

PROJECT JOURNAL

INTERIORS BUILDINGS CITIES MSc3/4 Graduation Studio 2024/2025

By Dilek Zaid I 6078656

Week 2.10. till week 3.10.

Developing the archive "under the sky"

Research questions developed in the following phases addressed through design are:

- How can one display the VAi to the public?
- How to implement the boundaries whilist embracing the potential an archive could represent?
- How can one find a beneficial way to address the existing body and the new?

Important design decision moments are highlighted in certain areas along with solutions presented further

WEEK 2. 10.

P2 Presentation

Q: courtyards. Could you explain the relation between the existing courtyards made by Leon Stynen and your new courtyard?

Q: P1 proposal incorporated. What is the link to the offices?

Q: how does light enter the existing rooms in the Stynen part?

Q: what is the relation of the new skylight to the existing skylights? Don't you think it's a bit short in relation to the existing ones?

Q: what is the language of your new addition when standing next to the Stynen building?

Q: would you say that the open/closed facades could be reinforced when starting with a big opening instead of a short slab of concrete?

Q: would it be an idea to go lower with the ground floor, so that you can stay at the same height when touching the Stynen wing?

REFLECTION

Feedback

Design

- Innovativeness
- Exploration
- Presentation
- Functional aspects
- · Material and technical aspect
- Socio-cultural aspects

Research

- What is an archive? What is the function of the VAi in an architectural culture and within the city?
- Core set of ideas in relation to the research?

- How does the design proposal promote better engagement?
- Be more critical about the shop window design at this location (DeSingel)

Building Technology

- Materiality how would the building appear?
- Ceiling height for insulation?
- Sustaibality approach? (longetivity)



Physical model assembly



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Front facade | East facade



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Leon Stynen connection

Connectivity





WEEK 3. 1.

Individual design Research, Design and Building Technology sessions

Starting with a design concept and extensive research, the P2 Presentation introduces a third courtyard feature where the new VAi depot is located.

Moreover, linking the proposed extension with the existing Beel part as well as the west wing of Leon Stynen the design concept leads to a detailed analysis of the interior in relation with the exterior, the exisitng body of DeSingel and the nex extension, the interior and the surroundings.

Furthermore, a building technology section has been added to implement initial thoughts when it comes to meteriality, technical details along with sustainability. Selected case studies are added in order to contribute to potential visualisations.

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Lexaan plaat



Polycarbonate glass



White concrete



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Glass and steel skylight structure (Archive courtyard)



Het Scheepvaartmuseum Amsterdam, The Netherlands



Passage Tilburg | Octatube, Tilburg, The Netherlands



Koen van Velsen Pathe, Rotterdam, The Netherlands

British Museum, London, United Kingdom





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Individual design Research, Design and Building Technology sessions

The week reflects on developing the extension of DeSingel by reflecting on the feedback given at the P2 Presentation day. The courtyard extension where the archive depot is located represents now a lightweigh steel structure as a mazzenine level where additional storage units can be adapted along with working stations on the ground floor.

In order to protect archive materials a deeper materiality studies are done specifically about translucent glass materials in order to control direct sunlight penetration.





Lightweight structure Important design moment



Perspective section showing interior qualities of the archive depot in the courtyard



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WEEK 3. 3.

Individual design Research, Design and Building Technology sessions

The week reflects on developing a roof structure for the courtyard in relation to the Stynen's facade. The fashion museum in Antwerp, Belgium is used as a leading precedent in order to visualise a potential structure.

On the other hand, various lift options are considered such as dodemonslift and platform lifts (either enclosed with glass or open sectured with railing).

Fashion Museum in Antwerp, Belgium

Platform lift design





Platform lift

Dodemonslift



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Spatial qualities of the archive depot in the courtyard





Courtyard roof sturcutre Important design moment



Axonometric view of the basement depot storage



Entrance lobby







In relation to the existing Leon Stynen facade



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Building technology



Fragment 1:20



Fragment 1:50





WEEK 3. 4.

Individual design Research, Design and Building Technology sessions

This week introduces some changes in the design concerning the archive in the courtyard and the existing facade of Leon Stynen. Now the facade of Stynen is represented as an archive piece meaning the mezzanine floor would be only connected to the edge of the internal corridor.

Moreover, a void is introduced as a suggestion during the weekly tutorials from week 3.3. Visually connecting the archive in the courtyard and the depot in the basement level allows users to entirely consider the new extension as a reconnecting area to the west wing of Stynen.

Additionally, the basement level features some minor changes allowing an airlock to ensure archive materials would go through all the process steps if required before sent to the final area and most critical depot when it comes to climatised conditions. Spatial qualities development | Stynen's facade being an arcive piece



Archive in the courtyad | Mezzanine floor



Basement depot glimpses



Physical models collection







Fiber cement panel



Exterior Wall Installation



Materiality visualisation



Fragment 1:20



Fragment 1:50

Materiality

Structure

- Reinforced concrete and prefab floor slabs
- Interior CLT walls and timber used for the courtyard beams on the roof structure
- Glass courtyard roof

Facade

- Exposed concrete?
- Stone panels?
- Fiber cement board imitate the texture of concrete?



Building technology | Load-bearing structure



Building technology | Roof details



Design tutorials | Airlock



Design tutorials | Void suggestion - connecting the basement floor where materials can be seen



Facade of Stynen becoming an archive piece | Exterior facade becomes an interior facade

Mezzanine floor interfearing with Stynen's facade - further considerations reduce its size Important design moment

Fragment 1:50







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Building technology | CLT floor slab and glulam column connection






WEEK 3. 5.

Individual design Research, Design and Building Technology sessions

The week analyses crucial design features though an architectural and technical perspective. One of the technical details is represented through the courtyard where the exterior facade of Stynen becomes an interior facade of the proposed extension while connecting it.

On the other hand, the street corner identifies the new entrance of the VAi as well as a reconnecting point to the wing of Stynen and a connection to Stephane Beel's part through the core. Moreover, materiality analysis is done in order to produce technical drawings translated into a potential fragment model towards the P3 Presentation.

Lastly, the void element in the courtyard is extended in order to create visual connection from the mezzanine through the ground floor overlooking the physical models collection in the basement floor.



Archiving Architecture

2024-25 MSc3 AR3Al100 Brief 04



'Stynen 2018', Flanders Architecture Institute, 2019. Photographer: unknown

things – whether existing buildings or landscape or both, while also exploring its own scale, proportion, structure, order and materialisation in more detail. The outcome will take the form of a physical model of a fragment of your building and the existing element or elements that it engages, made with an equivalent level of detail and care. The model might include spatial or structural components and more than one surface – for example roof and wall.

The model may be made in any material or technique you wish but should be precise in its form and relationships. It should be supported by drawings of varying scales and projections which establish in the context of your wider project, through a description of the whole, while also exploring the constructional relationships you seek to resolve, through detailed elaboration of the external face in plan and section. The elaboration of the building section will be particularly important in developing the way in which the interiors of new and existing relate to one another. The moment you are looking at should be agreed upon by next week's tutorial with a sketch version of the model completed the week after. The final, photographed version, and its accompanying drawings, should form part of your P3 presentation.

Interiors

Buildings Cities Palace

Archiving Architecture

2024-25 MSc3 AR3AI100 Brief 04



A Difficult Whole

"An architecture...able to admit the paradox of the whole fragment: the building which is a whole at one level and a fragment of a greater whole at another level...It is the difficult unity through inclusion rather than the easy unity through exclusion."

Robert Venturi, The Obligation Toward the Difficult Whole, in: Complexity and Contradiction in Architecture

Confronted with the messy realities of the contemporary city, engaged in fragments of the past and addressing the uncertainties and challenges of the future, the thoughts of the American architect Robert Venturi on the possibilities of the difficult whole, written half a century ago, continue to have resonance. Beyond the, sometimes failing, formalities manifested in the work of Venturi and Denise Scott-Brown, it might represent the possibility of a negotiative architecture: one that looks outwards with a welcoming gesture, which enjoys what it finds; which searches for wholeness, rather than unity; which is open and political and has agency.

De Singel Antwerp might, on first glance, be considered a kind of unity – the different phases built under Léon Stynen and Paul Demeyer – but in reality it might be considered the embodiment of the difficult whole of which Venturi speaks, expressed in its urban situation, away from the City of Antwerp, adjacent and

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Stynen Scaled, Flanders Architecture Institute, 2019. Photographer: Jasper Leonard

set between the most important traffic arteries of Flanders; in the radically different architectural expression of Stéphane Beel's additions; in the current interior transformations that are taking place without an architectural vision; in the vacant rooms spread throughout the building complex. Stepping beyond it, the relation to two other Stynen realisations in the immediate area, constructed with the same or different techniques, or an echo to the now lost picturesque landscape – in the courtyards, the realisation of a triangular pond and a solitary tree planted at the entrance - can all be understood as fragments, whose disjunctions and tensions elaborate on this complex whole, as well as offering both qualities and challenges to the ways in which it is experienced.

Your project will add yet another new fragment or fragments to the ensemble. Through this brief we would like you to begin to explore the creative tensions in the moments where things meet through volume, ground, façade, colour, material or composition for example.

"The building is in the stone." Martin Heidegger

This brief asks you to think at the scale of the fragment in a more traditional sense, elaborating in detail upon a moment where your project must negotiate its relationships with other





Potential fragment view | Extension connecting to the existing facade of Stynen



Current design version of the courtyard introducing the void overlooking the basement

The void could be enlarged Important design moment



Building technology | Structural connections | Basement made of concrete and upper strucutre of CLT and glulam



CLT panels and glulam columns connections | Concrete and CLT connections

Introducing glulam and CLT for the structure Important design moment



Roof detail | Existing and proposed structure connection





WEEK 3. 6.

Individual design Research, Design and Building Technology sessions

During week 3.6. design decisions are made in terms of materiality and structure - the basement is made of concrete in order to provide the climate conditions needed for an archive depot and the upper structure consists of kerto ripa floors to achieve spans up to 10m and CLT walls as well as glulam beams.









Basement Floor Structure





Building technology tutorials | Old and new structure attachment | Roof a as cantilever on top of the existing roof

Facade structure | Fiber cement boards attachment on aluminium plates











WEEK 3. 7.

Individual design Research, Design and Building Technology sessions

The week reflects on detailing a fragment of the proposed extension to Stynen's west wing by cutting a section through the new entrance where a detailed connection of the new and old building is. Moreover, details in scale 1:20 and 1:5 are represented to show not only structure connections but also materiality and potential spatial qualities.

Furthermore, another iteration of the floor plas is made to impove fire escape routes as well as connectivity within the new and old building.

Lastly, a potential entrance nook is created to enhance the facade rhythm of Stynen - solid, glazing, and by creating the nook opens up highlighting the openness





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Axonometric fragment drawing





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WEEK 3.8.

P3 Presentations



The week enhances a series of drawings which are used during the P3 presentation to support my narrative. The drawings include additional iterations of the floor plans, perspective sections as well as visuals highlighting key areas of my design proposal.

The design features an extension of DeSingel connecting the west wing of Leon Stynen and a bridge connection to Stephane Beel replacing the ramp. As a result, the design leads to the core idea of expressing the facade of Stynen in the courtyard where the archive working stations are overlooking to the lower floor where physical models are displayed. Thus, Stynen's facade does not just become an interior facade but also a key element in the archive.

In addition, two physical models are used in this presentation - a fragment model in 1:33 scale and a 1:200 model to show visual connections within the site. Lastly, a brief analysis of facade materials is done as well as some key elements are shown in the fragment model.



P3 FEEDBACK

- Roof gesture – continuation of Stynen's raised ceiling – does it work?

- Your building is the frame of the courtyard, the courtyard is the core of the project

- The façade just carries on, allowing Beel to float on the extension as a continuation of Stynen's wings, the façade then makes the outline of the courtyard

- Use your 1:33 and 1:200 models as a way to test the massing, look at them and realise there is a need of a potential change

- Can you make the opening on the floor even bigger?

- Project is clear, drawings are clear

- Roof beam seems to visually slice on top of Stynen's façade

- Roof can be flat, have the same thickness in both directions

- What is the character of the roof that you need/want to achieve

- Space planning is more important than secondary plannings such as restrooms, etc















Dilek Daniel: "ah! could you put the facade in the right place?" questions about the little hats, the higher preces of ROOP dok a bit random, generic building is the your courtyard facade just carries on, and makes the outline for the then courtyard to test use your model as a way models. See it and rea to change you need Som you make the open an bigger? gloor even Daniel: project is really clear drawnas lar · roof bram seems to visually slice of the Styren the top ROCT can be + , have he same at the ss both directions 18 re character of the root Nou neor wants



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A THU P AP 8 x* 3 Daar @ Delft University of Technology Hipten Arcart () View O ALLLLLLLLL TQT Feedback Dilet: - Maybe raise the carlyard roof to the terel of both 'hets' on par cope root. - Are the 'hats' actually convicing? to They might be districting from the very clear volumes that remain · Decensider the Structure of your courtyard roof Lo Consider the visual effect of the Gruture The edge isn't the core of your design, the cartyred is,
P3 Presentation reflection Reflection Notes General feedback

Materiality, look feel and of interior. meaning the of the largrelation to scale in the façade er Changes you make affect other spaces, whether existing-within the existing body of Stynen, Beel or your proposed extension, new home for the VAi. As a result, you are interfering with the new body into the existing Negotiation of spac-- new façade touching es the old Visual relationship and materials are the core stages at this moment If possible, use what is existhow little can I possible build? ing, Is it just a VAi or VAi with other functions (in case you are not interested in archives, can you still go in there? What else is there to do? What does your extension propose and contribute to the Art Campus of DeSingel?) -What type of architecture elements using? are you

List of products to develop

Design

- Update Floor Plans
- Update Perspective Section
- Create more vidual quality drawings
- · Minimize mezzanine floor
- · Open up the void in the courtyard

Building Technology

- Produce 1:5 detail
- Escape routes
- Add an elevation to the detail 1:20

Schedule

Pre P4 - Week 4.3 - 08/05/25

P4 -Week 4.5 - 23/05/25

P5 - Week 4.10 - 18/06/25



WEEK 3. 9.

Towards Pre P4 Crits

The weekly design reflection identifies an iteration of the mezzanine in the courtyard which becomes a unit in the corner connecting the edge of the façade of Stynen. The railing element mimics the façade by replicating the beam and the columns within the windows of Stynen.

Environmental strategies start to establish certain climate qualities as the depot of the VAi sits around the courtyard. In relation to it, the void overlooking the physical models offers shelving on wheels for easy mobility and relocation in terms of transportation. In addition, shading element fabric is added to the glass roof in order to control direct sunlight and protect the archive workspace from overheating.

The careful roof structure consideration allows a certain grid system to frame cassettes where glass panels are inserted. The shading fabric is also integrated within its own frame which is hung on the beams of the roof structure. The ventilation ducts are then placed underneath, also hung on the beams.







Project Journal





"Curtains for the sky"



Zentrum fur zahnmedizin in Zurich





Entrance gesture | Representing different stages of development | Existing wing of Stynen and new extension

Case study refleciting on corner qualities of an introducing an extension to an exising area



Courthouse extension | Restoration of Asplund's Gothenburg City Hall

ETFE roof | Cushions





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Glare protection



systems for glare protection, we

Blackout
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Sun protection

Our systems guarantee perfect sun protection





Front facade development | Opening up the main entry point

Old facade visualisation



Building Technology tutorials reflection



big entrance Feedback BT · Shading - courtyard? gets wated quitequire . Fire espots escope - through existing building

- · Hesting- floor heating radiators?
- · Air, vertilation air quality, firsh air, ducts? Drow a diagram an a perspective section (climate design consult)

Building technology feedback

- Rood arechnings on styren and my roof raise the roof ~ windows around + insulation + bechinen
- Blass cushions inflate air, pump constantly
- Shoding -> glass beam stading, plastic ? res + fabric springs * Entrance quality double heigh - Shading



P4 devirables



Management in the Built Environment

P1	
:	Presentation of P1 report with concept research proposition Draft graduation plan according to template
P2	
:	Graduation plan based on template <u>(see student portal – forms AUBS)</u> Presentation P2 report with: (a) a description of the working method for answering problem statement and re-search questions and (b) report of literature examination.
P3	
:	Draft reflection (see paragraph 1.3) Presentation P3 progress report: Which (propositional) conclusions are to be drawn from the (empirical) research and what should be done to successfully complete this process in time For details see appendix 2
P4	
:	Presentation P4, final report (=P5 final report 99% completed) Final reflection based on template (see paragraph 1.3) Report with appendixes for detailed information. Eventually action plan, computer model, checklist of other tools, published separately and refer to this recognizable and accessible in the final report
P5	
•	Presentation P5 final report including possible action plan, computer model, checklist of other tools.

Preparation P4

- Check whether your main mentor registered your P4 application in Supersaas. They can use this programme to determine an available P4 date with you, your mentors and delegate of the Board of Examiners and register your P4 application.
- Send P4 products to mentors and delegate of the Board of Examiners: at least 1 week for P4 date,
- Send final reflection to Board of Examiners, mentors and delegate of the Board of Examiners at least 1 week for P4 date, For tracks: Urbanism, Landscape Architecture, Building Technology and Management in the Built Environment. Upload P4 report on Brightspace plagiarism scan at latest one week before P4.

Day of your P4

- 15 minutes before start presentation, hang design or project drawings and if applicable install digital presentation
- Present research result / graduation project and reflection using digital presentation and drawings (see appendix 3 for exact definition for required products for this presentation)
- After a successful P4: definitively determine P5 date and preferred daypart or timeslot with your mentors and delegate. Your mentor will register this.
- Determine whether embargo on graduation work is desired. If yes: Apply a request: see <u>Forms</u>.

Personal Reflection Summary

The P3 Presentation frames a crucial moment in my design which reflects on certain design decisions made in order to represent the core idea of my proposal. Towards the Pre-P4 Presentation I will be strongly reflecting on three key aspects – connection to Stynen's façade where the façade is framed as an archive piece, expressing a lightweight roof structure where the archive is "under the sky" and the corner where the grand entrance is. To break down those three concepts I would like to reflect into more detail to enhance the chosen qualities.

First of all, in order to express the existing façade of Stynen, I would like to frame my building around it, hence my secondary functions are situated in proximity, around the courtyard.

Second, the roof is a key element in my design which overhangs on the façade of Stynen meaning that the main structural support is in the columns within the archive. Furthermore, the roof is raised to achieve a visual connection to the raised roof elements in the entrance wing of Stynen.

Lastly, the entrance is the moment of architectural reflection when it comes to representing an addition to DeSingel. Whether to represent one unity or an addition imitating or complimenting the existing body of Stynen's wing, I would like to create a visual distinction by bringing my front façade where the entrance is forward by 1,5 m allowing users to understand the different development stage of DeSingel. As a result, the new addition is perceived as a whole wing/façade extension with a floating element of Stephane Beel. List of products

Schedule till P4 Presentaiton

Week 3.10. - Roof structure, entrance element, P4 Narrative and Reflection BT - elevation of the fragment 1:20

Week 4.1. - design consult and set of drawings showing key qualities BT - 1:5 details and environment diagram

Week 4.2. - Start preparing a CAD lasercut file and start building BT - detailed drawings

Week 4.3. - Pre-P4

Week 4.4. - Reflect of Pre-P4 feedback

Week 4.5. - P4



Towards Pre P4 Crits

The weekly design is based on developing details in the courtyard focusing mainly on the roof structure and building an architectural language between the existing facade of Stynen and the proposed archive in the courtyard. The following four topics are disctussed during the weekly tutorial sessions with my design mentor:

-Roof structure when it comes to collecting water and providing space for gutters (previously being focused on raising the roof by using bigger beams). Maybe going back to the fashion museum in Antwerp roof reference would be beneficial; -Type of glass used for the roof structure do you use transparent or translucent? Do you see the sky, the way it is? Do you see it blue, light blue, dark blue, what shade? Test out the types of glass around and find out what fits your design preference; -Preferably the shading elements will be added on the outside in order to protect from overheating, when placed inside the direct sunlight penetrates inside and it overheats; -Test out options for the mezzanine stairs





Archive working stations in the courtyard without shading elements



Archive look & feel



Design elements library



Entrance gesture



Willibald Gluck Secondary School, Germany

The "Scientific Park" in Gelsenkirchen, Germany



Motor-driven textile sun protection - Product name - Shadow Mini Top Außenanlagen Gegenzug





Basement floor overlooking the void in the courtyard with glimpses of the depot through glass doors

One direction beams are now bigger in order to raise the roof to allow water collection along the edges(see next page)





Beams in red providing a slope for water collection - 500x300mm, non-highlighted beams 300x300mm



In the previous design there was an interior shading to protect from overheating

Now filtered glass is used to prevent direct sunlight to penetrate and overheat







Visual relationship with the existing facades



Sketching initial thoughts when receiving feedback





Drawing a detail 1:20 in more detail to illustrate the extended roof on Stynen's roof

Research question

How can one establish a new home for the VAi considering its existing state of the depot in the city of Antwerp?

Do you fulfil the mission of the VAi by focusing on what is there and connect a new body with its existing one or do you completely develop a new strategy?
 How to prioritize users and functions?

- What meaning do you want to achieve? What is the identity of the VAi in relation to past, present, future?

Personal architectural approach

This year, the graduation studio Interiors Buildings Cities focuses on developing a new home for the VAi (Flemish architecture institute). The brief introduces the Art campus of DeSingel which resembles a crucial connection to the VAi, and its current depot located in the city centre of Antwerp, Belgium. The scope deviates in three different directions – working within the existing body of DeSingel, working in proximity or completely developing a self-standing building.

The academic research begins with gathering information about archives focusing on multiple case studies ranging from sterile types such as the CCA in Canada to display archives of Herzog & de Meuron in Switzerland. The initial brief "Looking carefully" organizes a collective work of assigned archive institutes to be developed into a physical model of a key space. Being part of the group working on the "Kabinett" I had the opportu-

nity to analyse a careful distinction between archive typologies which led to the next stage of my design approach. As a result, by replicating a picture of our physical model of an existing photograph, I was strongly fascinated by how quickly the human perception changes when it comes to imagining an archive process to physically experimenting it. Moving forward, the following chapter develops an understanding of archive prototypes enhancing human interaction within public, collective and private realms. The brief results in a physical model as a product of the information gathered during a site visit at the VAi where archive materials are collected. Moreover, a visit to DeSingel takes place in order to introduce initial thoughts and experiences of the following stages throughout the academic year.

Towards my P2 Presentation, decision making is one of the crucial parts of my design development. By prioritising spatial elements in my design and integrating building technology, the design proposal shifts in several aspects. By allowing more focus into the courtyard feature, the secondary functions are adapted into an outer layer of the courtyard. As a result, the design represents a continuation of the existing west wing of Leon Stynen and it allows Stephane Beel to "float on it". The archive in the courtyard enhances the relationship between the existing west wing of Leon Stynen where the exterior façade becomes an interior archive piece.

Moreover, the void extends by allowing the grand opening to overlook the physical models collection in the lower floor. The mezzanine then offers a lightweight system with additional shelving and seating and desk space by optimising the use of the railing which creates an illusion of a continuous façade of Stynen. By doing so, the archive does not just fulfil the mission of the VAi which is to be seen by the public, rather than being situated in an enclosed box, but also activates the use of DeSingel by implementing additional programme connecting the existing body of Leon Stynen and providing a new entrance to Stephane Beel's part.

A building technology section takes another crucial step in my design decisions when expressing interior and exterior. By testing various methods I conclude that due to the existing around floor of Stynen's wing being only 2.3m and the upper floor 3.3 I am then challenged to propose a feasible analysis to provide connection between my extension and Stynen's wing. The result lays in providing a new topographical study resulting in a developed landscape sloping down to the new entrance and potentially excavating an entrance bit to Stynen's wing where I can build a ramp to bring my floor to the same level (my floor 2.8m and Stynen's 2.3). It is a tricky moment whether to find a solution between the height differences or to keep Stynen's wing without a connection. However, as connecting Beel and Stynen is one of the main aims in the initial stages I am able to provide a solution as described. Another building technology issues raise when providing escape routes from the basement level, considering 25-30m fire escape distances. Currently, the solution is to allocate a fire staircase leading to Stynen's wing opening up a new fire exit to not penetrate within the courtyard.

A 1:20 drawing represents crucial details when connecting the new extension to the existing façade of Stynen and the roof cantilevering on the existing roof. Axonomentric drawings are then used to represent the structure of the roof allowing it to cantilever on top of the existing roof rather than transferring load on it. The roof then results into a lightweight structure "lifted" with a filtered glass to prevent the courtyard from overheating. Moreover details 1:5 contribute to certain design decision explanations showing main elements in my architectural approach.





Environmental section illustrating thermal comfort strategies

Ventilation type D is used in the courtyard



SOURCES

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