

### MILANO STUDENT HOUSING

MSc Building Architecture

Politecnico di Milano

Project Type - Highrise, Residential

Location - Scalo Farini, Milan, Italy



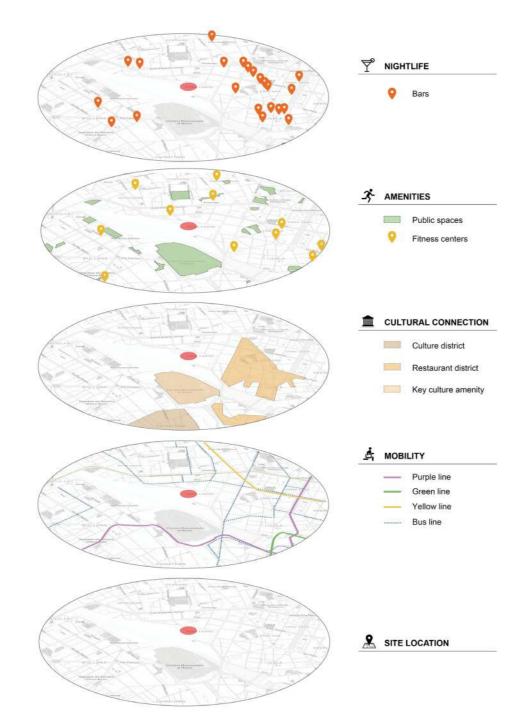
### CITY ANALYSIS

#### **CONTEXTUAL OBSERVATIONS**

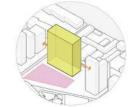
The objective of the project was to design a student housing facility to host 500 students and encompassing an approximate area of 12.000

The project includes the design of public spaces, both outdoor (square, paths etc.), indoor spaces (public functions like shops or others into the building) and also anundeground connection to the underground metro lines.

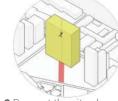
The student housing is integrated within one of the masterplan's scenarios defined by OMA's and Laboratorio Permanente's winning proposal for the competition for the area called Scalo Fariniand titled AgentiClimatici.



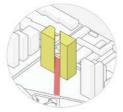
#### DESIGN CONCEPT



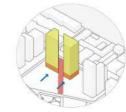
1.According to the surrounding, Need a high-rise building here.
Parallel to the street.



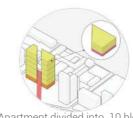
2.Respect the city planner Keep the street.



3.Divided by road.



4.In the lower part, one is for students the other for citizens.



5. Apartment divided into 10 blocks. Each block has one layer public area.

Moving position



6.Two parts are connected with bridges..

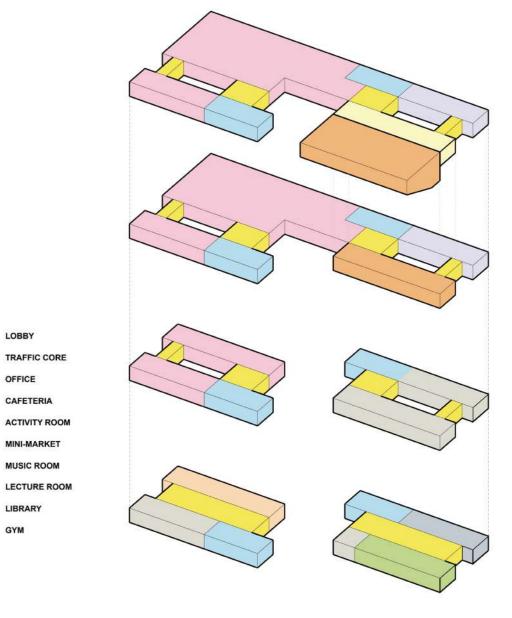


Northern square for entrance Southern for subway entrance Main entrance and structure of the auitorium.

#### **FUNCTIONAL DIAGRAM**

OFFICE

CAFETERIA



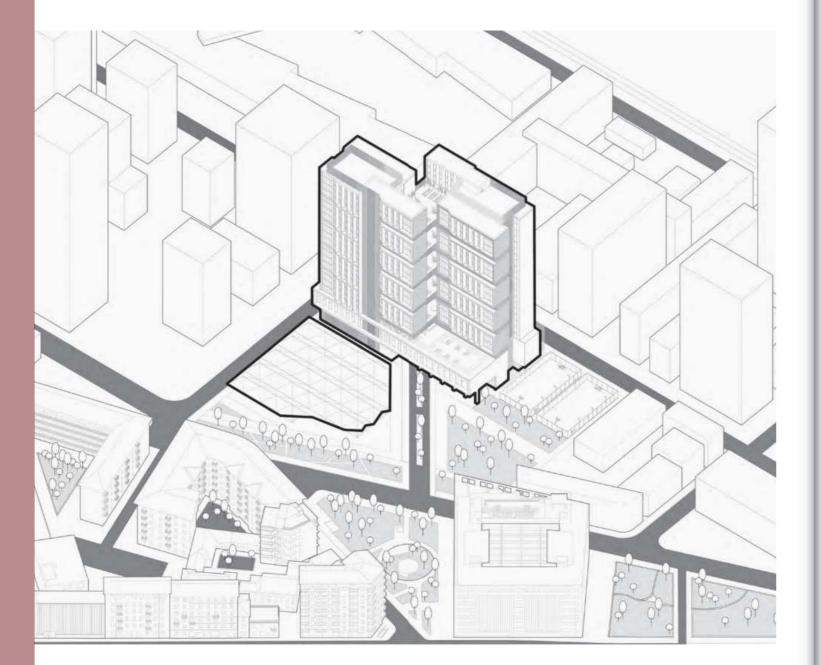
### SITE & CONTEXT

Within the masterplan, we have selected one of the two sites included in the perimeter of the

"Scalo Farini" proposal that operate as entry gates to the new system

The site is 21,548m2 large, out of which 13,780m2 is the buildable area, due to the underground railway shaft

The building responses to the existing, as well as the proposed contextual morphology, by extension of pathways, parks, and the positioning of public ameninties.

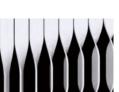


## MATERIALS



ROOMS FACADE ELEVATION





PARAMETRIC LOUVRE SYSTEM





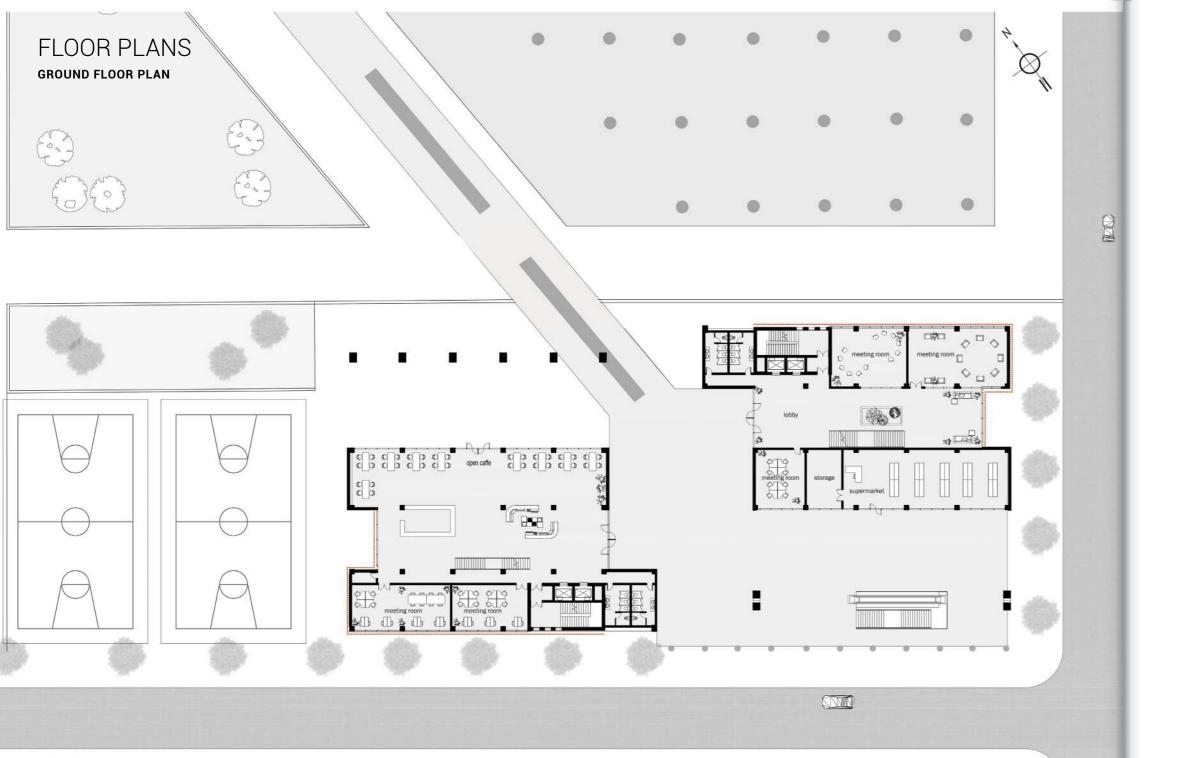
BIPV SYSTEM





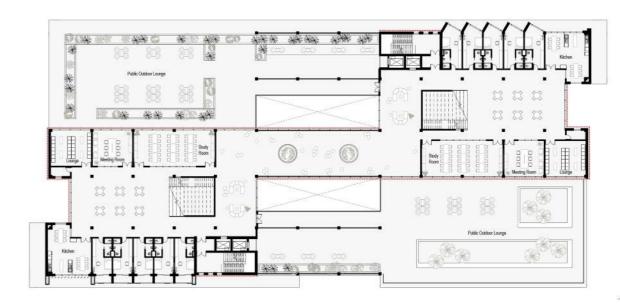
FIBRE GLASS REINFORCED CONCRETE







**2ND FLOOR PLAN** 



**4TH FLOOR PLAN** 

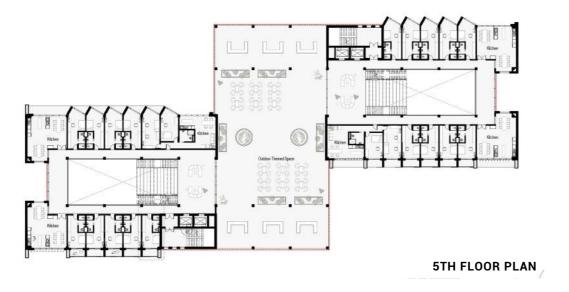


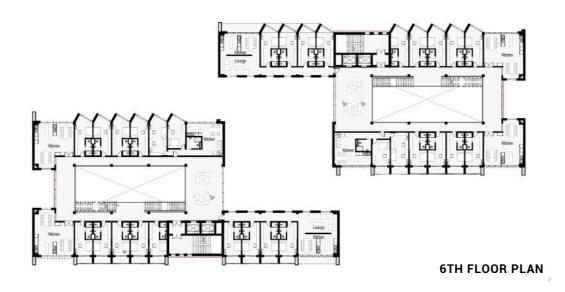
### FLOOR PLANS

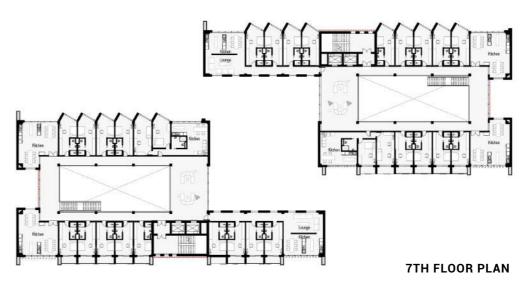
The building is characterized by two distinctive facades. Solar panel facades on one side for generations of energy and reduction of emissions. Angular facade on the other for optimization of solar gain, based on our solar analysis.

The project comprises of 10 students blocks (2 stacks of 5), each containing an average 50 students. The blocks are seperated by an open air platforms, designed for extra curricular activities, and enabling better student interaction and welfare.

The public spaces at the bottom hosts spaces like theatres, libraries, shops, and a connection to the railway station. Circulations is meticulously divided, such that entrance to the student halls is isolated from general public circulation.

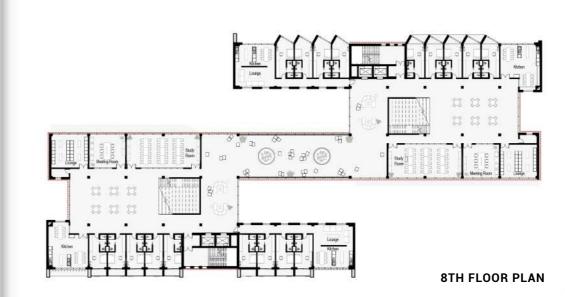








CAFE AND PUBLIC LIBRARY

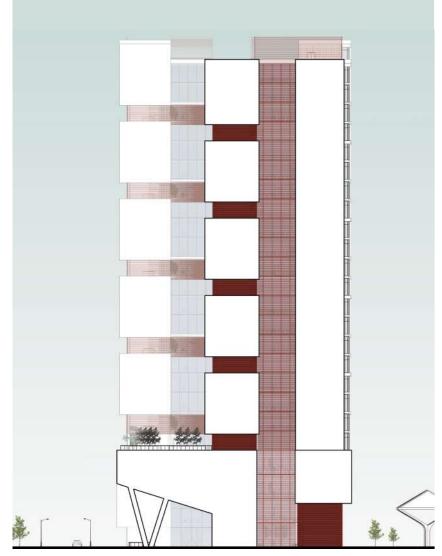




COMMON AREA - SINGLE BLOCK

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# **BUILDING SECTIONS**



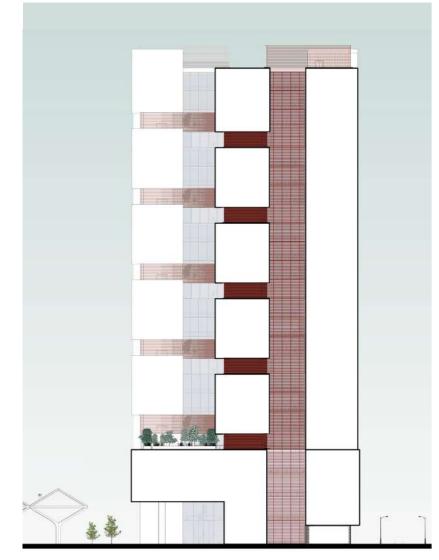
WEST ELEVATION



SOUTH ELEVATION



## TO MIL INCIMUS. HEVVFHH



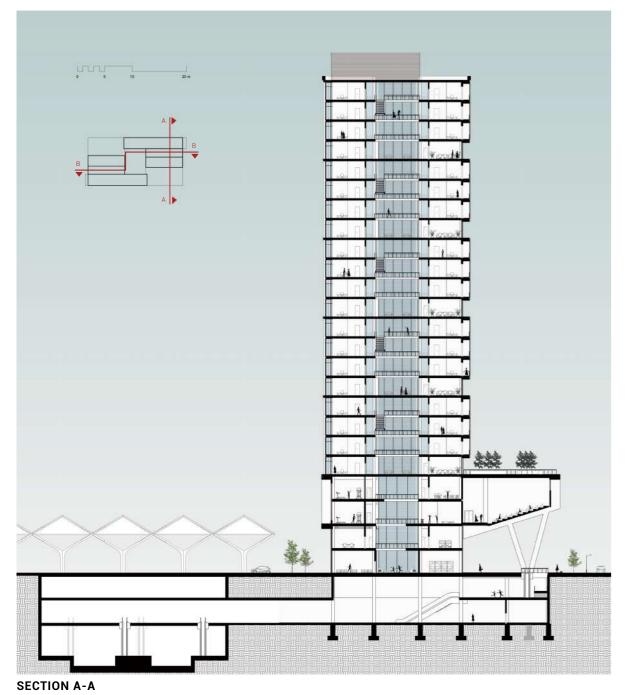
**EAST ELEVATION** 



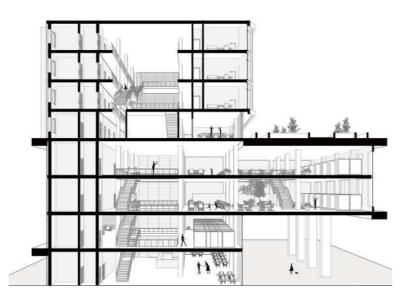
NORTH ELEVATION



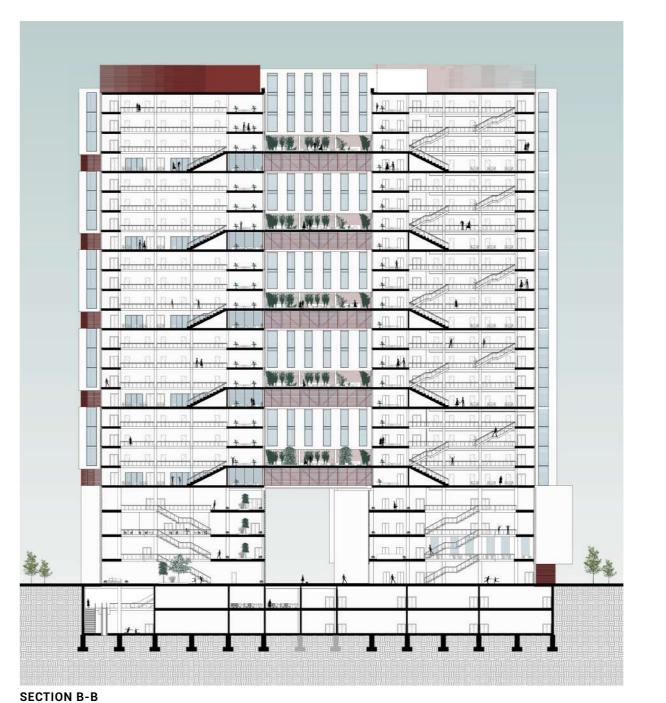
## SECTIONS

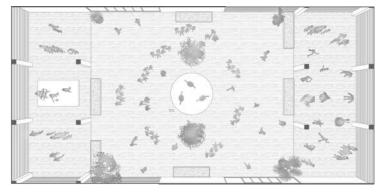


SECTIONAL PERSPECTIVE 1



SECTIONAL PERSPECTIVE 2





SHARED PATIO - BLOCK 01

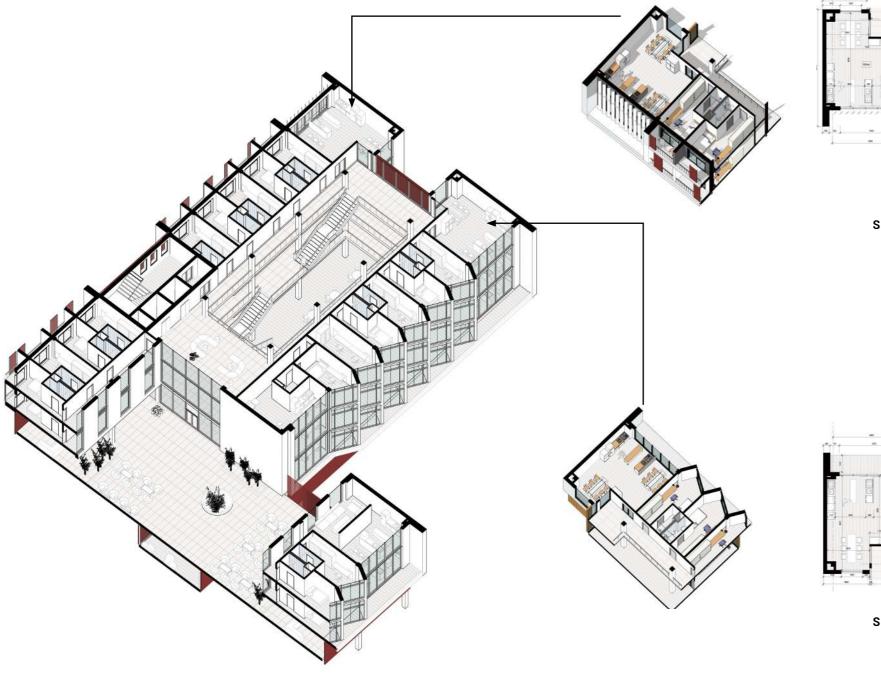


SHARED PATIO - BLOCK 02



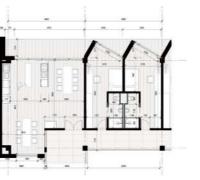
SHARED PATIO - BLOCK 03

# AXONOMETRIC VIEW





SINGLE ROOMS SET 01

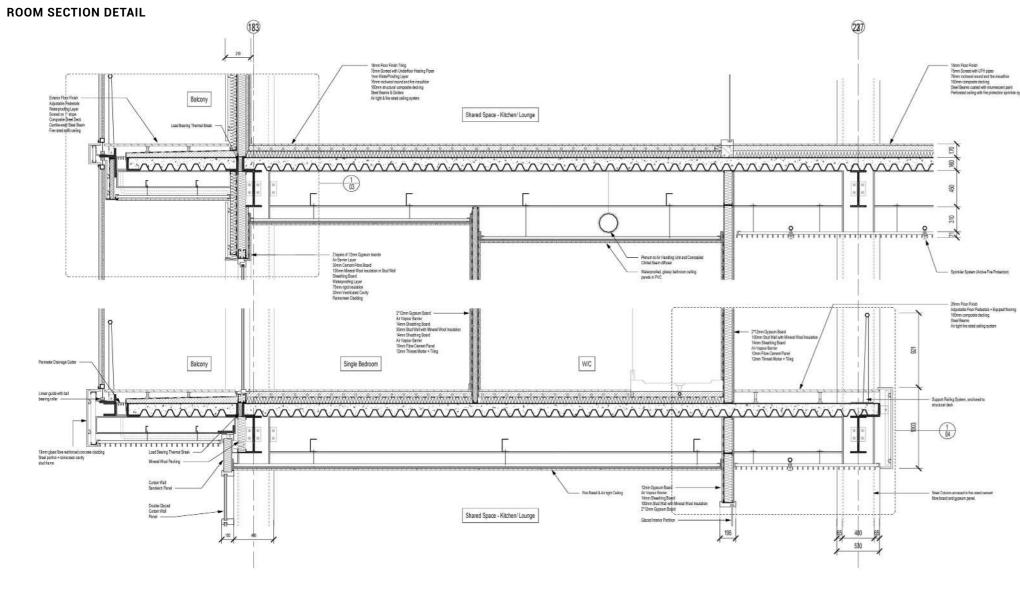


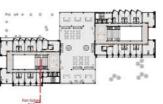
SINGLE ROOMS SET 02



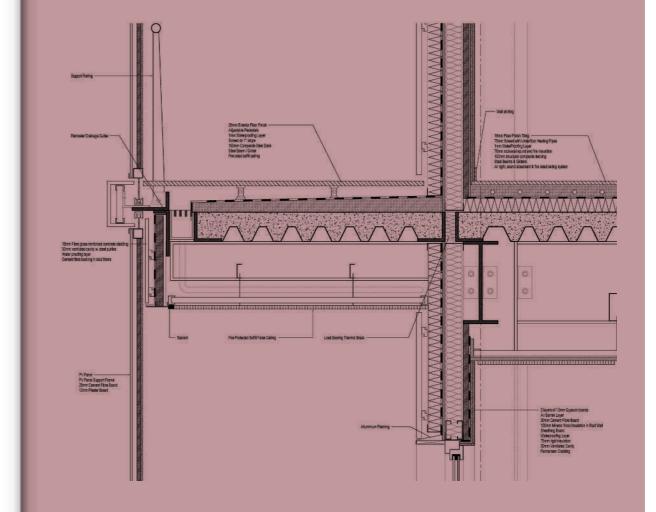
## DETAILS

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#### **ROOM SECTION CALLOUT DETAIL**





BLOCK TO BRIDGE PLATFORM

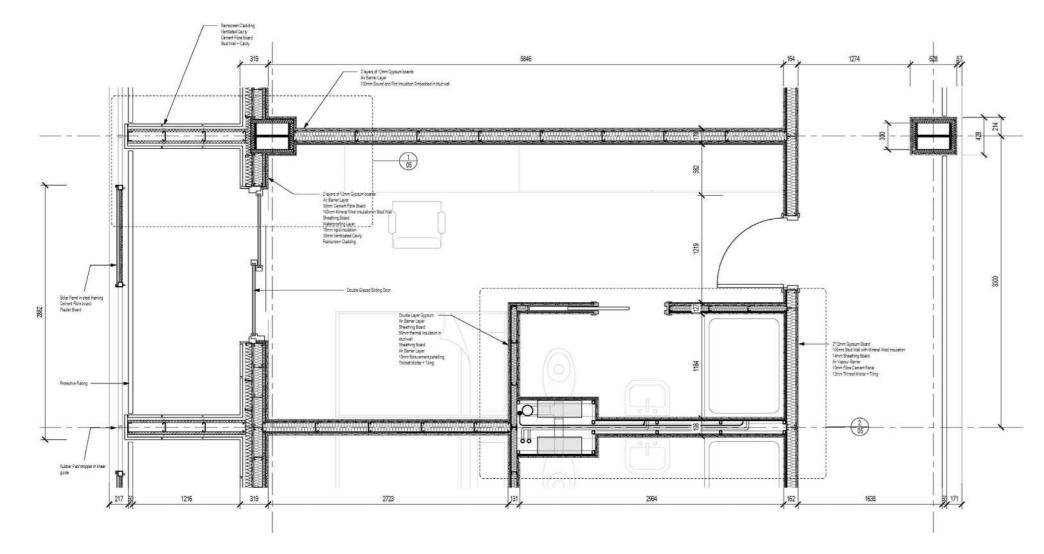


LEVEL 4 ROOF GARDEN

## DETAILS

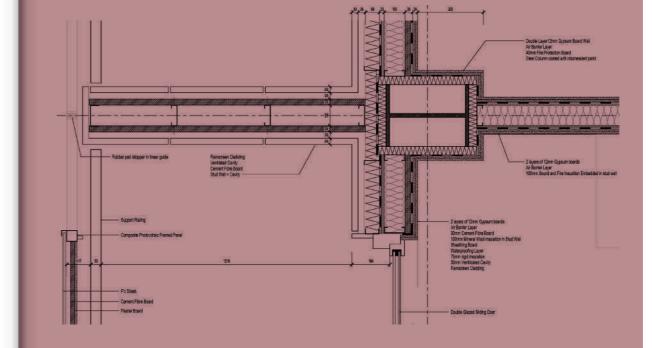
#### **ROOM PLAN DETAIL**

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#### ROOM PLAN CALLOUT DETAIL





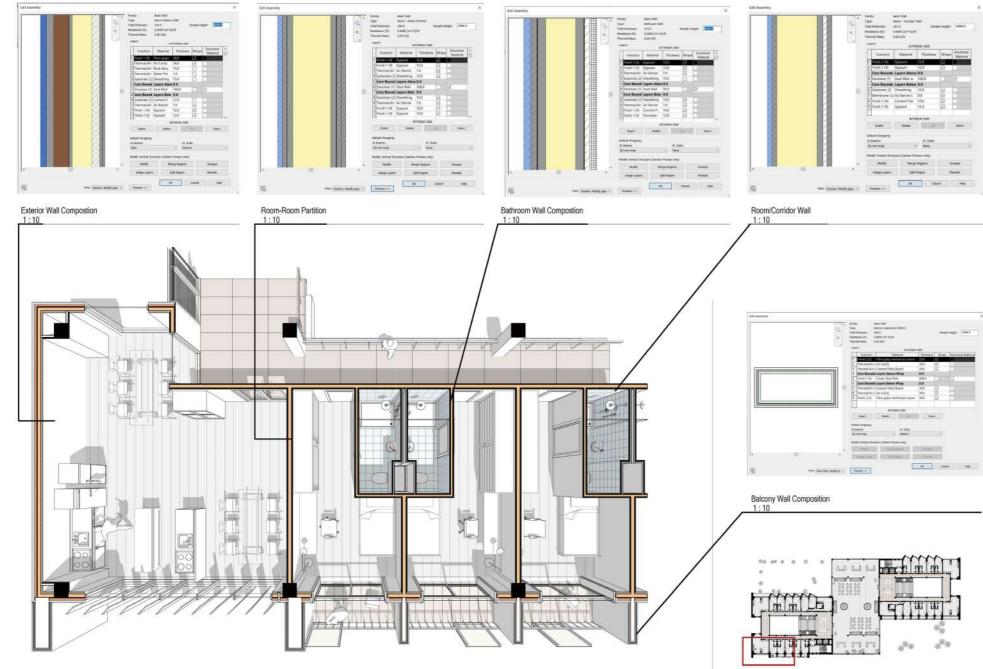
STANDING ON BRIDGE PLATFORM

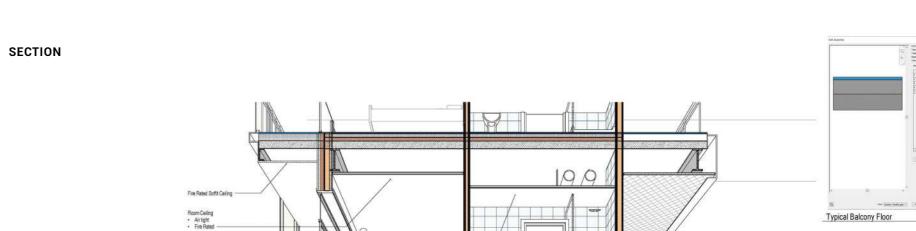


BLOCK TO BRIDGE PLATFORM

### SINGLE ROOMS COMPOSITION

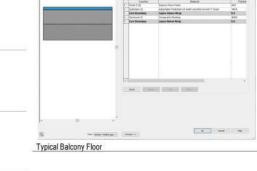
PLAN

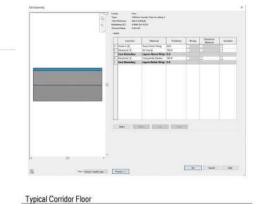


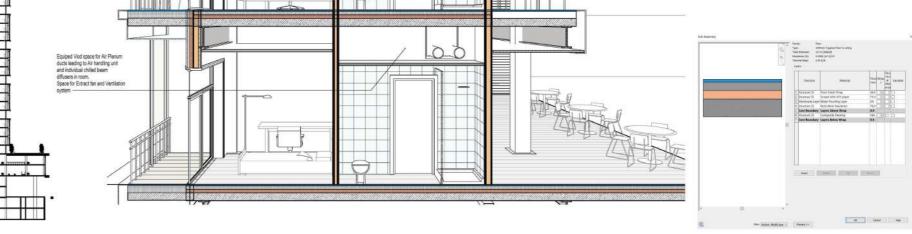


Bathroom Ceiling

Perforated Ceiling Panel supported by fire sprinkler systems embedded

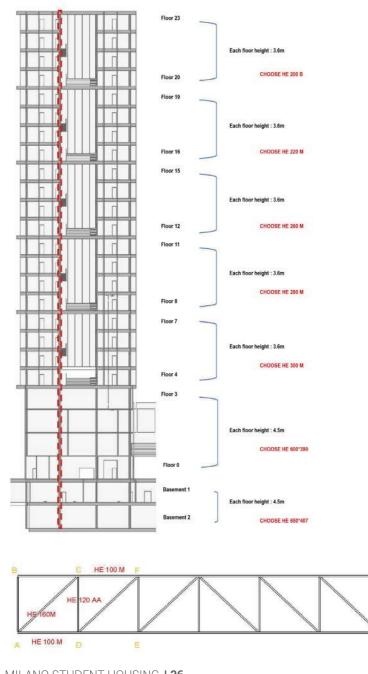


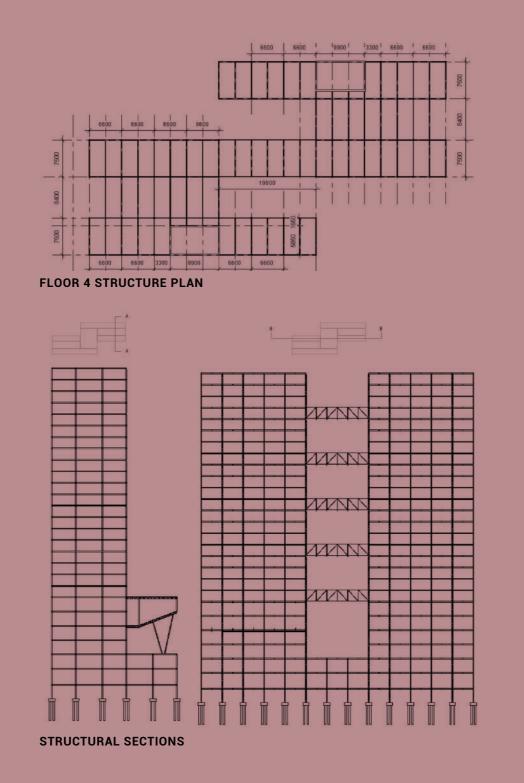


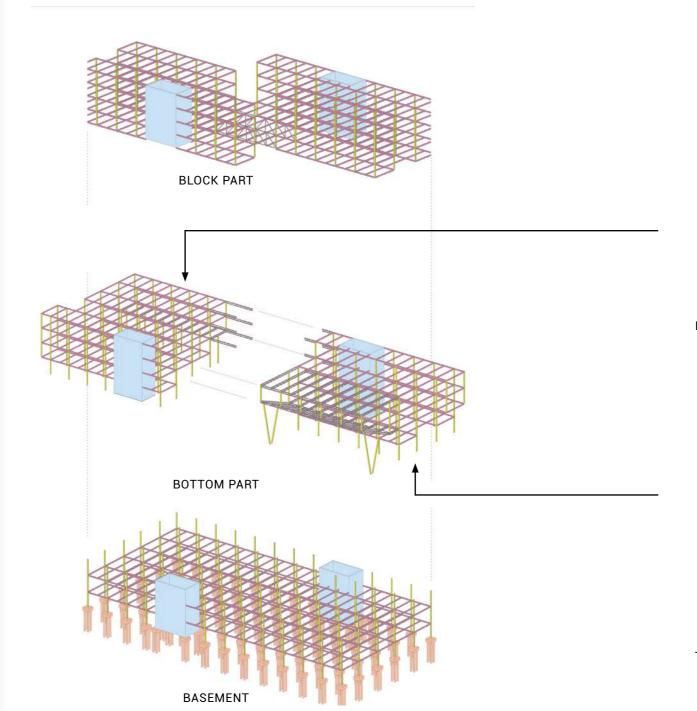


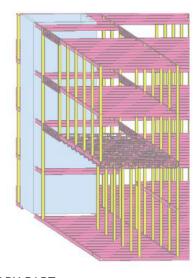
### STRUCTURE

#### **COLUMN SIZING**

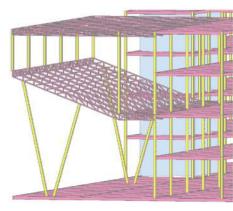








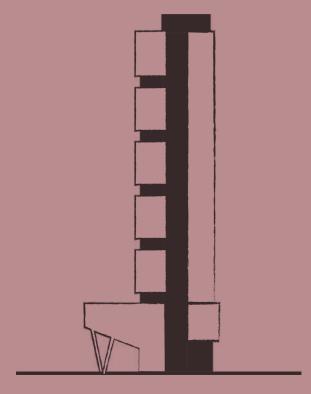
LIBRARY PART



Theater part

THEATRE PART

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