



**POLITECNICO
MILANO 1863**

Politecnico di Milano
School of Architecture Urban
Planning Construction Engineering
Polo Territoriale di Lecco

Master of Science in Building and
Architectural Engineering
Track: Architectural Engineering

Master's degree Dissertation:

**Bridging Biophilia and
Energy Efficiency within
High-Performance
Building Design**

The Innovation Center at
University City in Philadelphia

Supervised by::

Giuliana Iannaccone
Eugenia Victoria Ellis

Co-authored by:

Jose Angel Arcila Gonzalez – 951130
Riccardo Bornati - 953541

Board description:

**Masterplan:
Site view**

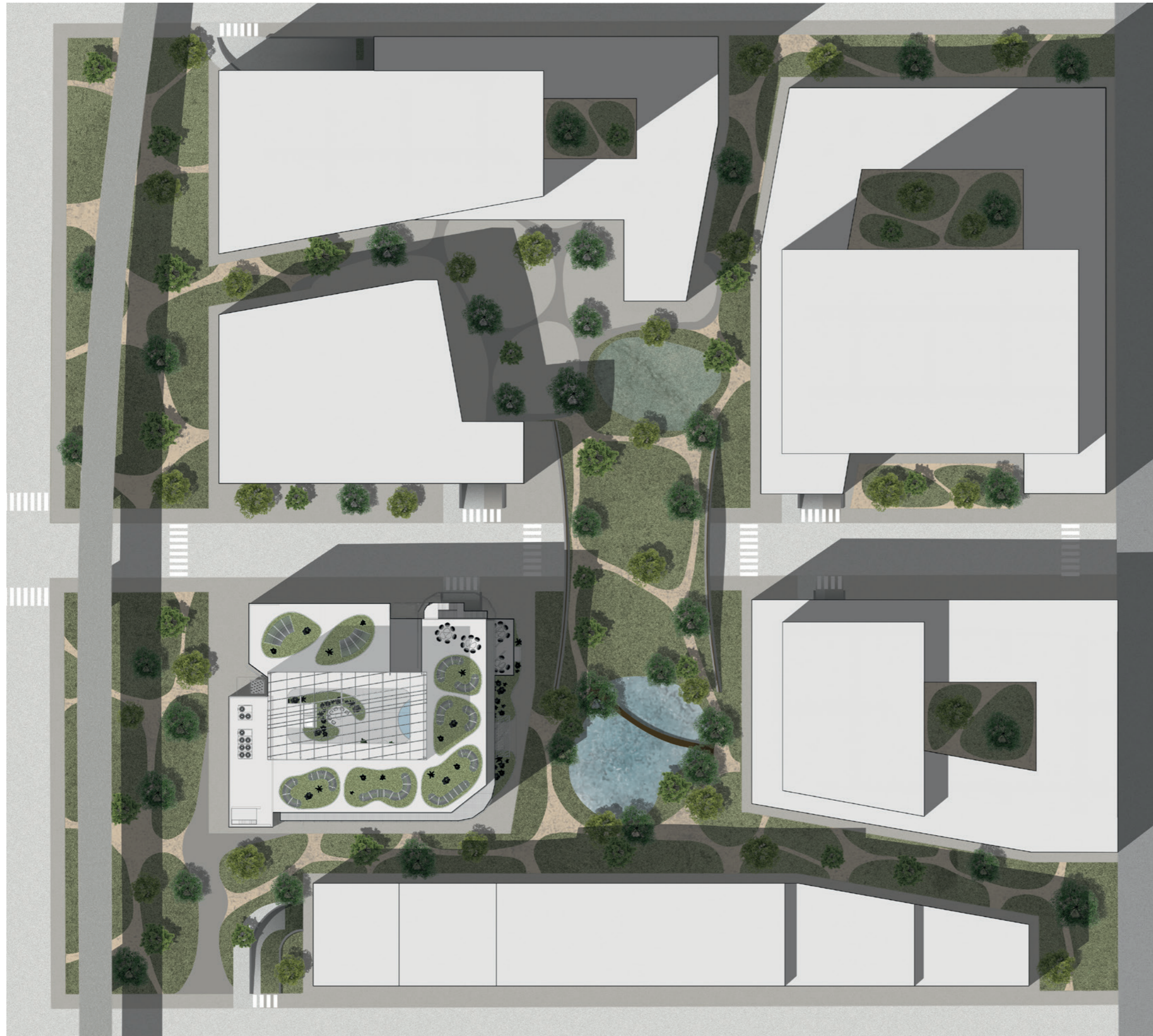
Scale:

1:600



Board number:

M-1





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Board description:

Plan: Parking level

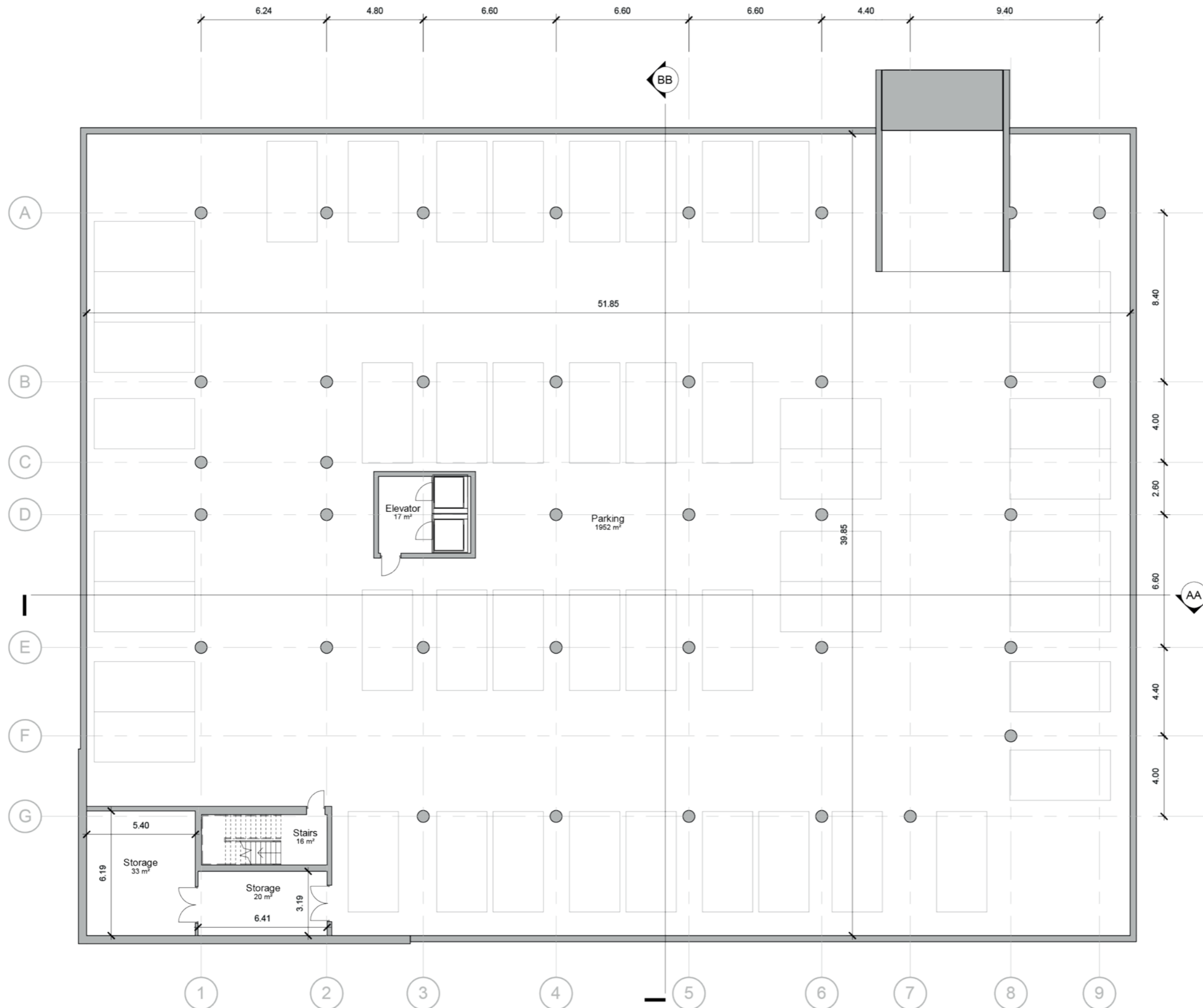
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1:200



Board number:

A-0





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Board description:

**Plan: Ground floor
Semi-public areas**

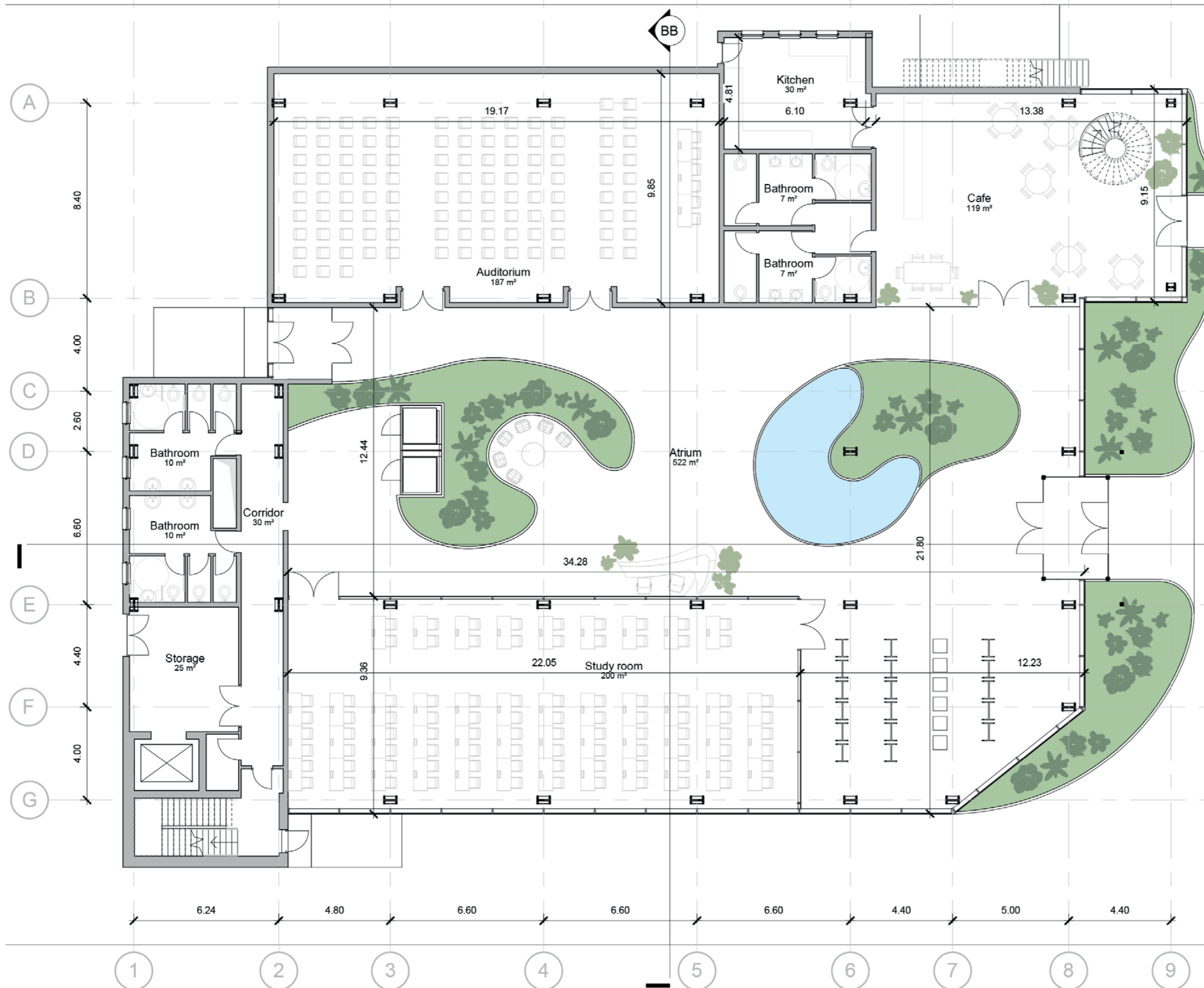
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Board number:

A-1





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Board description:

Plan: Mezzanine

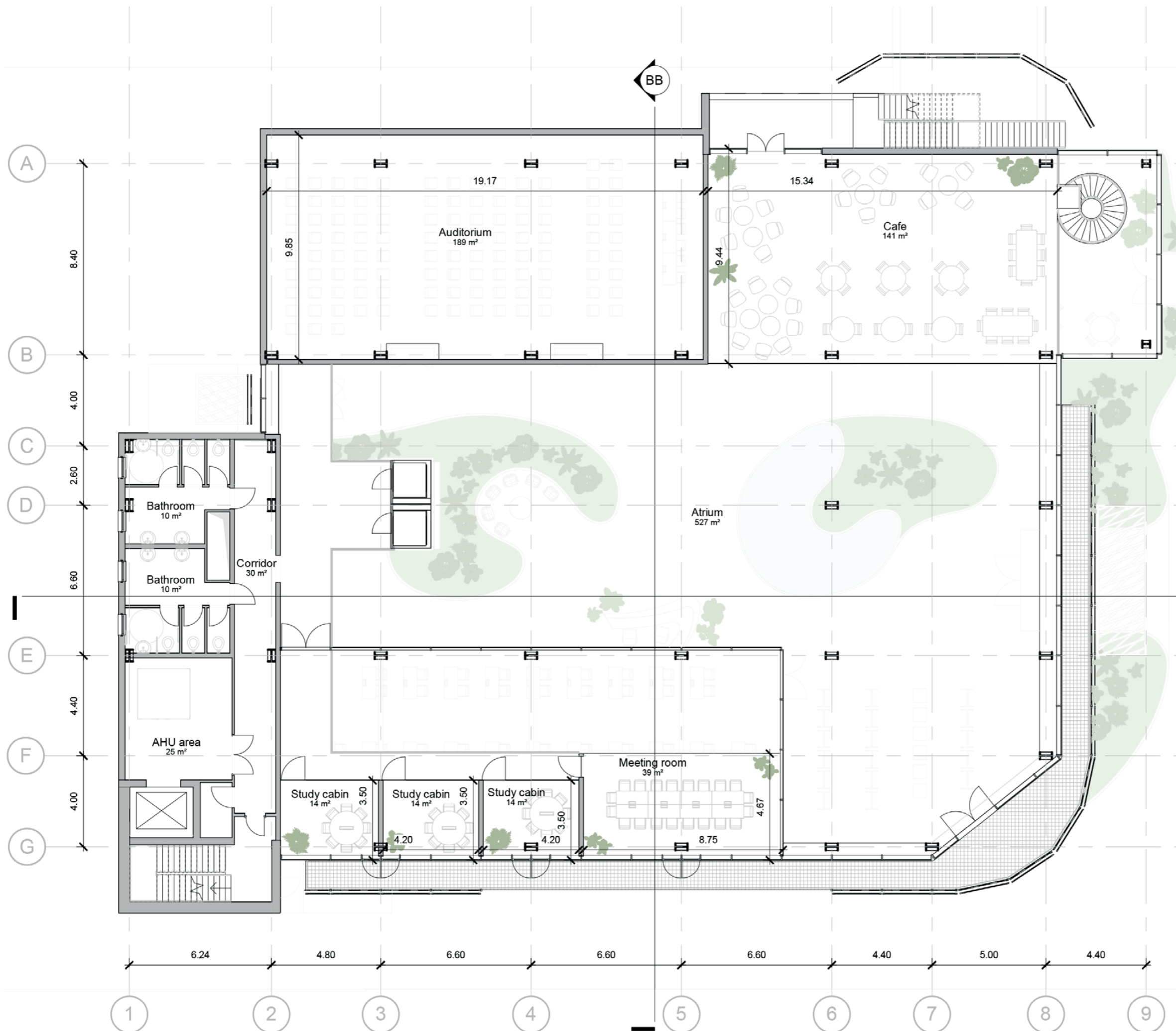
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Board number:

A-2





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Board description:

**Plan: First floor
Coworking areas**

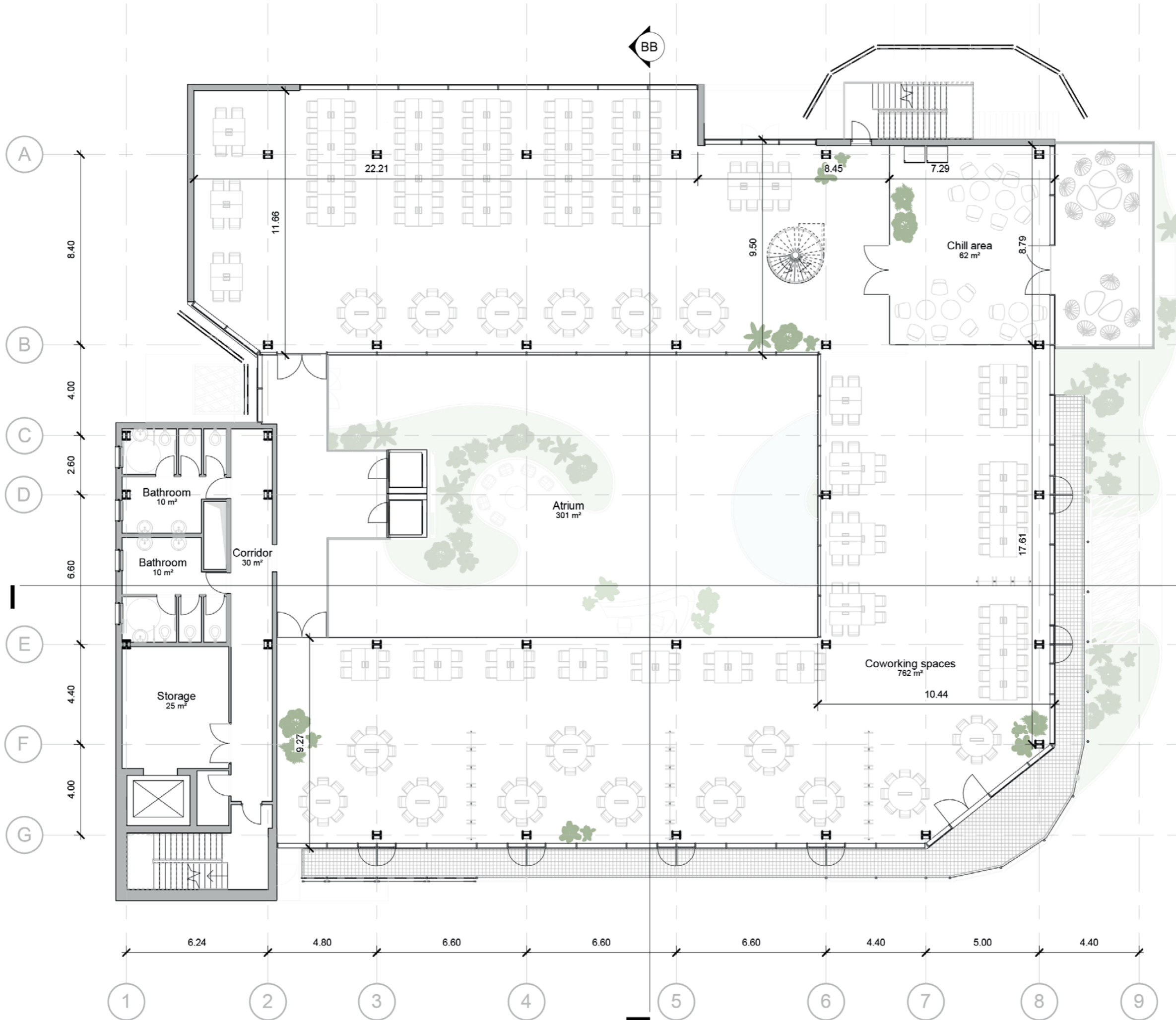
Scale:

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Board number:

A-3





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Board description:

**Plan: Second floor
Offices**

Scale:

1:175



Board number:

A-4





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Board description:

**Plan: Third floor
Laboratories**

Scale:

1:175



Board number:

A-5





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Board description:

**Plan: Fourth floor
Laboratories**

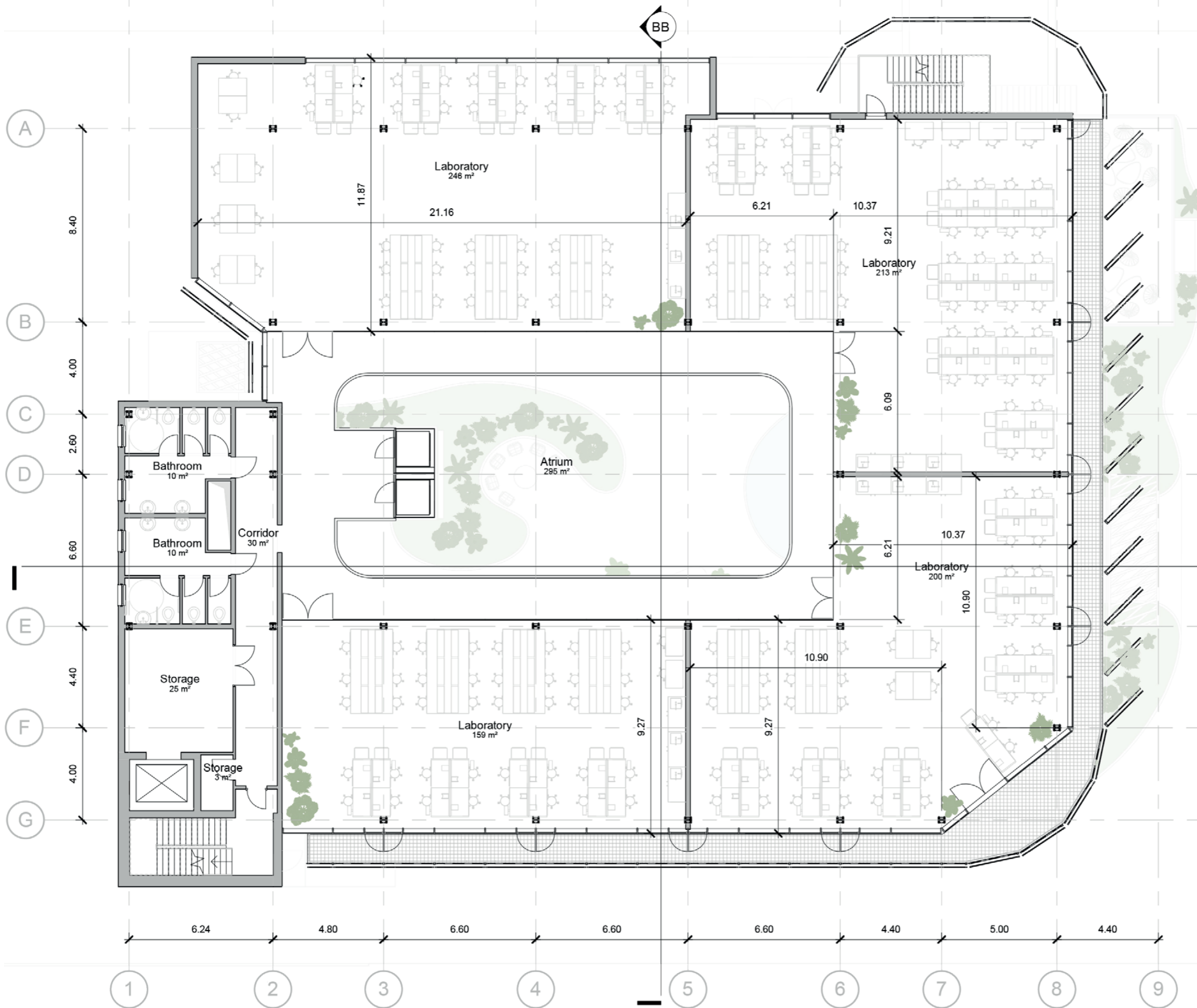
Scale:

1:175



Board number:

A-6





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Board description:

**Plan: Fifth floor
Roof terrace**

Scale:

1:175



Board number:

A-7





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Board description:

Roof plan

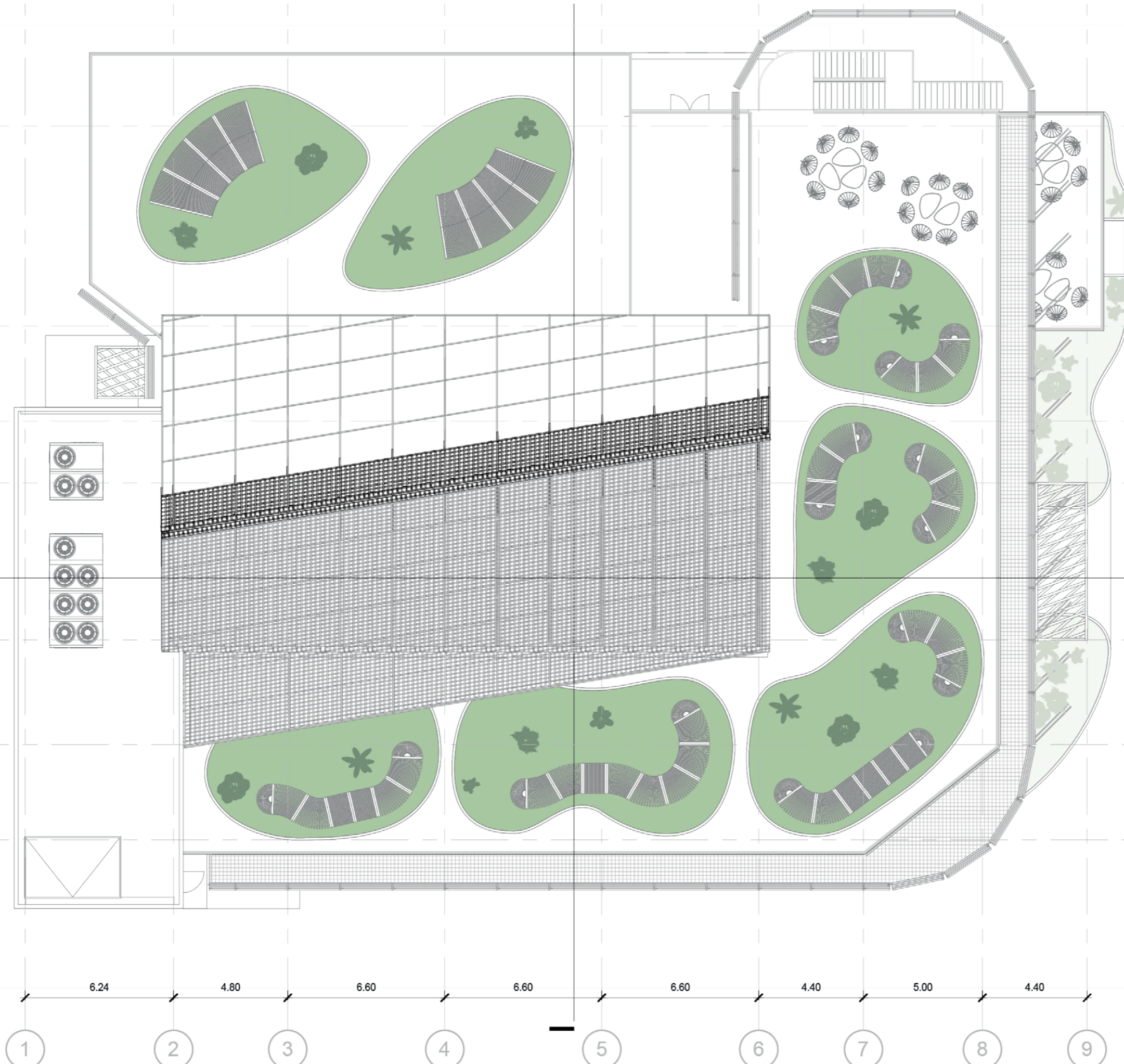
Scale:

1:175



Board number:

A-8





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Board description:

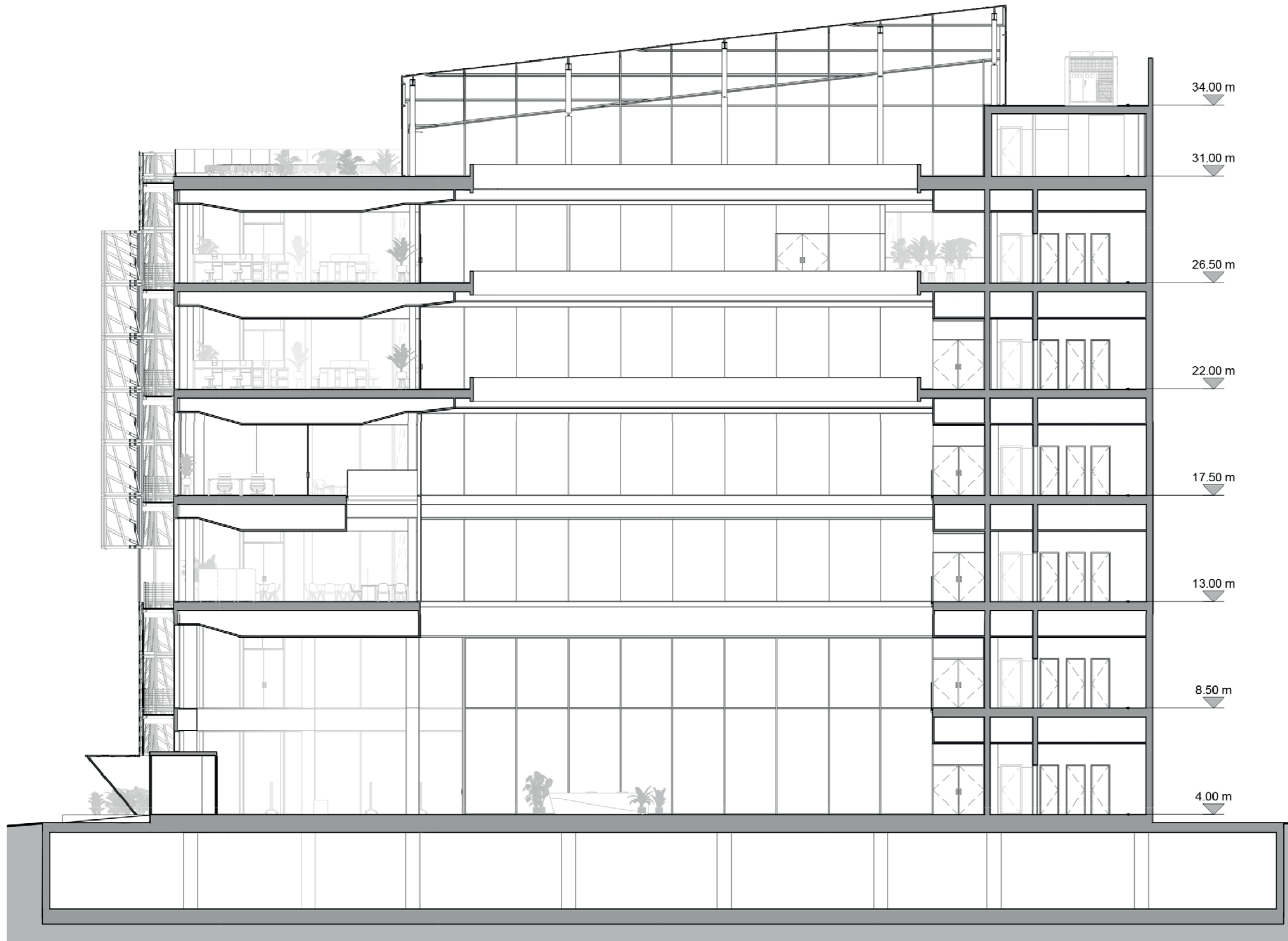
Section A-A'

Scale:

1:175

Board number:

A-9





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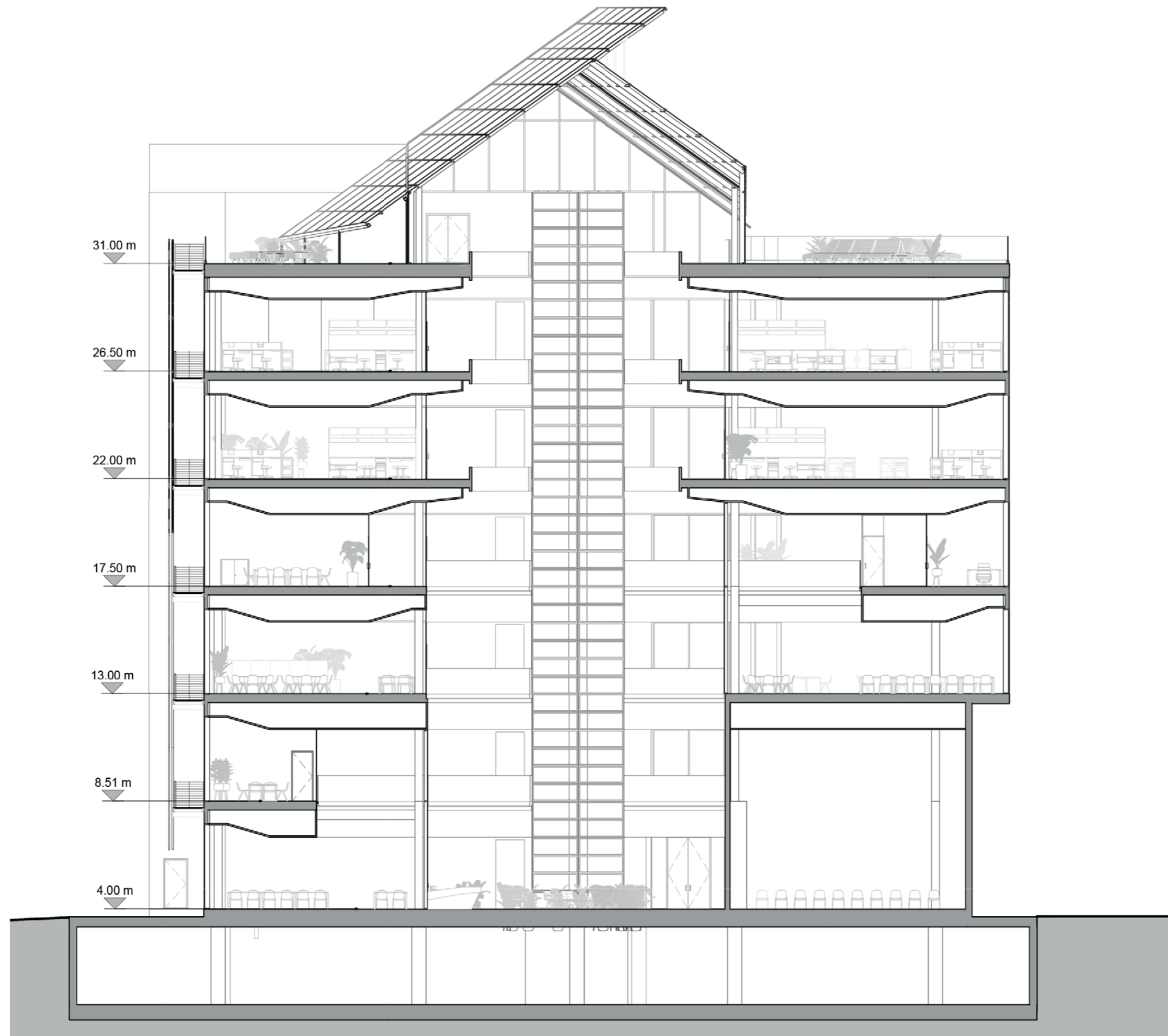
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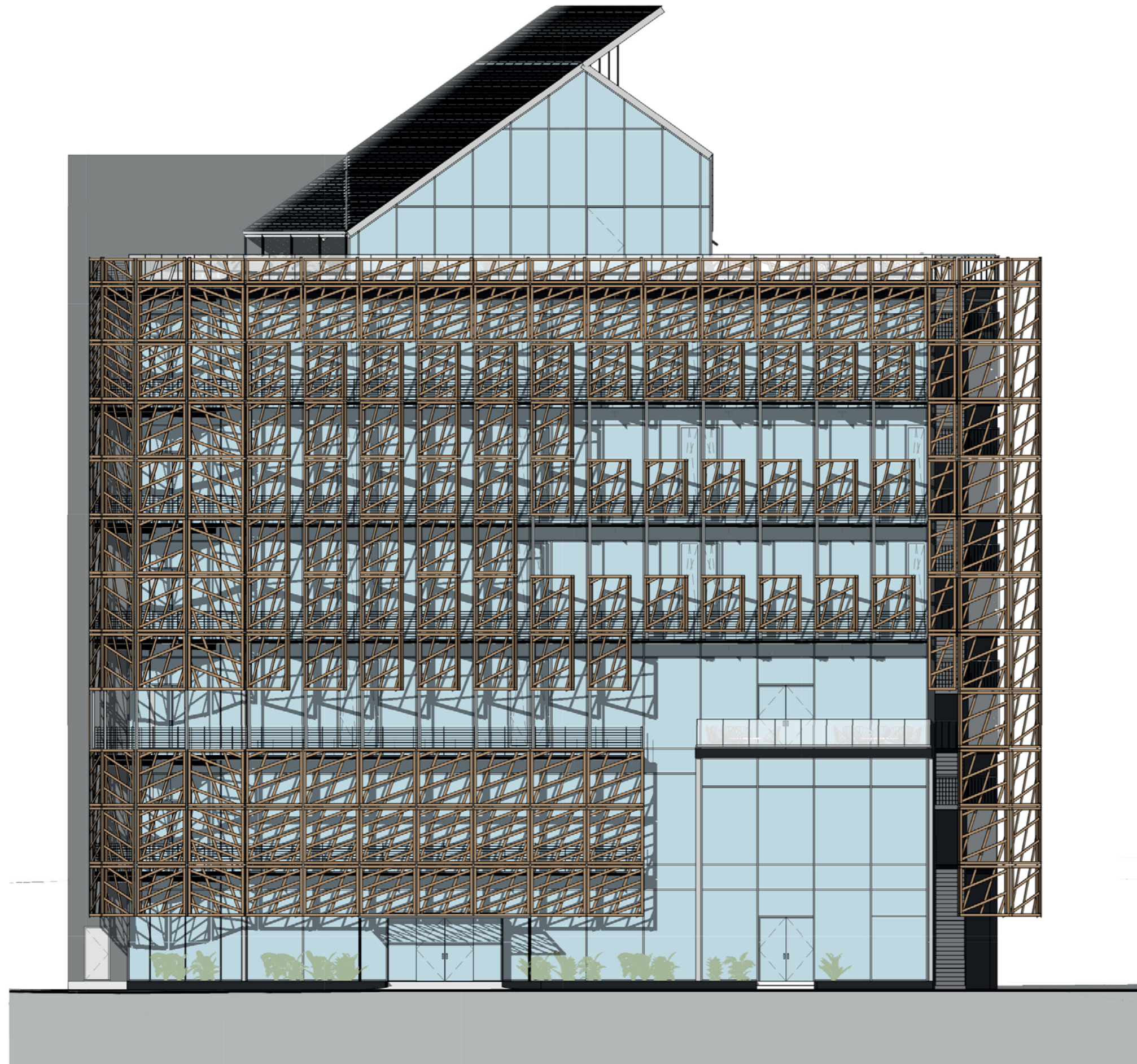
Scale:

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Board number:

A-10





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Board description:

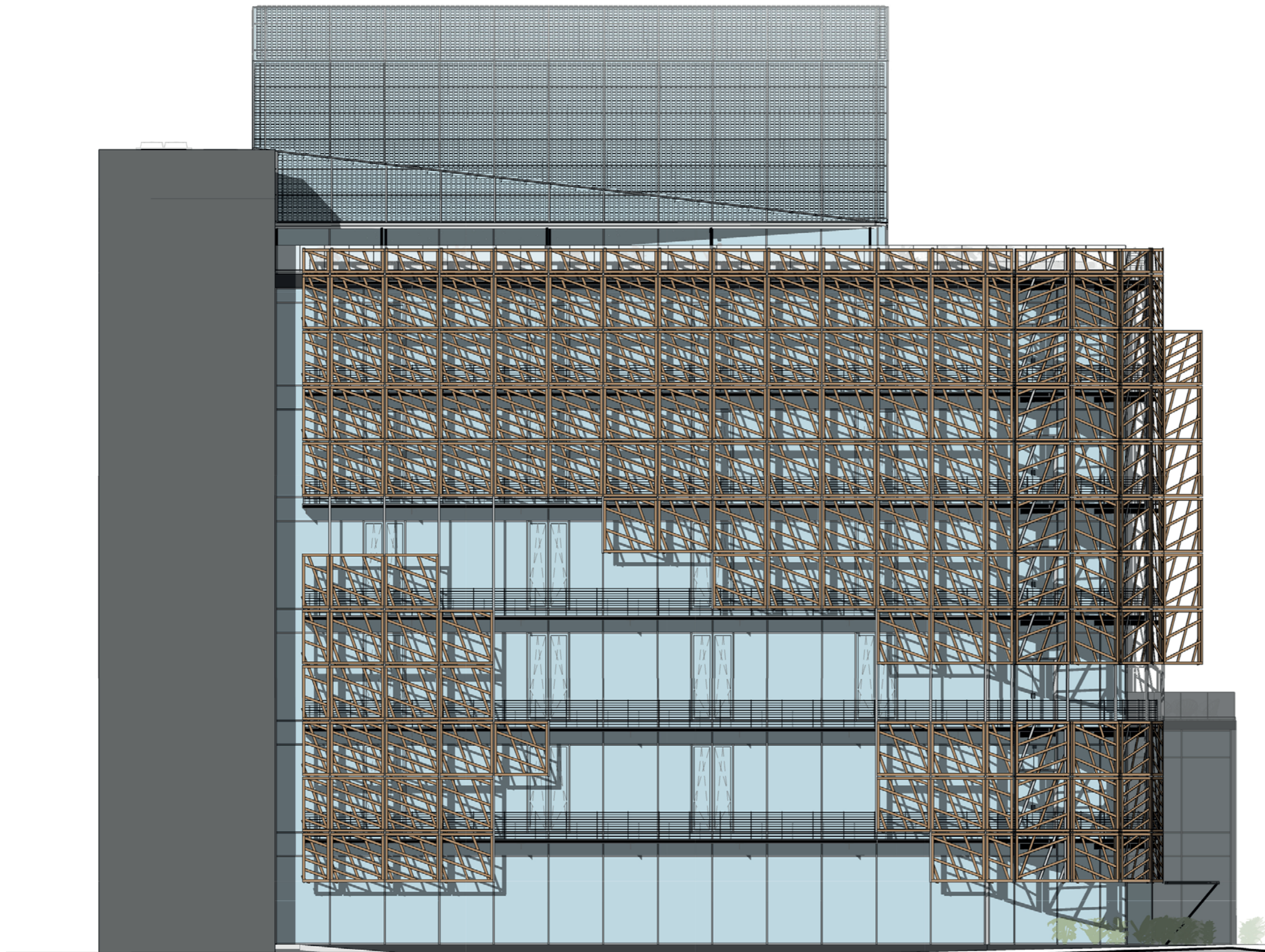
East facade

Scale:

1:175

Board number:

A-11



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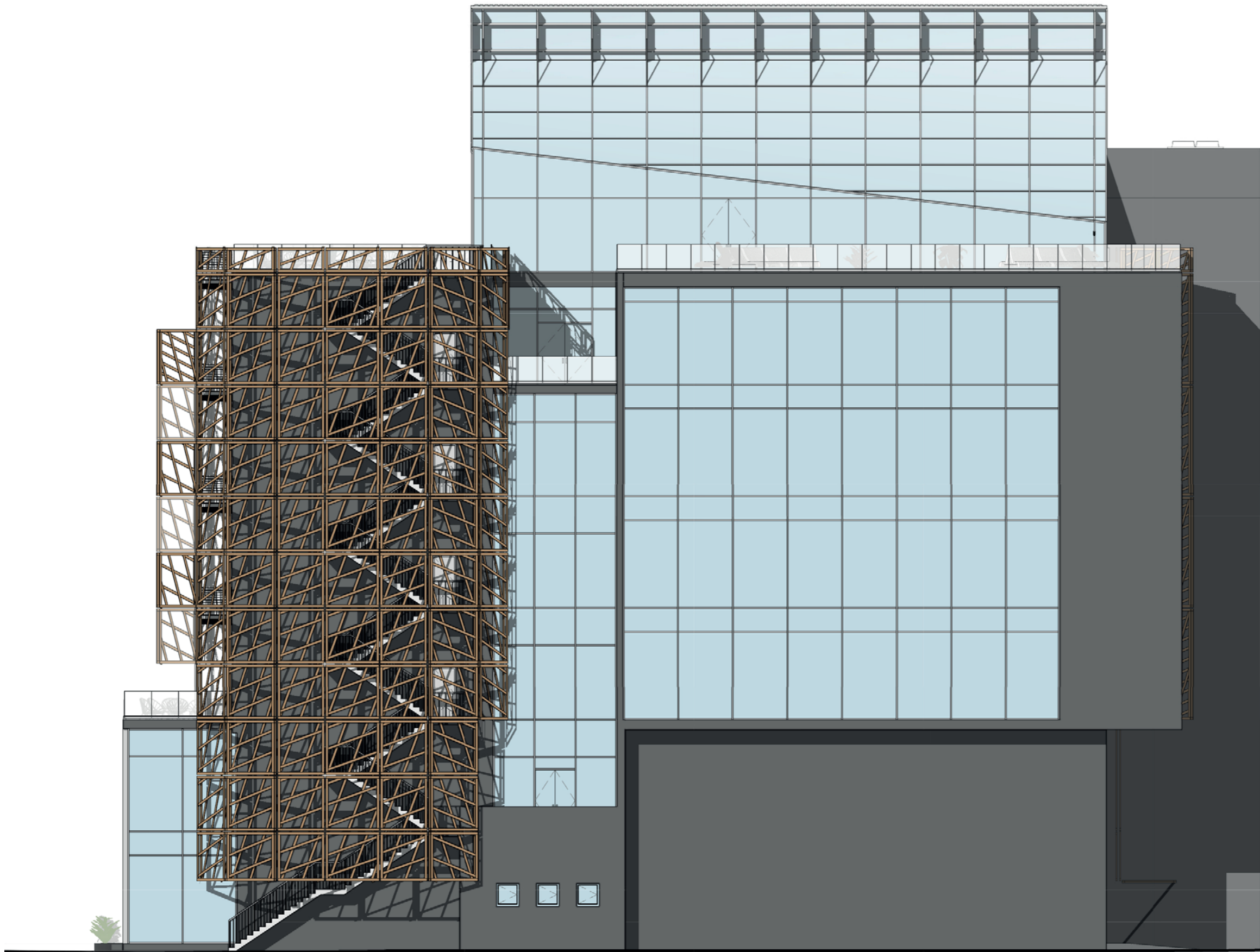
South facade

Scale:

1:175

Board number:

A-12



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Board description:

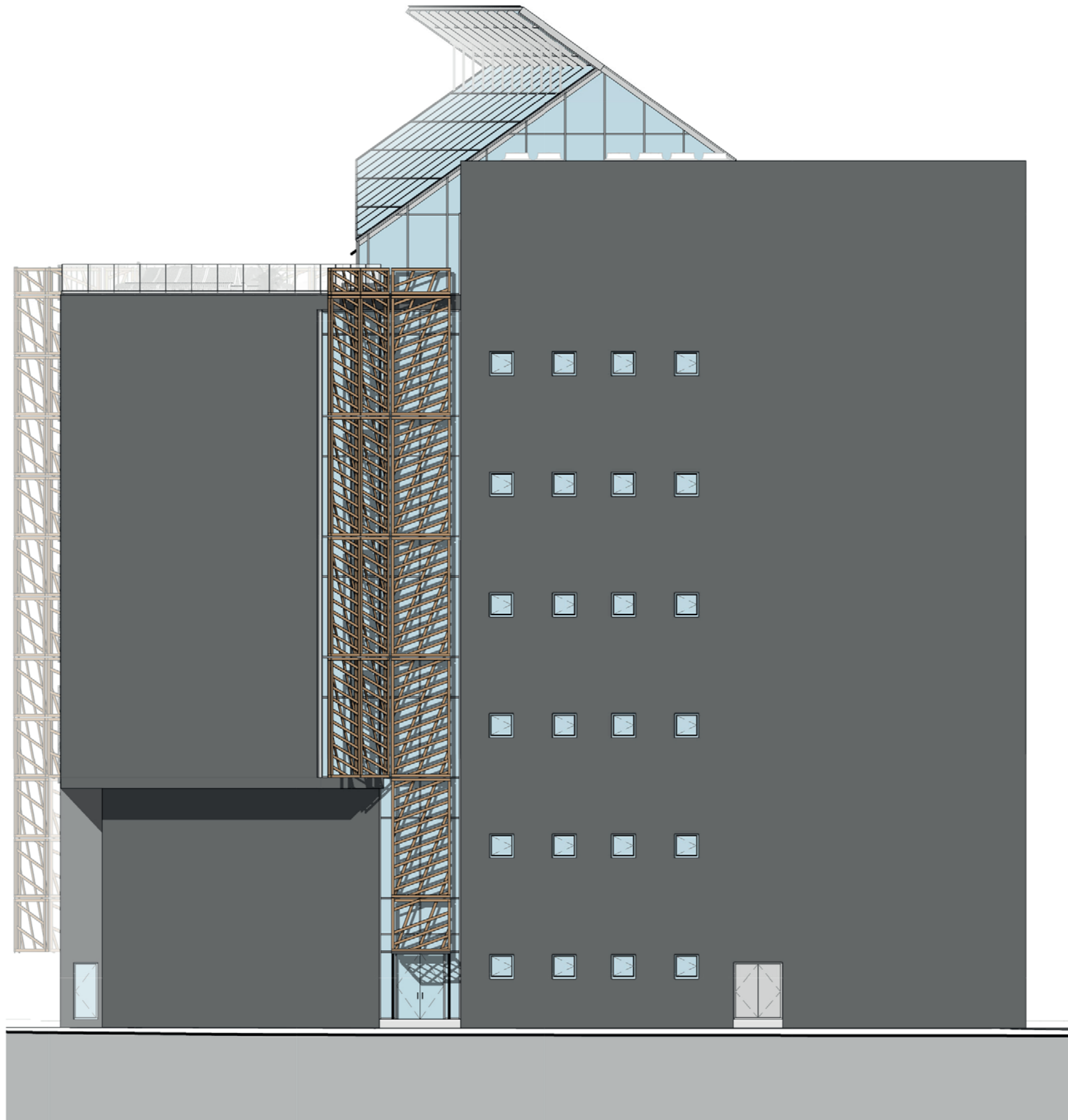
North facade

Scale:

1:175

Board number:

A-13



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Board description:

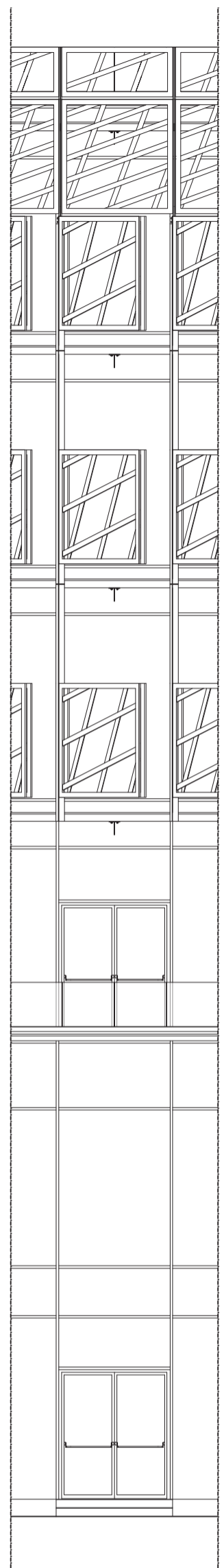
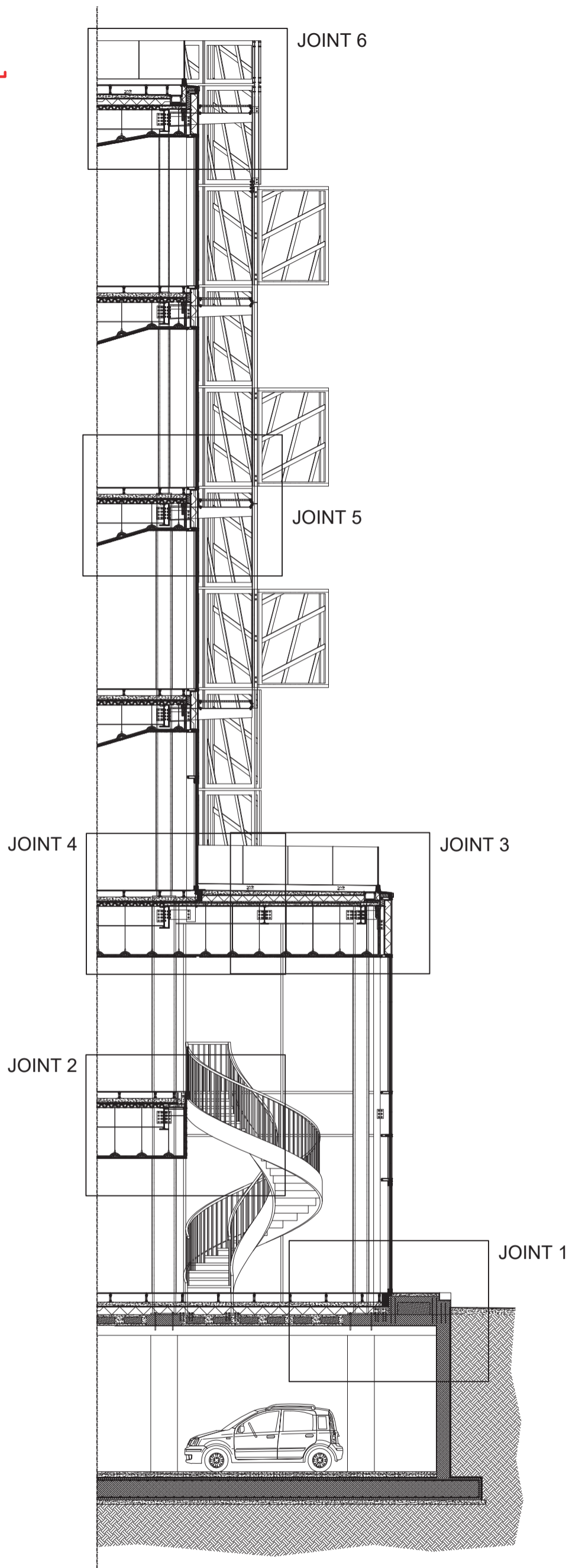
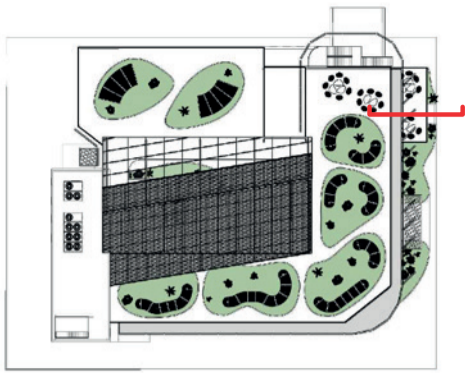
West facade


Scale:

1:175

Board number:

A-14



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Board description:

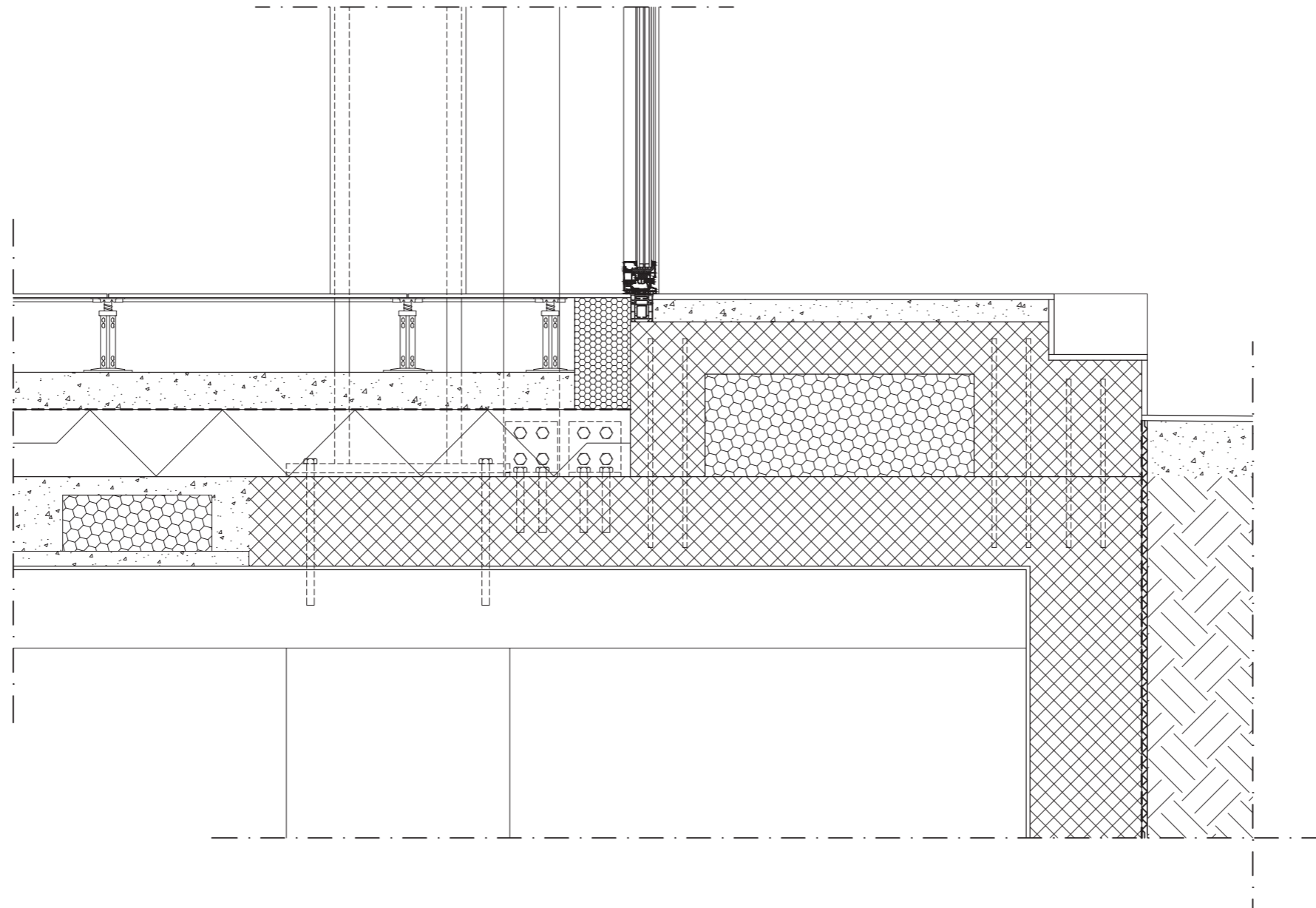
Detail: Joint 1

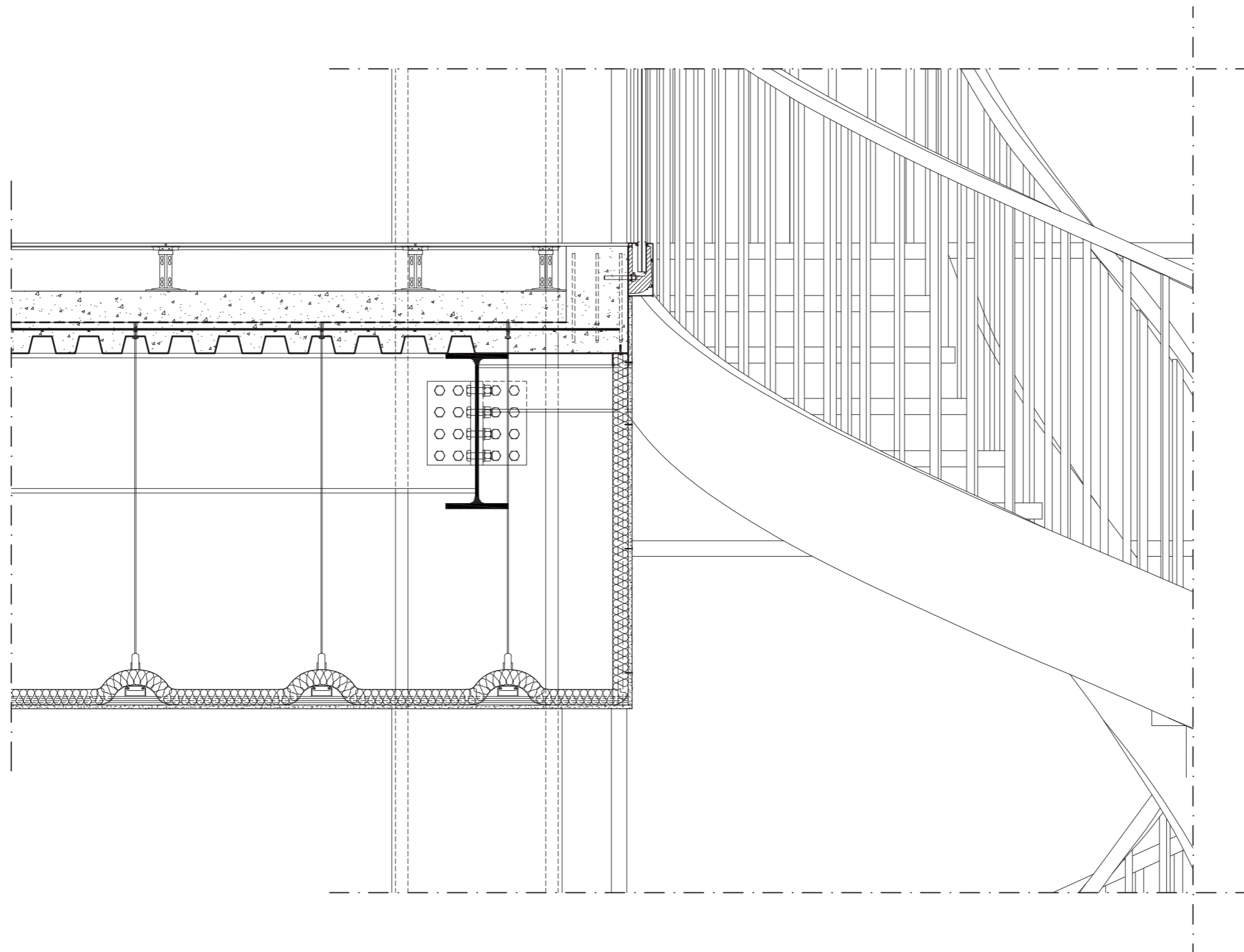
Scale:

1:15

Board number:

D-1





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Board description:

Detail: Joint 2

Scale:

1:15

Board number:

D-2



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Board description:

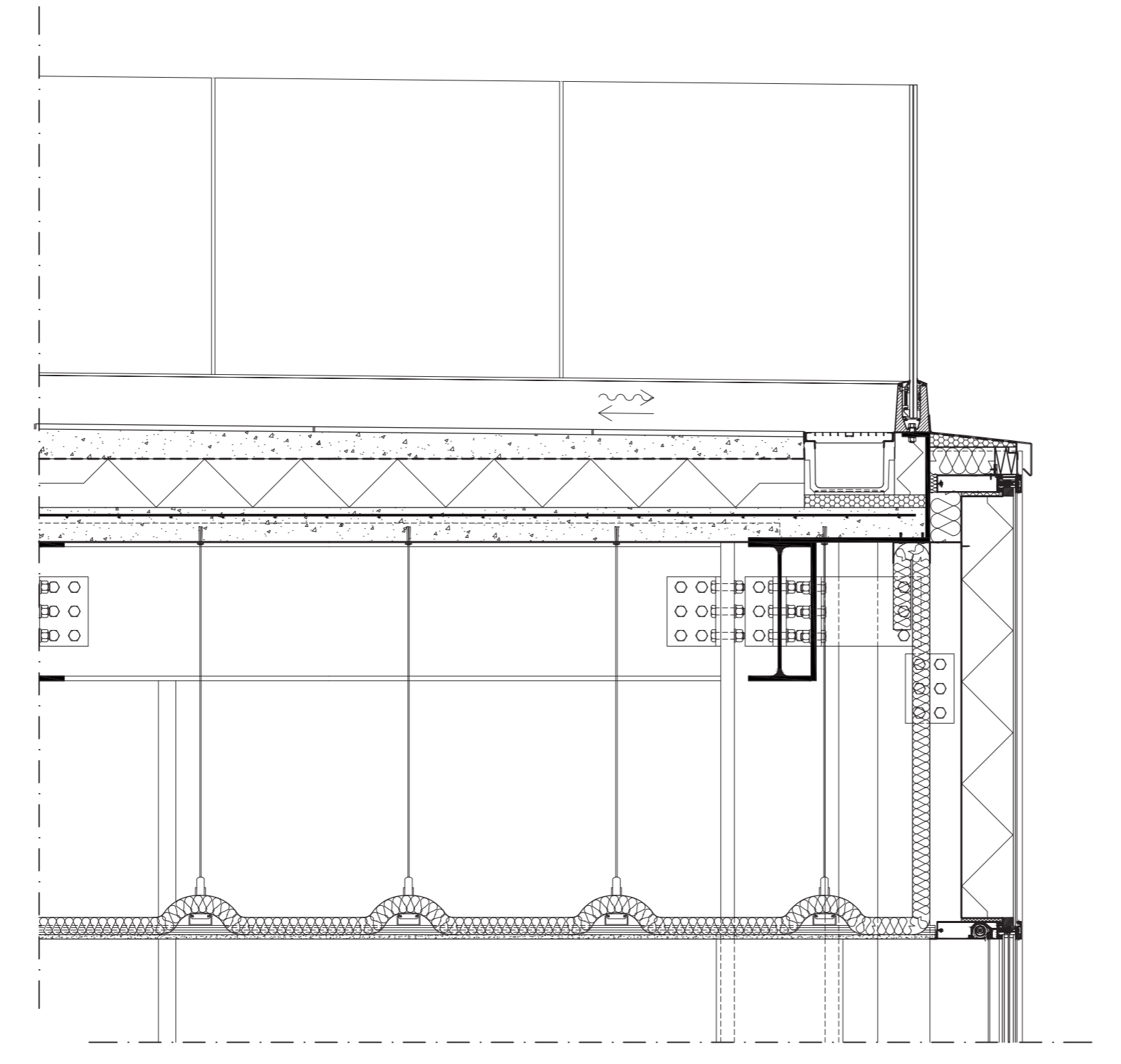
Detail: Joint 3

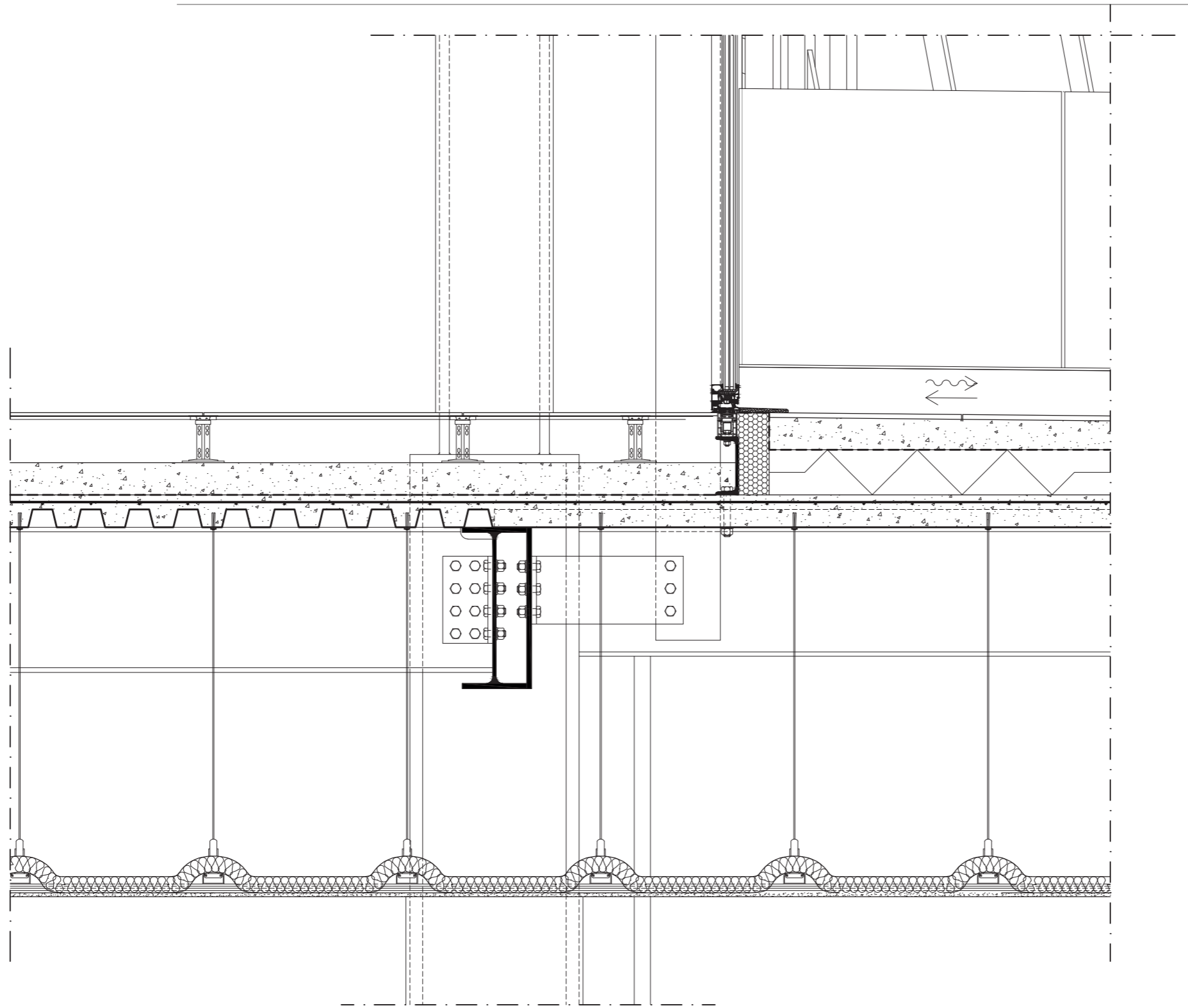
Scale:

1:15

Board number:

D-3





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Board description:

Detail: Joint 4

Scale:

1:15

Board number:

D-4



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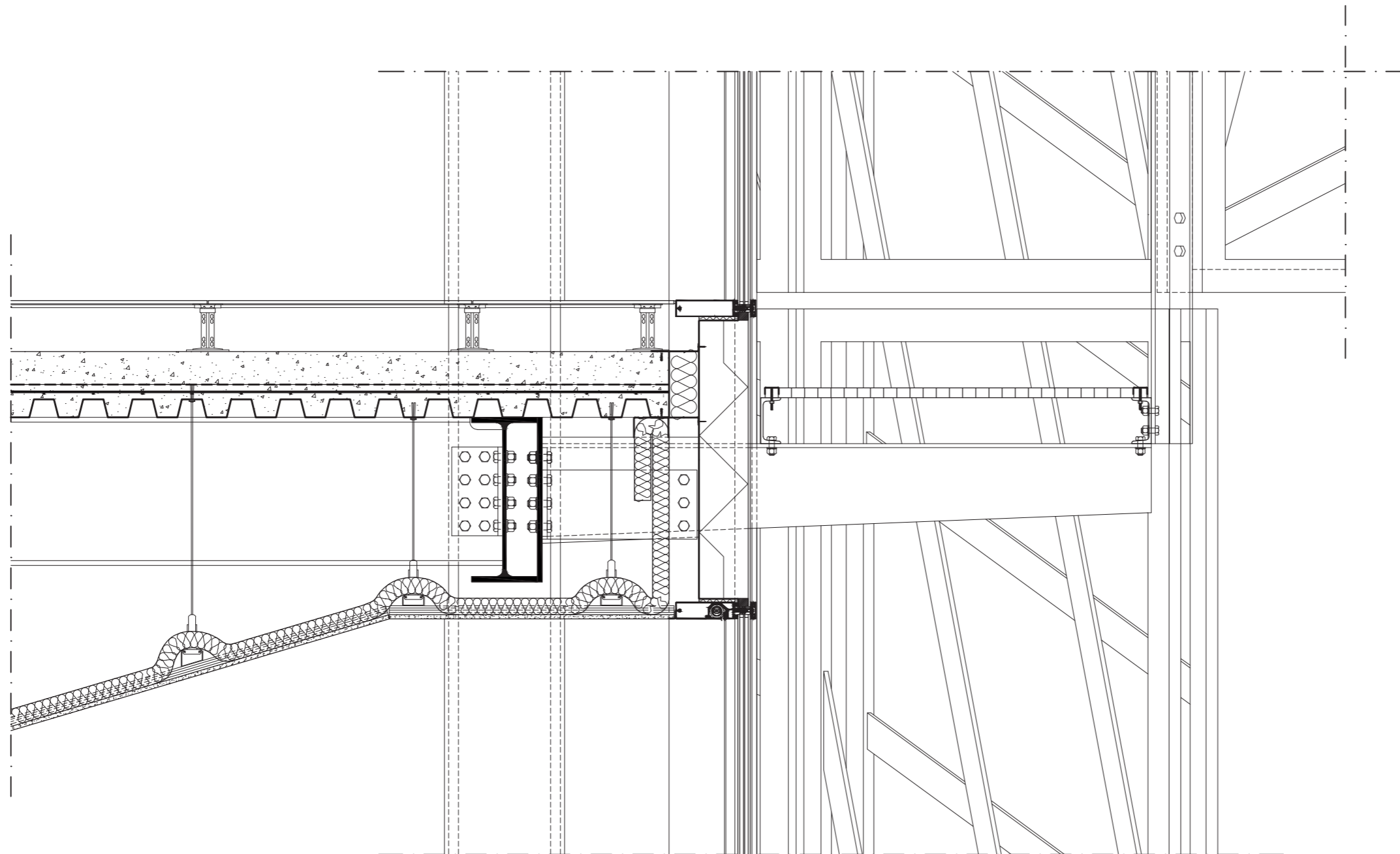
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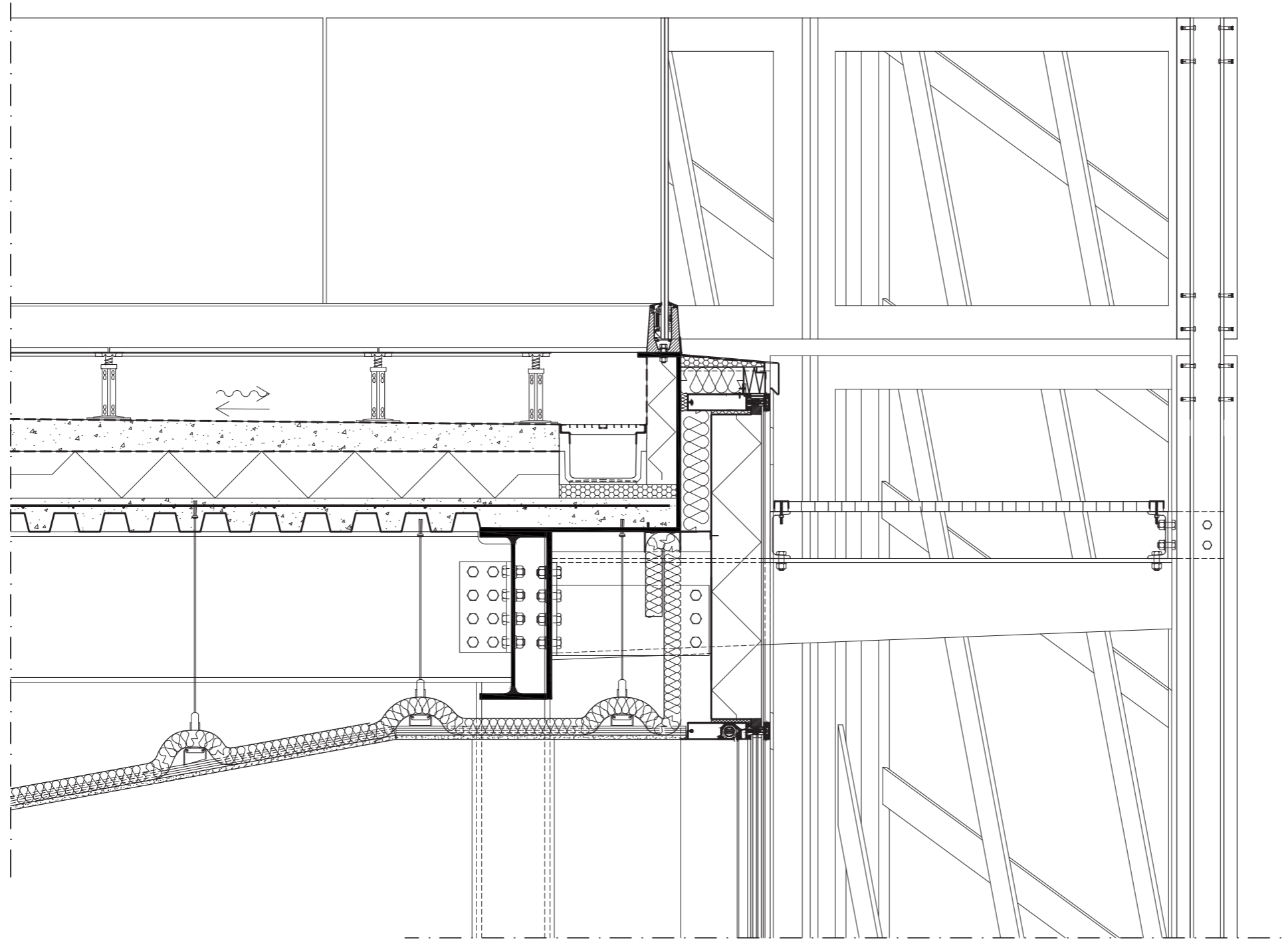
Scale:

1:15

Board number:

D-5





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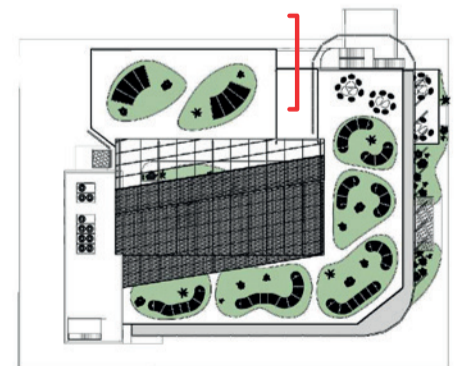
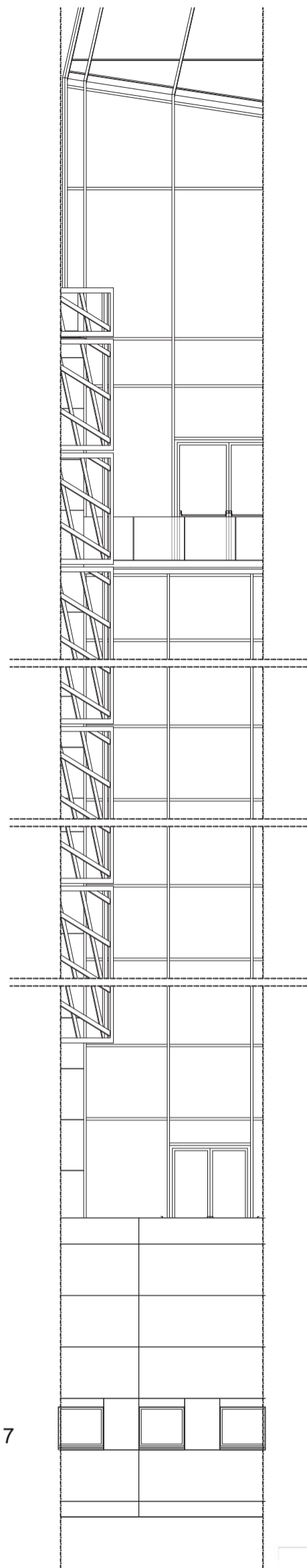
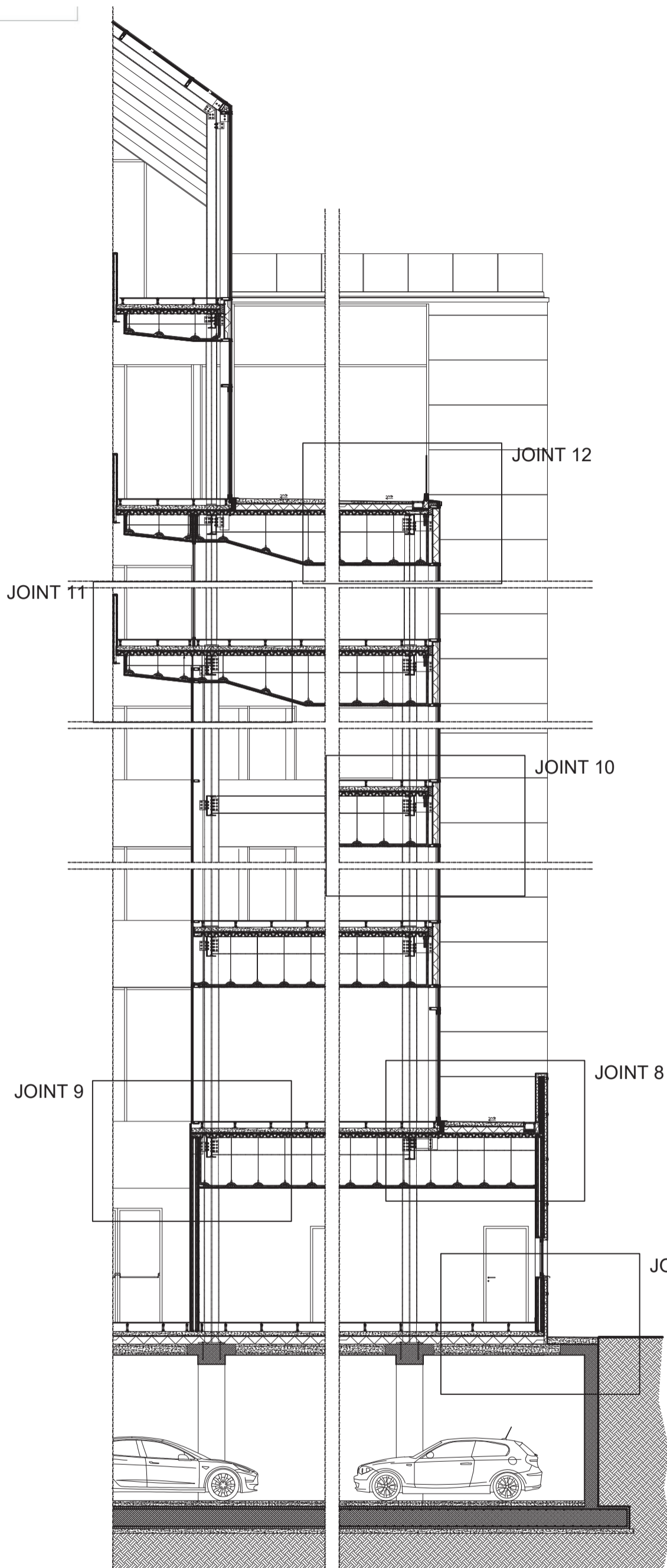
Detail: Joint 6


Scale:

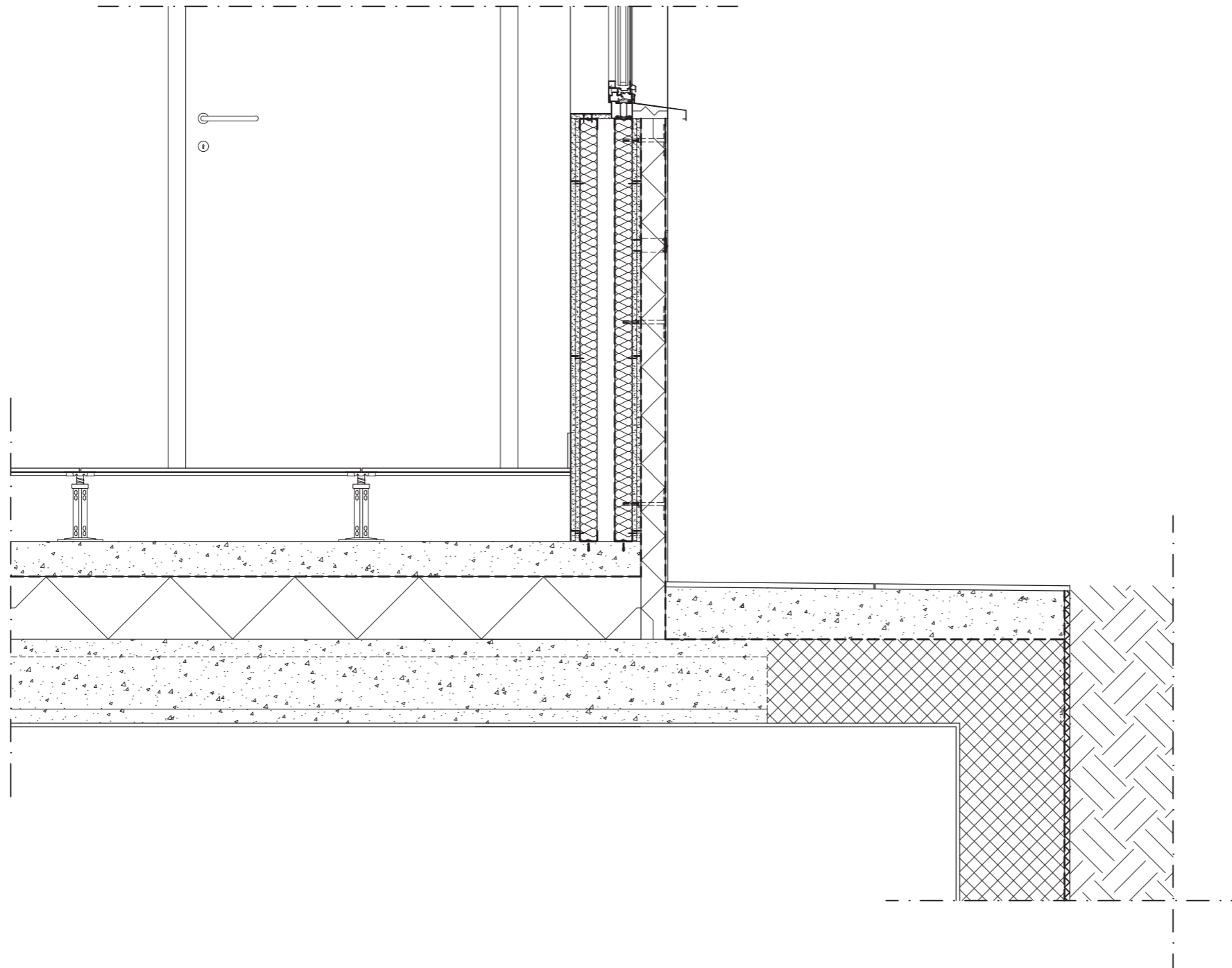
1:15

Board number:

D-6



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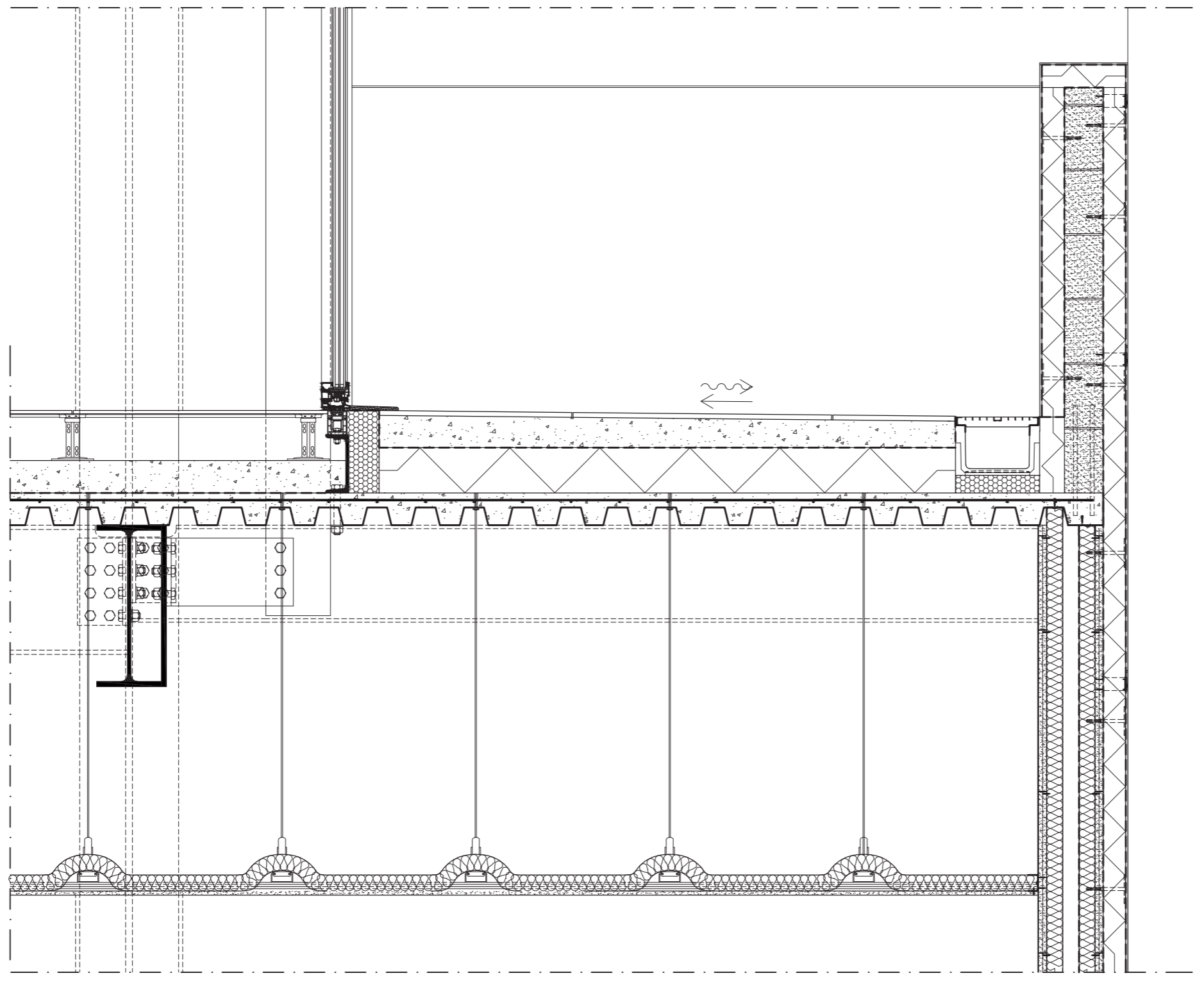
Detail: Joint 7

Scale:

1:15

Board number:

D-7



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Board description:

Detail: Joint 8

Scale:

1:15

Board number:

D-8



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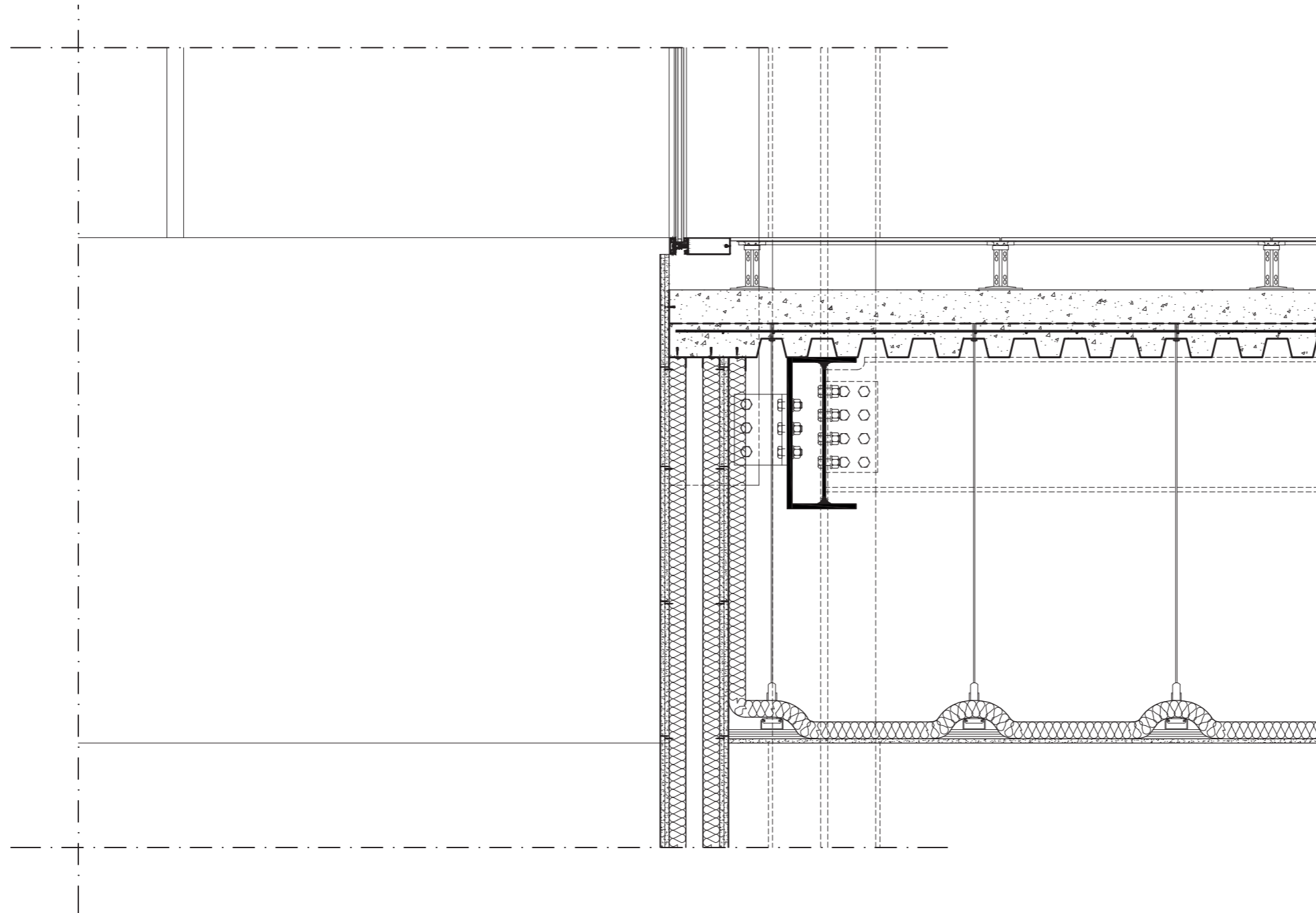
Detail: Joint 9

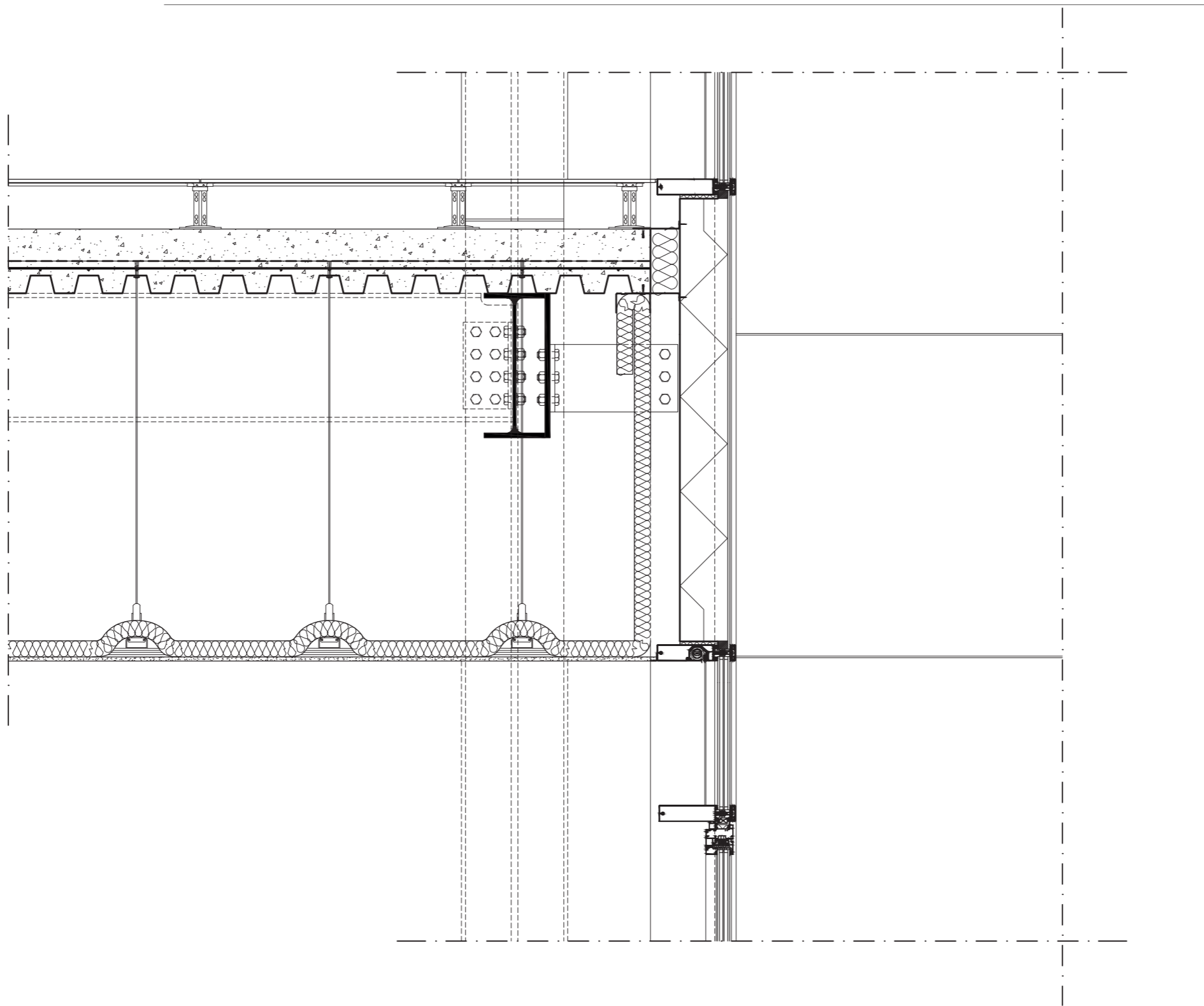
Scale:

1:15

Board number:

D-9





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Board description:

Detail: Joint 10

Scale:

1:15

Board number:

D-10



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Co-authored by:

Jose Angel Arcila Gonzalez – 951130
Riccardo Bornati - 953541

Board description:

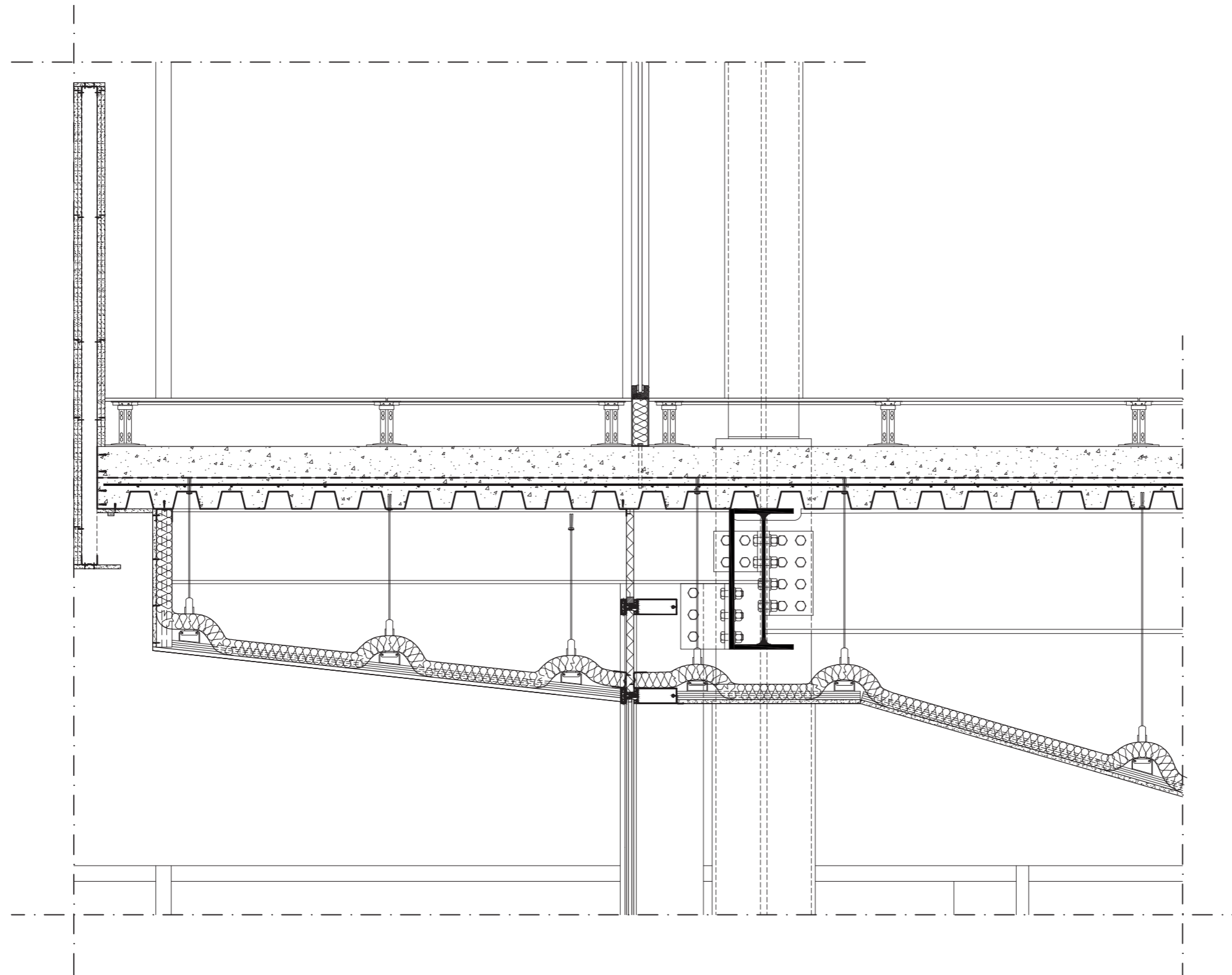
Detail: Joint 11

Scale:

1:15

Board number:

D-11





**POLITECNICO
MILANO 1863**

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Planning Construction Engineering
Polo Territoriale di Lecco

Master of Science in Building and
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Master's degree Dissertation:

**Bridging Biophilia and
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The Innovation Center at
University City in Philadelphia

Supervised by::

Giuliana Iannaccone
Eugenia Victoria Ellis

Co-authored by:

Jose Angel Arcila Gonzalez – 951130
Riccardo Bornati - 953541

Board description:

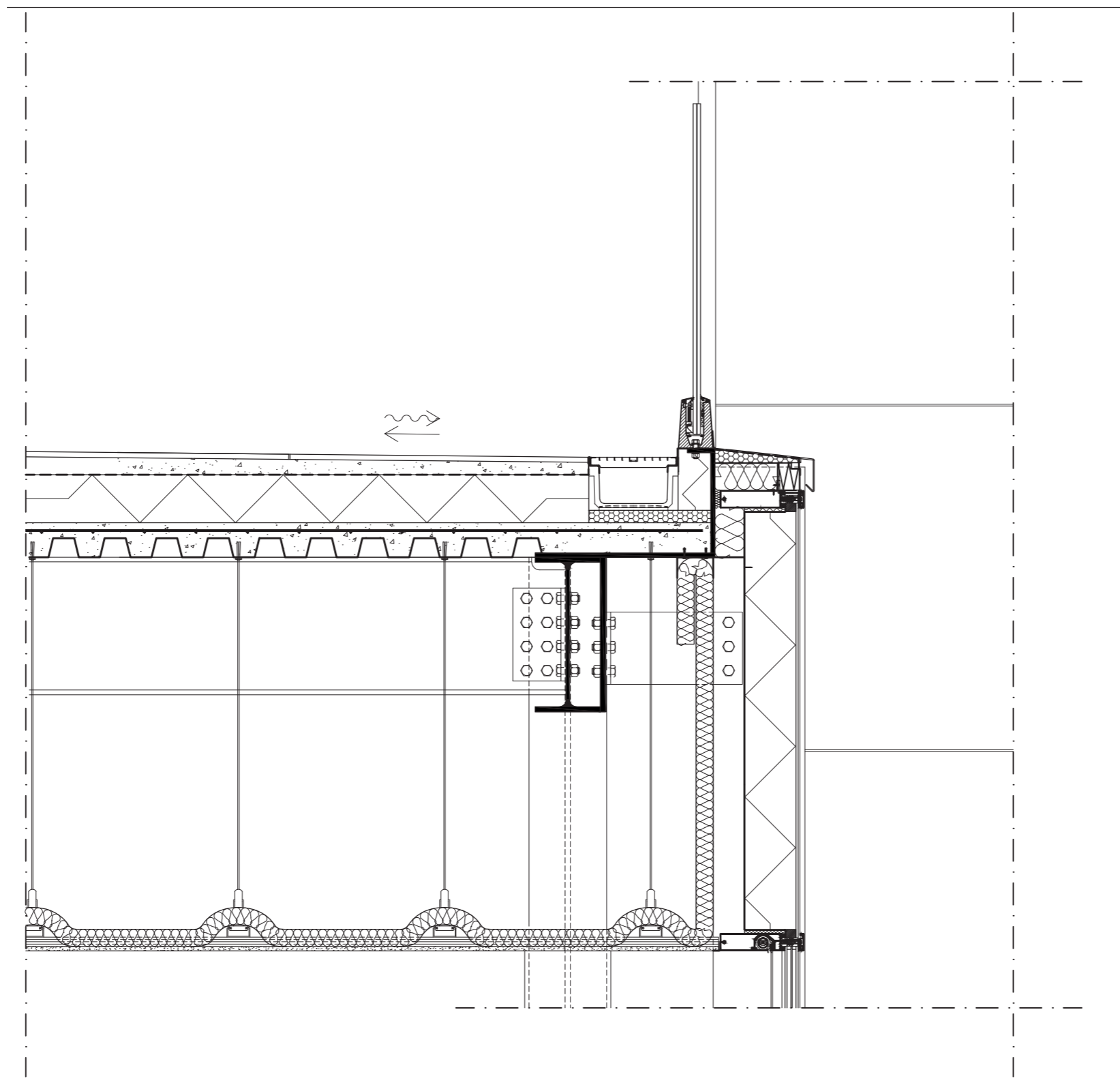
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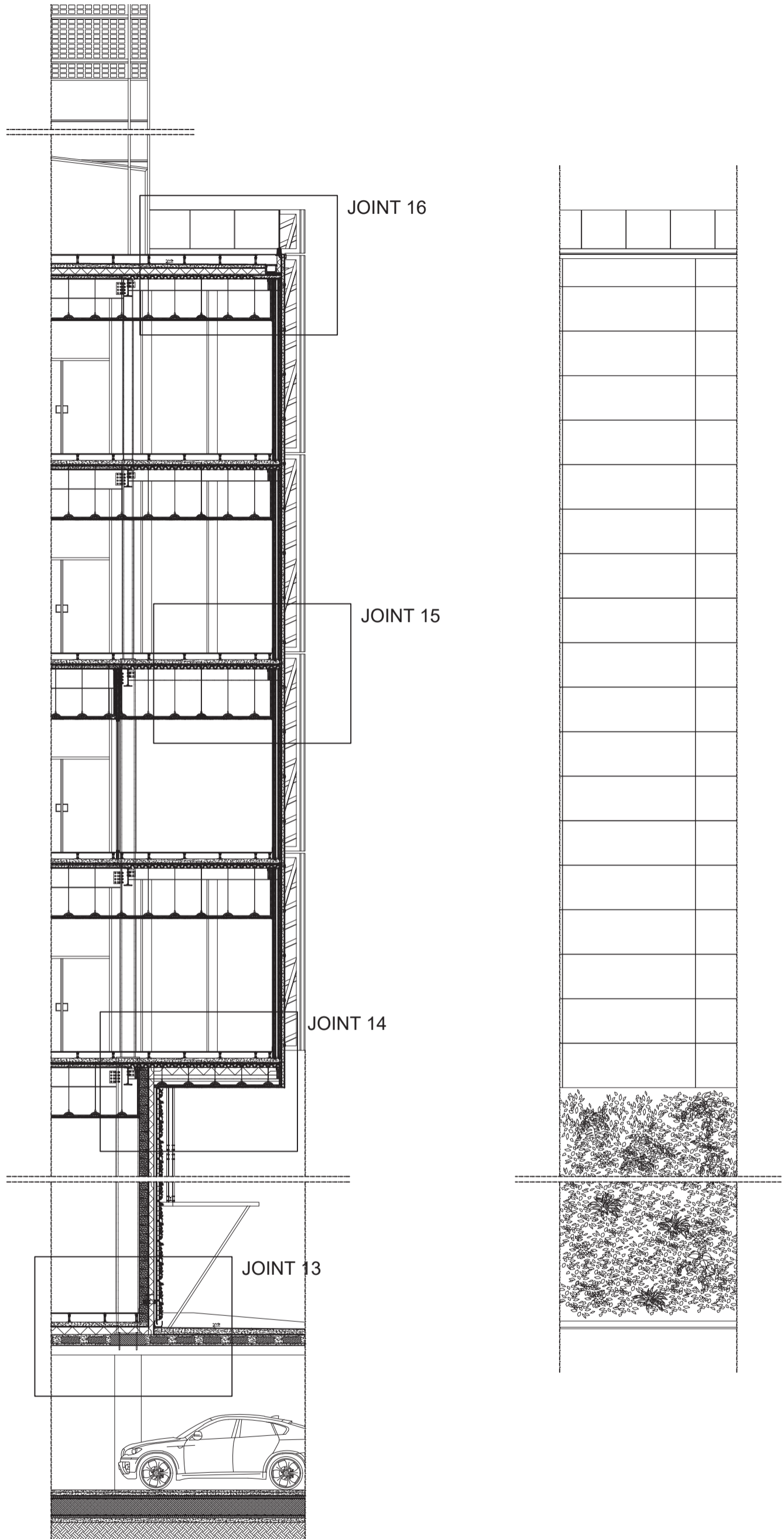
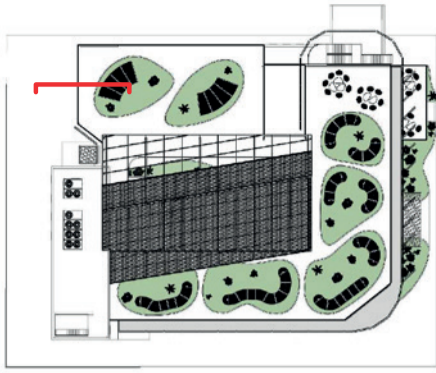
Scale:


1:15

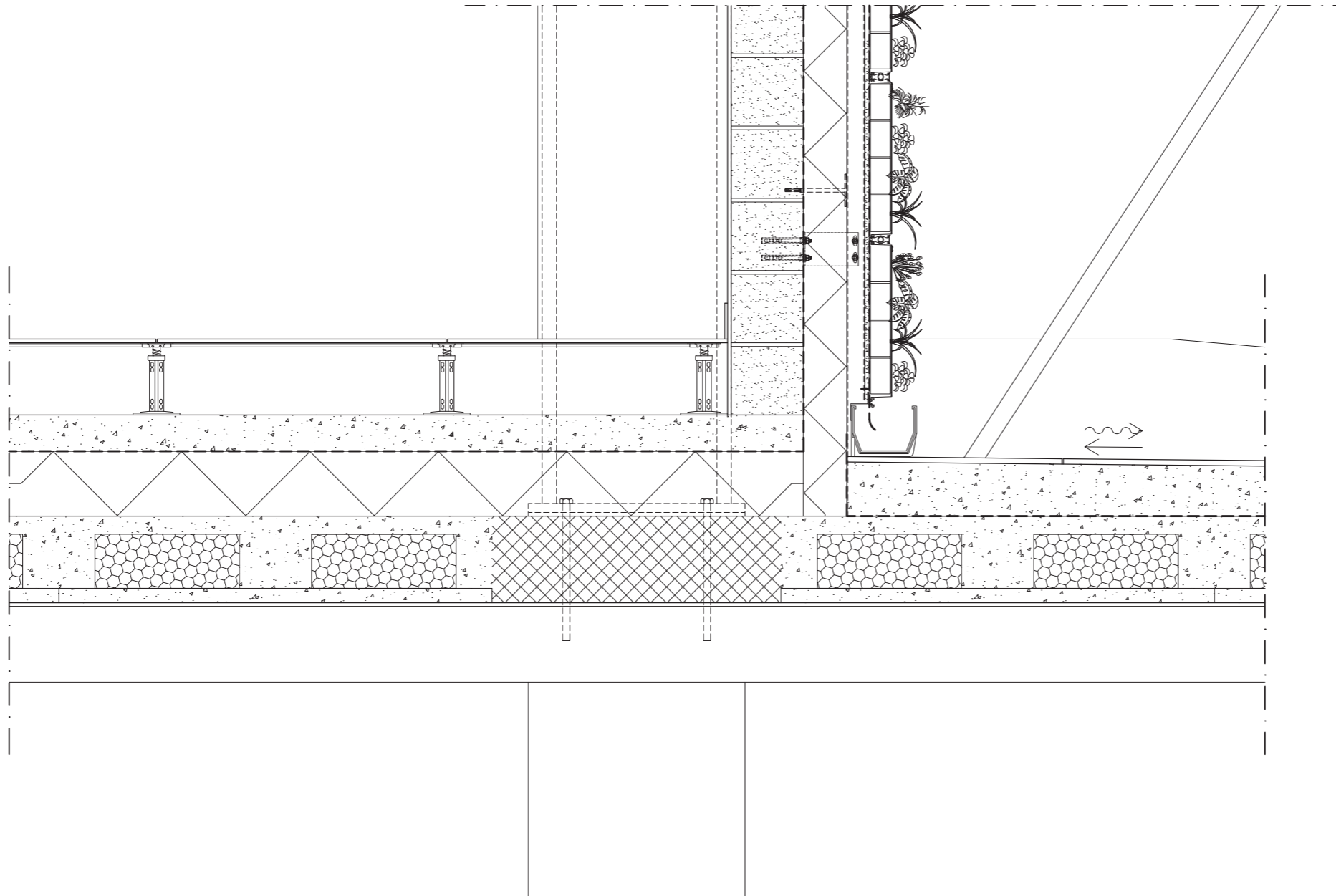
Board number:

D-12





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Riccardo Bornati - 953541

Board description:

Detail: Joint 13

Scale:

1:15

Board number:

D-13



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Riccardo Bornati - 953541

Board description:

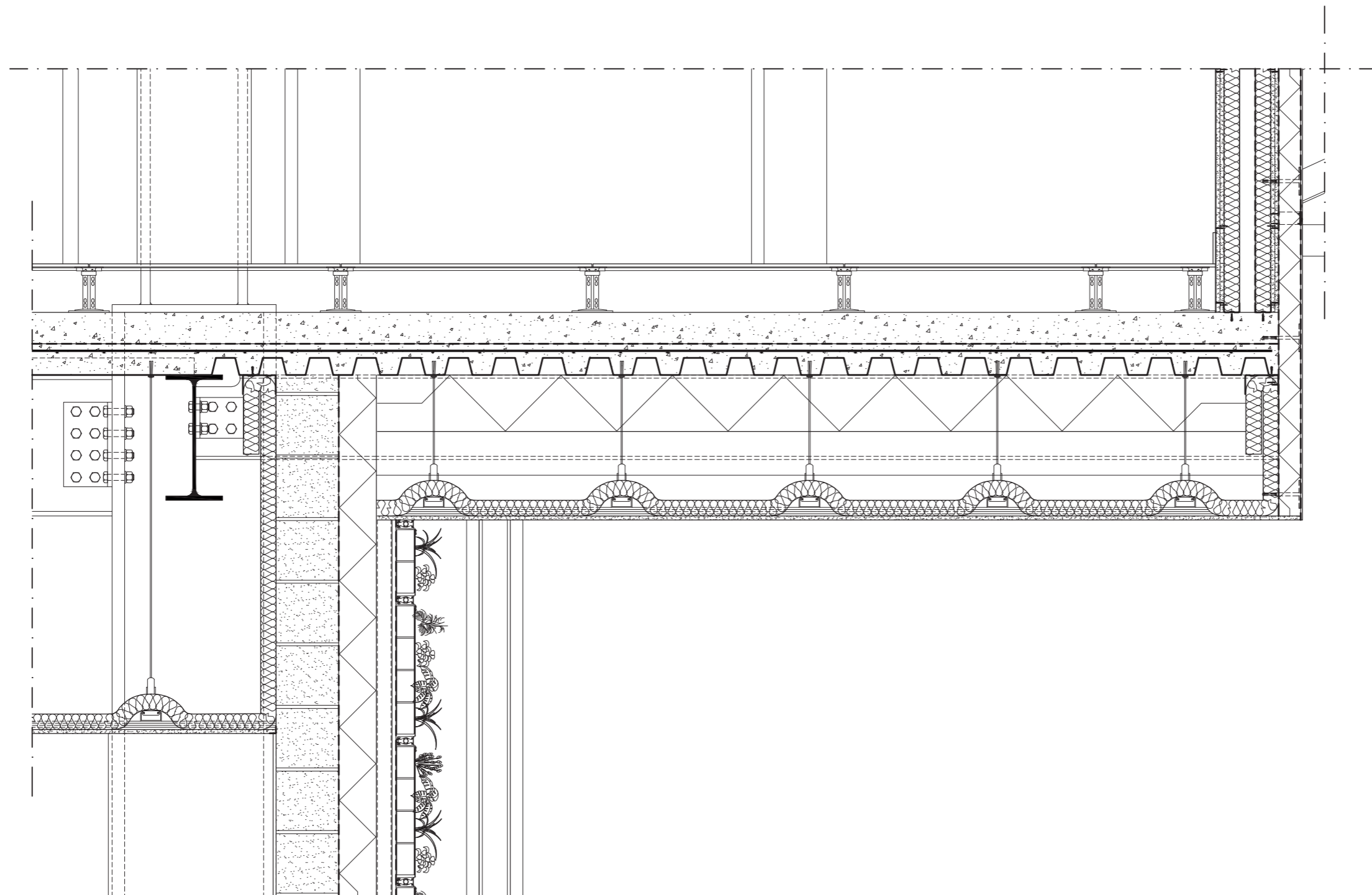
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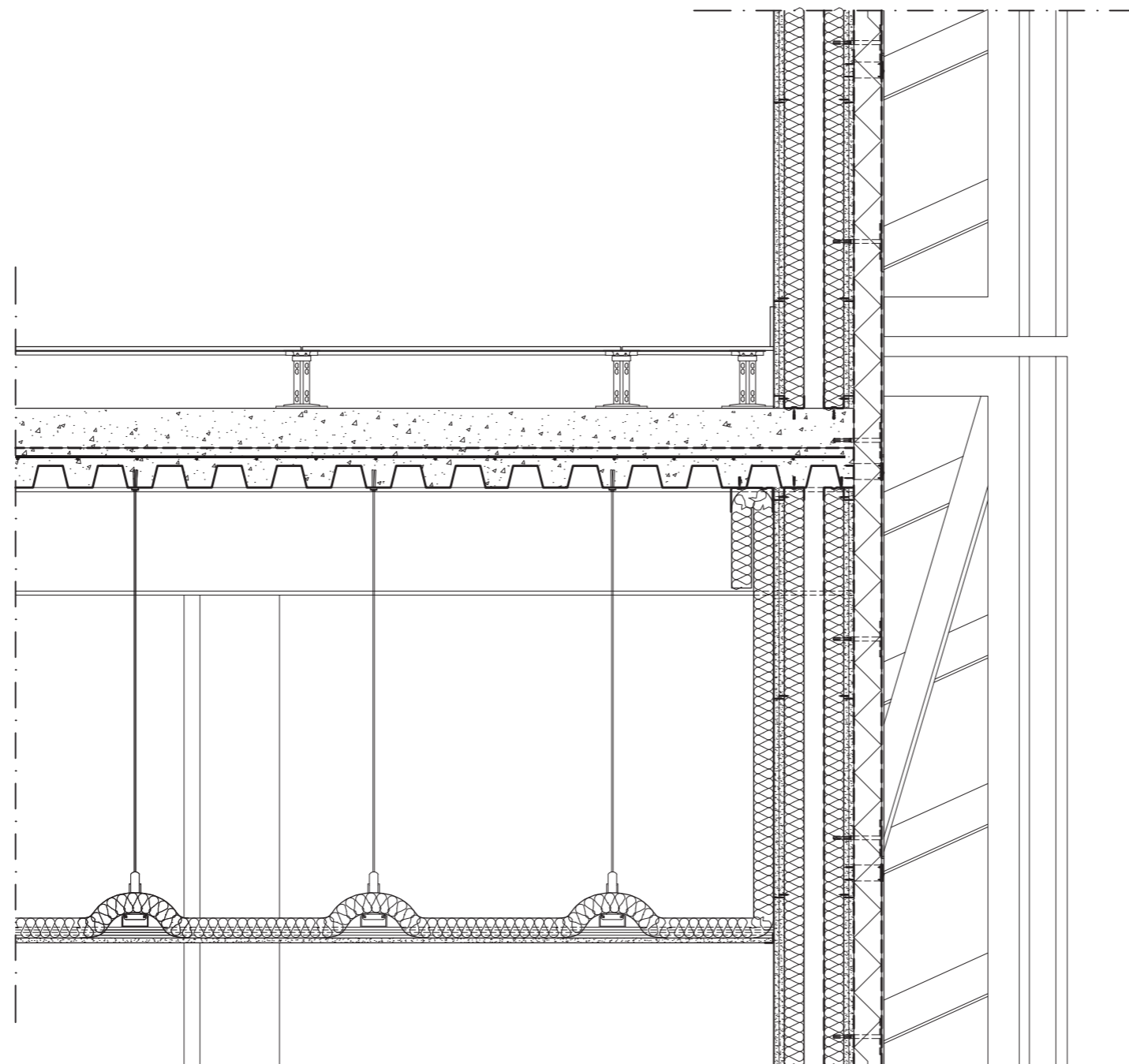
Scale:

1:15

Board number:

D-14





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Riccardo Bornati - 953541

Board description:

Detail: Joint 15

Scale:

1:15

Board number:

D-15



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Jose Angel Arcila Gonzalez – 951130
Riccardo Bornati - 953541

Board description:

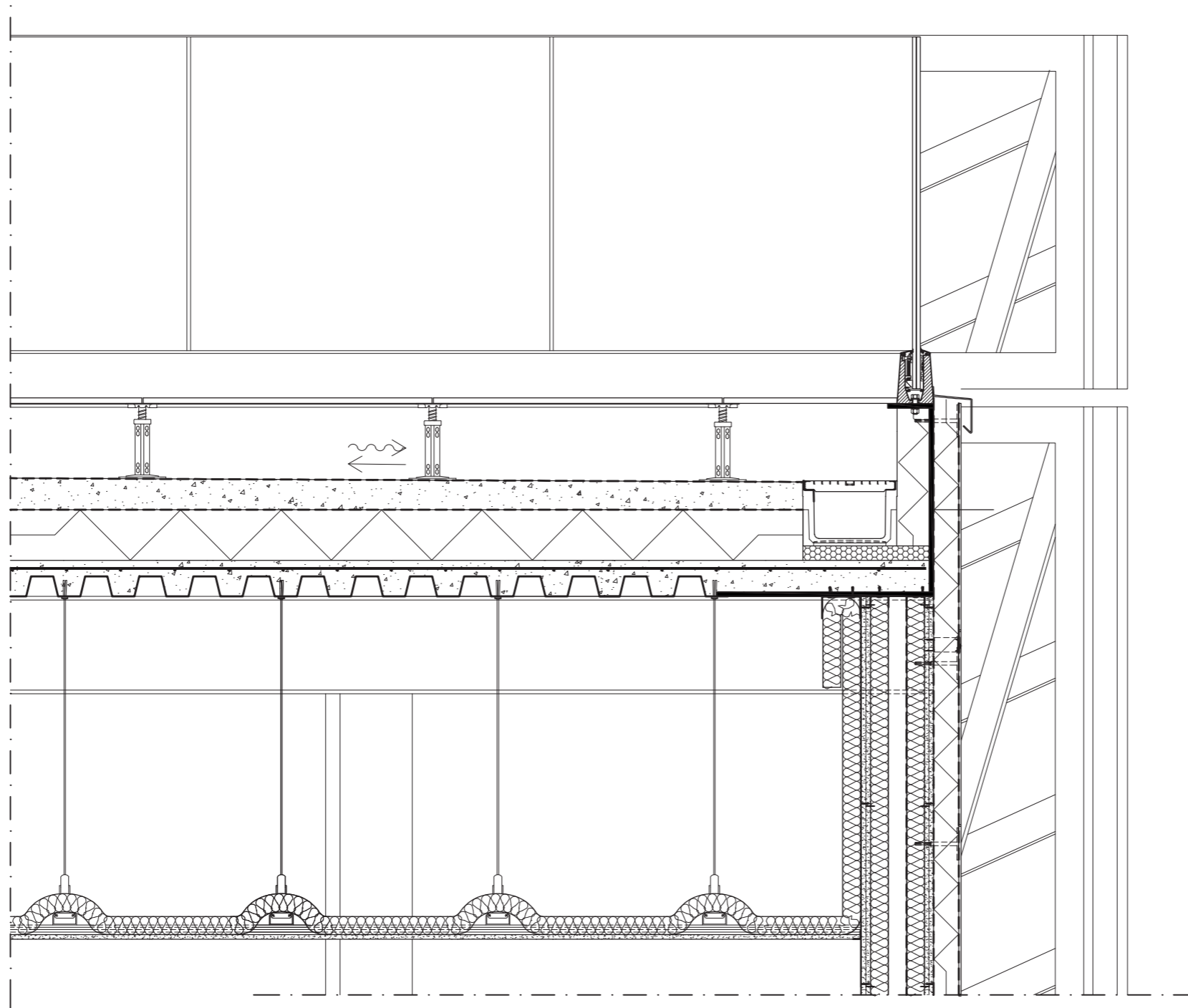
Detail: Joint 16

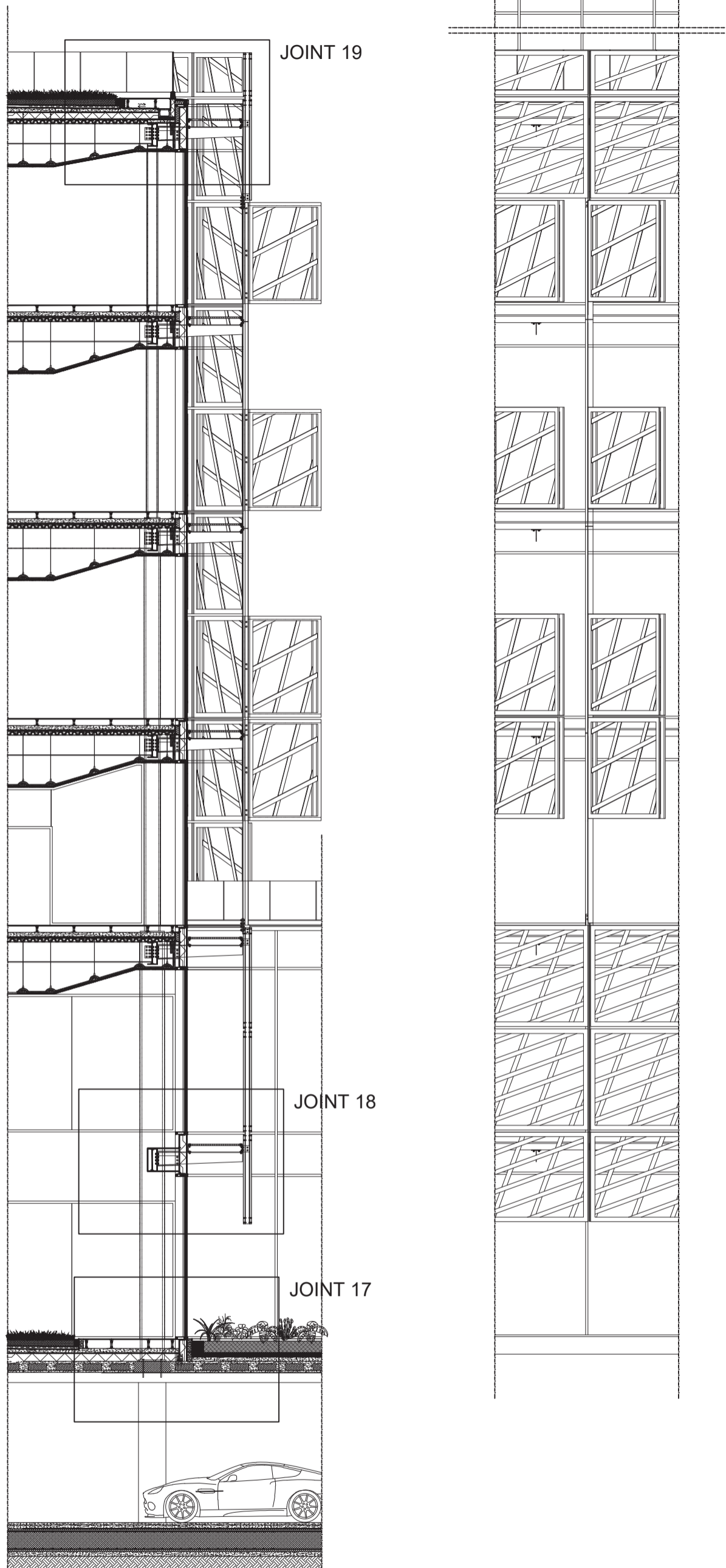
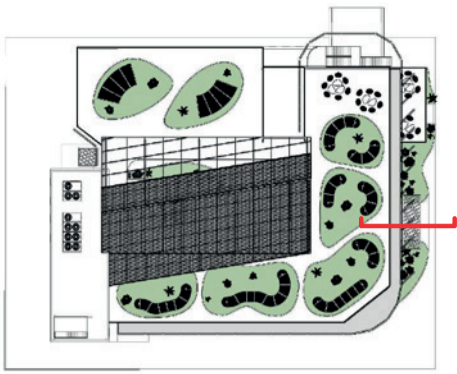
Scale:


1:15

Board number:

D-16





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Riccardo Bornati - 953541

Board description:

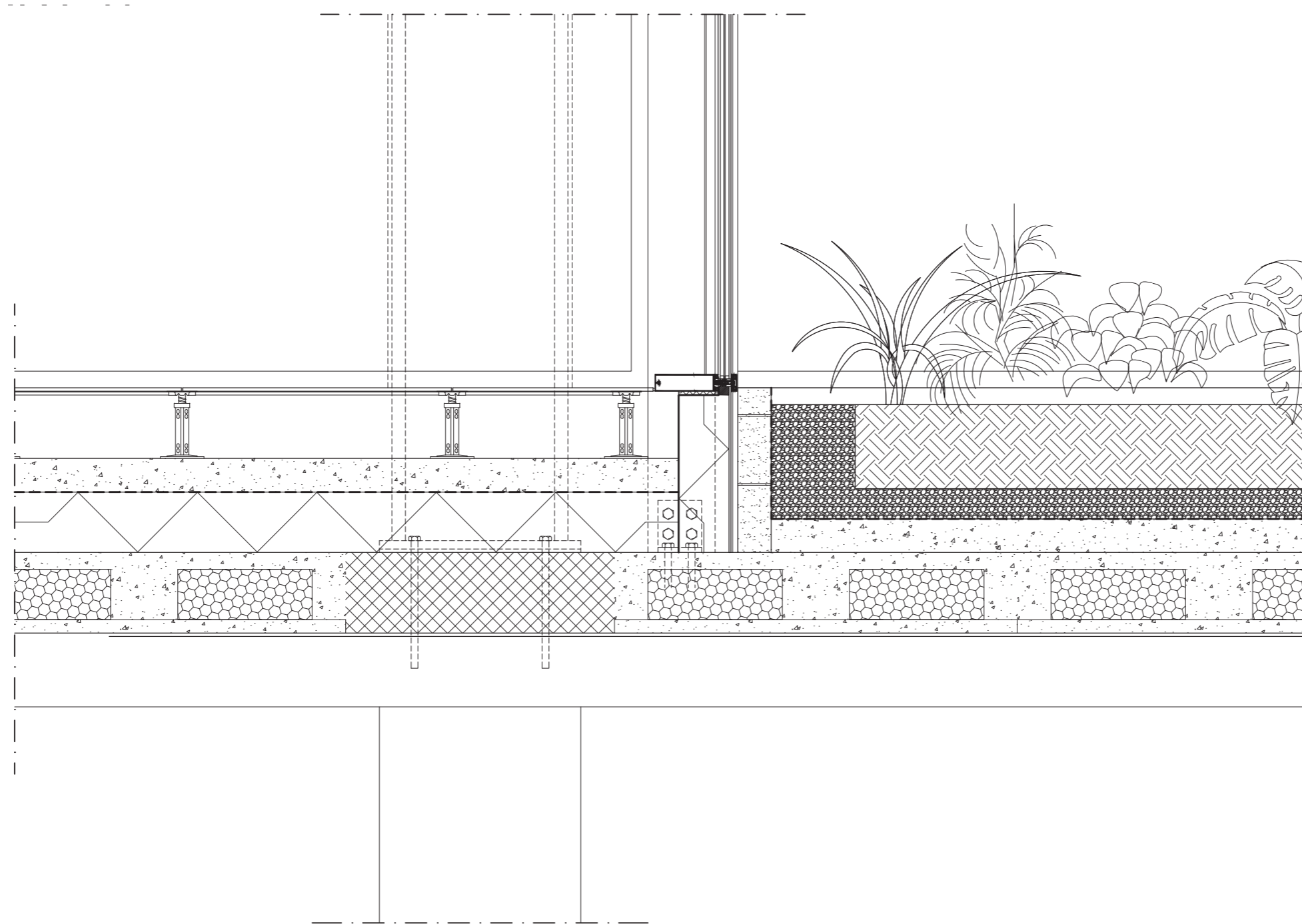
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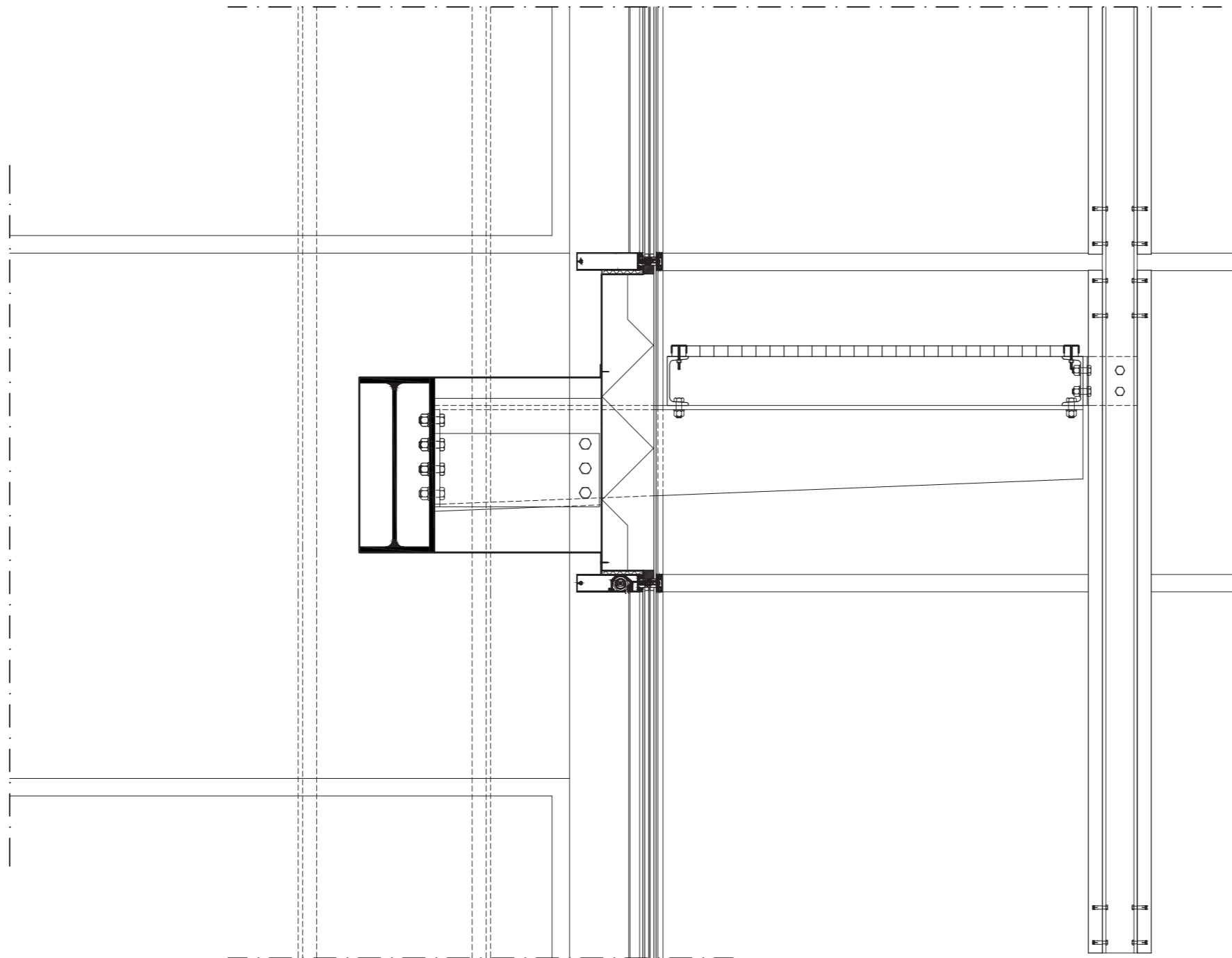
Scale:

1:15

Board number:

D-17





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Jose Angel Arcila Gonzalez – 951130
Riccardo Bornati - 953541

Board description:

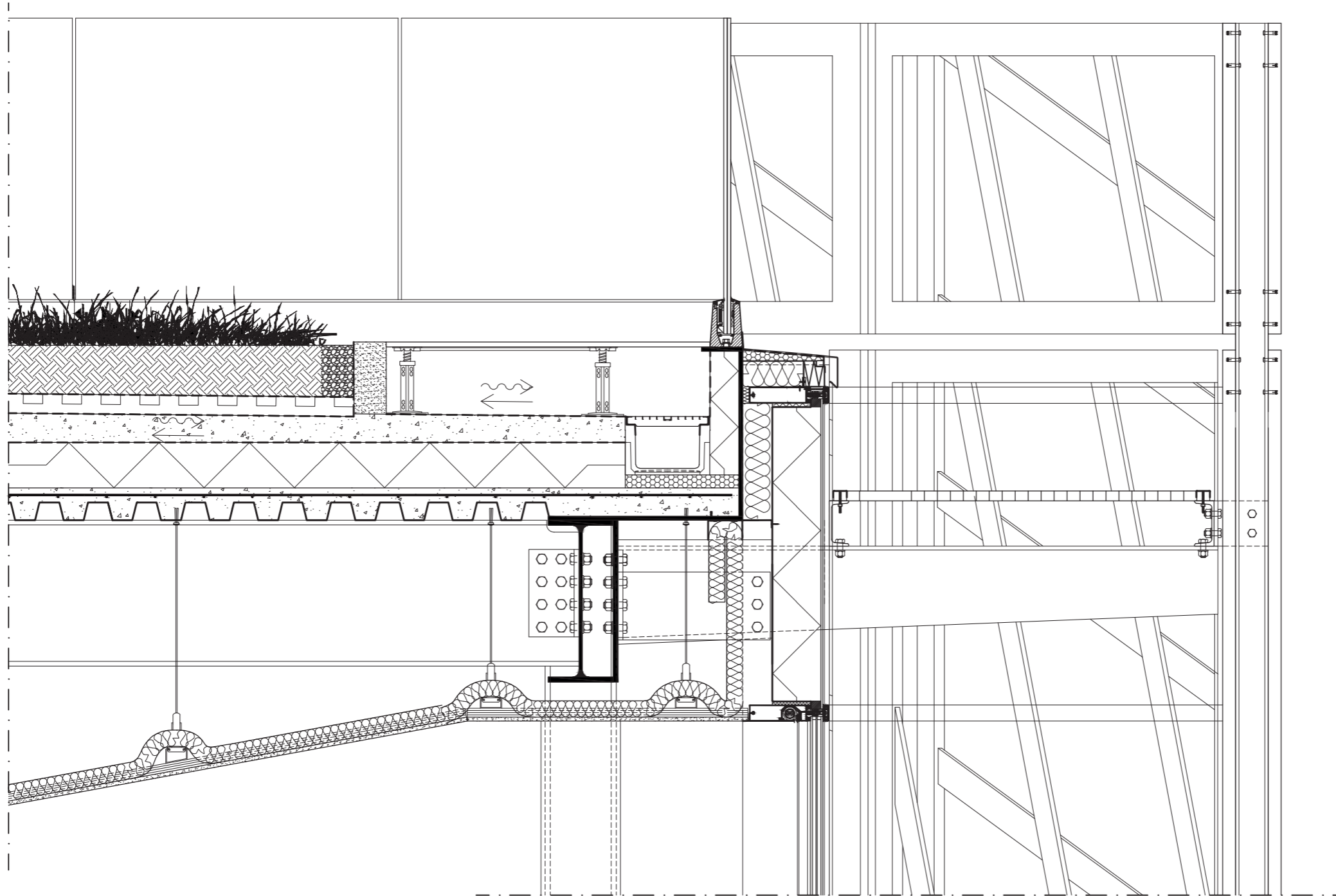
Detail: Joint 18

Scale:

1:15

Board number:

D-18



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Board description:

Detail: Joint 19

Scale:

1:15

Board number:

D-19



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Board description:

**Exterior view from
Southeast**

Scale:

N/A

Board number:

V-1



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Board description:

**Interior view from
Cafe, mezzanine**

Scale:

N/A

Board number:

V-2



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Board description:

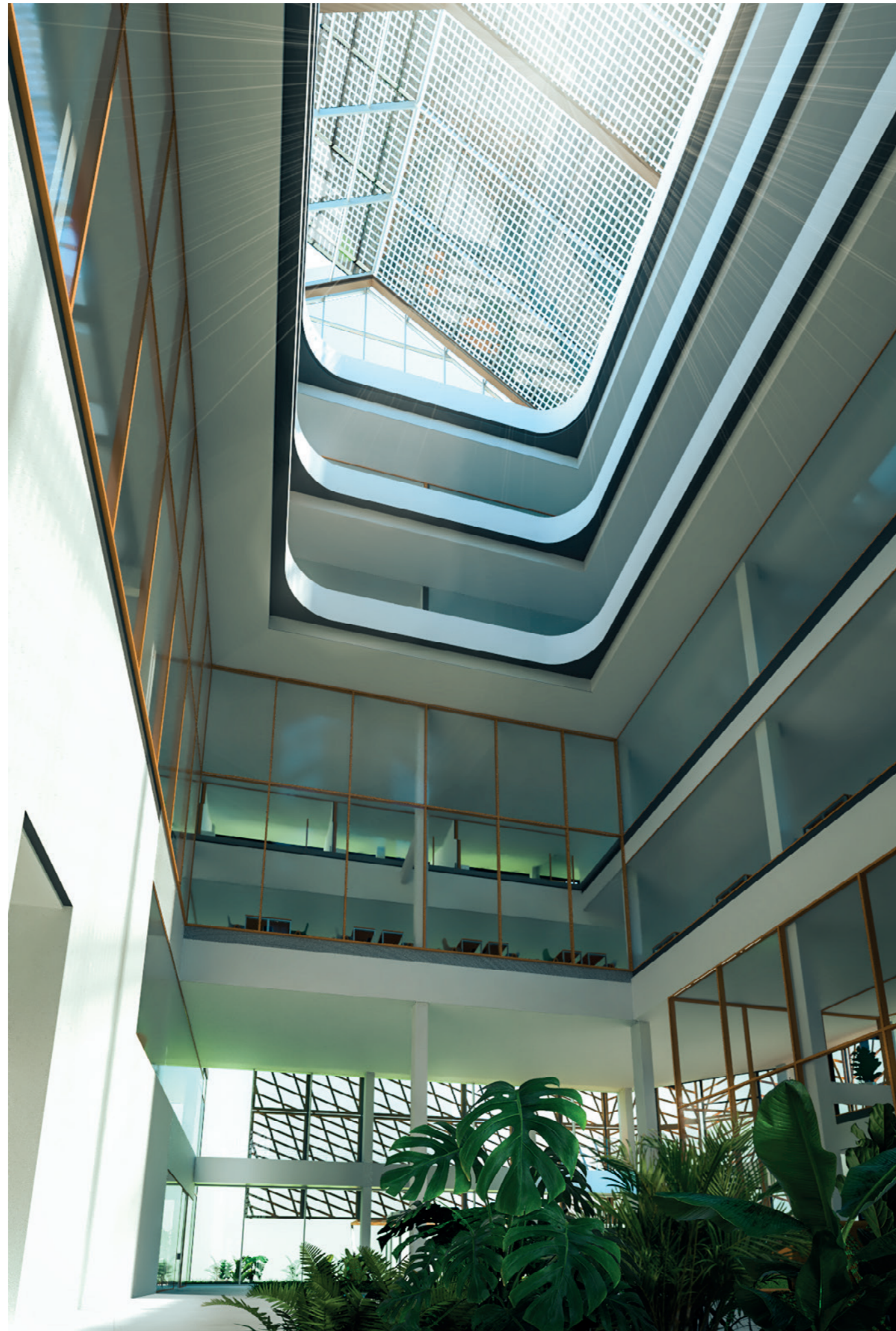
**Interior view from
study room**

Scale:

N/A

Board number:

V-3



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Board description:

**Interior view of the
atrium**

Scale:

N/A

Board number:

V-4



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Board description:

**Interior view from
offices, 2nd floor**

Scale:

N/A

Board number:

V-5



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Eugenia Victoria Ellis

Co-authored by:

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Riccardo Bornati - 953541

Board description:

**Interior view of
laboratories**

Scale:

N/A

Board number:

V-6





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Board description:

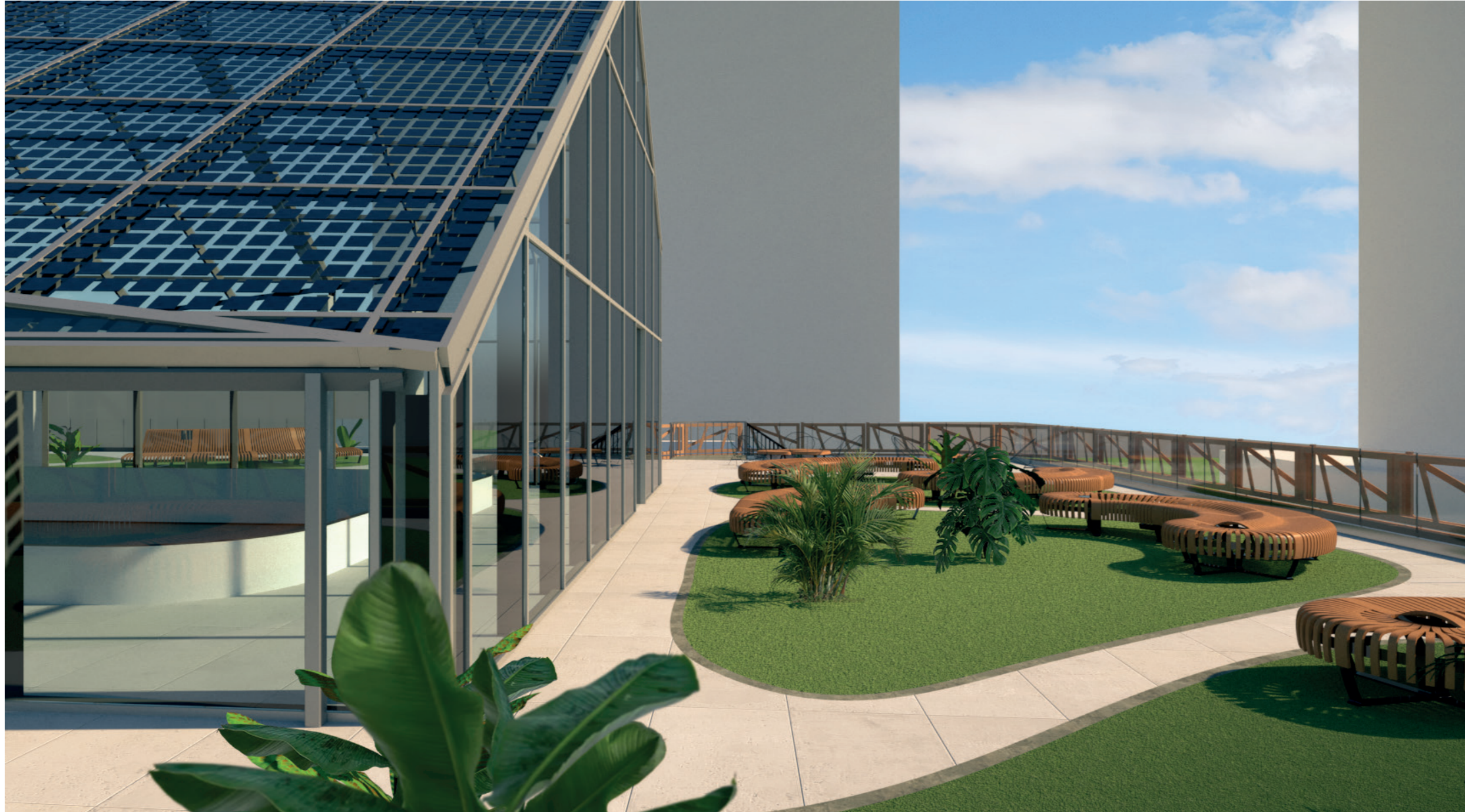
**View of glazing roof,
level 5**

Scale:

N/A

Board number:

V-7



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Riccardo Bornati - 953541

Board description:

**Exterior view of roof
terrace, level 5**

Scale:

N/A

Board number:

V-8