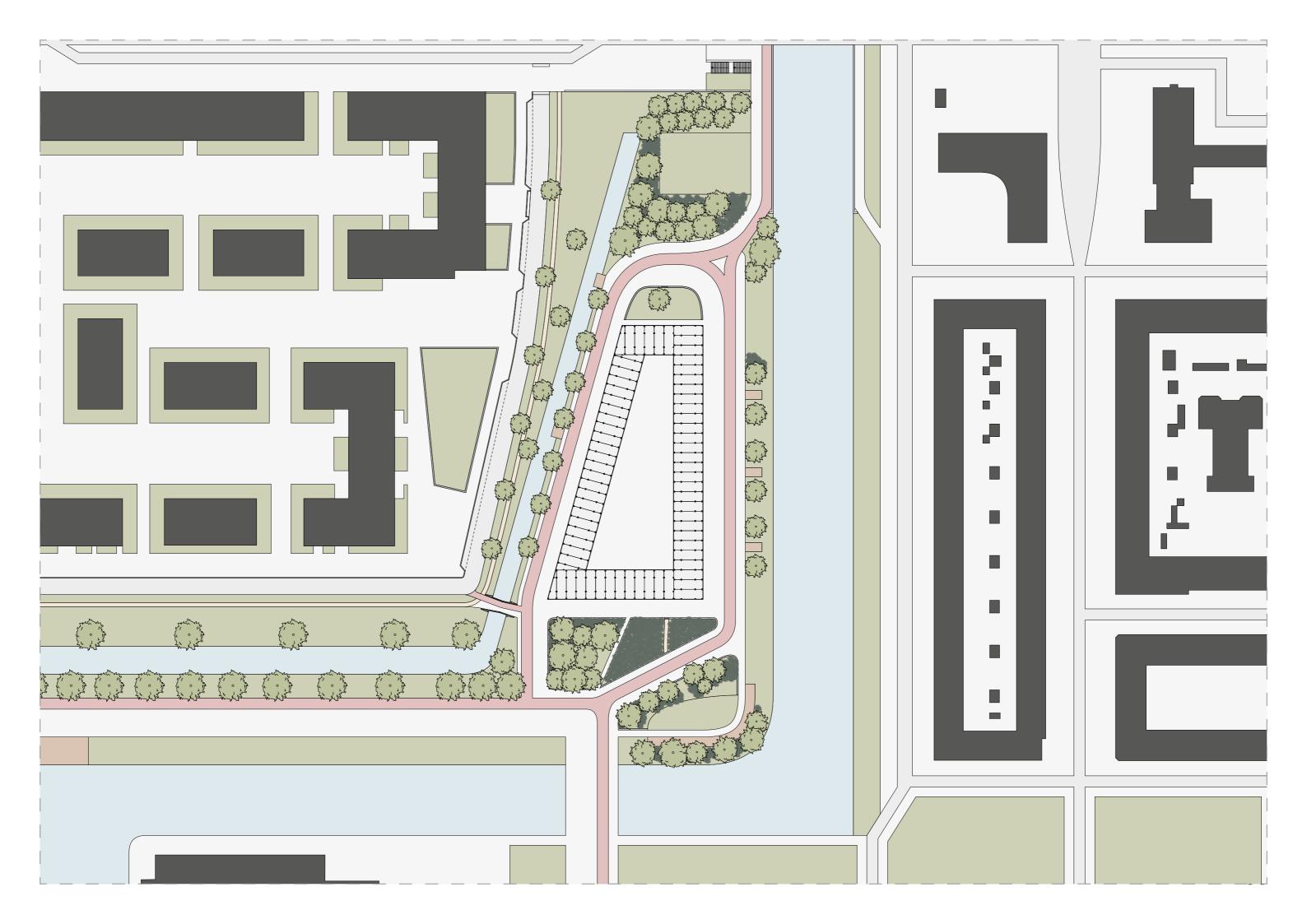


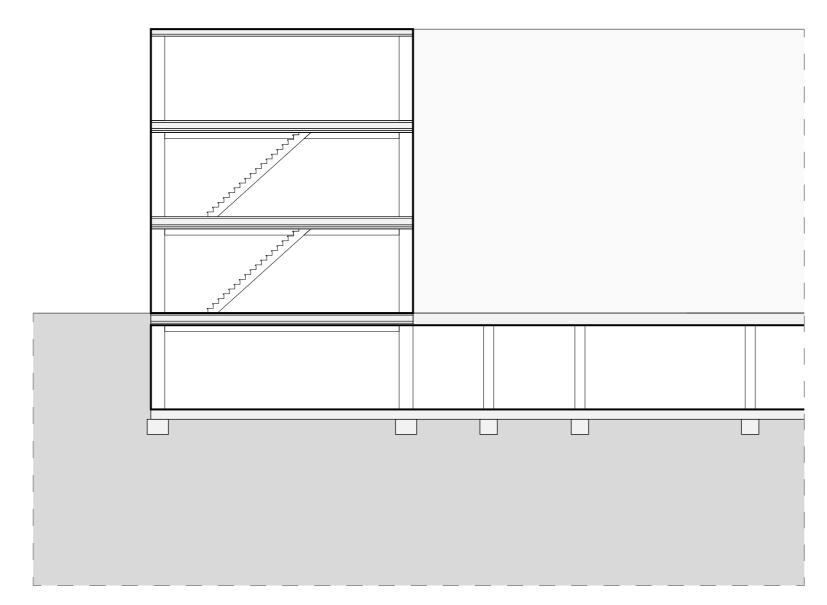




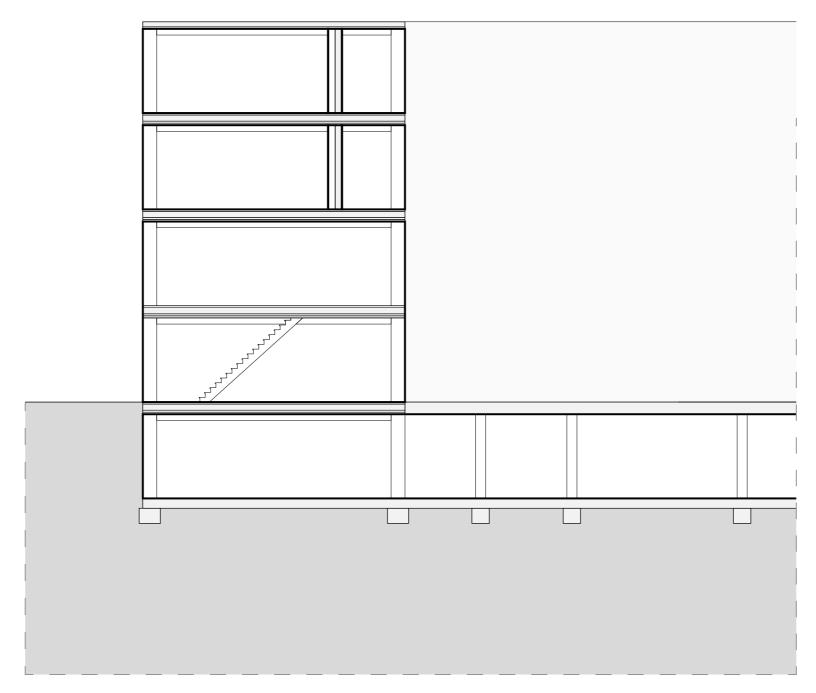




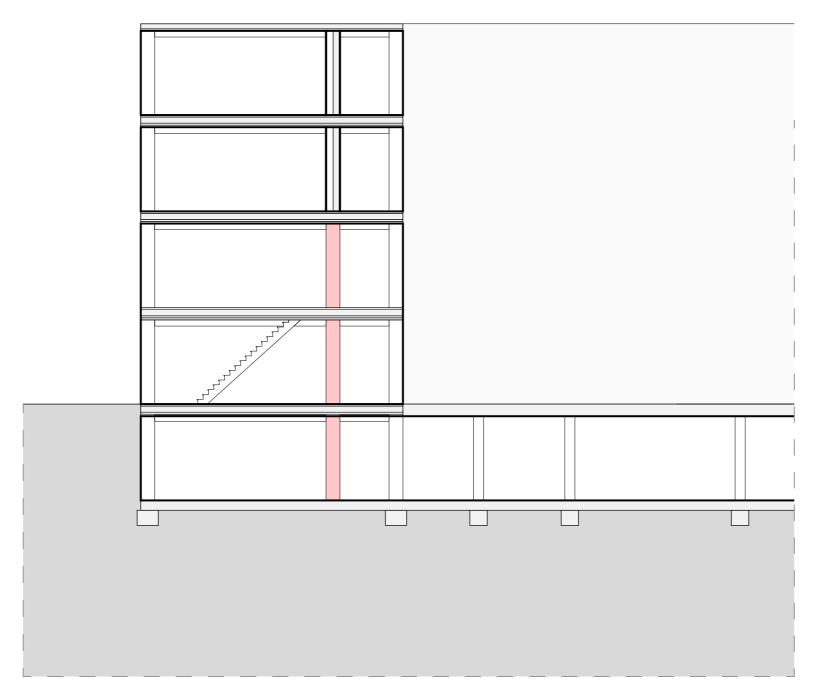




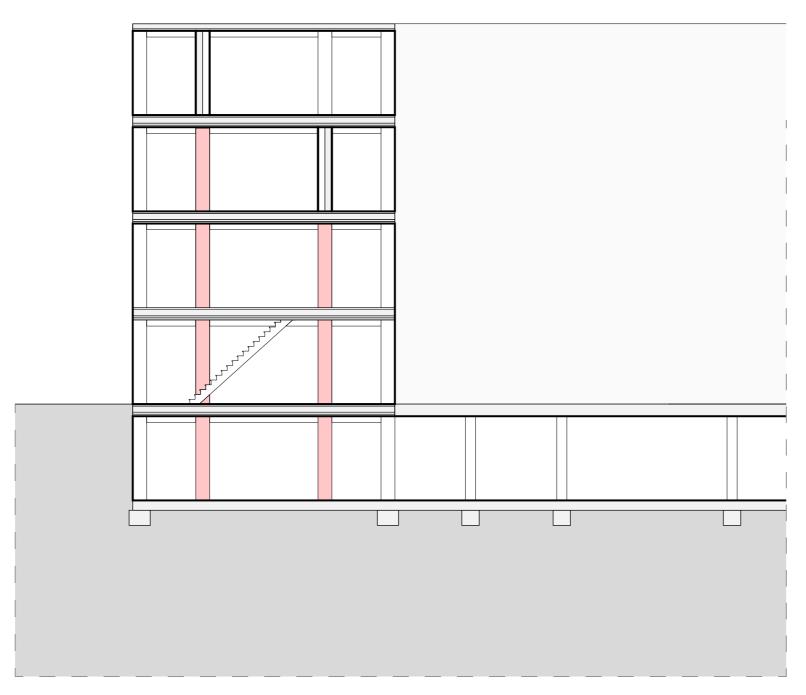
Column Placement rowhouse



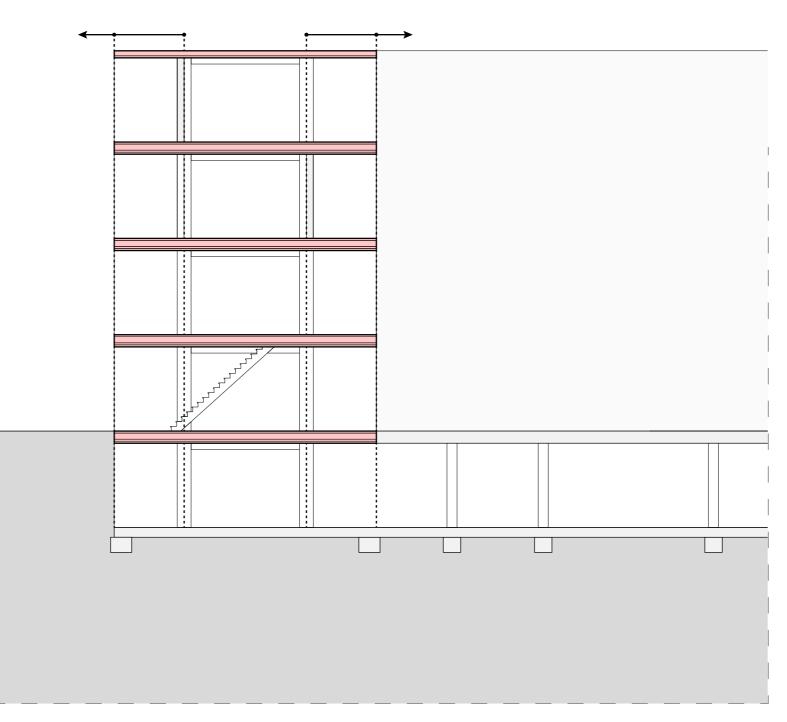
Extra Columns with apartments



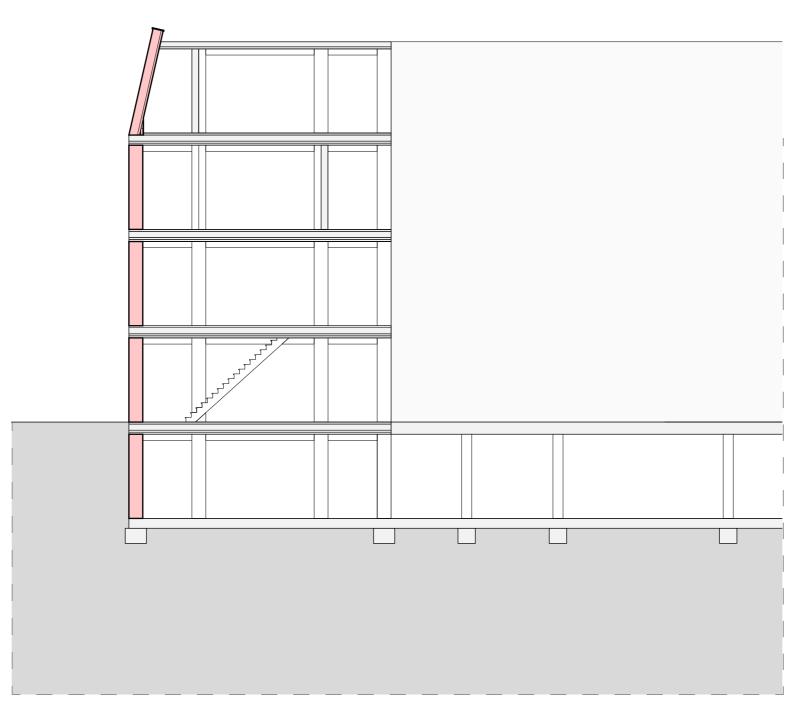
Extra Columns building with apartments stacked on maisonettes



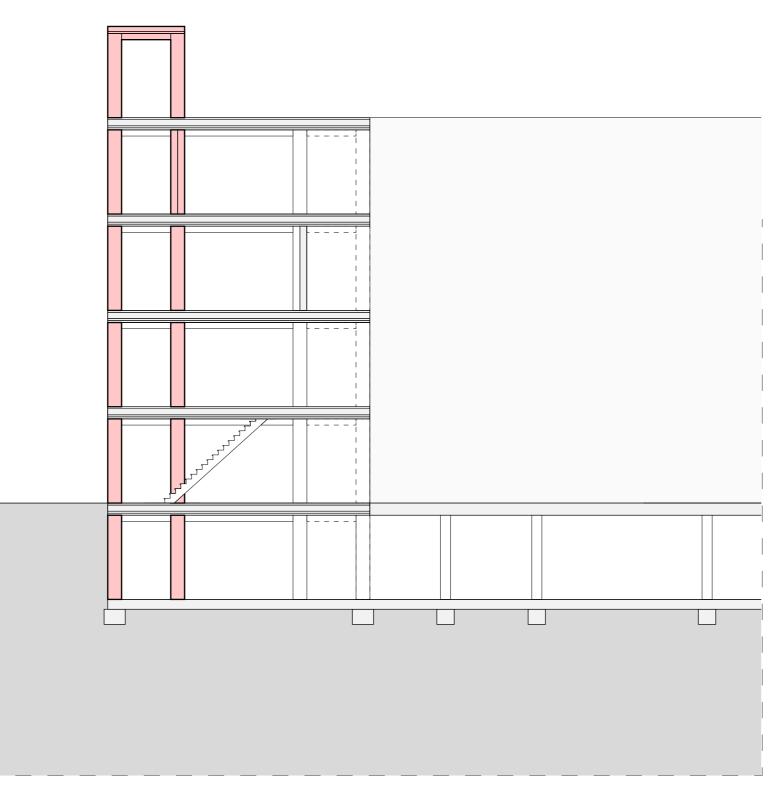
Extra Columns for design freedom



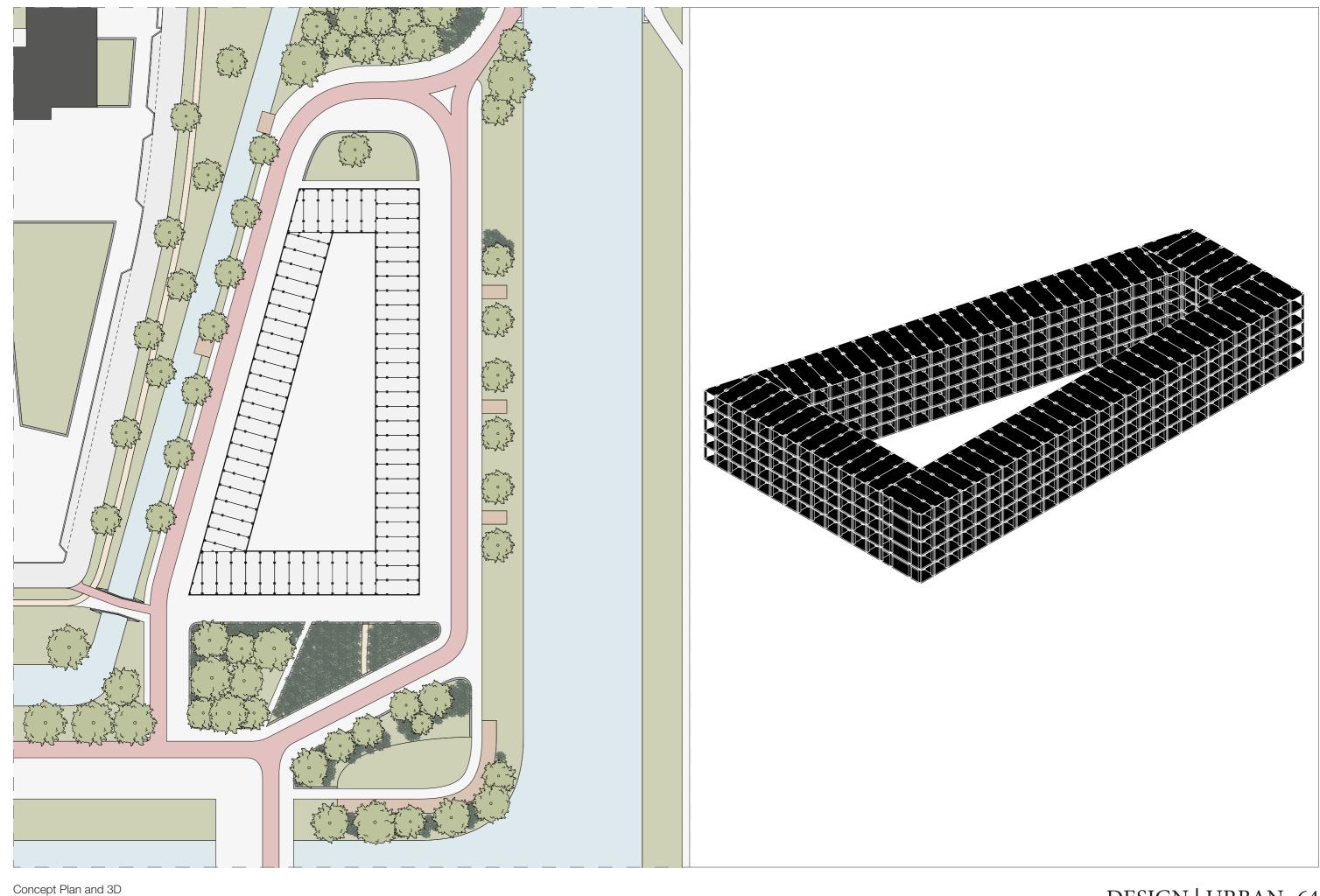
The middle section could be enlarged

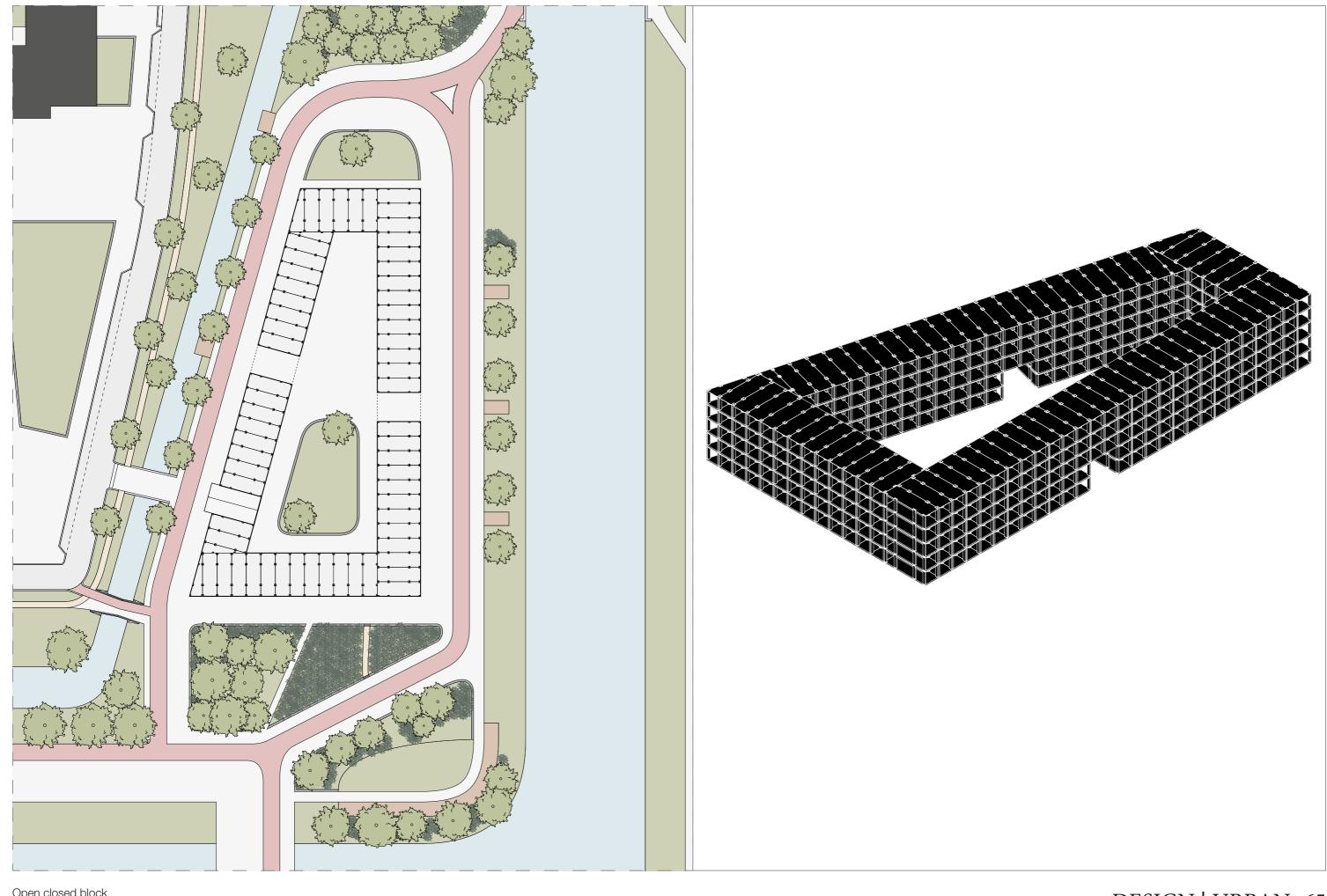


Addition of heavier loads to support the use of the design principles

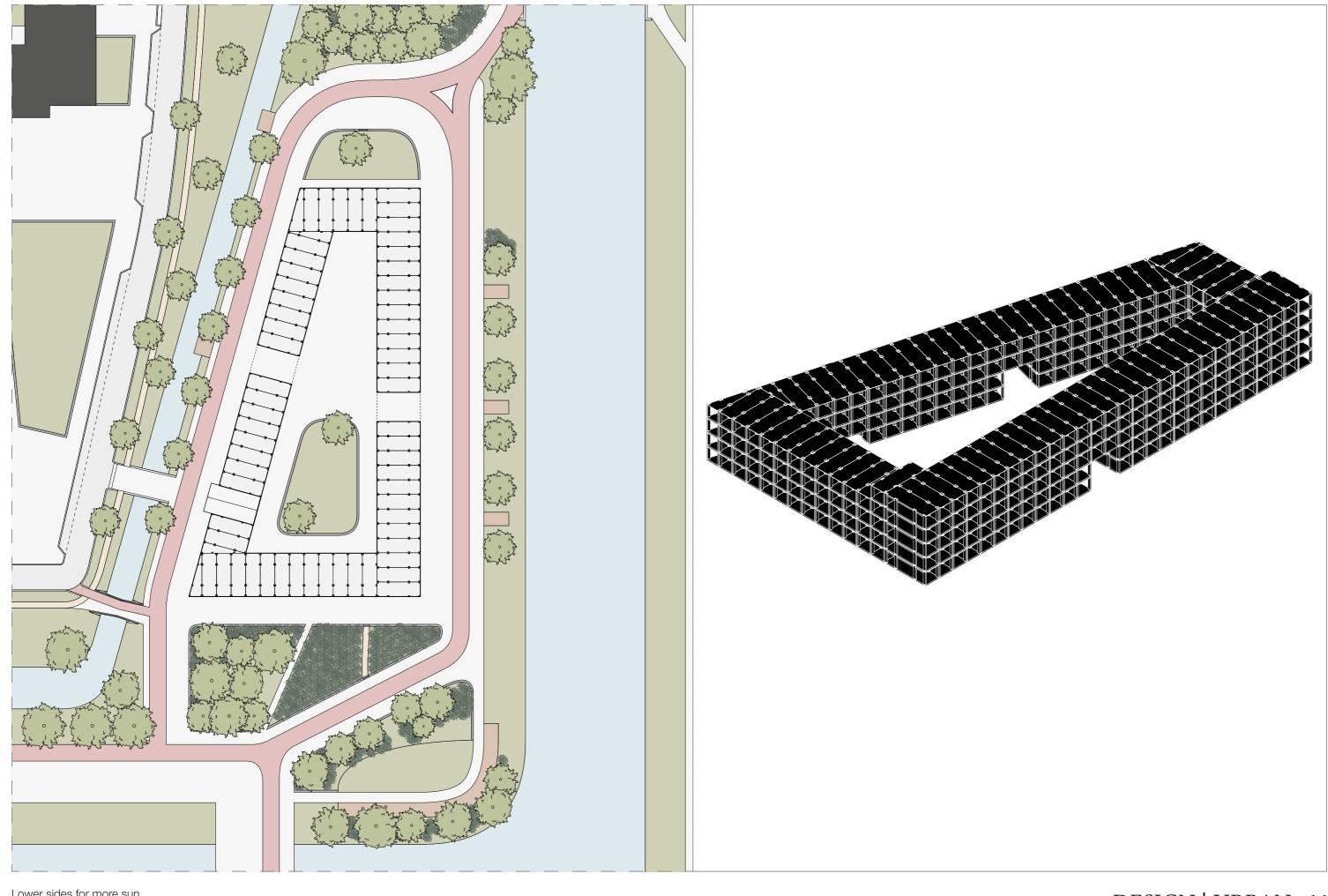


Addition of heavier loads to support the use of the design principles





Open closed block

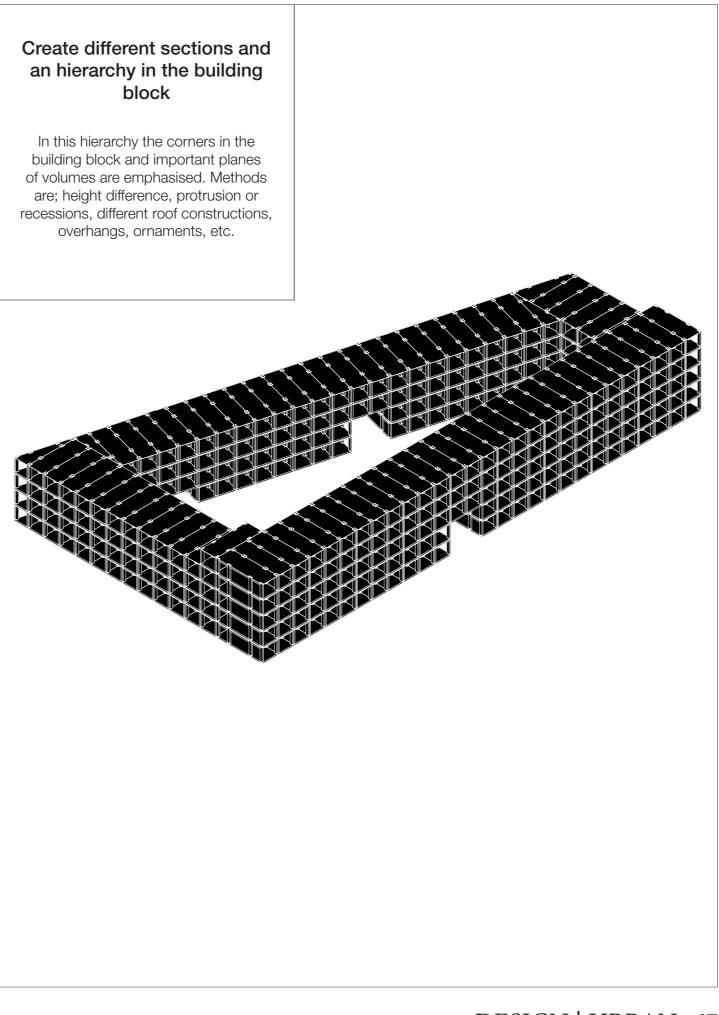


Lower sides for more sun



# block

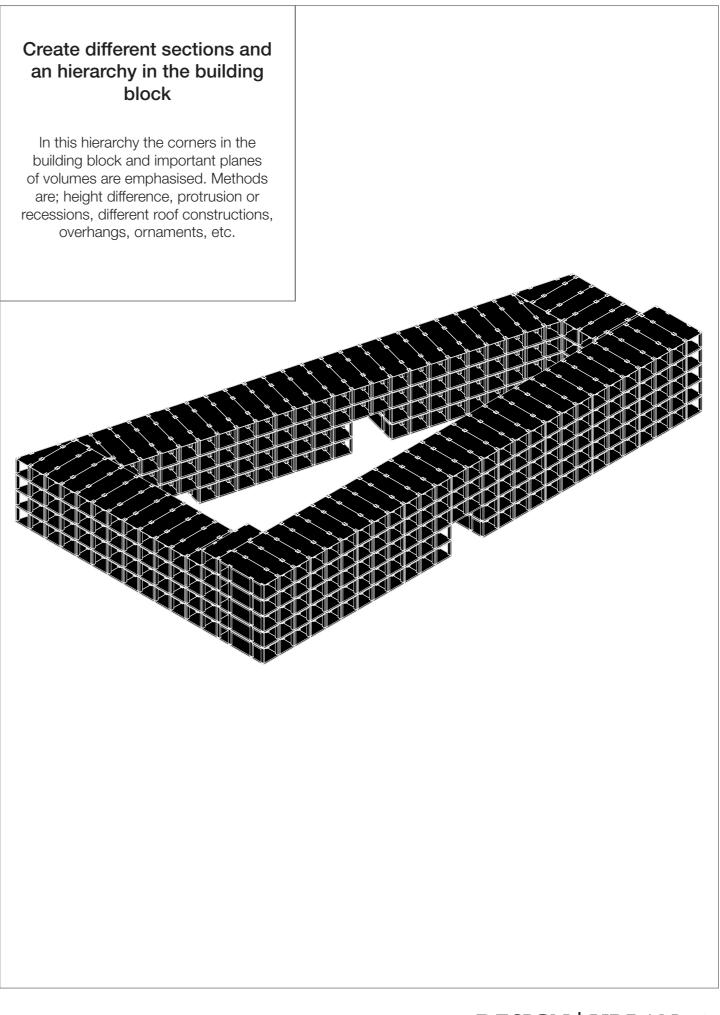
of volumes are emphasised. Methods are; height difference, protrusion or overhangs, ornaments, etc.

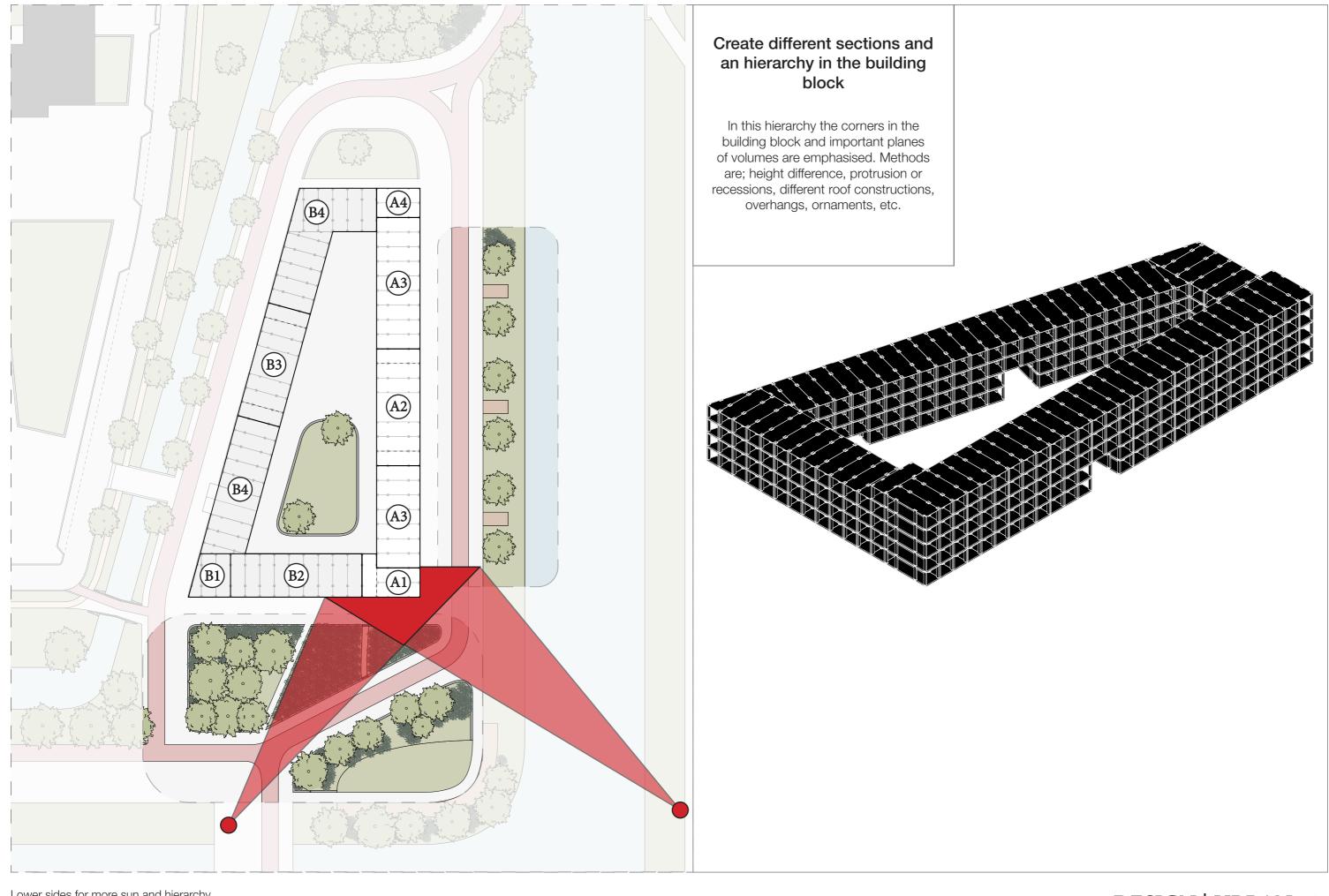




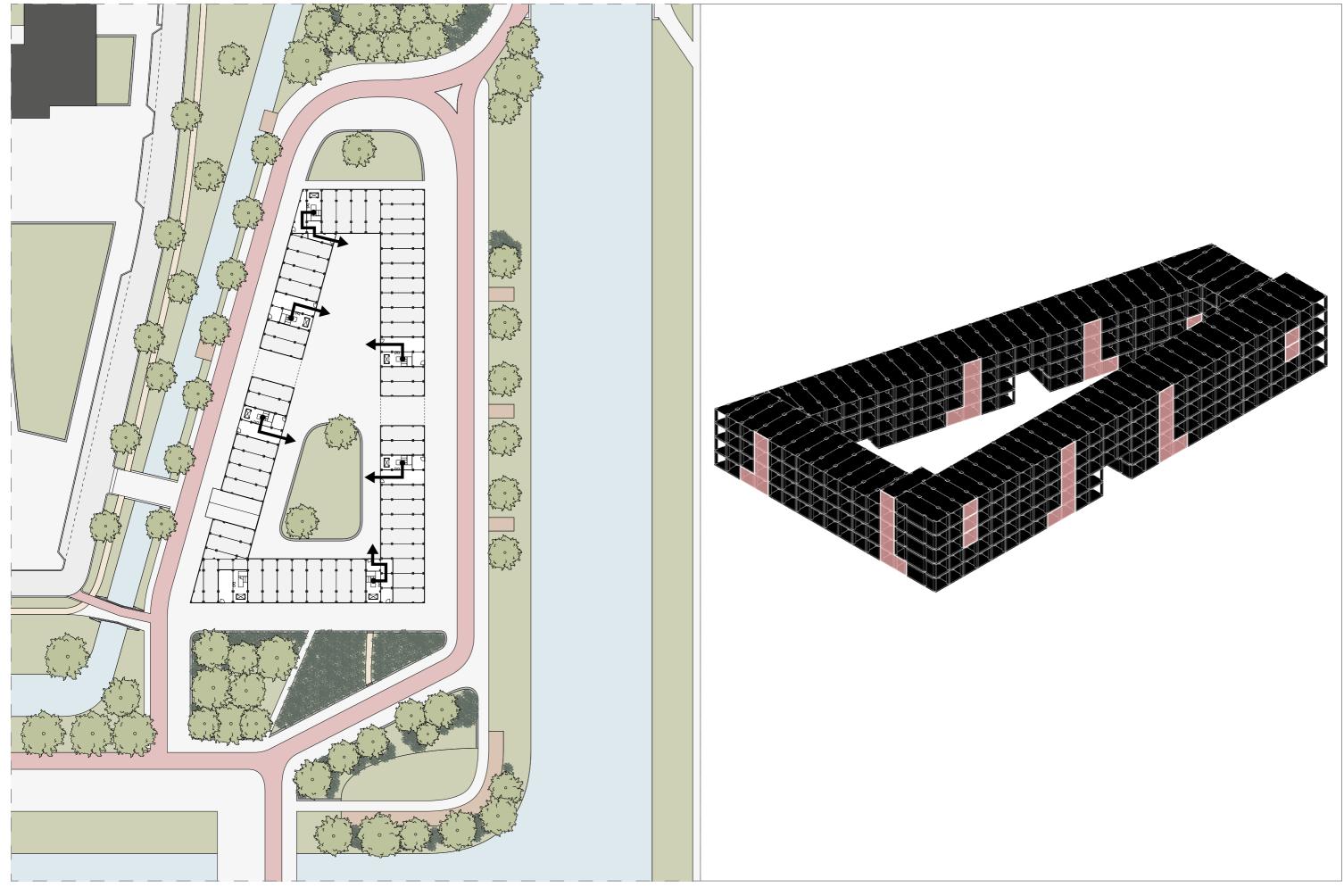
# block

are; height difference, protrusion or



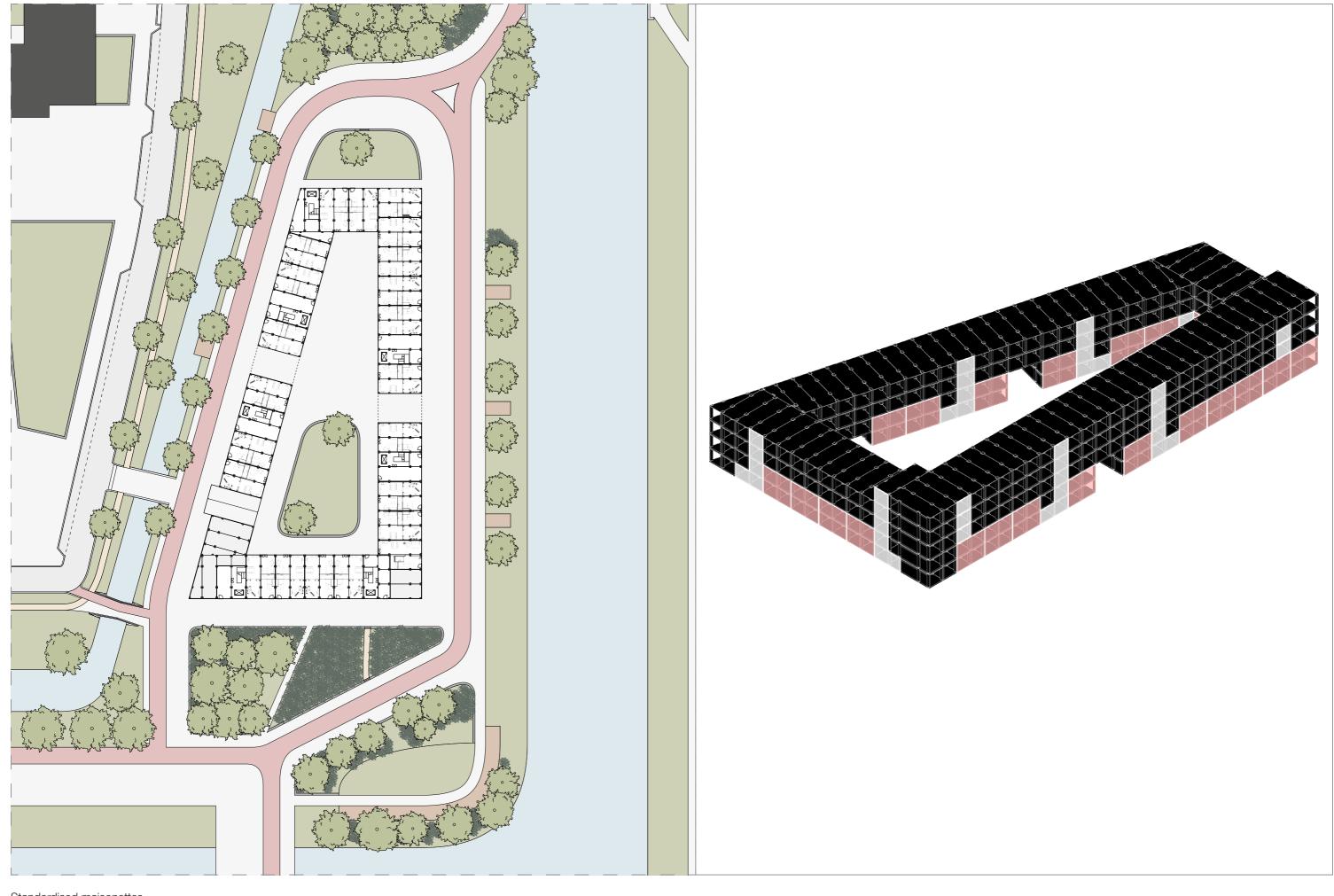


Lower sides for more sun and hierarchy



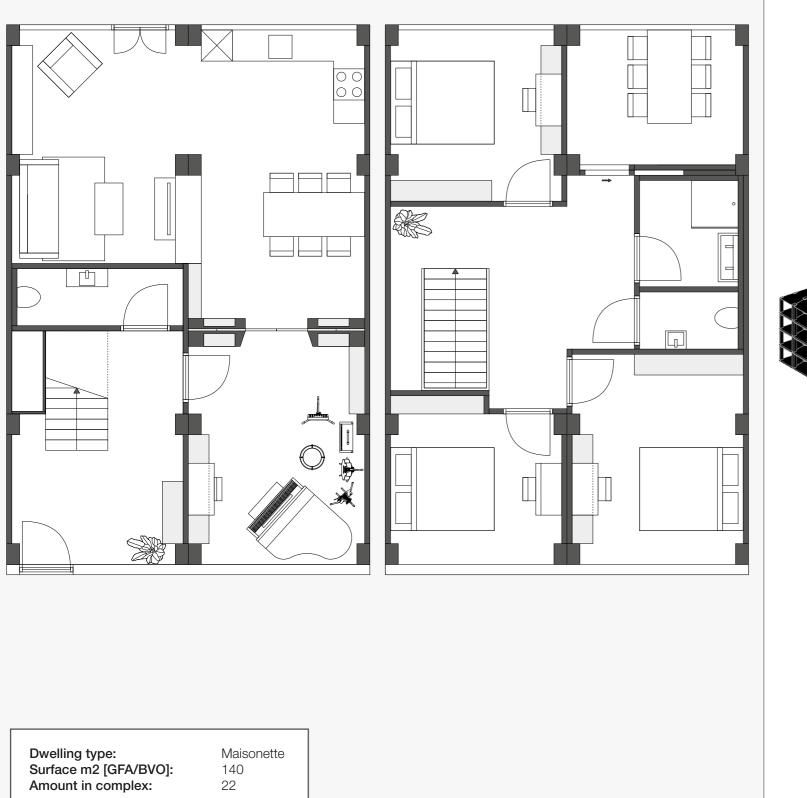
Accessability courtyard

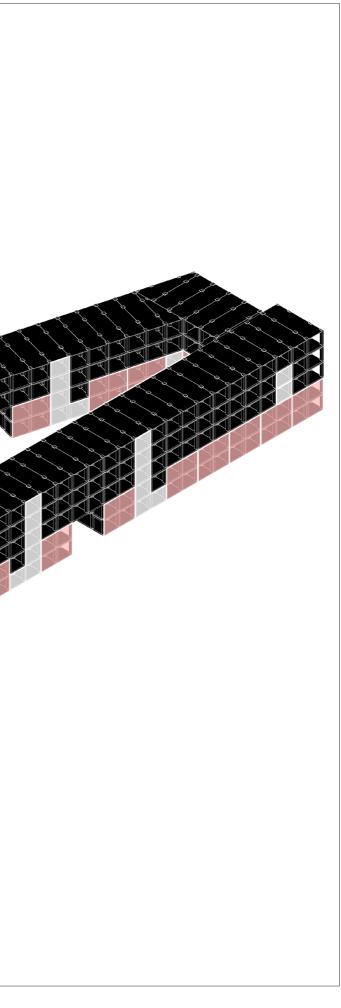
#### DESIGN | PLANS 70



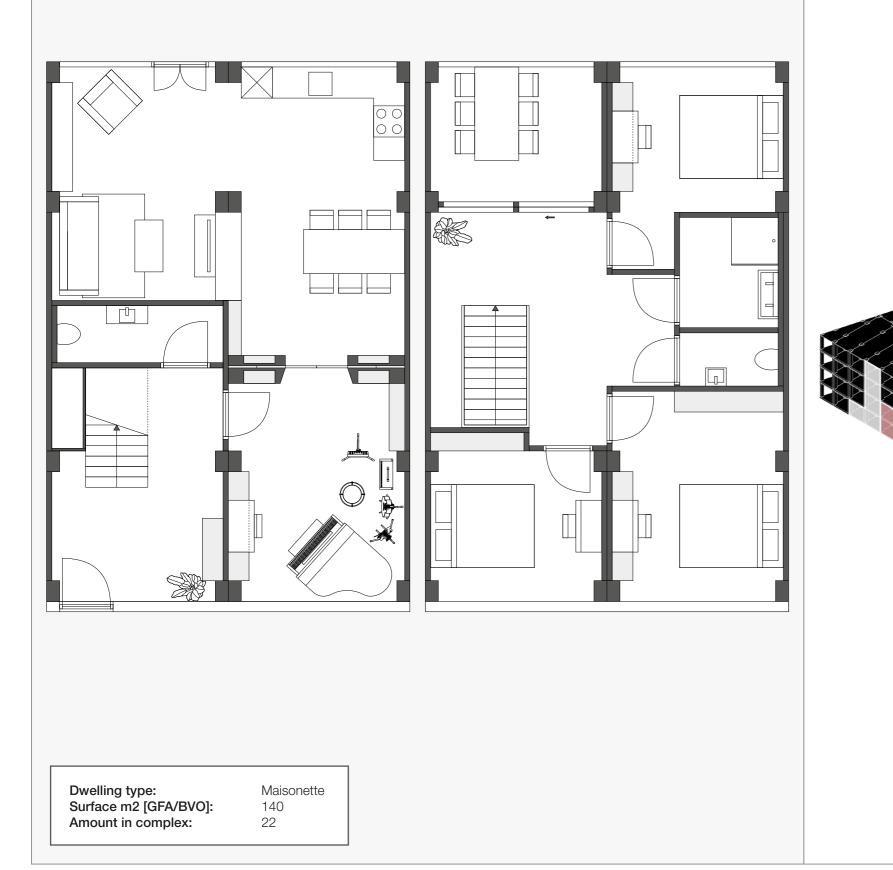
Standardised maisonettes

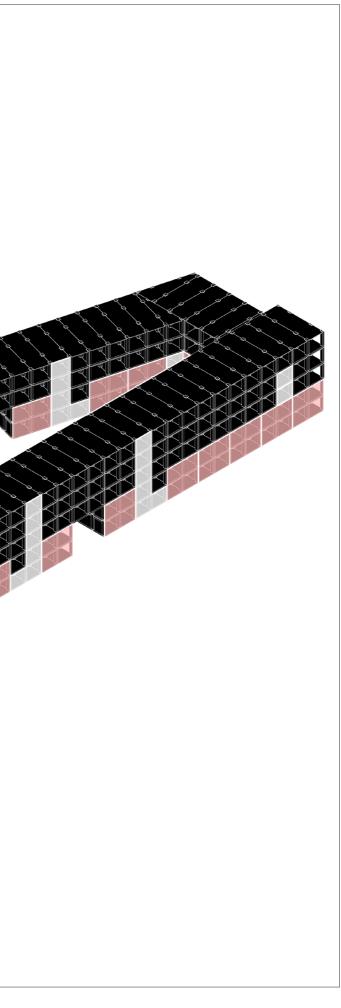
#### DESIGN | PLANS 71

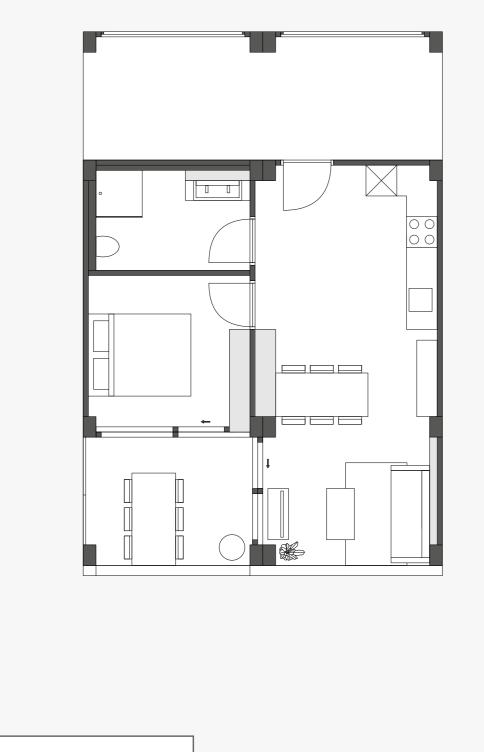




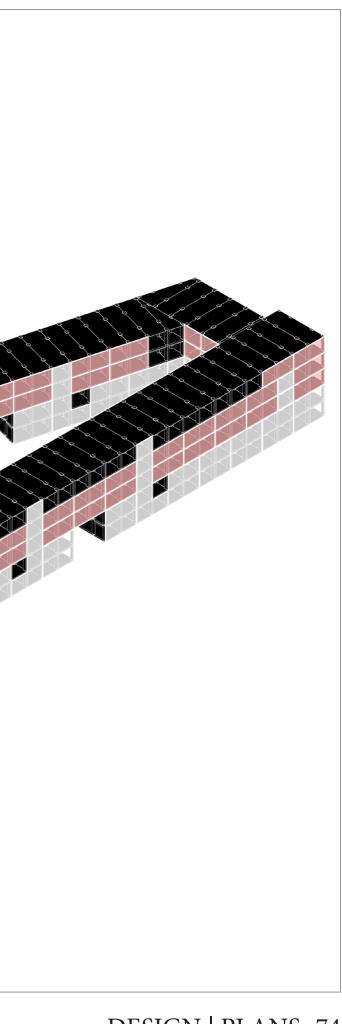
#### DESIGN | PLANS 72

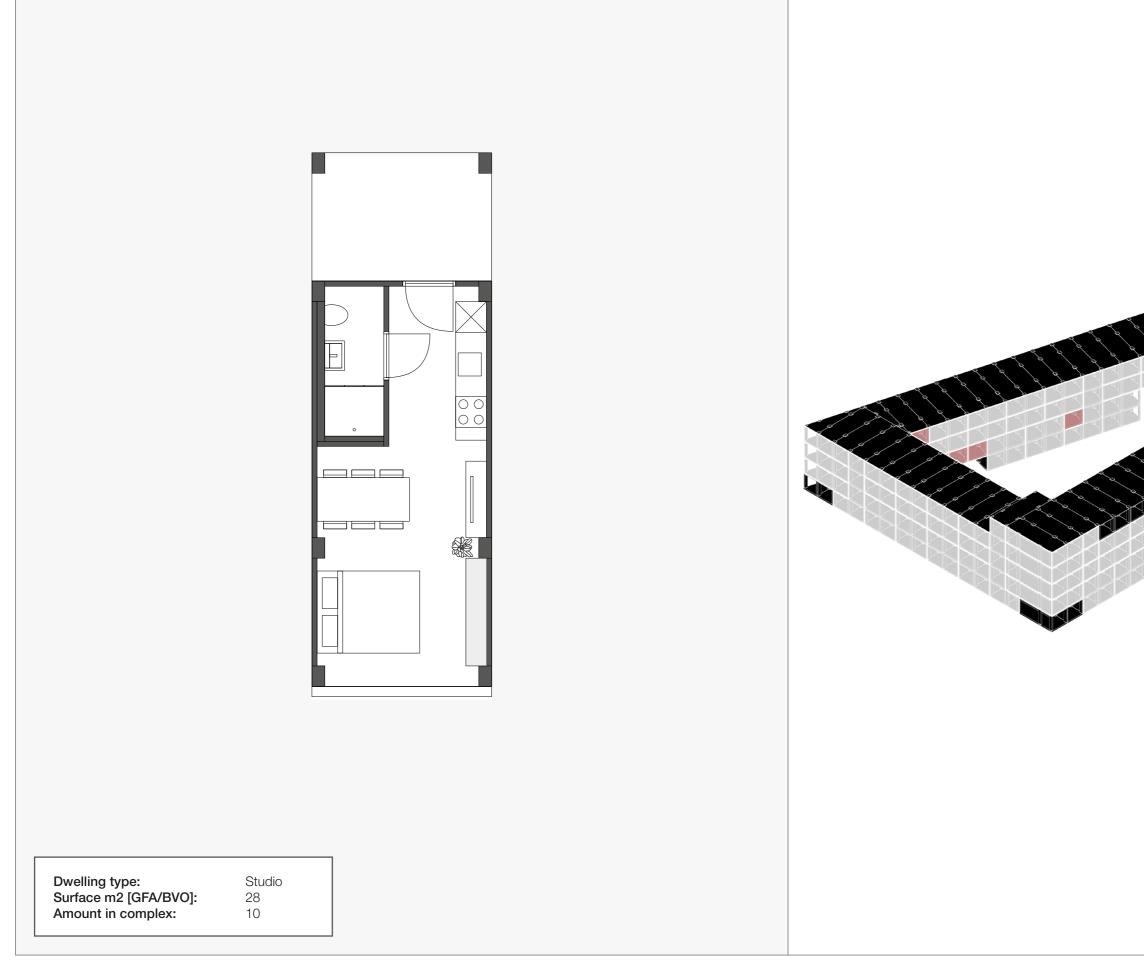


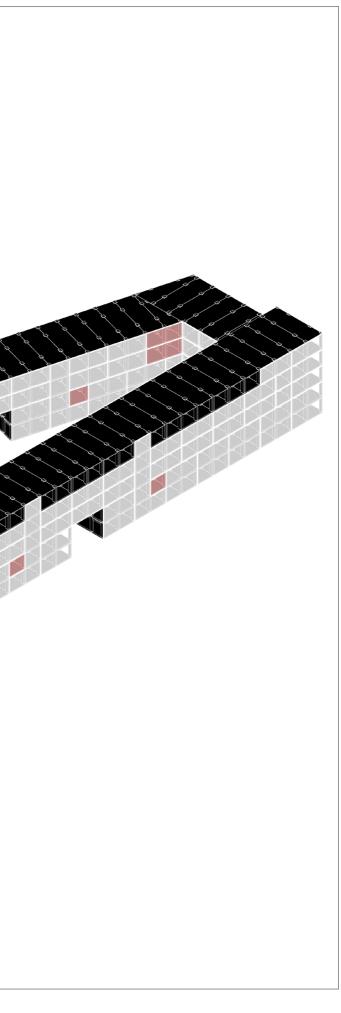


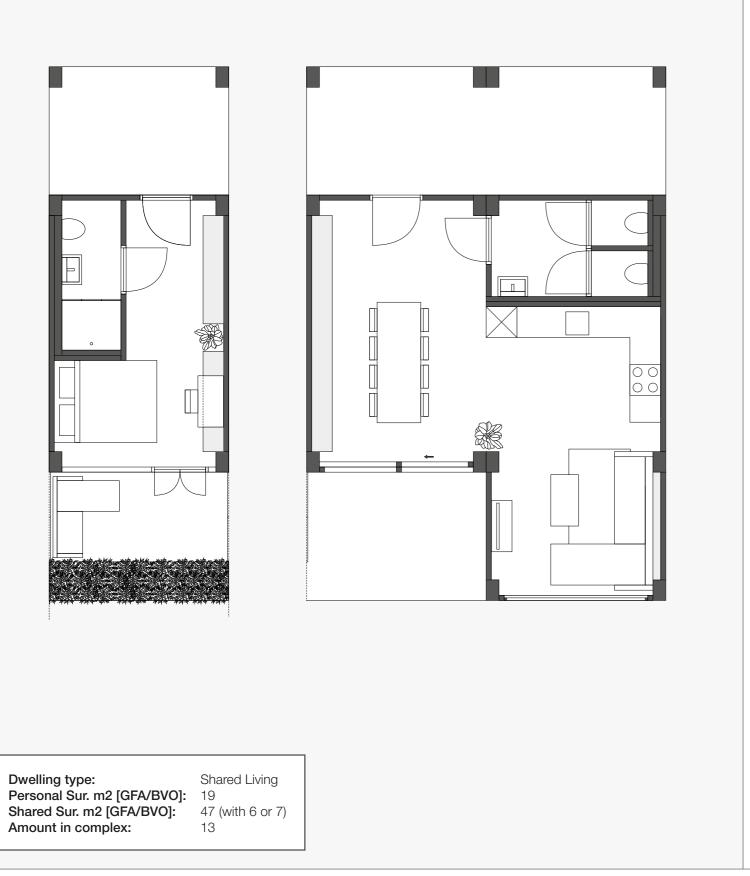


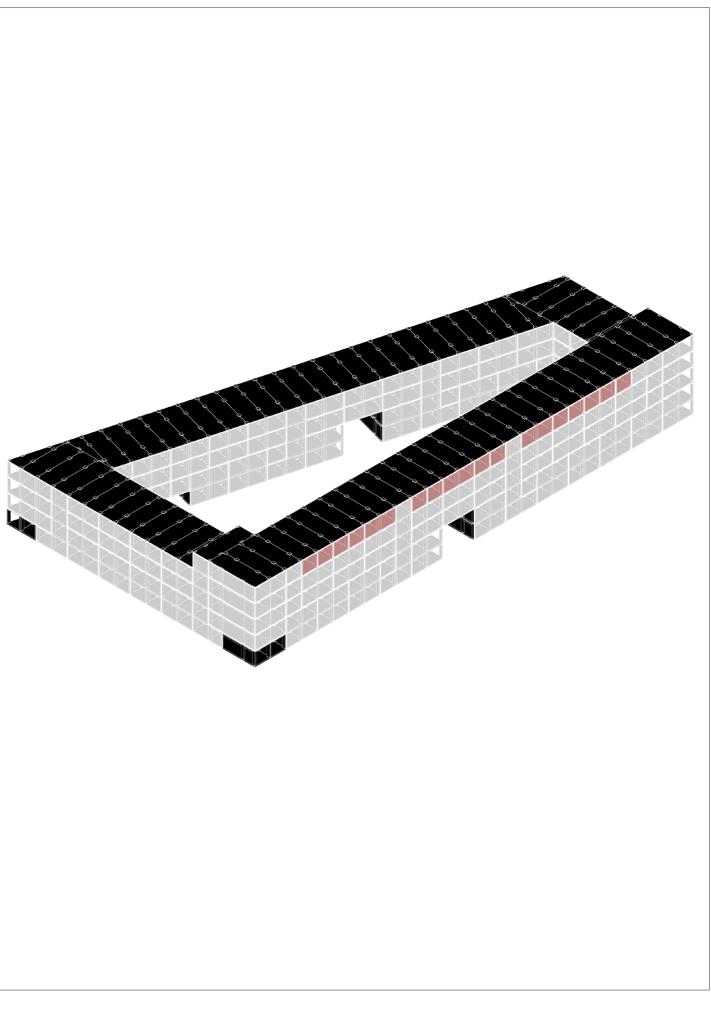
Dwelling type: Surface m2 [GFA/BVO]: Amount in complex: Apartment 48 61

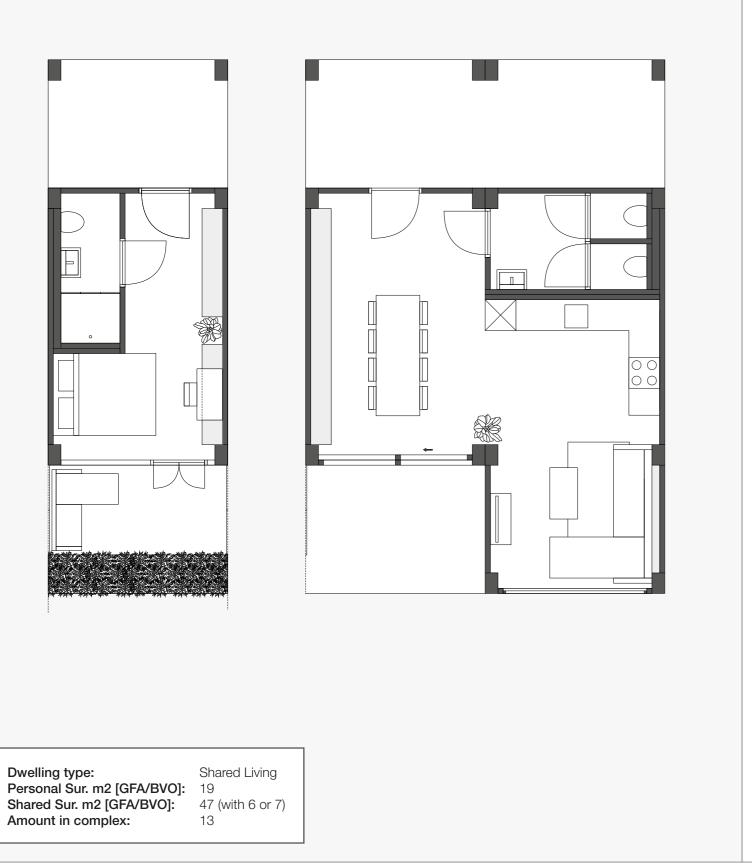


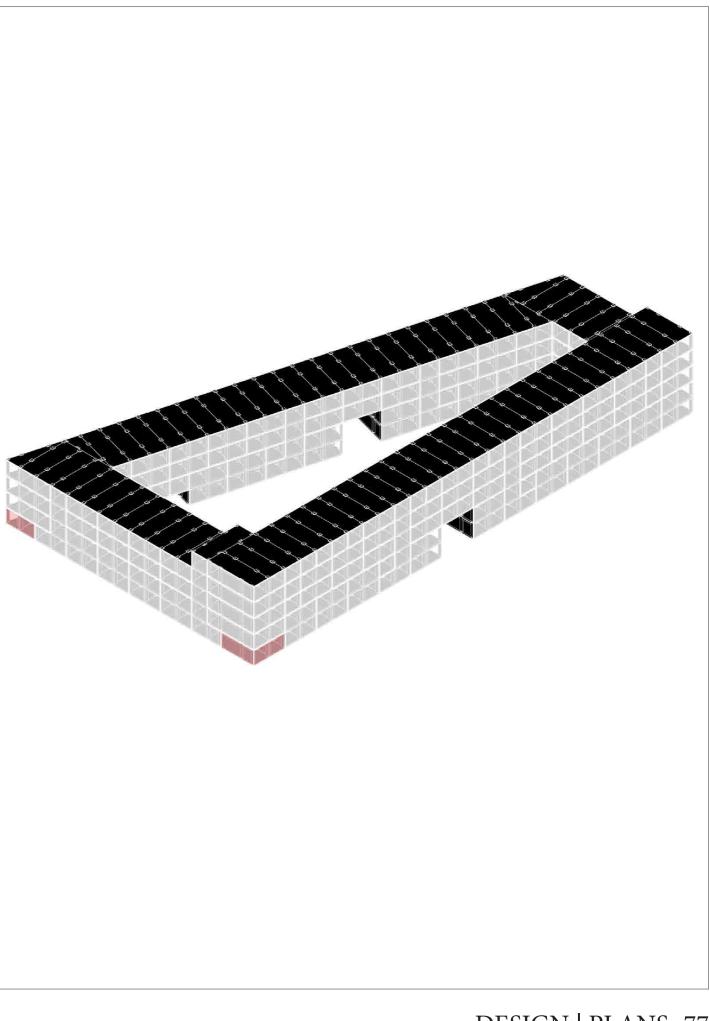


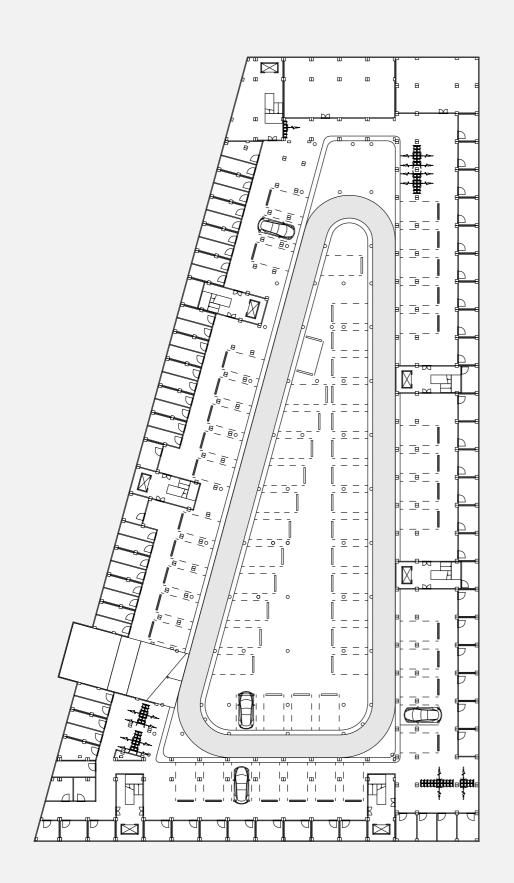


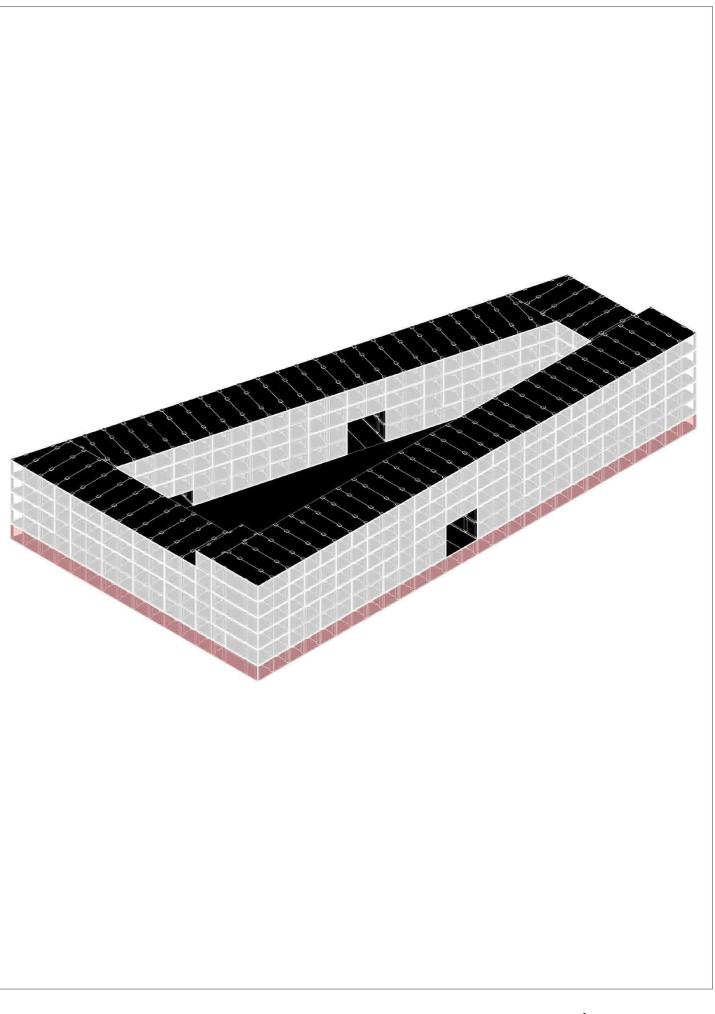


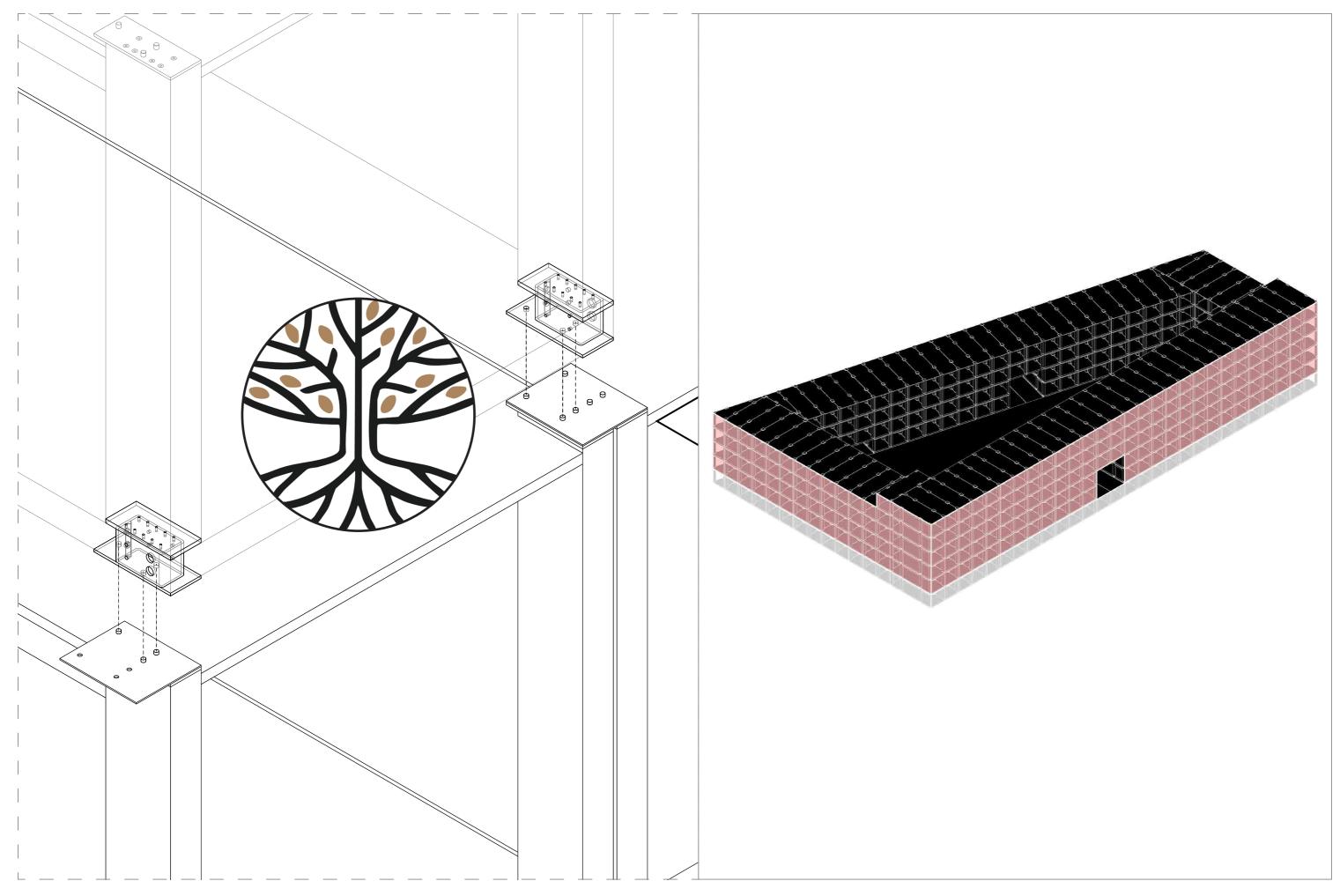


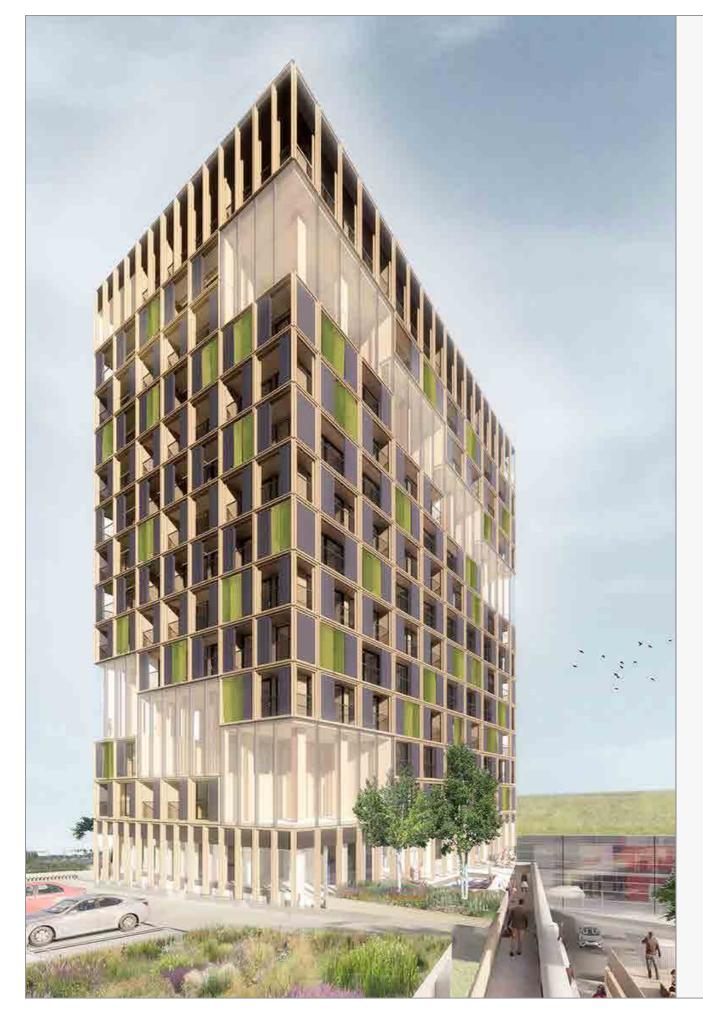


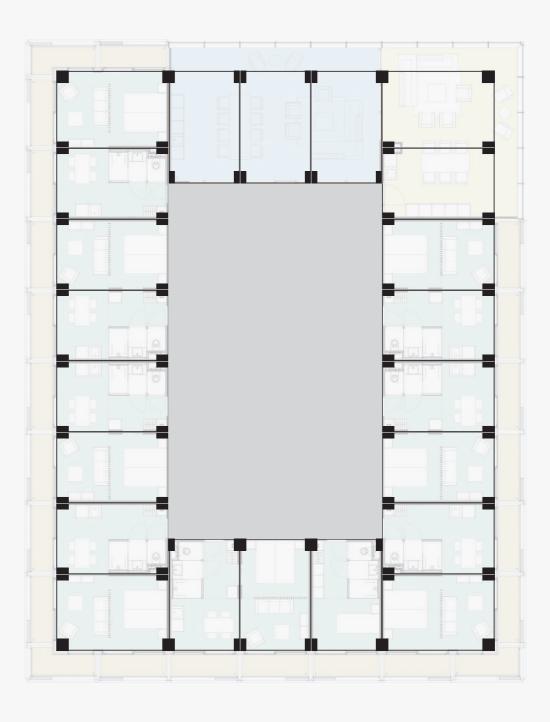










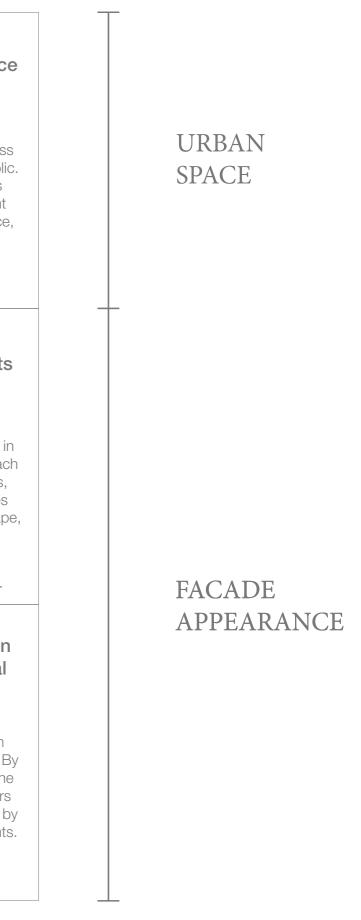


Facade and Module Energie Hotel Ede (start project 2018)

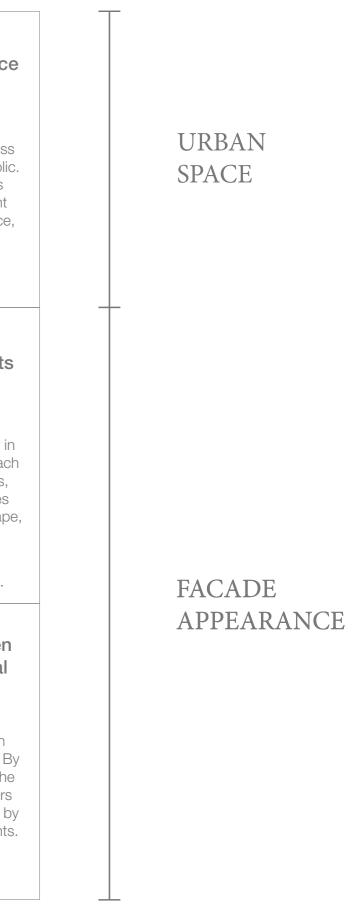


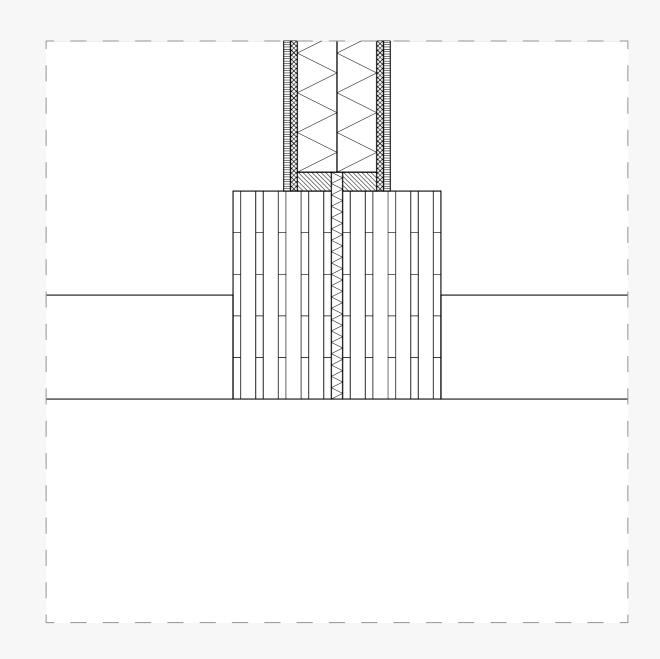


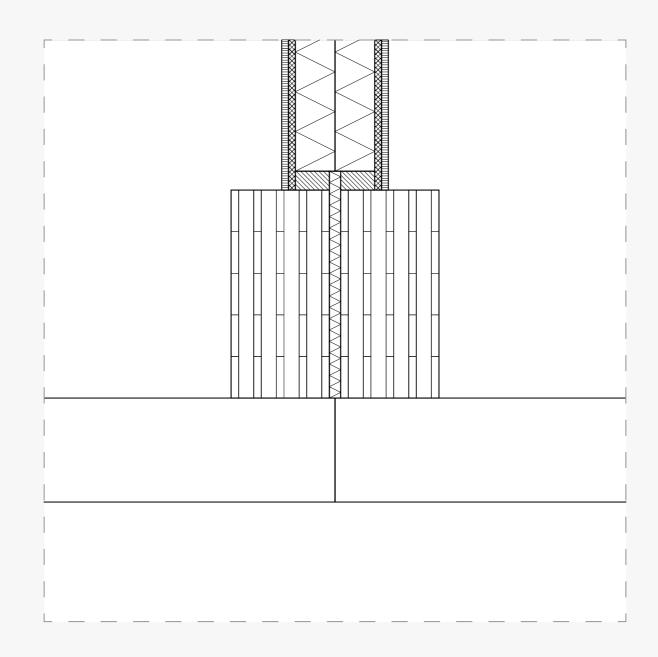
Create different sections and an hierarchy in the building block	Create coherence in the street, building block and urban district	Position and combine entran- ces at street level	Create an intermediate space at entrances
In this hierarchy the corners in the building block and important planes of volumes 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.

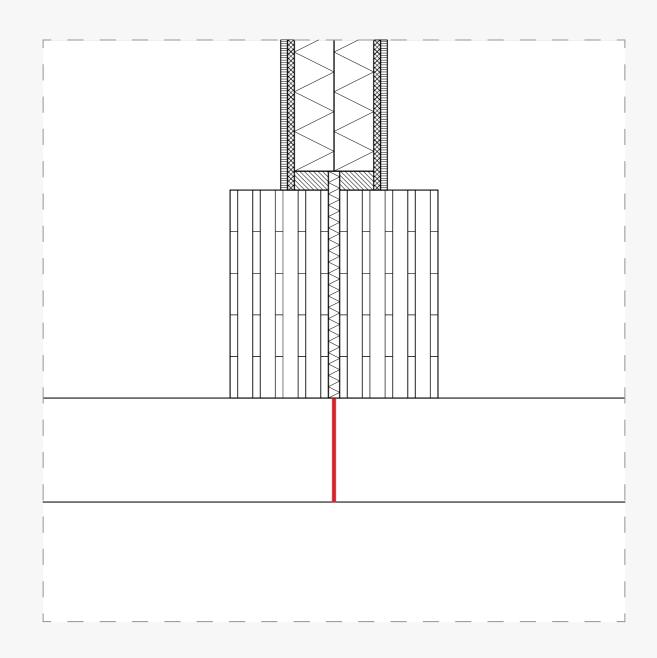


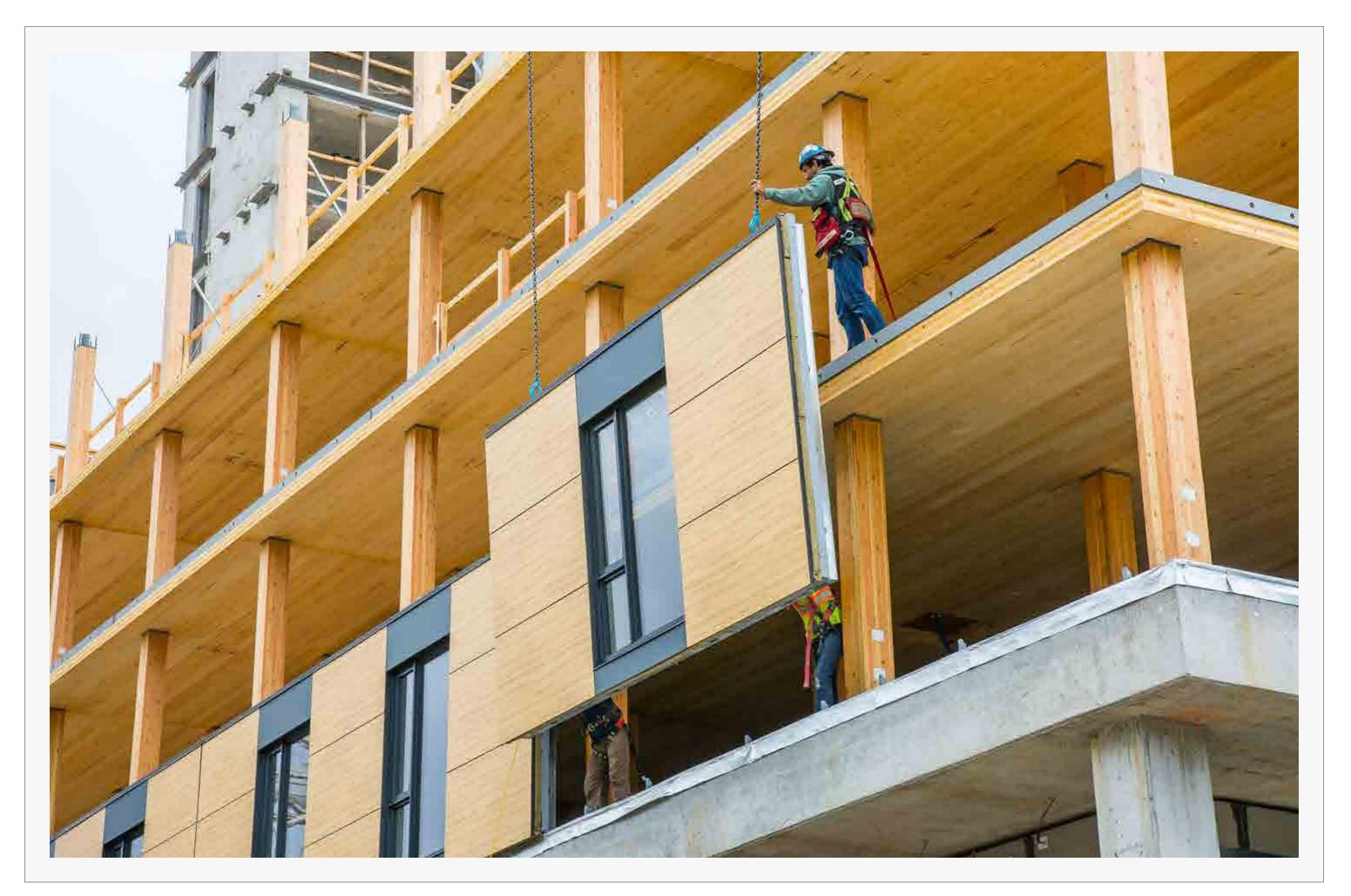
Create different sections and an hierarchy in the building block	Create coherence in the street, building block and urban district	Position and combine entran- ces at street level	Create an intermediate space at entrances
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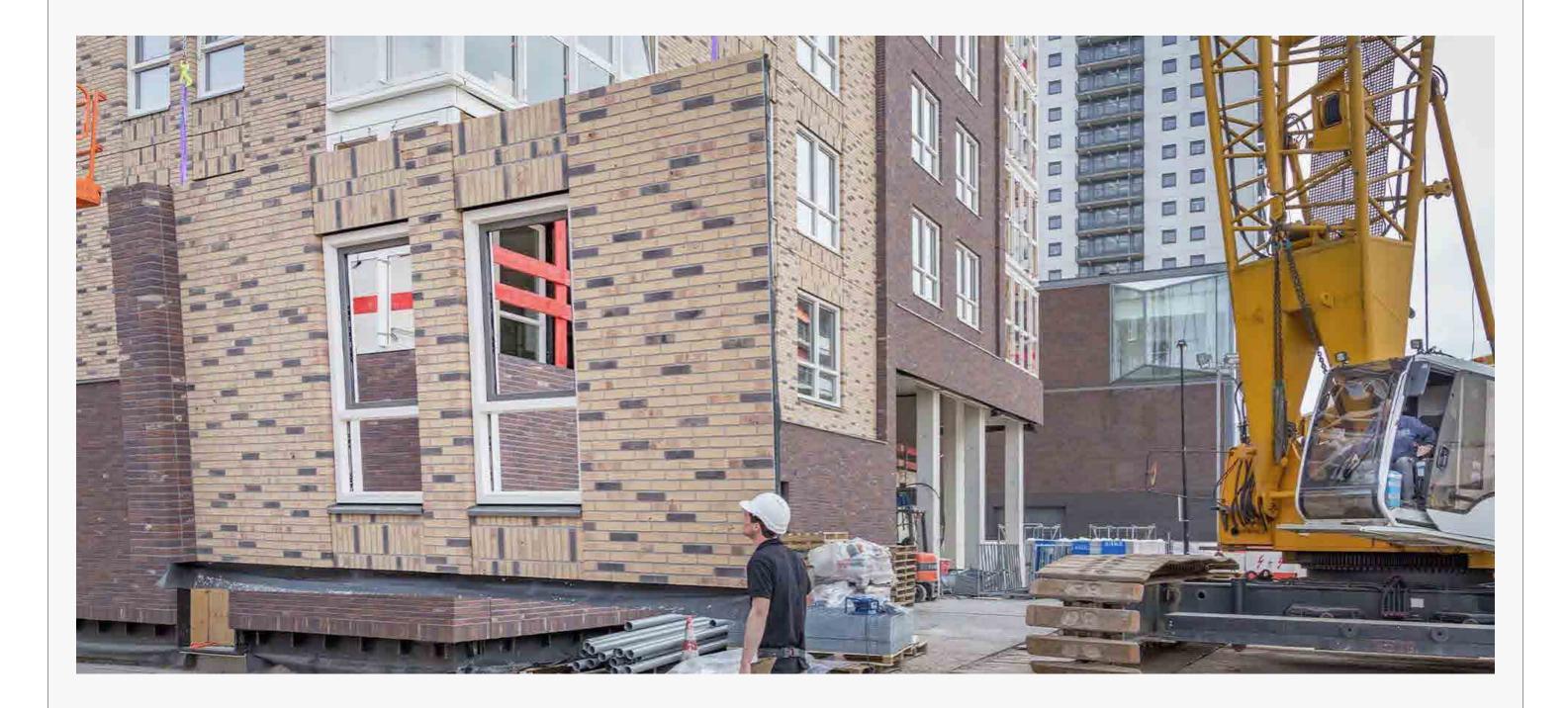


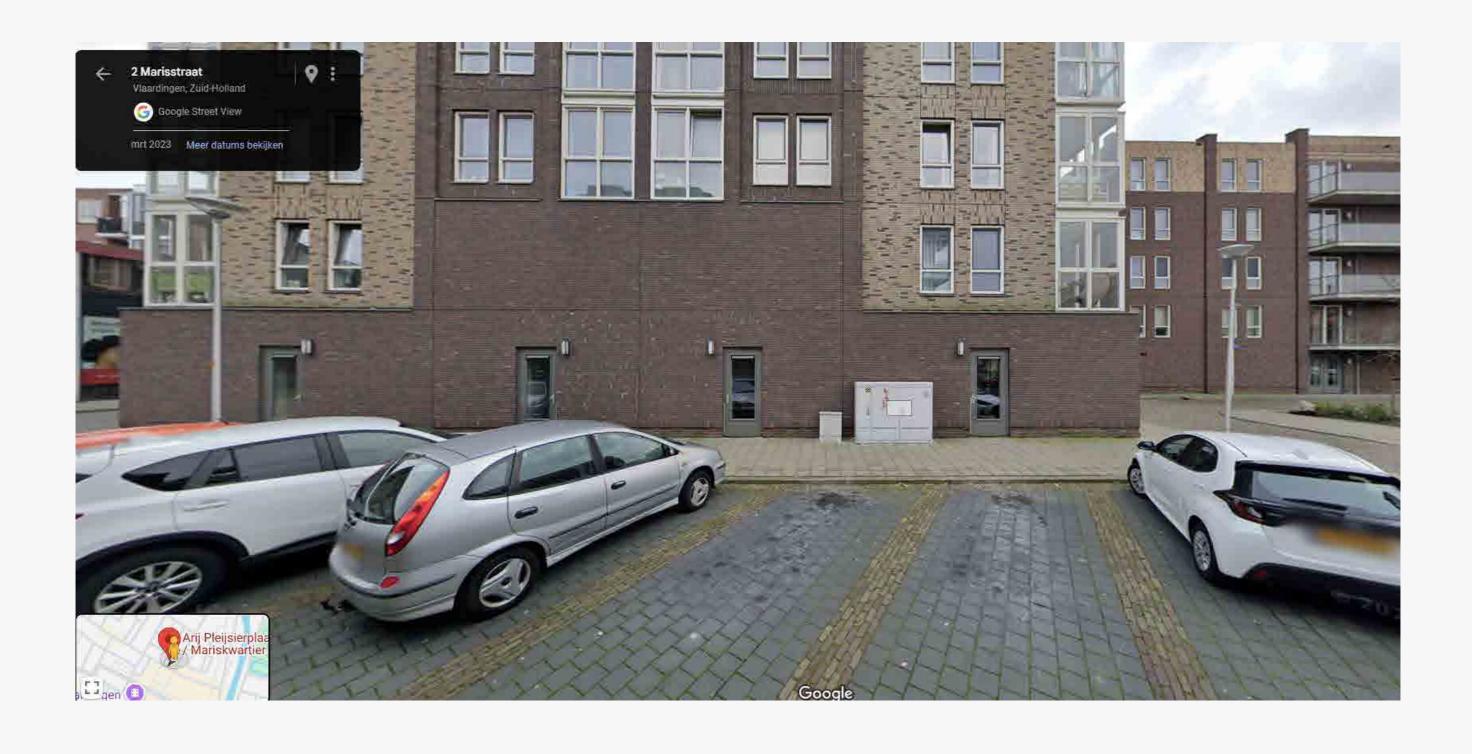




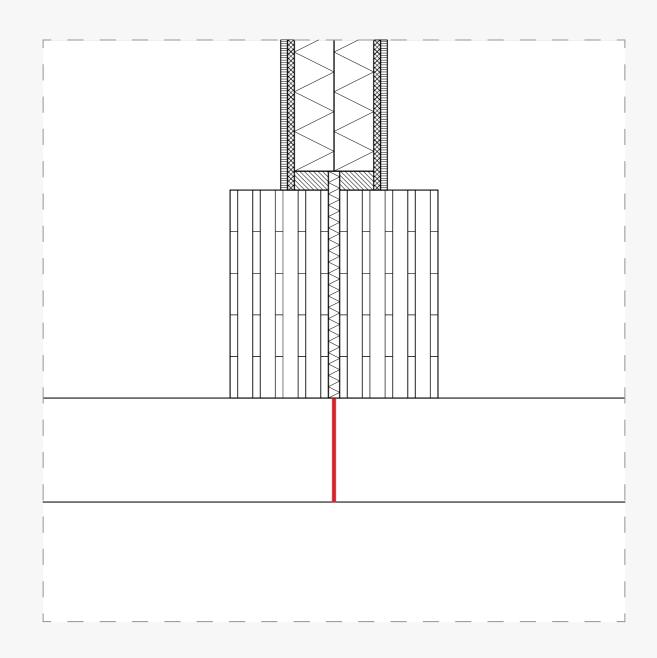


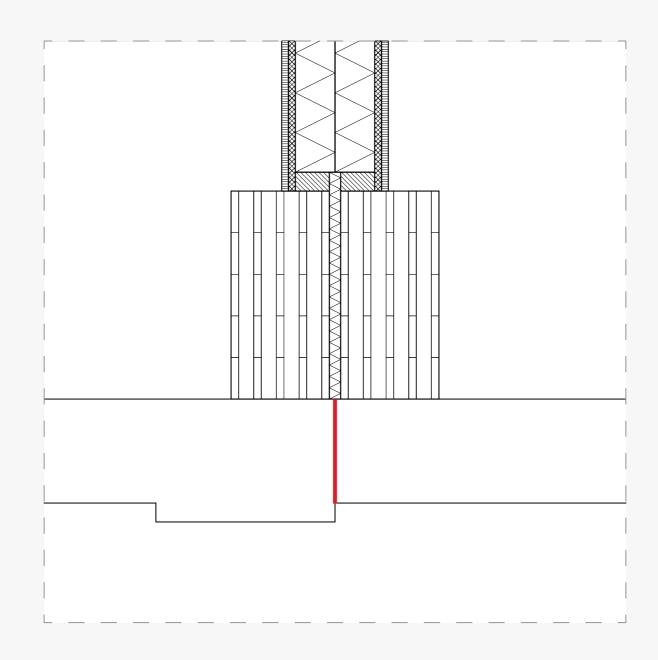


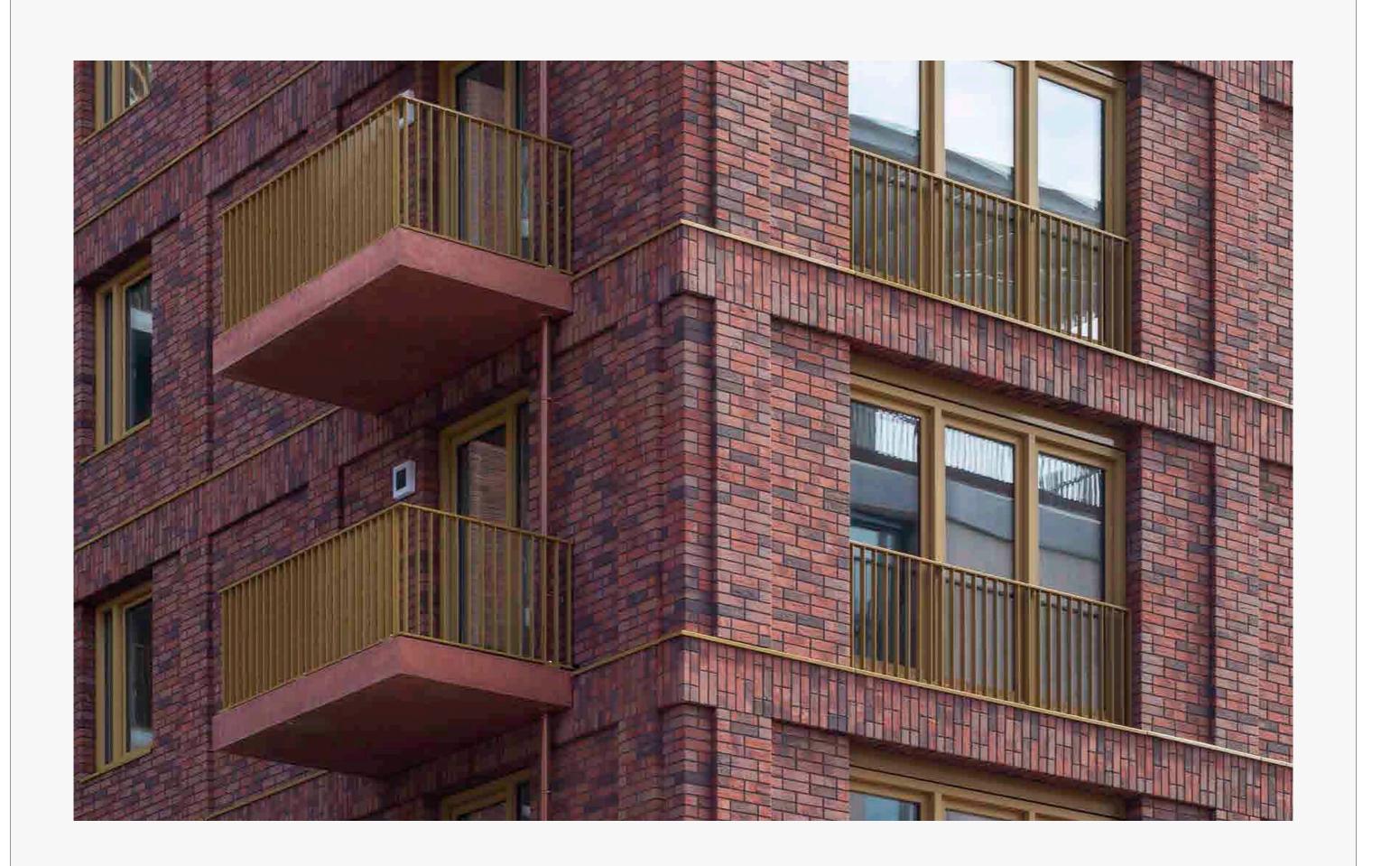




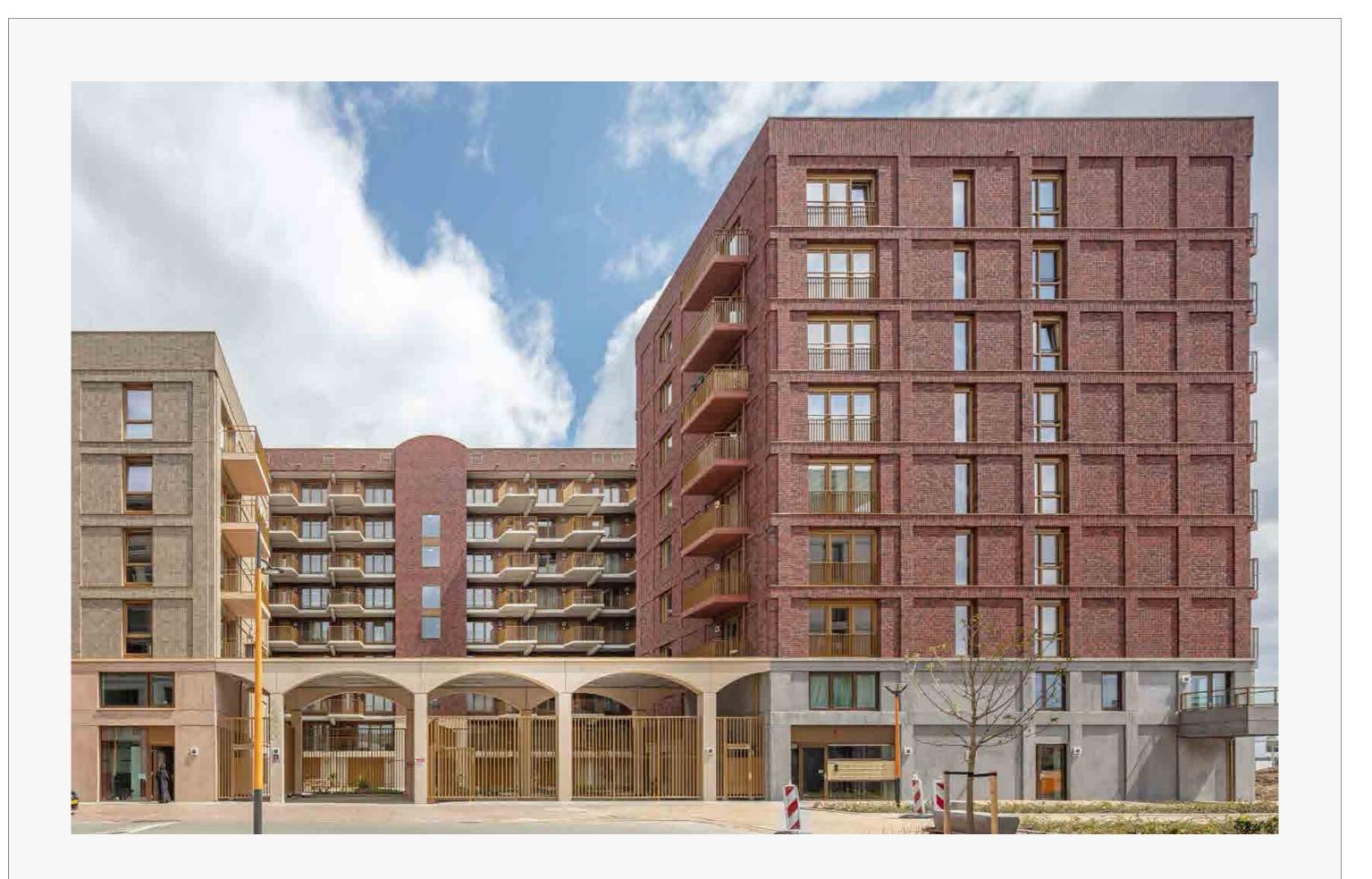


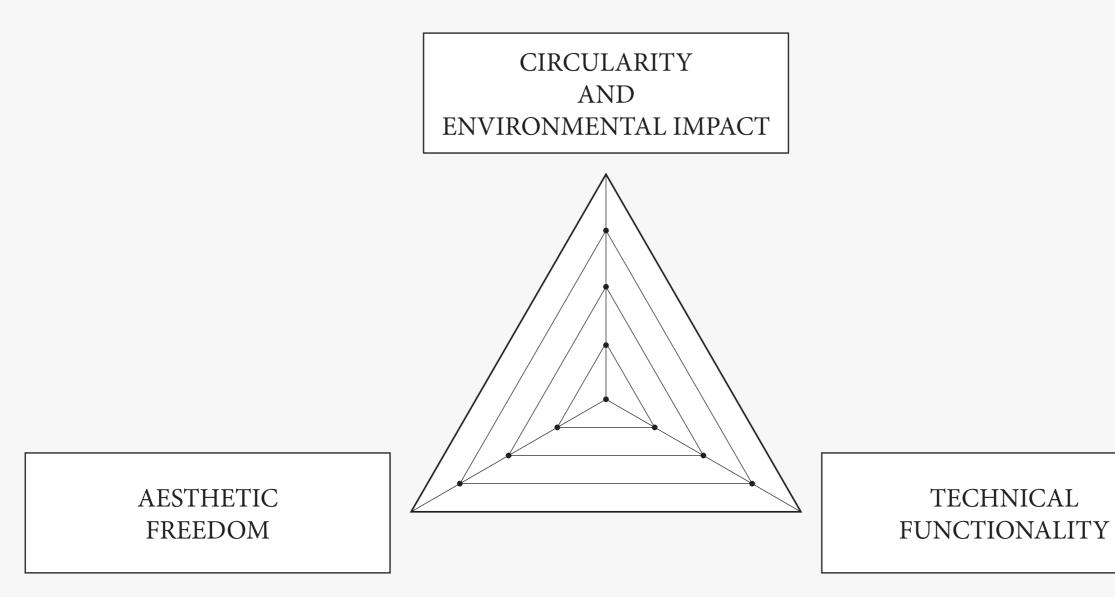


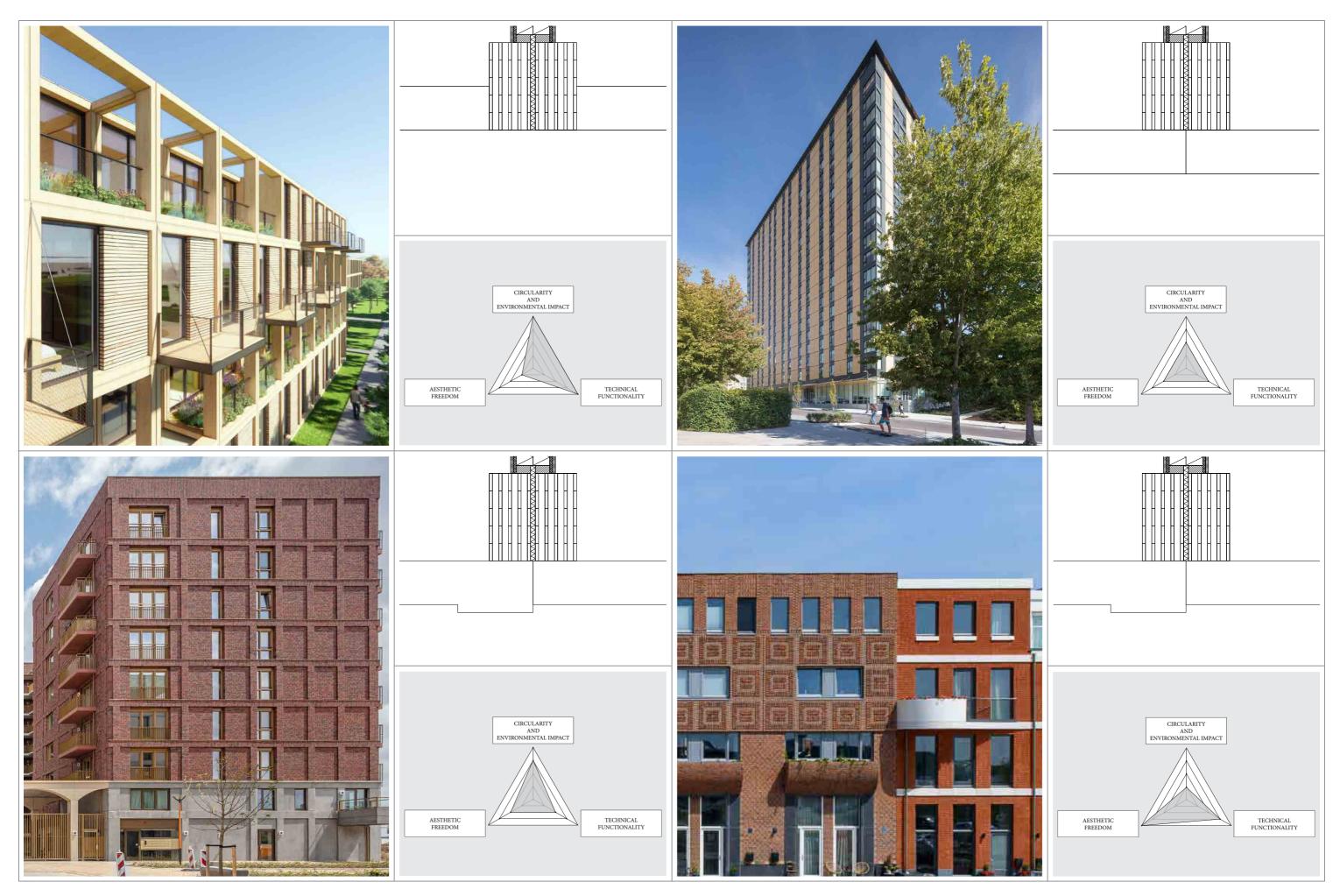


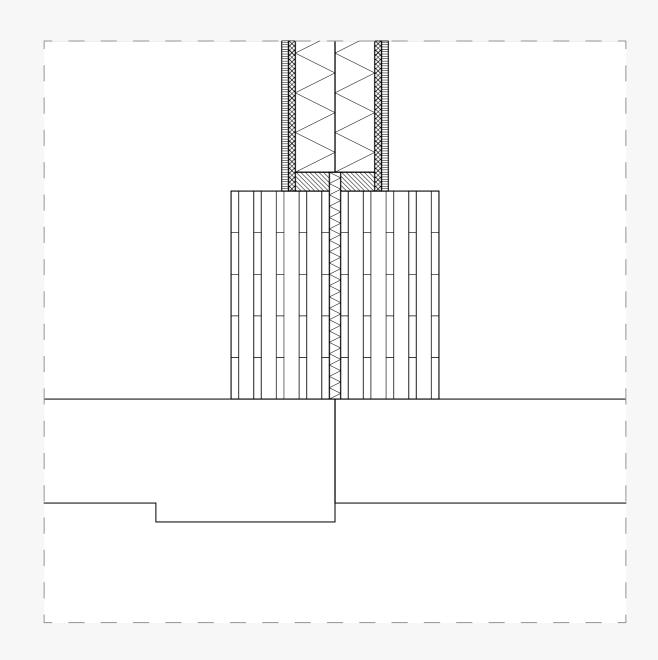


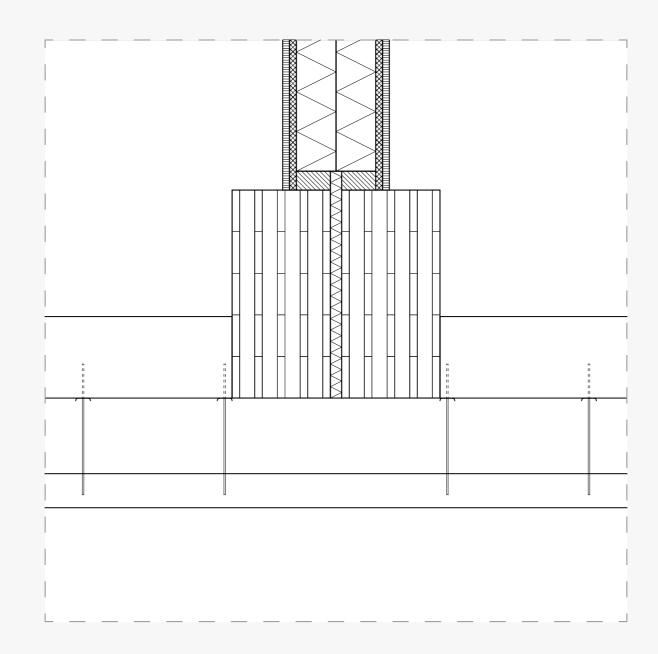


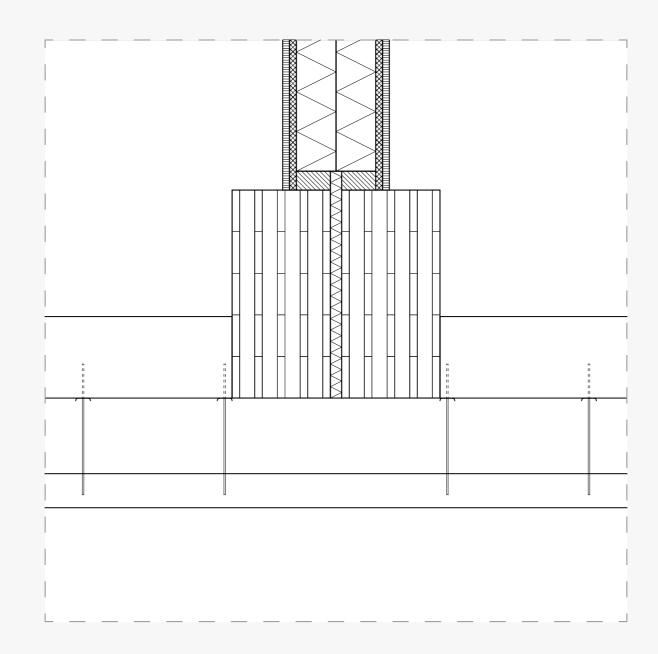


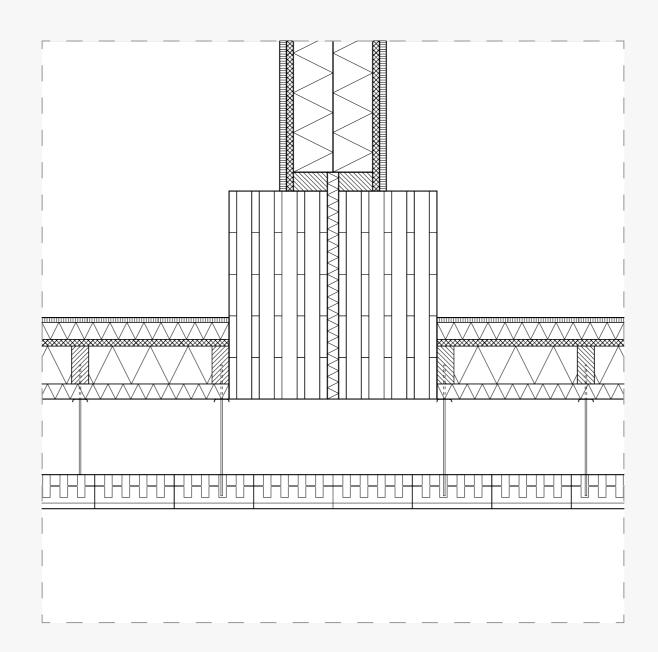


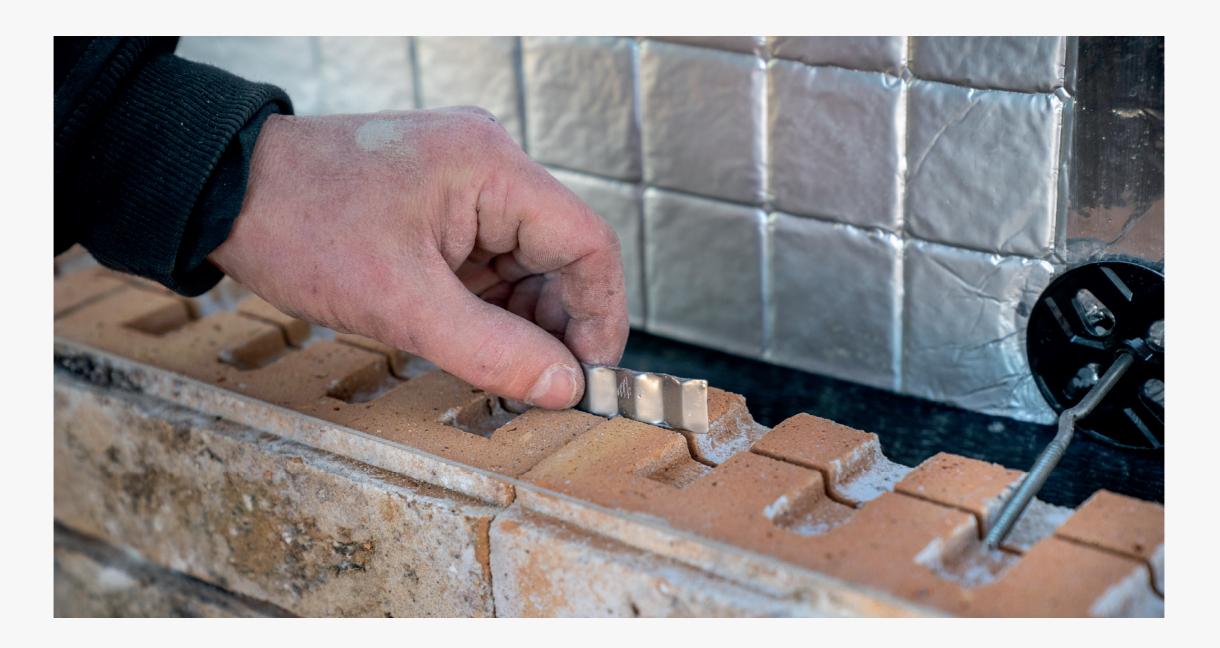


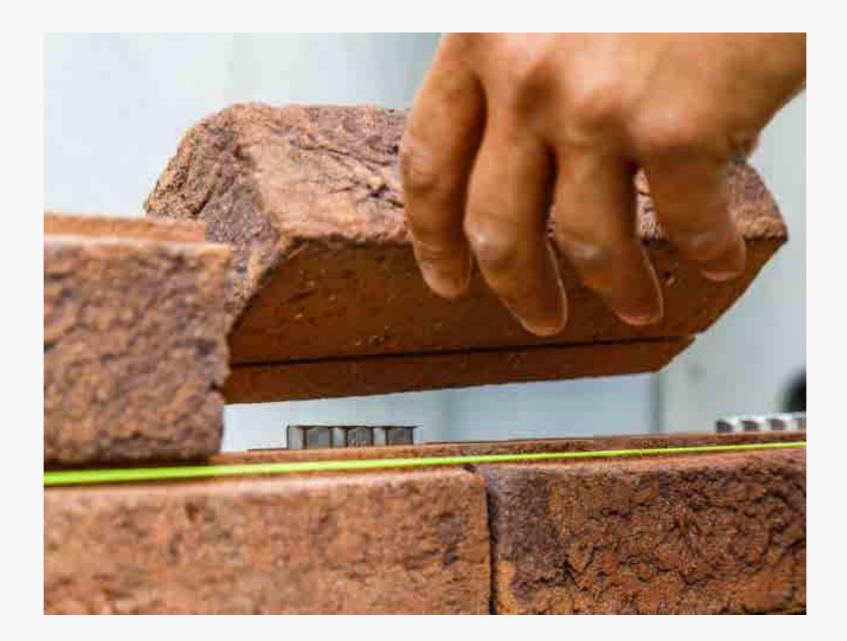






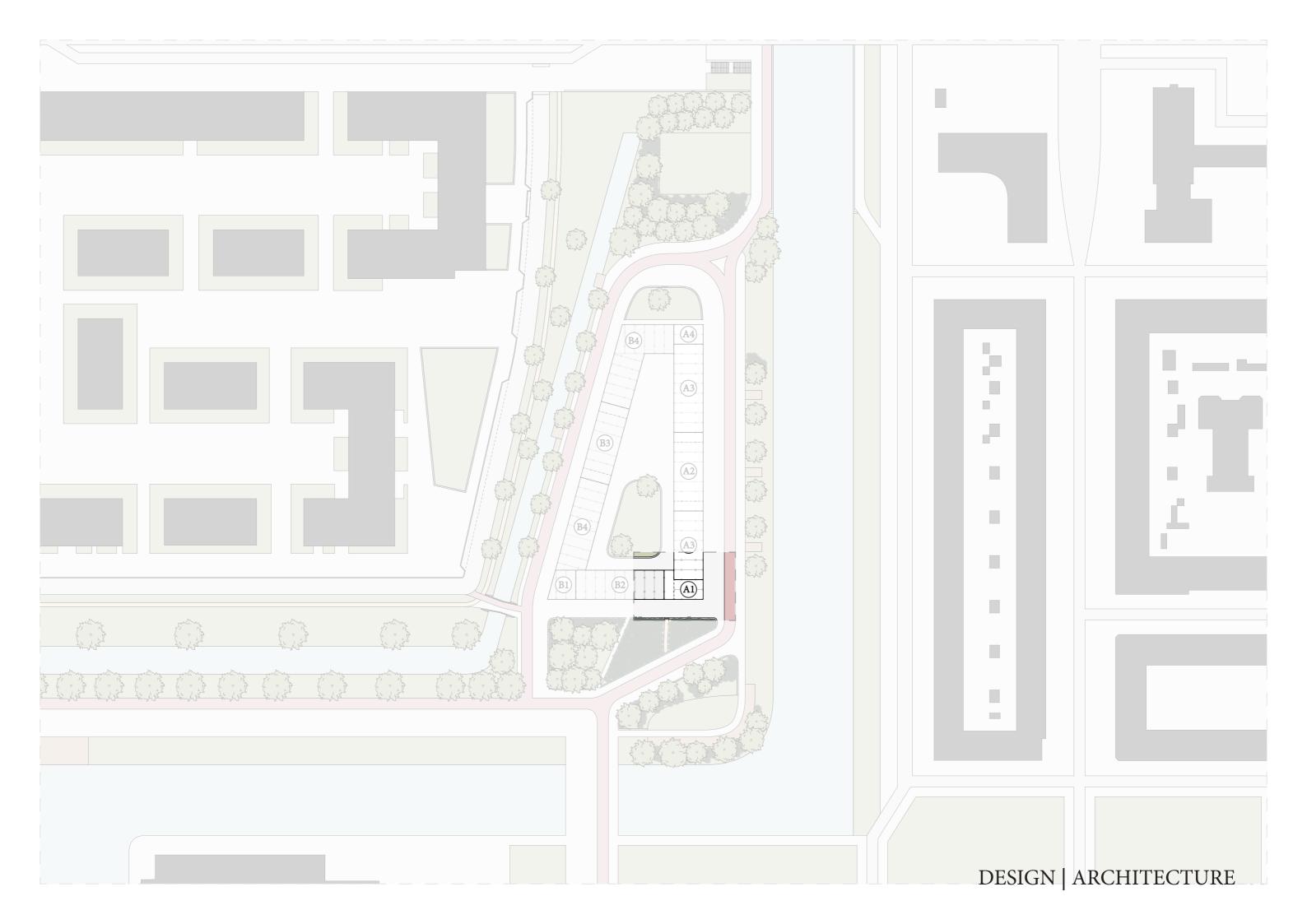






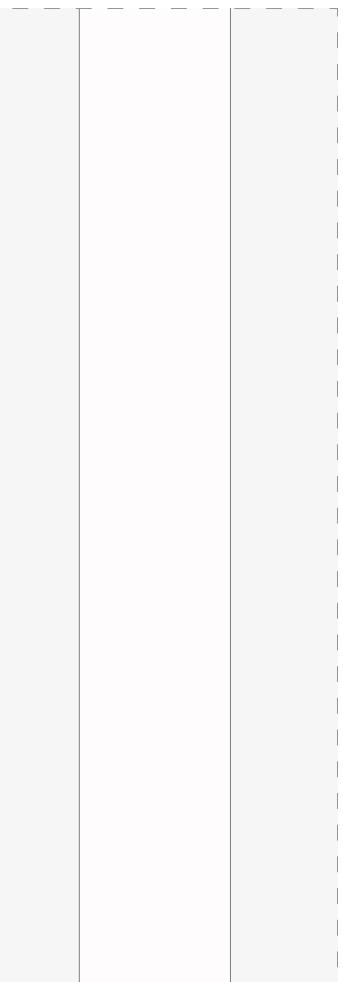




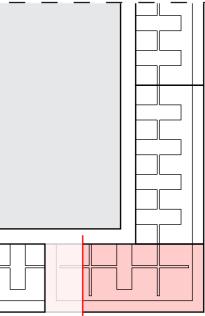




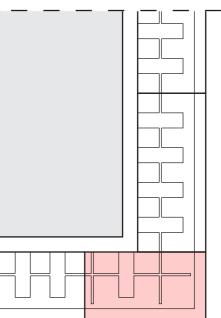






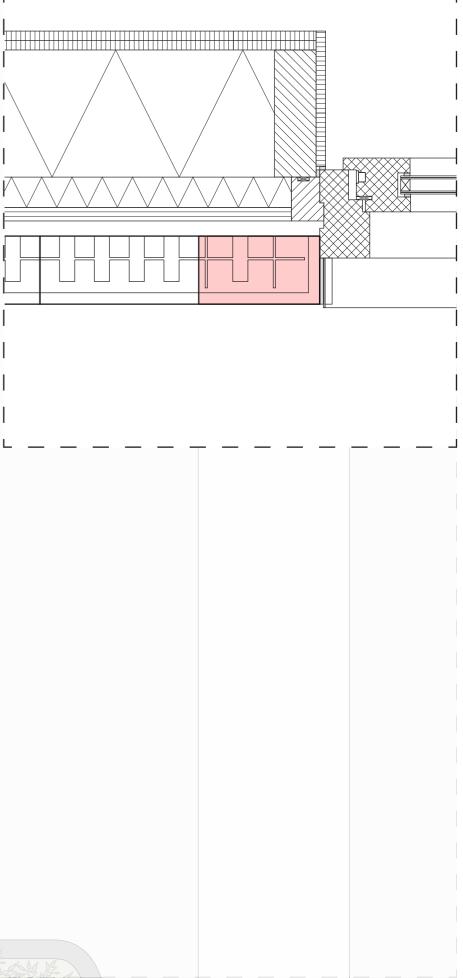






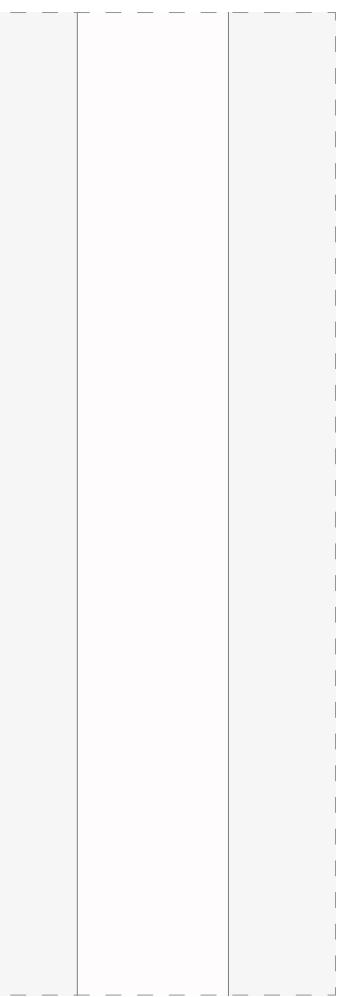


	A.B.











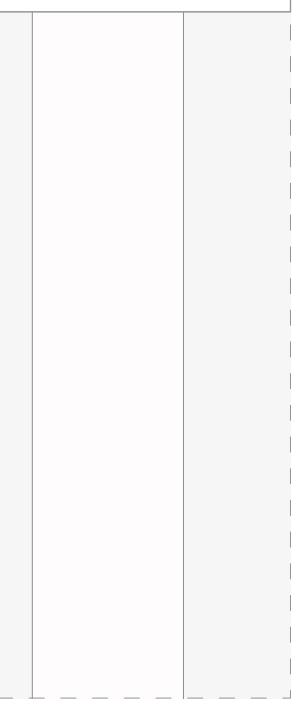




### MB UNB UNB NACO

### 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.

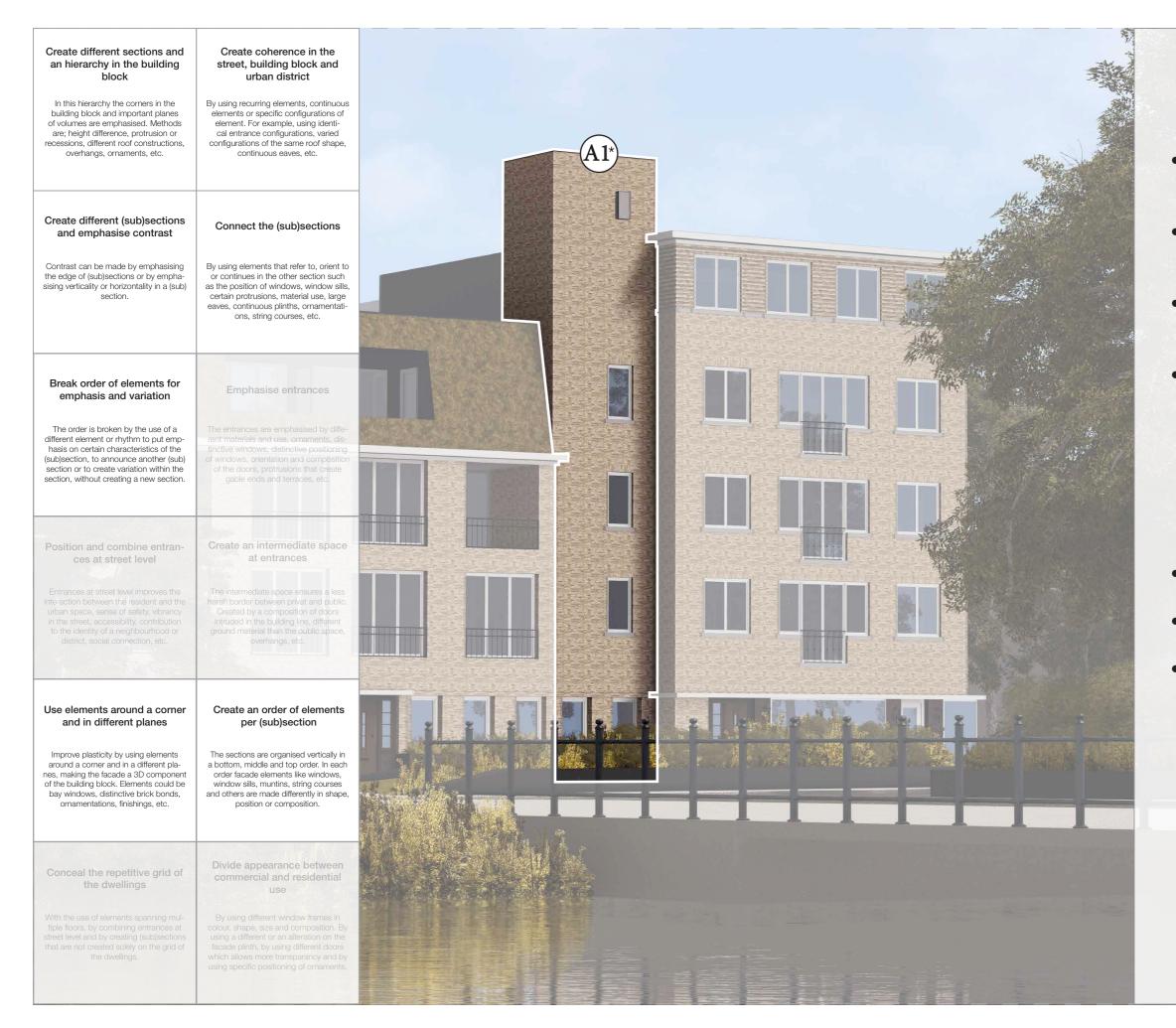
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Create different (sub)sections and emphasise contrast	Connect the (sub)sections By using elements that refer to, orient to
the edge of (sub)sections or by empha- sising verticality or horizontality in a (sub) section.	or continues in the other section 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.

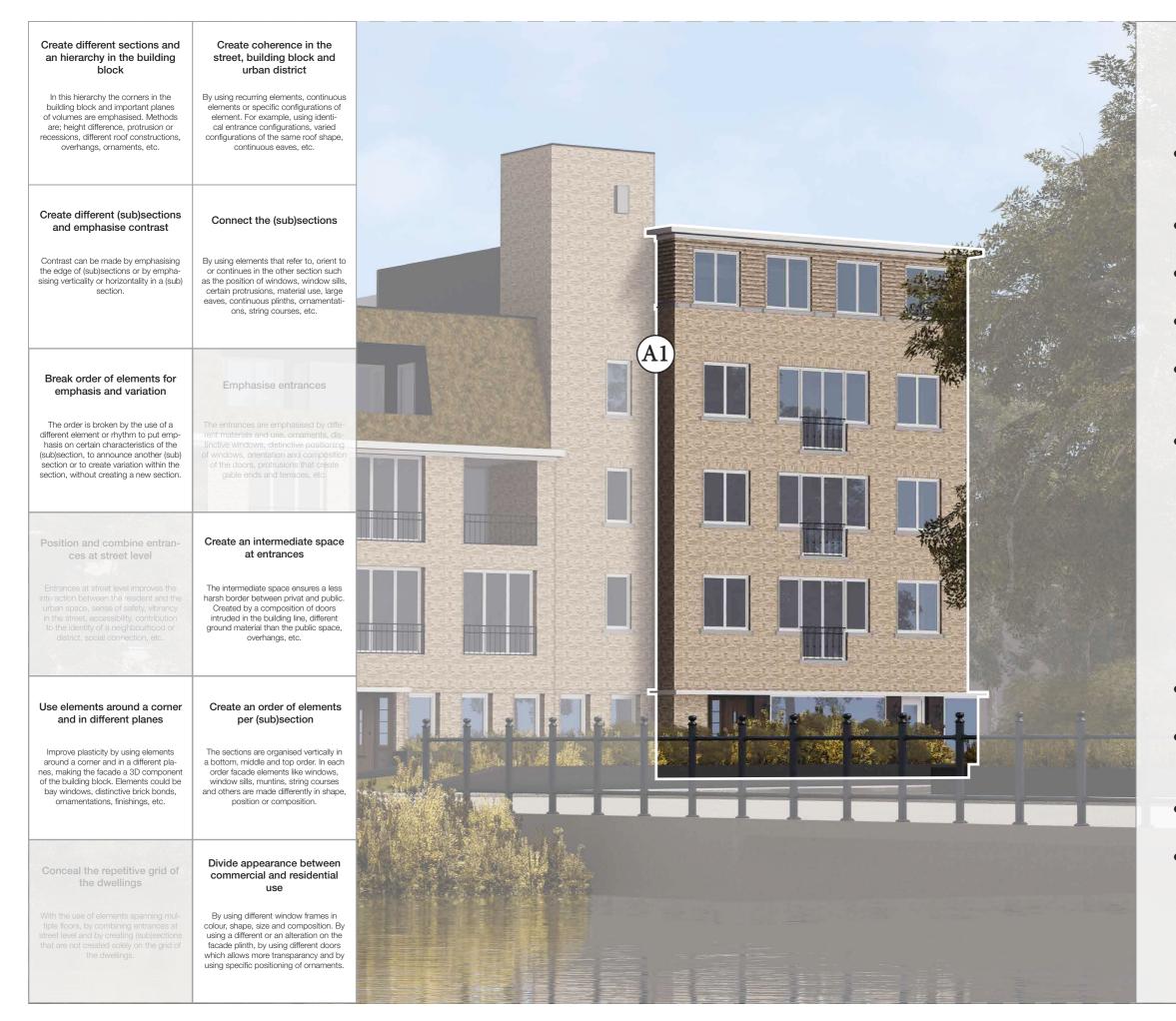


### Characteristics of the A1\* subsection

- 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	
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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	
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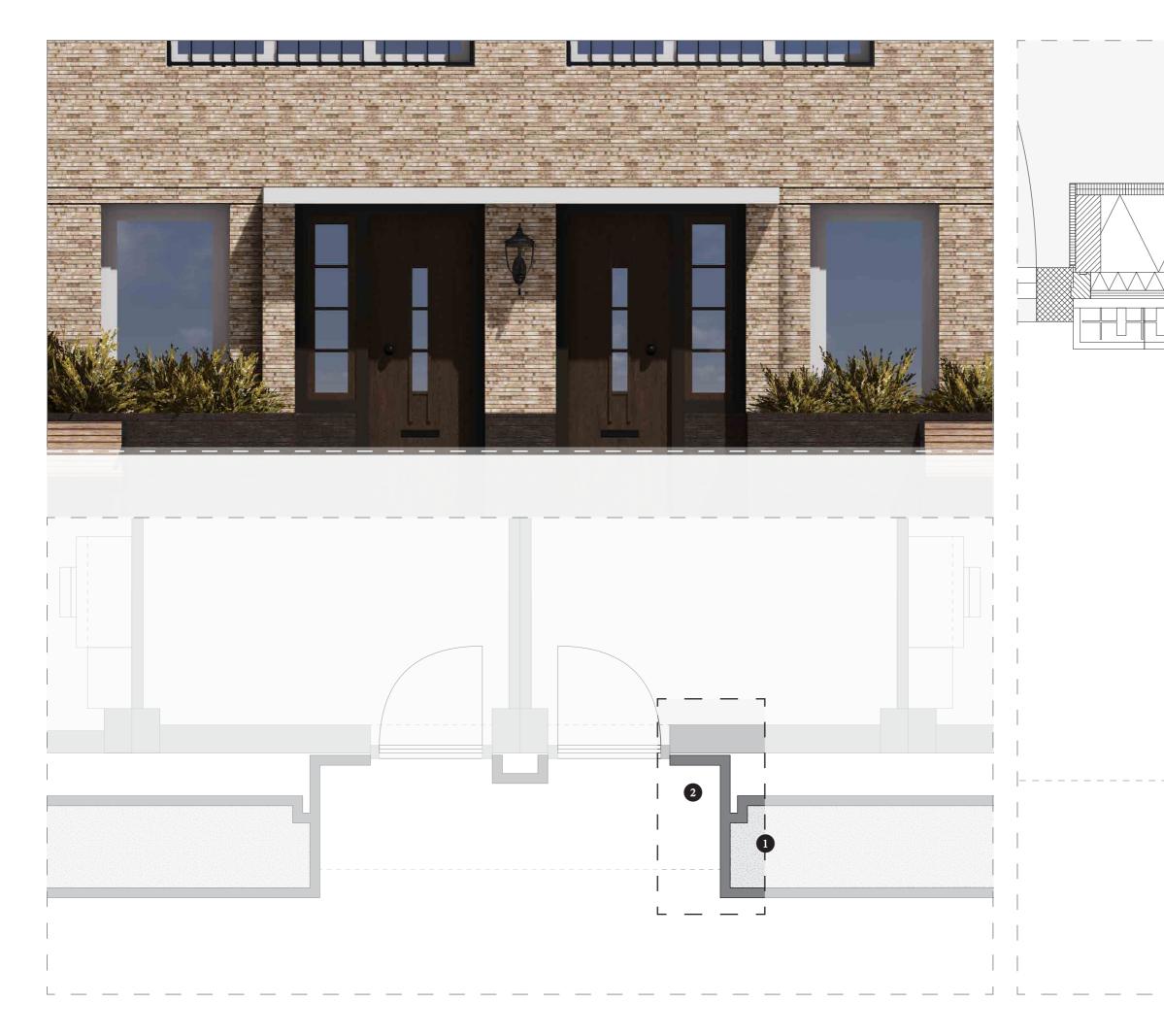


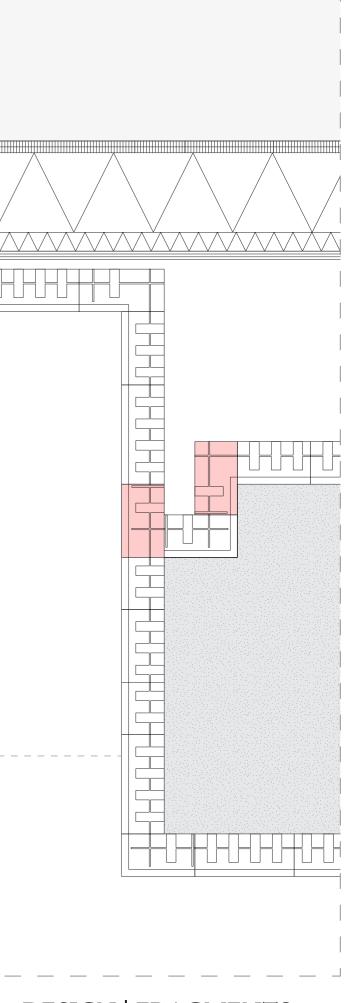






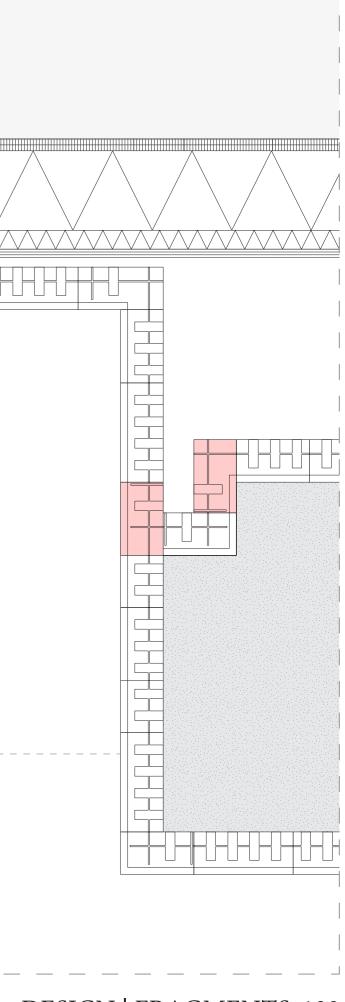




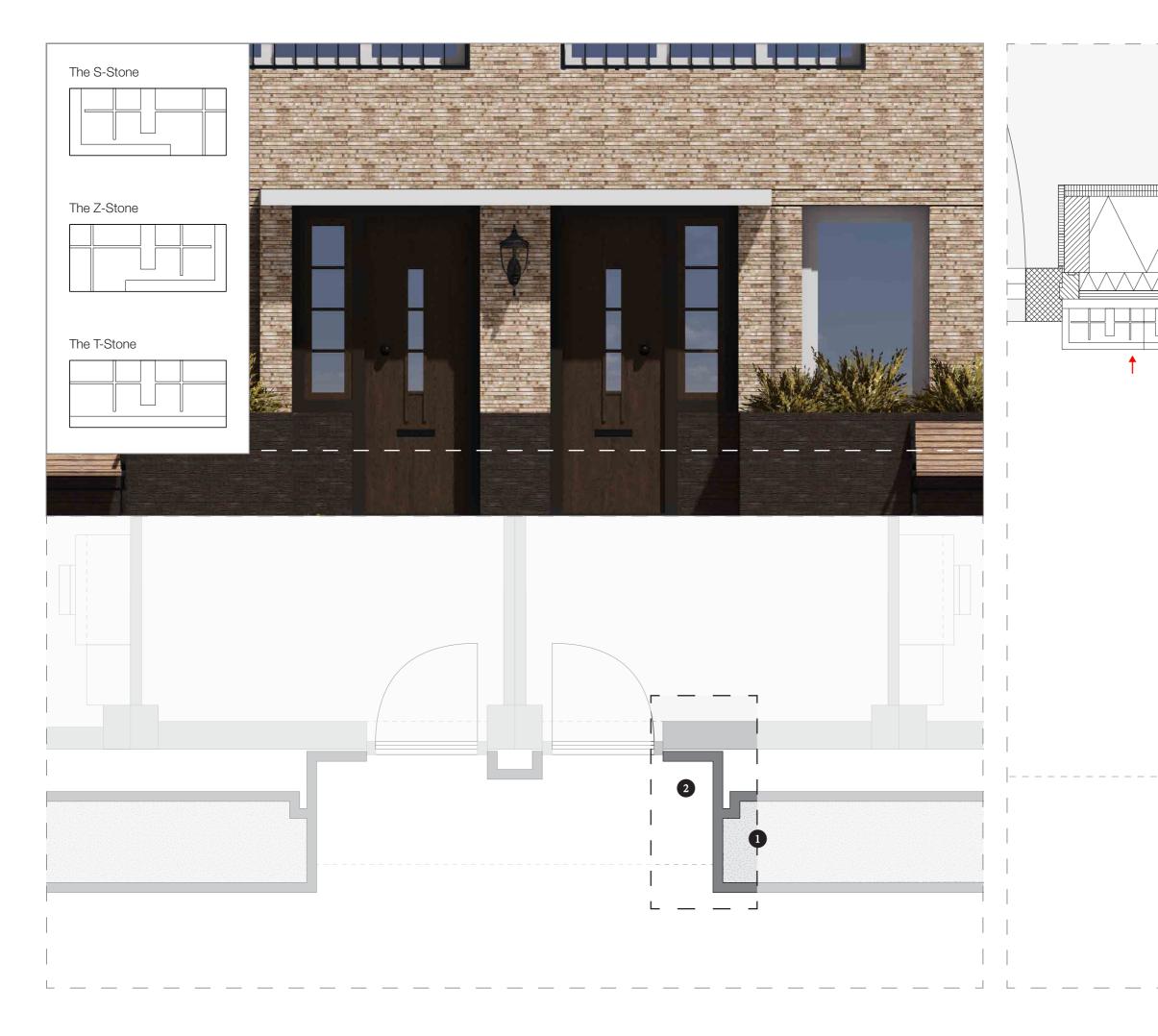


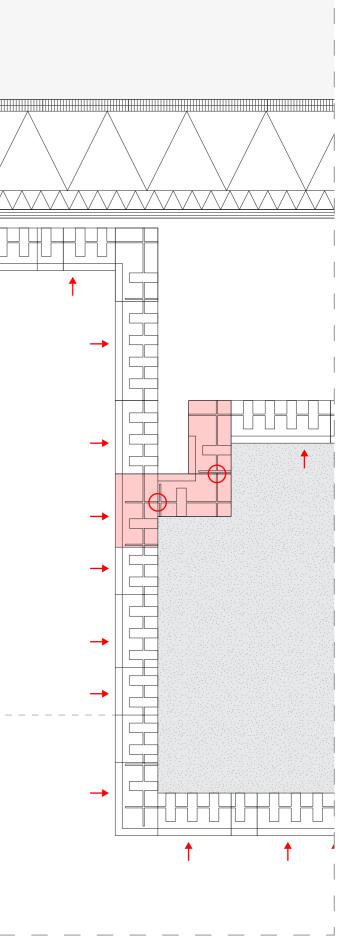
DESIGN | FRAGMENTS 129

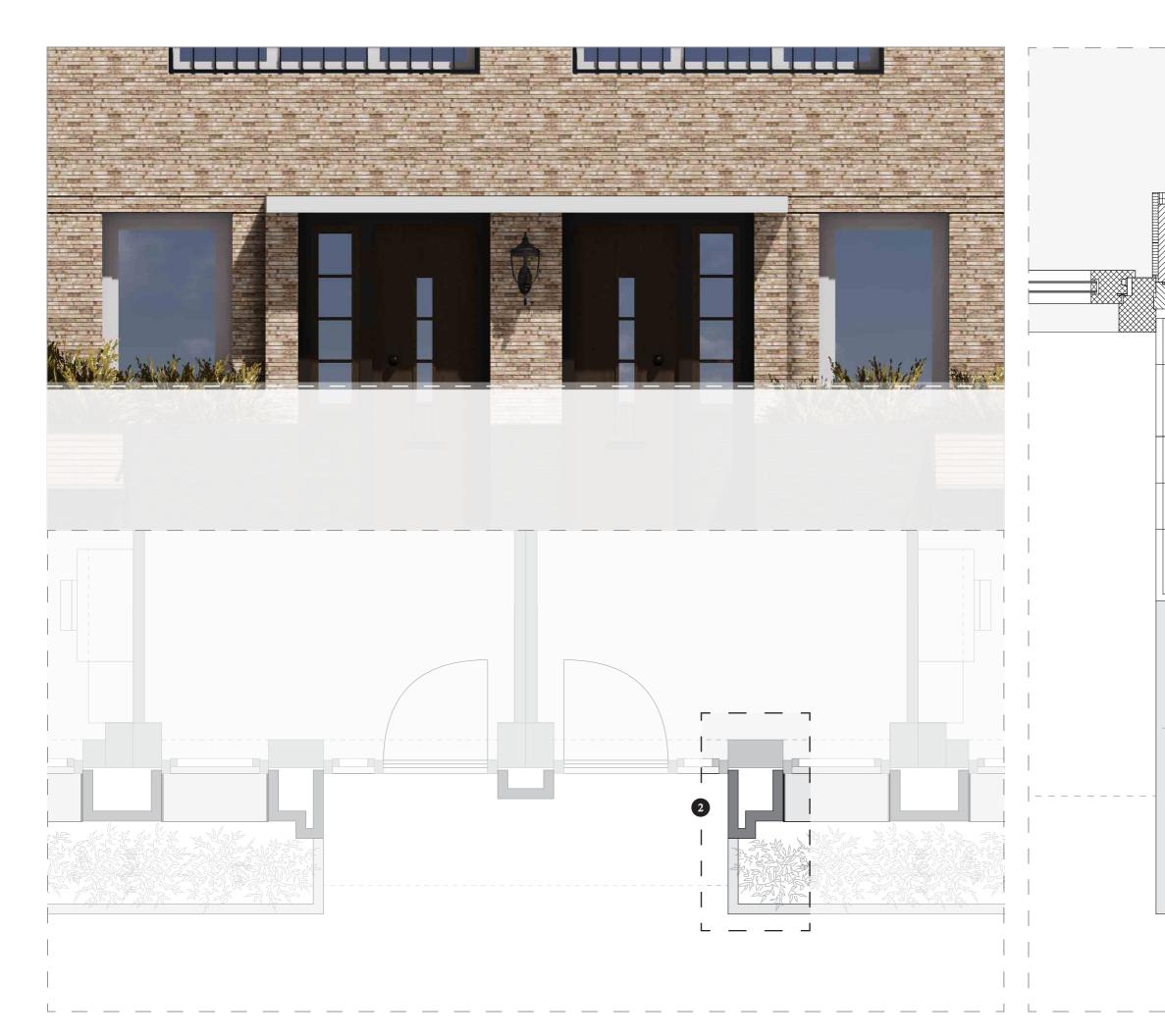


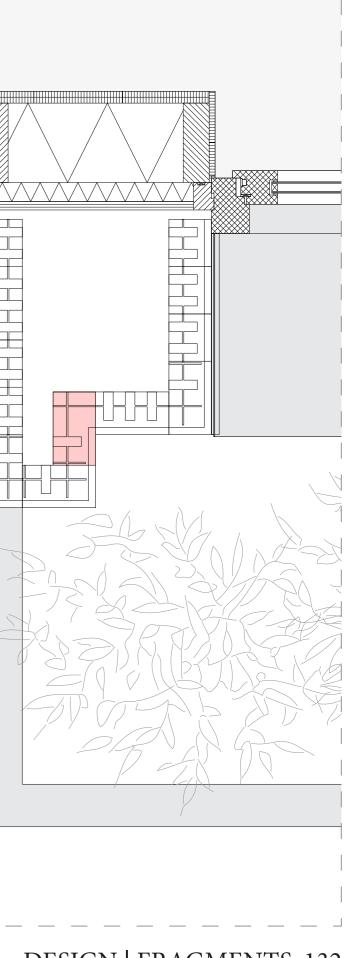


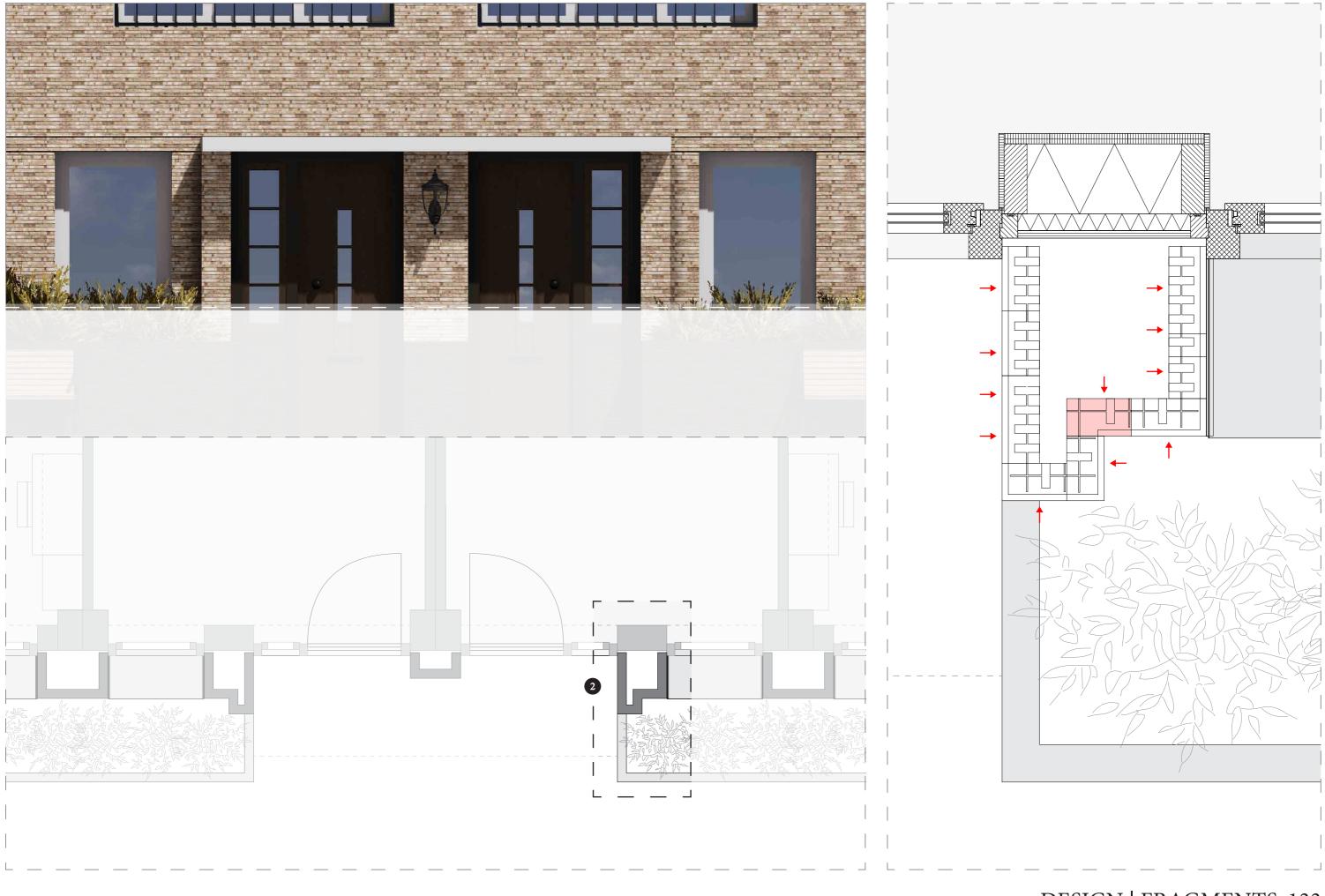
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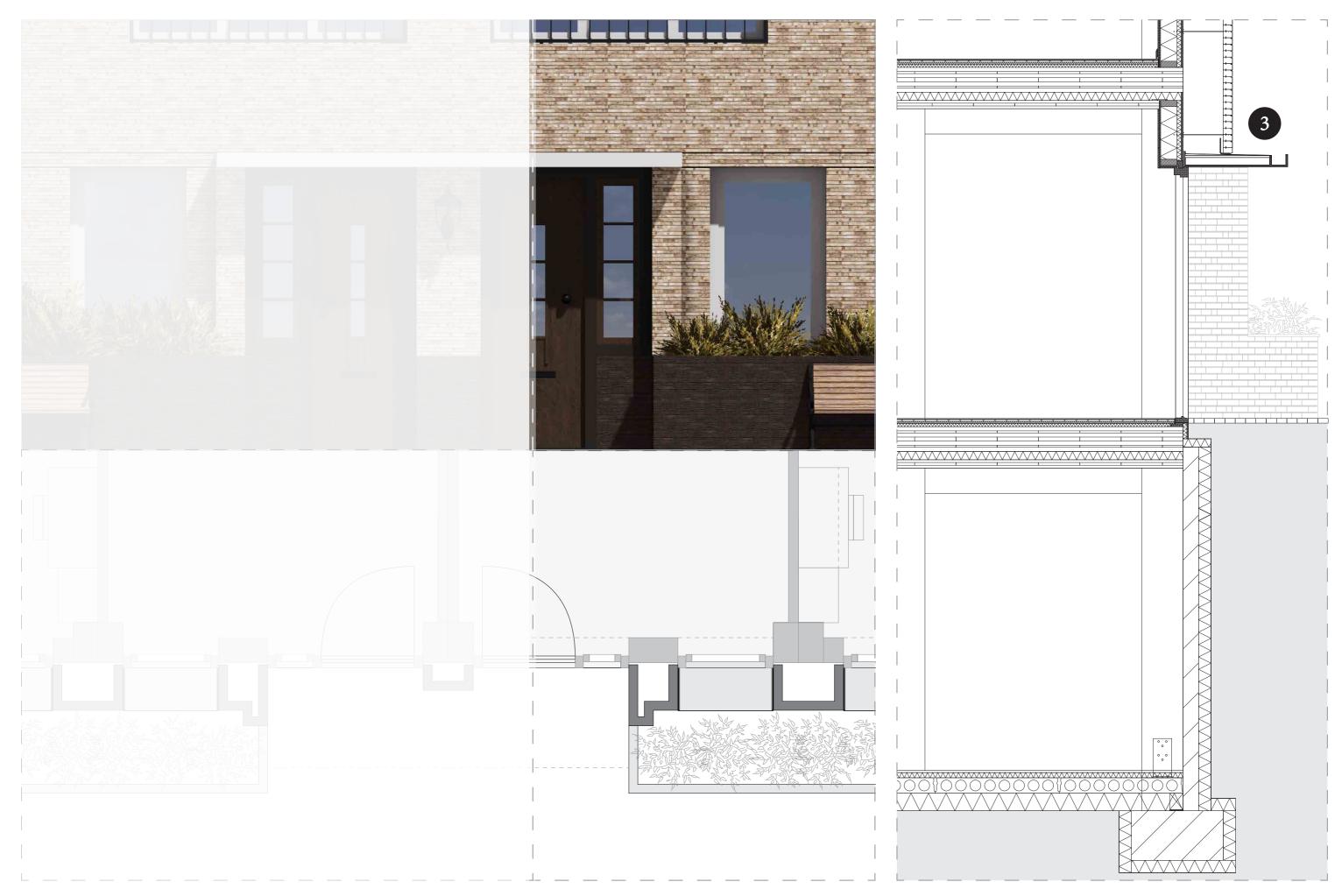


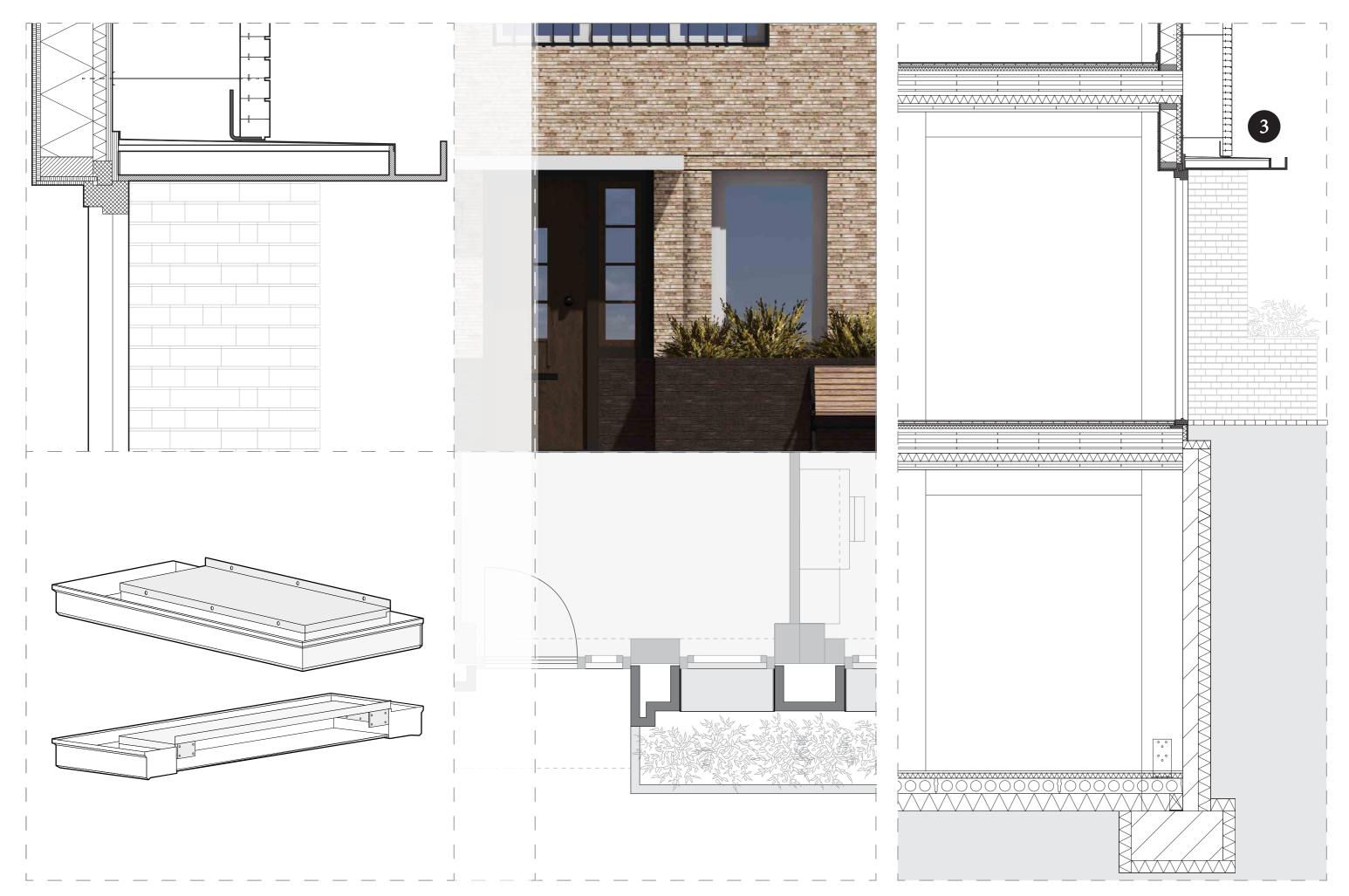




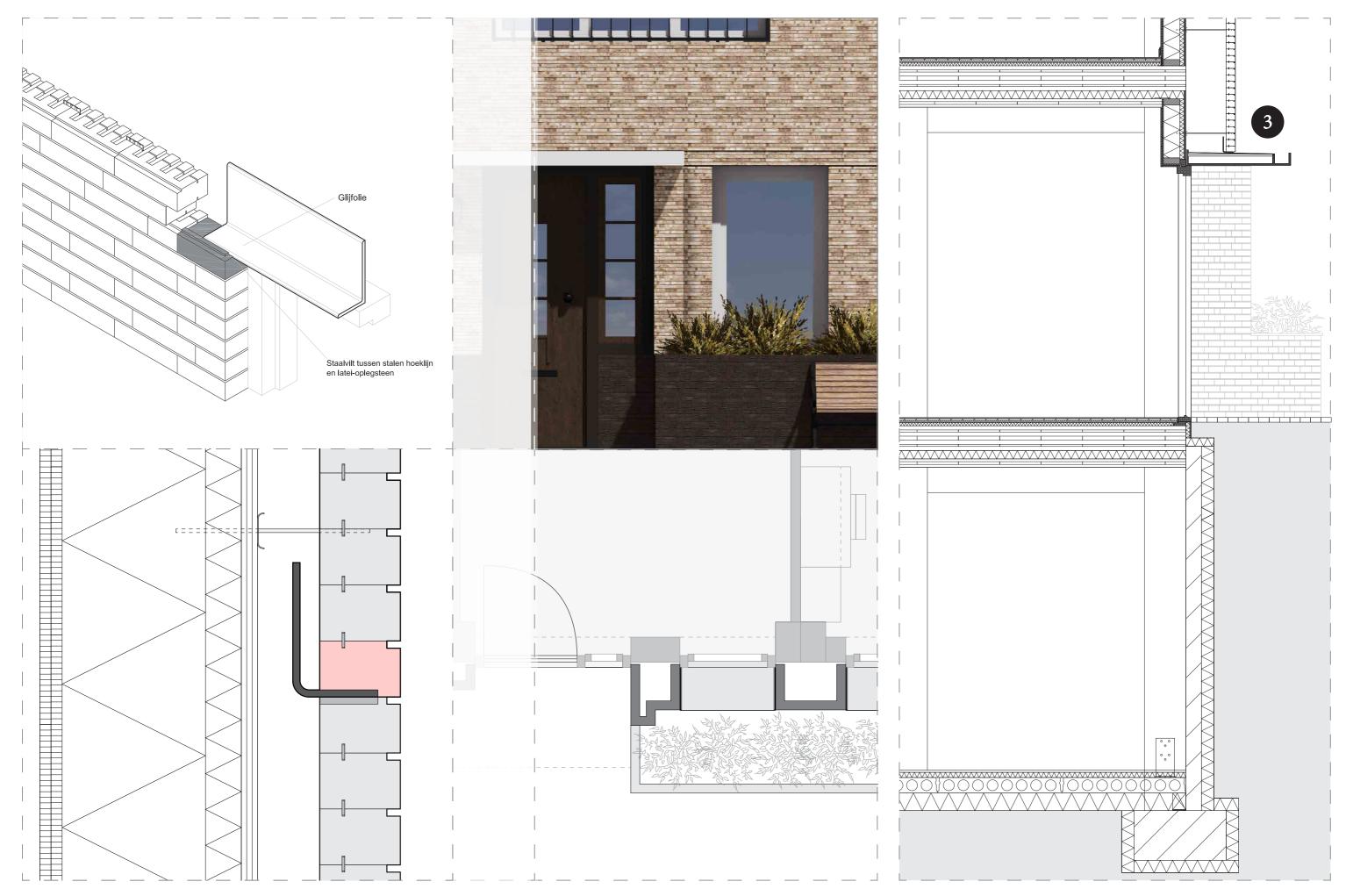




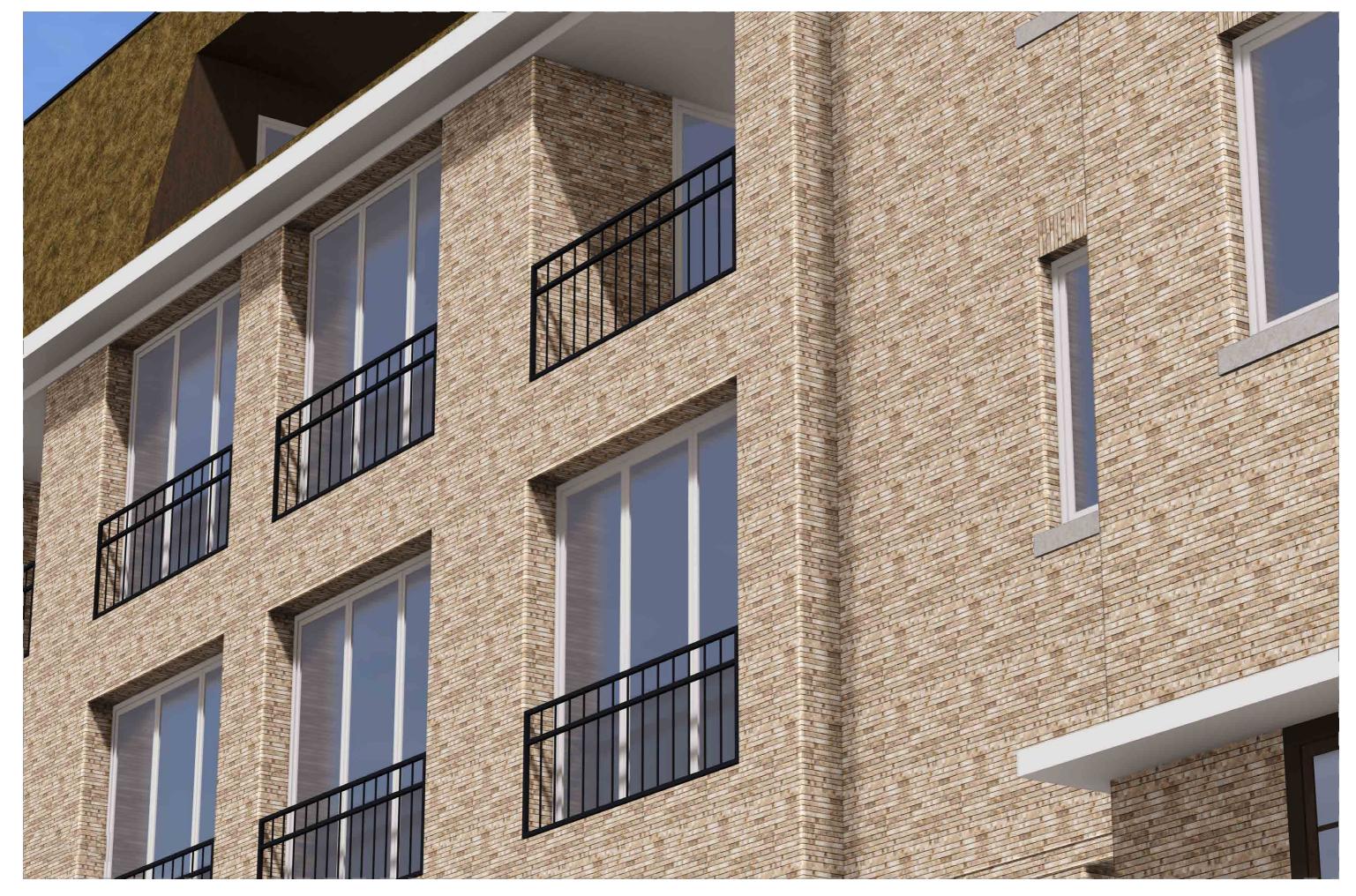




Prefab overhang from Polytech



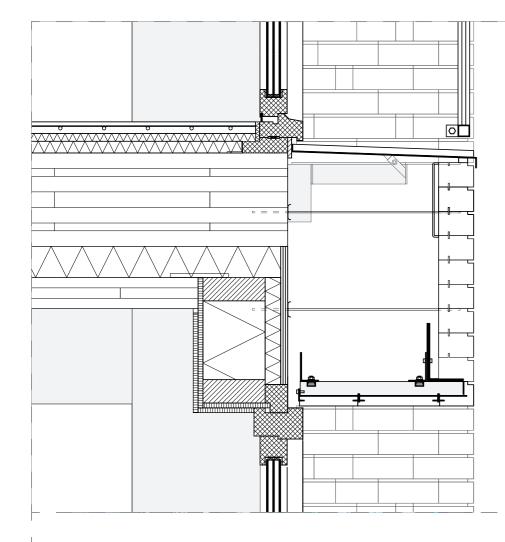




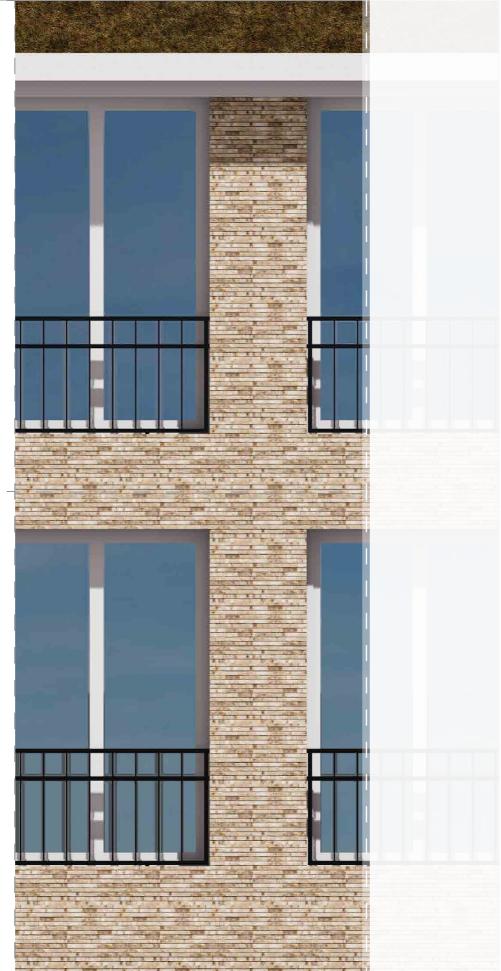


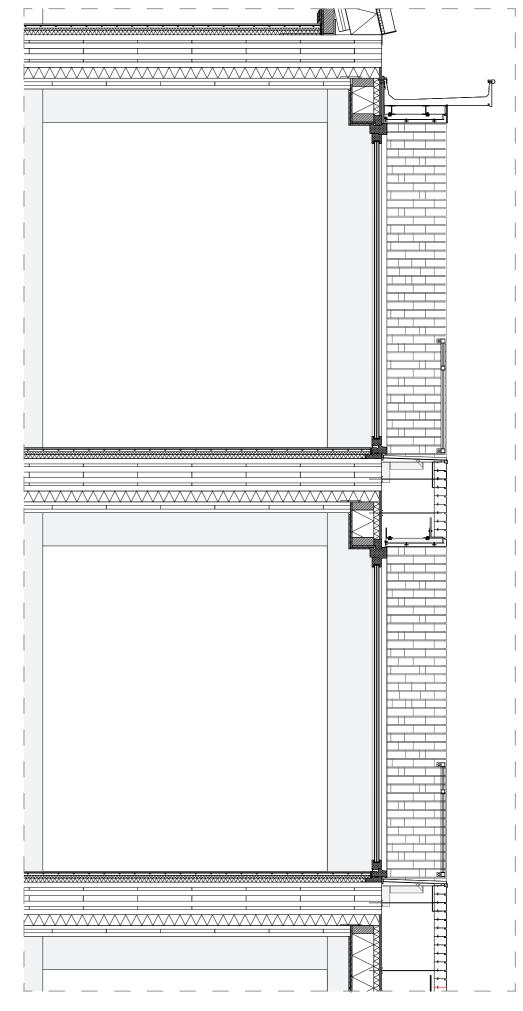


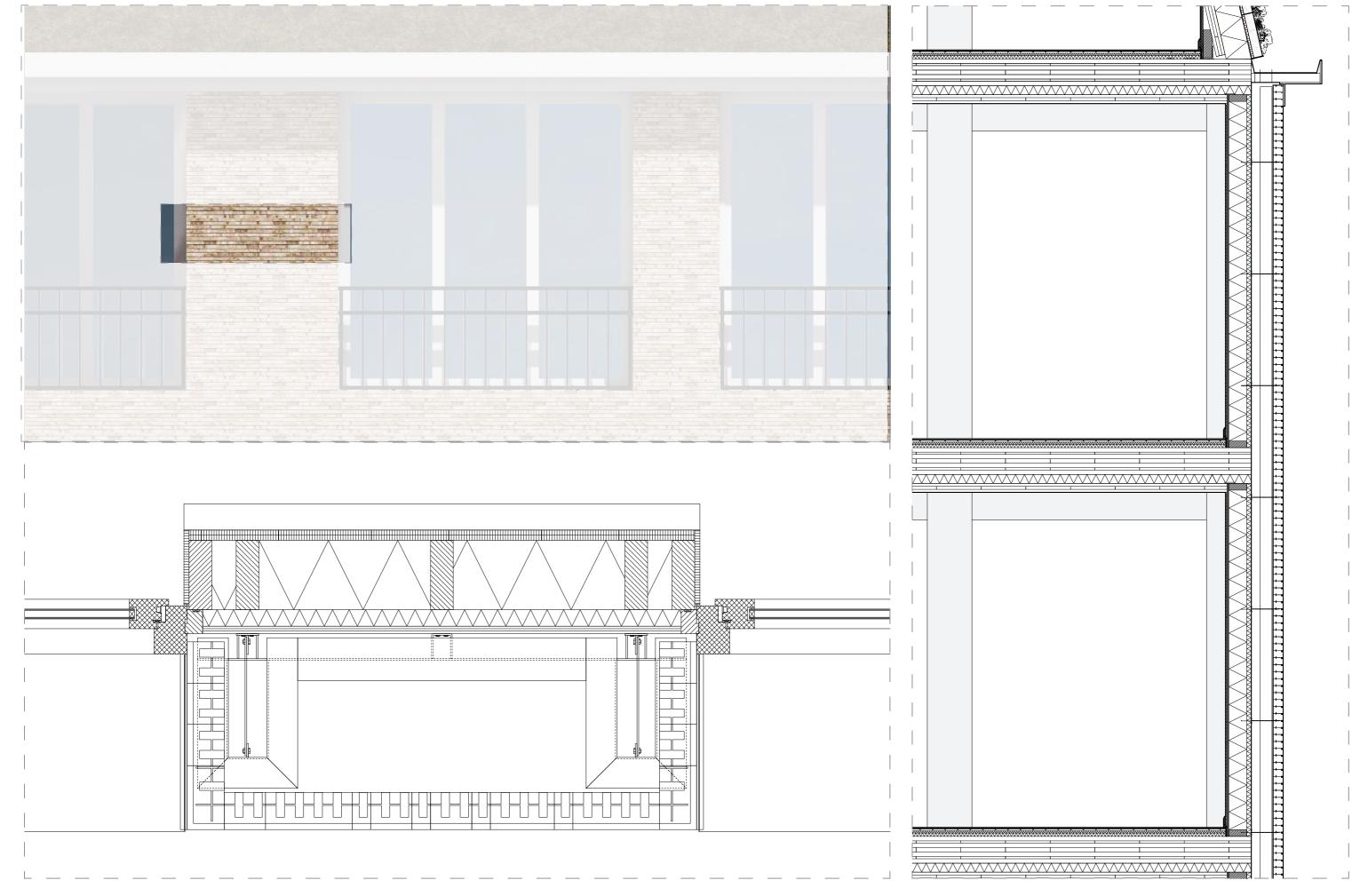














# DESIGN | ADAPTIONS 144



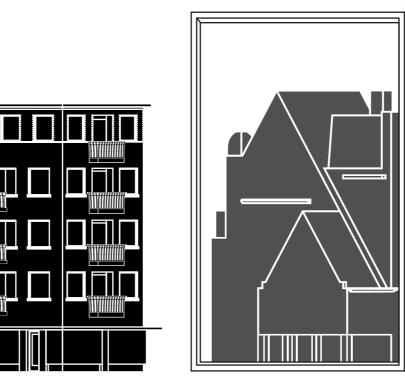
## DESIGN | FRAGMENTS 145





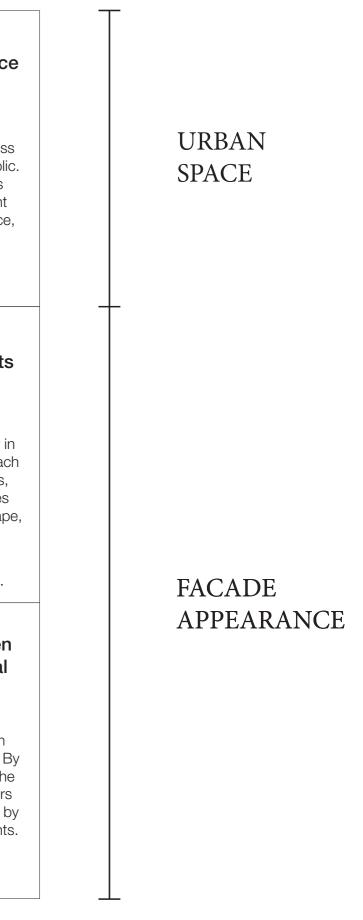
## DESIGN | ARCHITECTURE 147

# 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

## REFLECTION | FURTHER RESEARCH 154



# REFLECTION | FURTHER RESEARCH 155

∢	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>&gt; Hoek R3 &gt; 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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## REFLECTION | FURTHER RESEARCH 156





# REFLECTION | GAINED KNOWLEDGE 157

