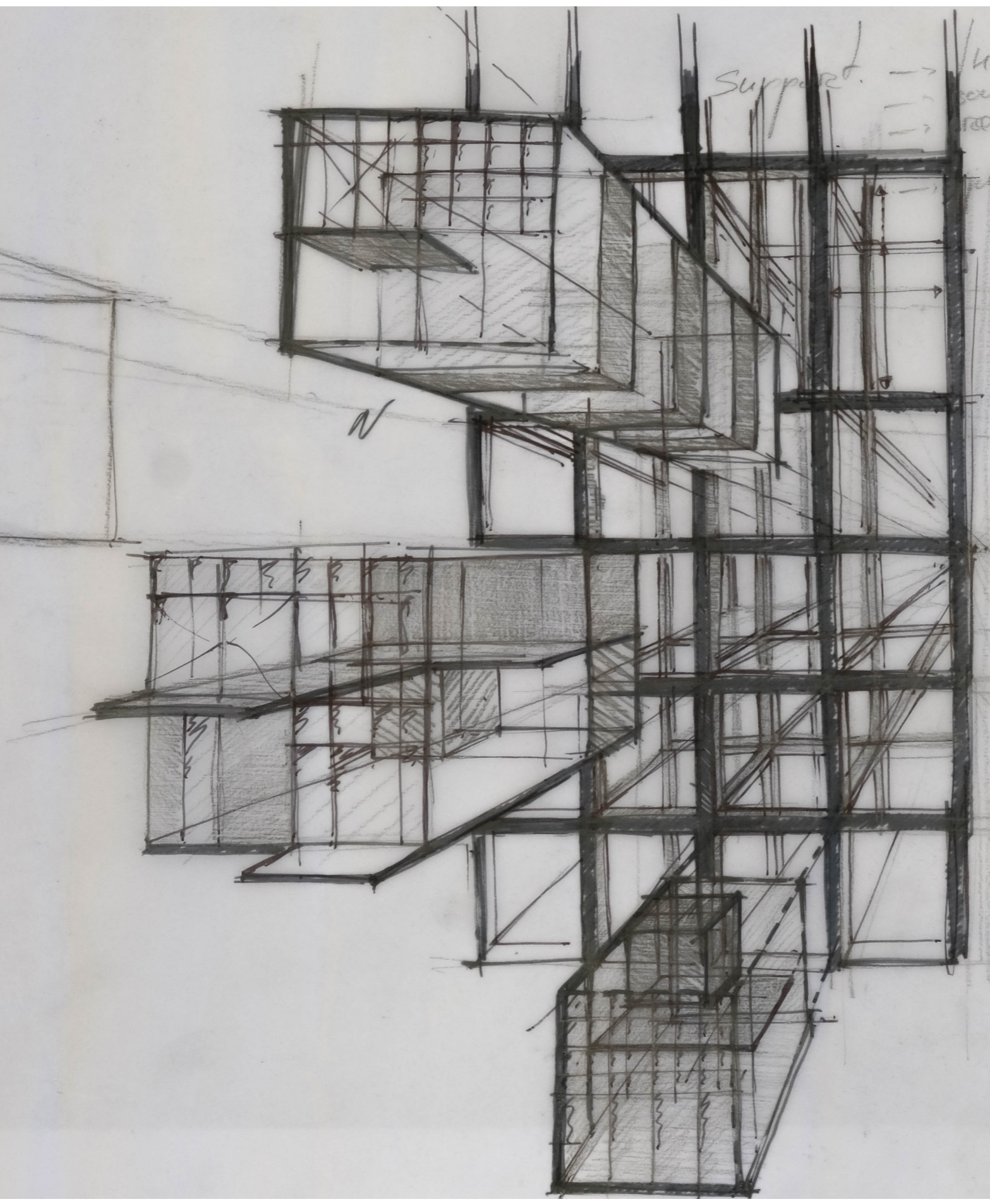






the Supportive City

the mass-customisation of urban housing



Support. →

the ^{structure} support
BOUND TO ^{content} content
providing collective spaces
offering vibrant life.

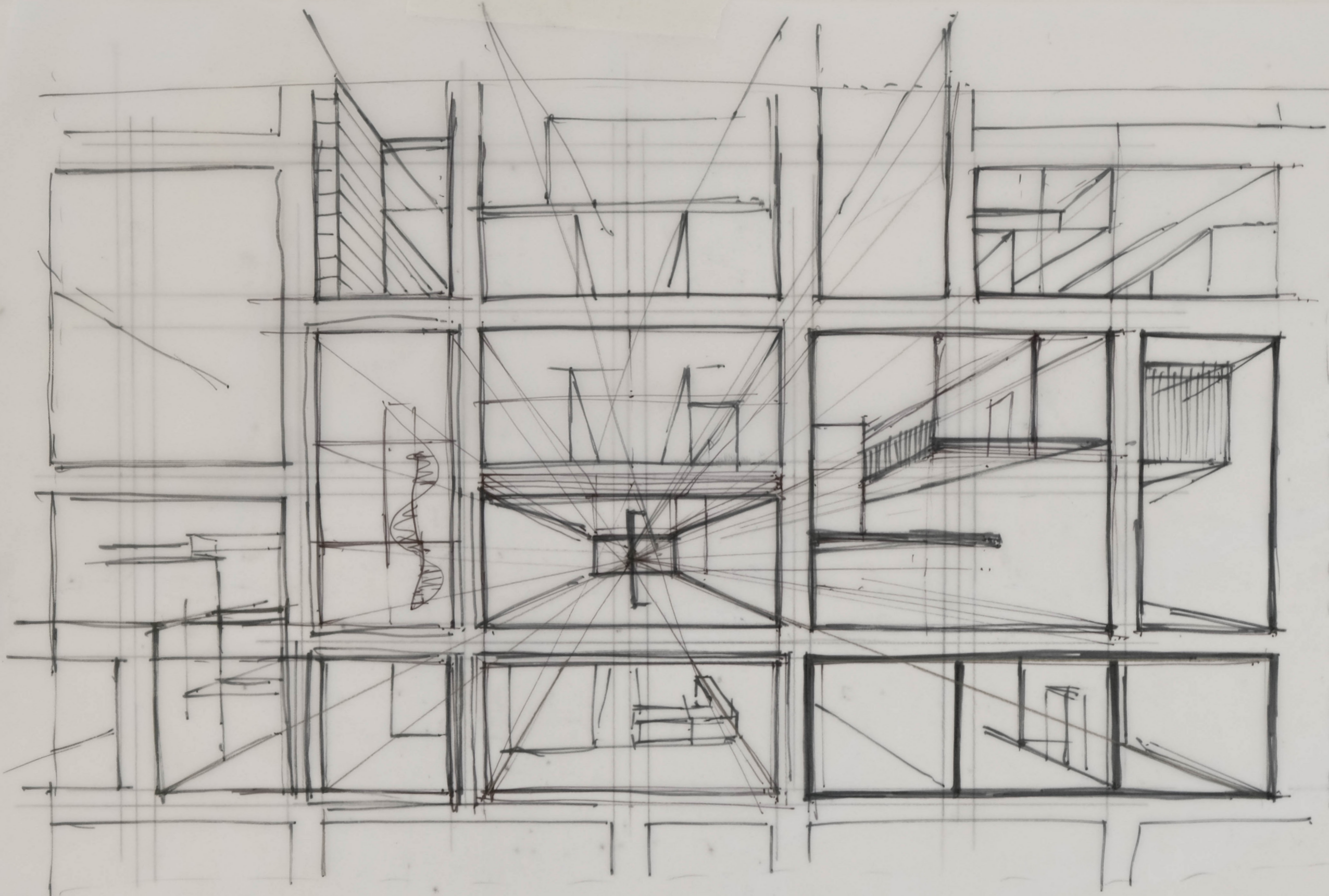
FAMES
DIAGRA

correct
quantity

UNI
PAA

inspirational!
NEED BEARDS.





+1
Dichte
Verstärk.
= etw. mehr.
+2
swach
Net.



| U s e r

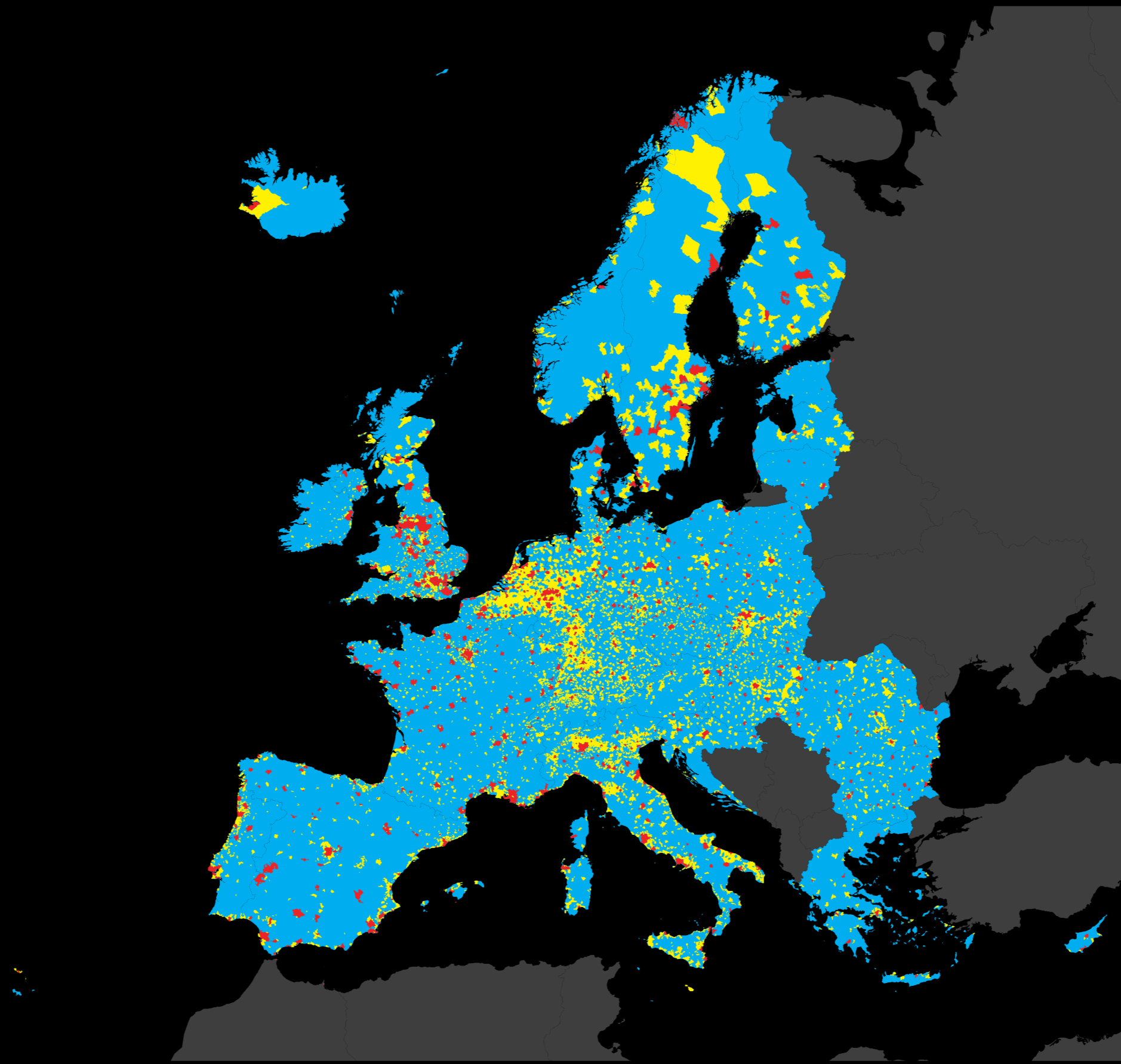
|| M a C u B S 1 . 0

||| S u p p o r t C i t y

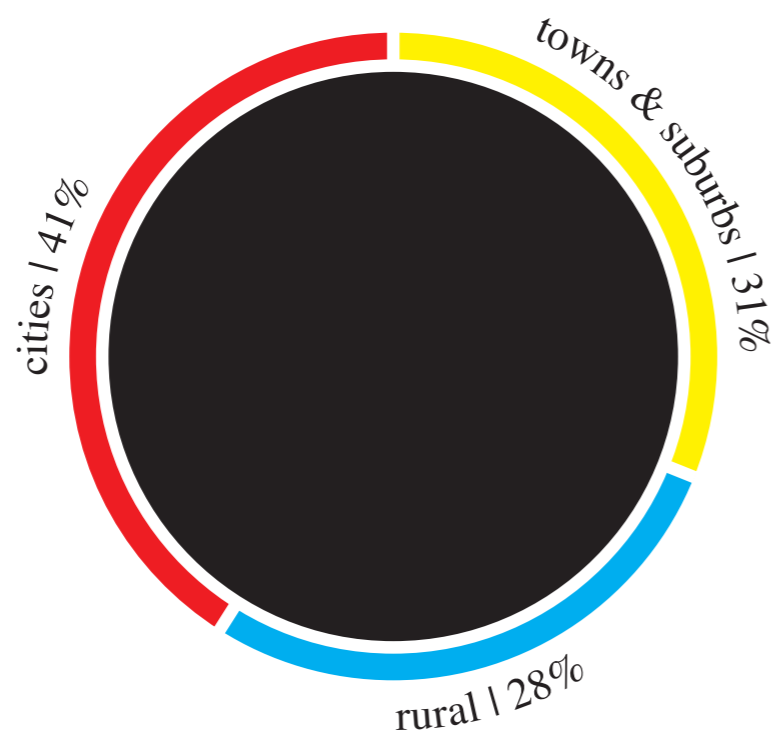


u s e r

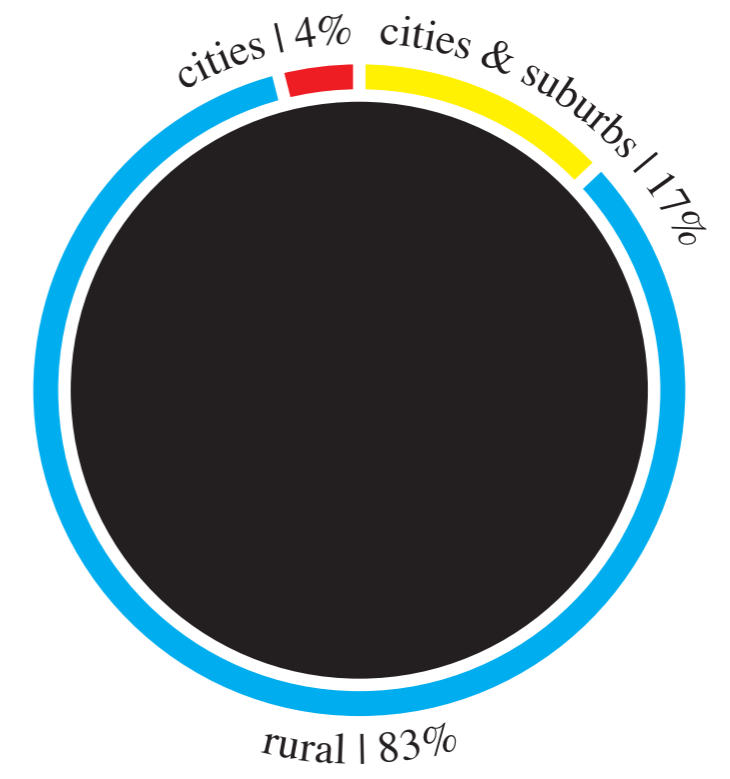
problem statement



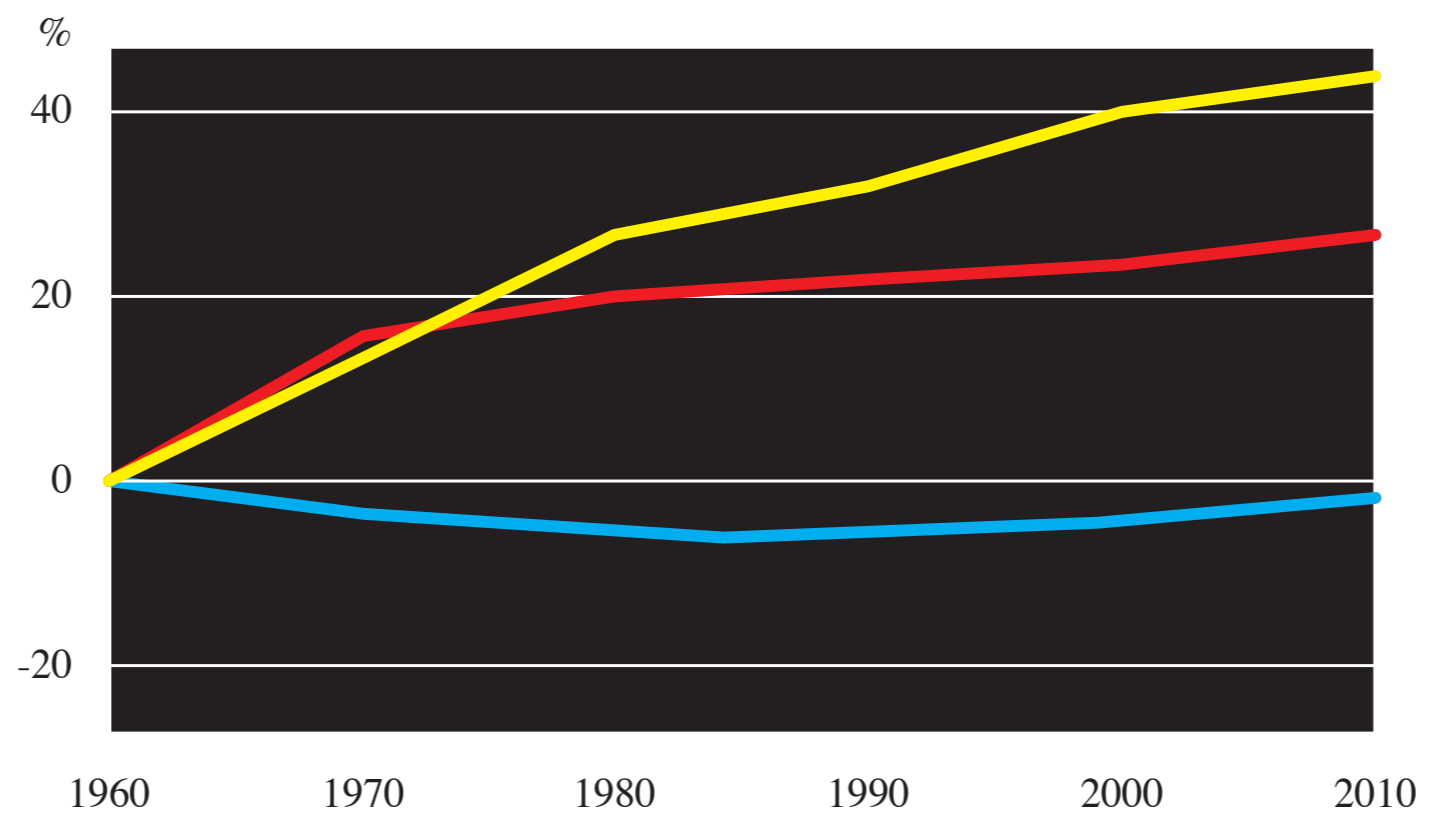
- cities
- towns & suburbs
- rural



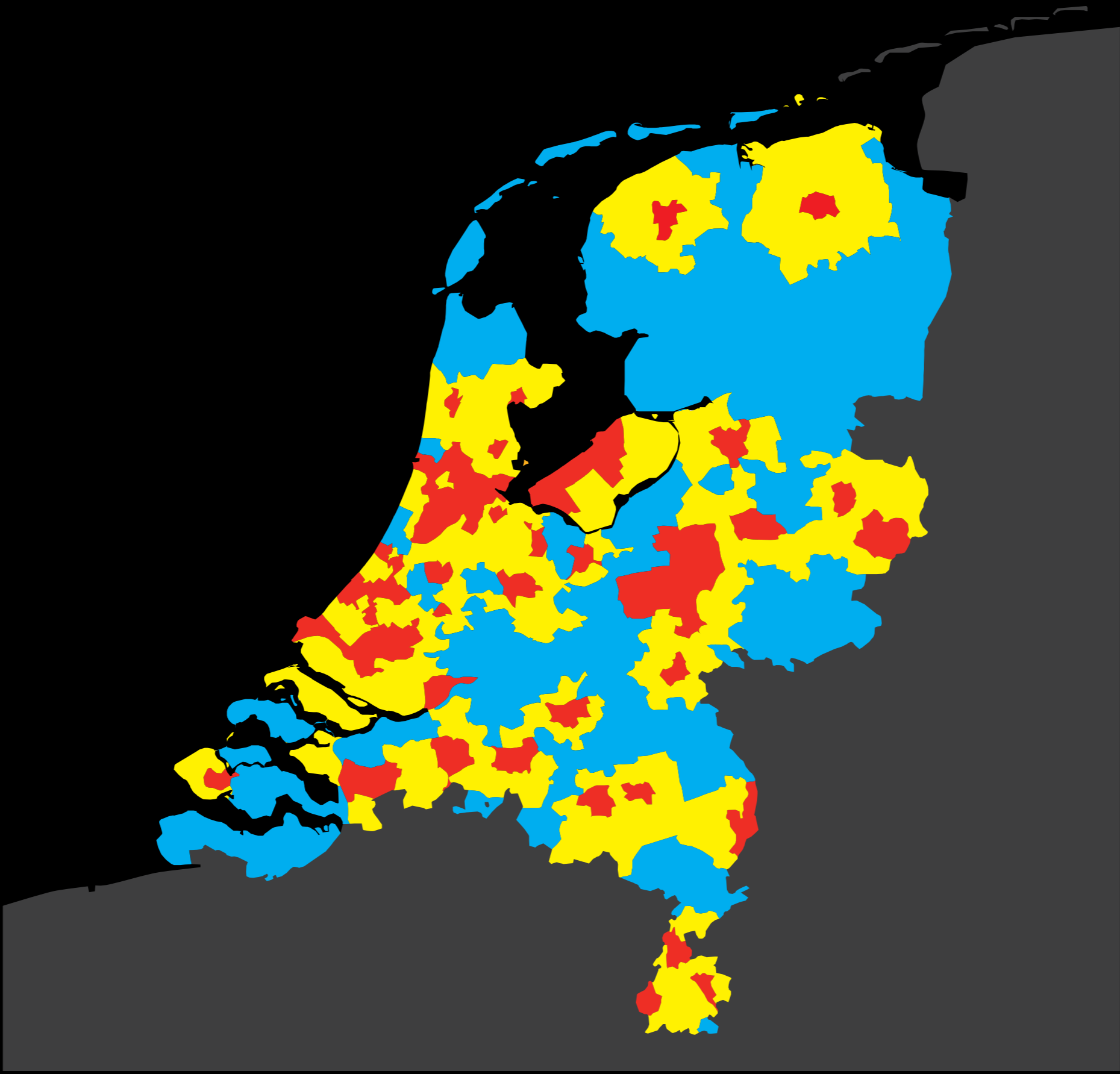
72% of the EU population lives in urban areas..



...on 17% of the land area...



...and the urban population will continue to grow.



- cities
- towns & suburbs
- rural



| miss-match in supply & demand

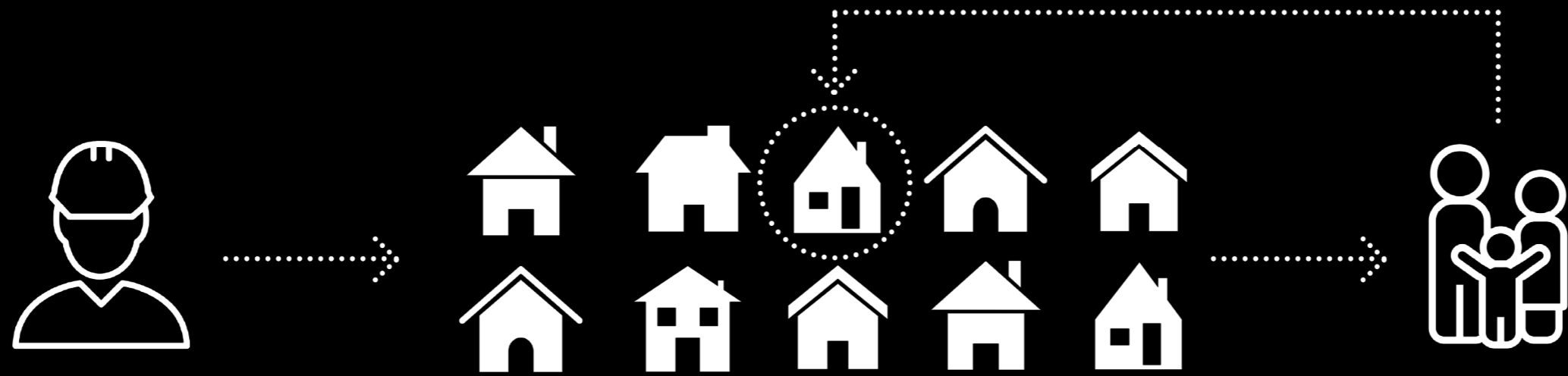
|| variety in demand

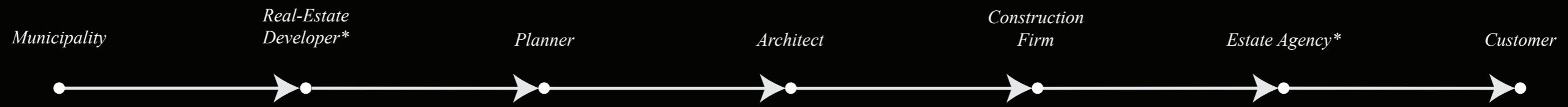


user-involvement
in housing development

‘How can users get efficiently involved in the development of customised housing for the Western Metropolis?’

categorisation

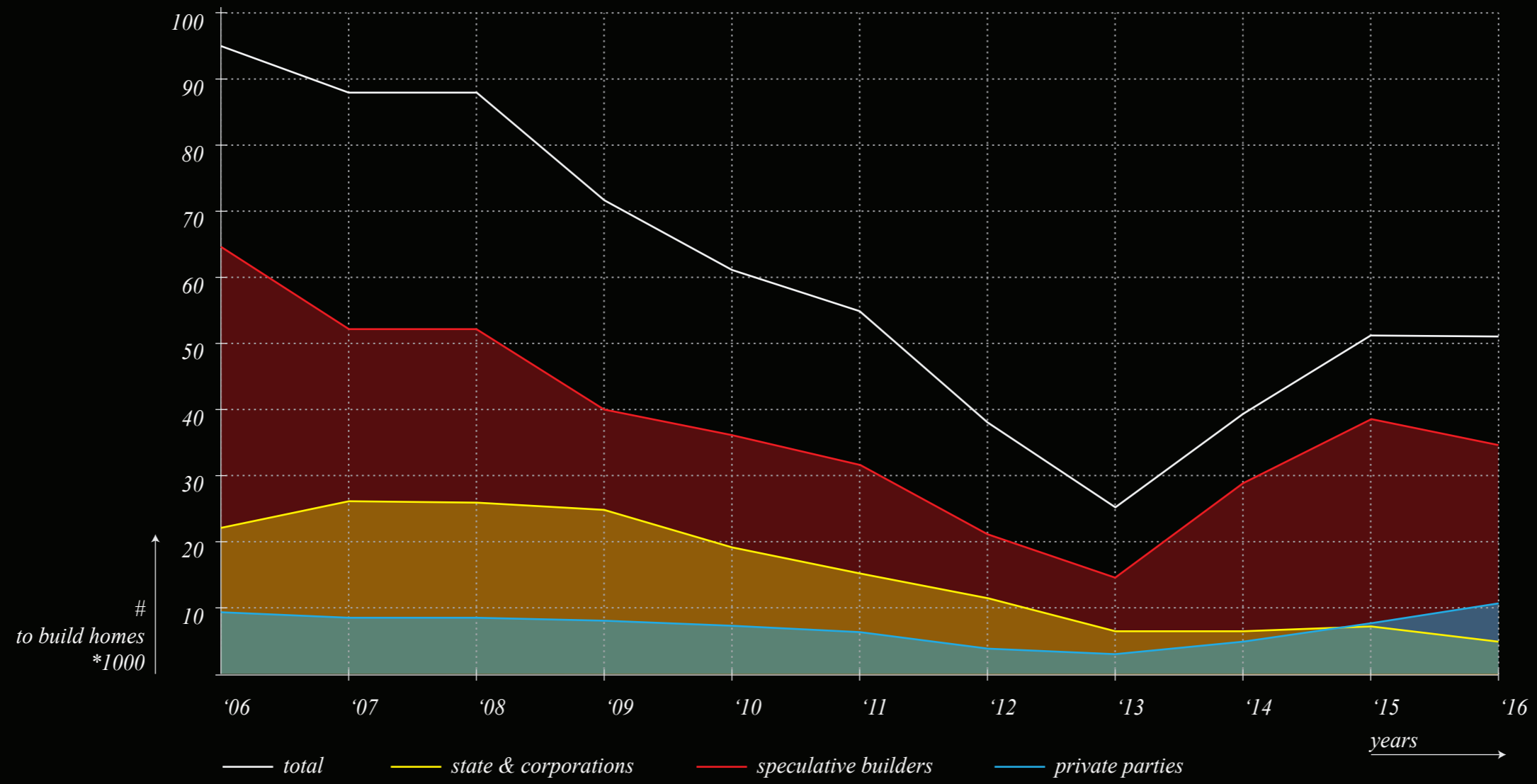


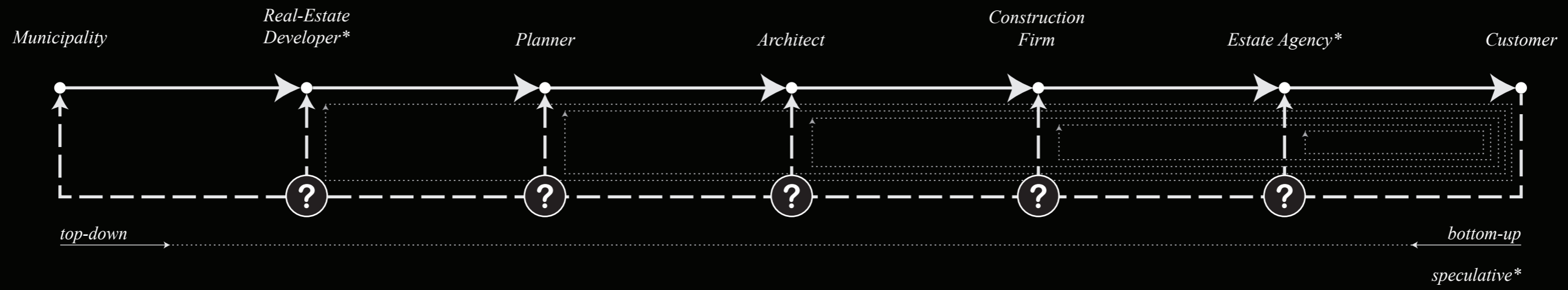


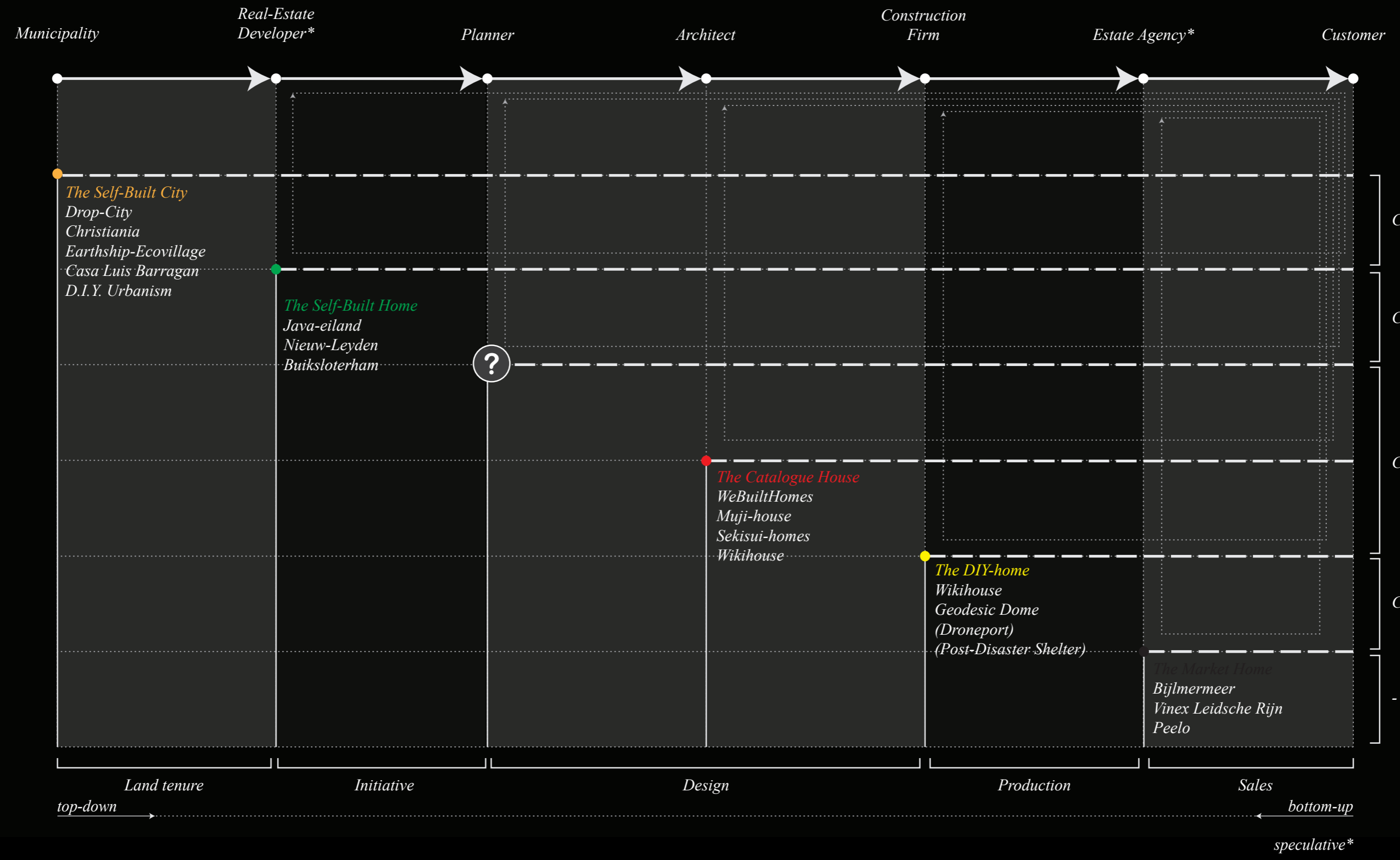
top-down →

← *bottom-up*
*speculative**

Speculative | Self-built





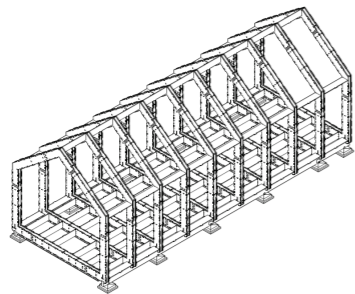
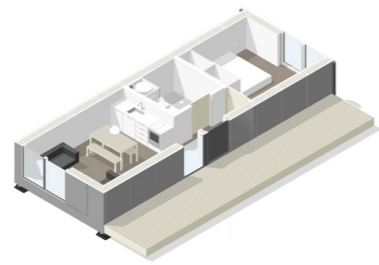
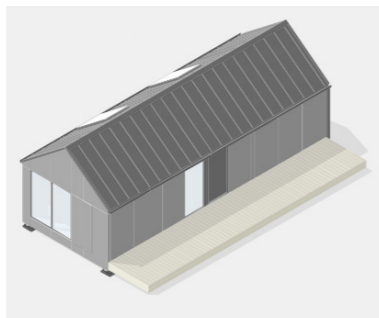


the mass customisation of urban housing

The DIY Home

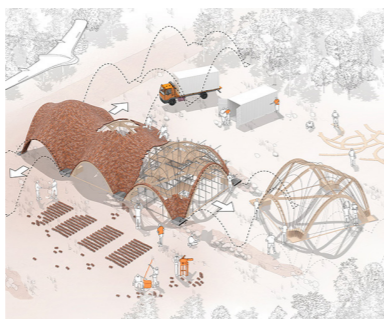
Microhouse

Wikihouse
UK - 2017



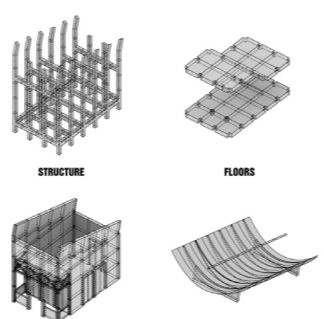
Droneport

BRG & Lord Foster
Rwanda - 2016



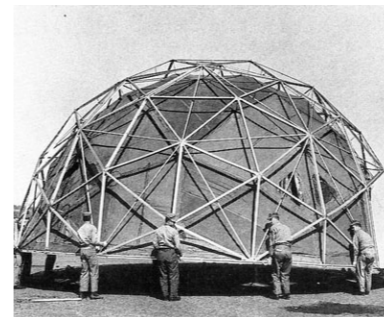
Post-Disaster Shelter

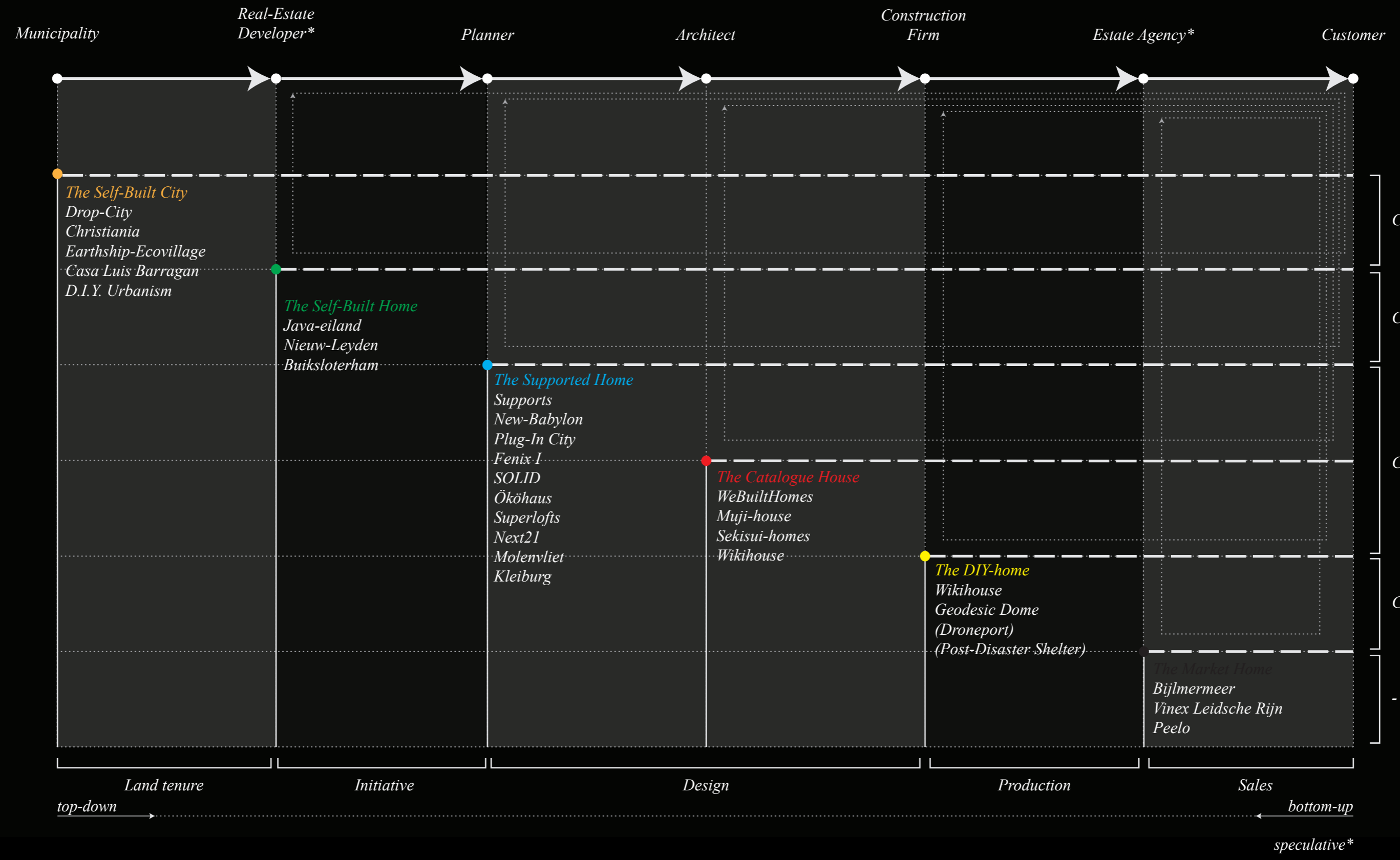
Pieter Stoutjesdijk
Delft - 2013



Geodesic Dome

R. Buckminster Fuller
US - 1954





the mass customisation of urban housing

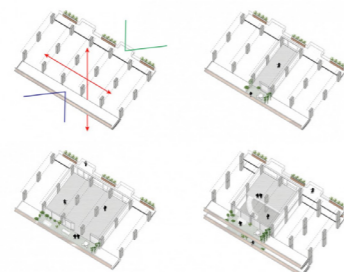
HABRAKEN

SUPPORTS

The Supported Home

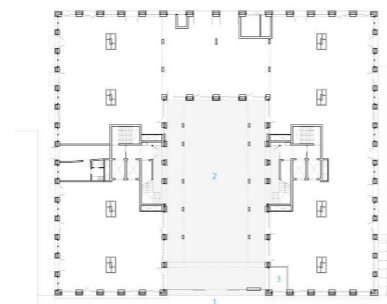
Fenix I

MEI architecten
Rotterdam - 2017



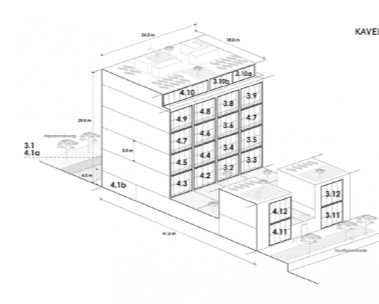
Solid 11

Bijndijk & Tony Fretton
Amsterdam - 2011



Casco-lofts Houthaven

Marc Koehler Architects
Amsterdam - 2017



Ököhaus

Frei Otto
Berlin - 1987



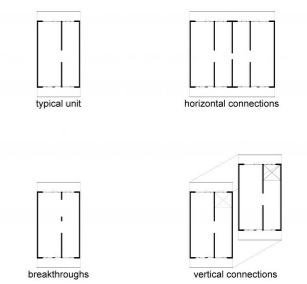
Molenvliet

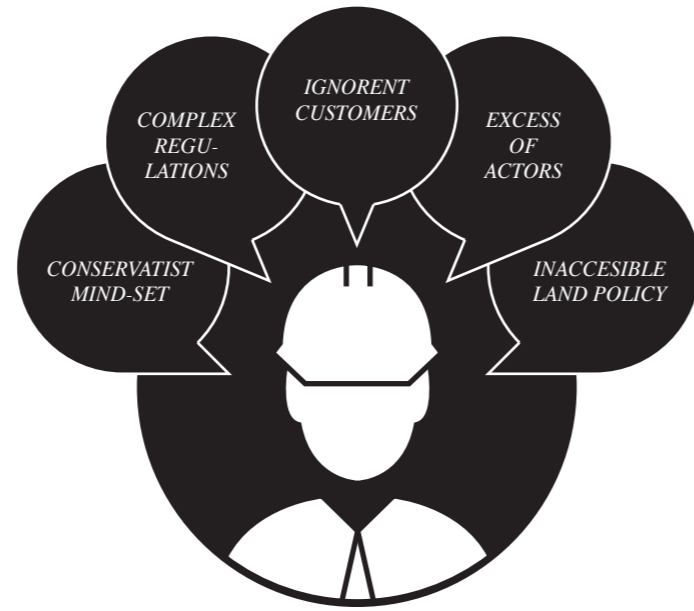
Frans van der Werf
Papendrecht - 1976



Kleiburg

NL architects & XVW architectuur
Amsterdam - 2017





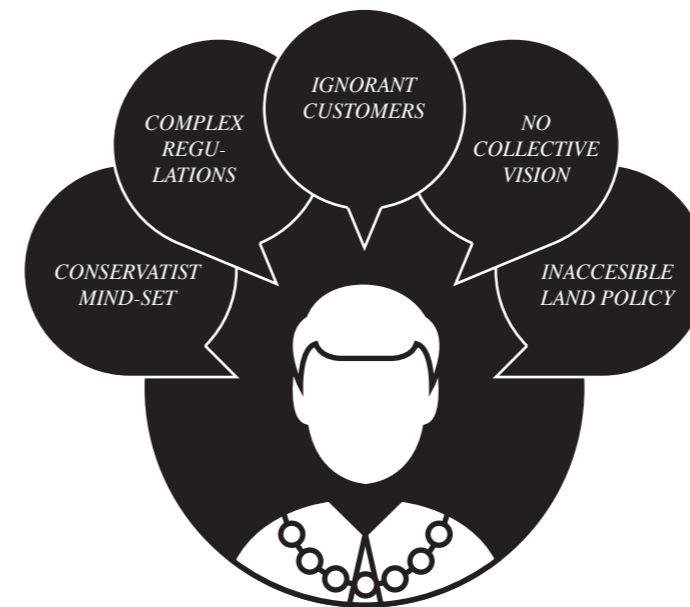
contractor



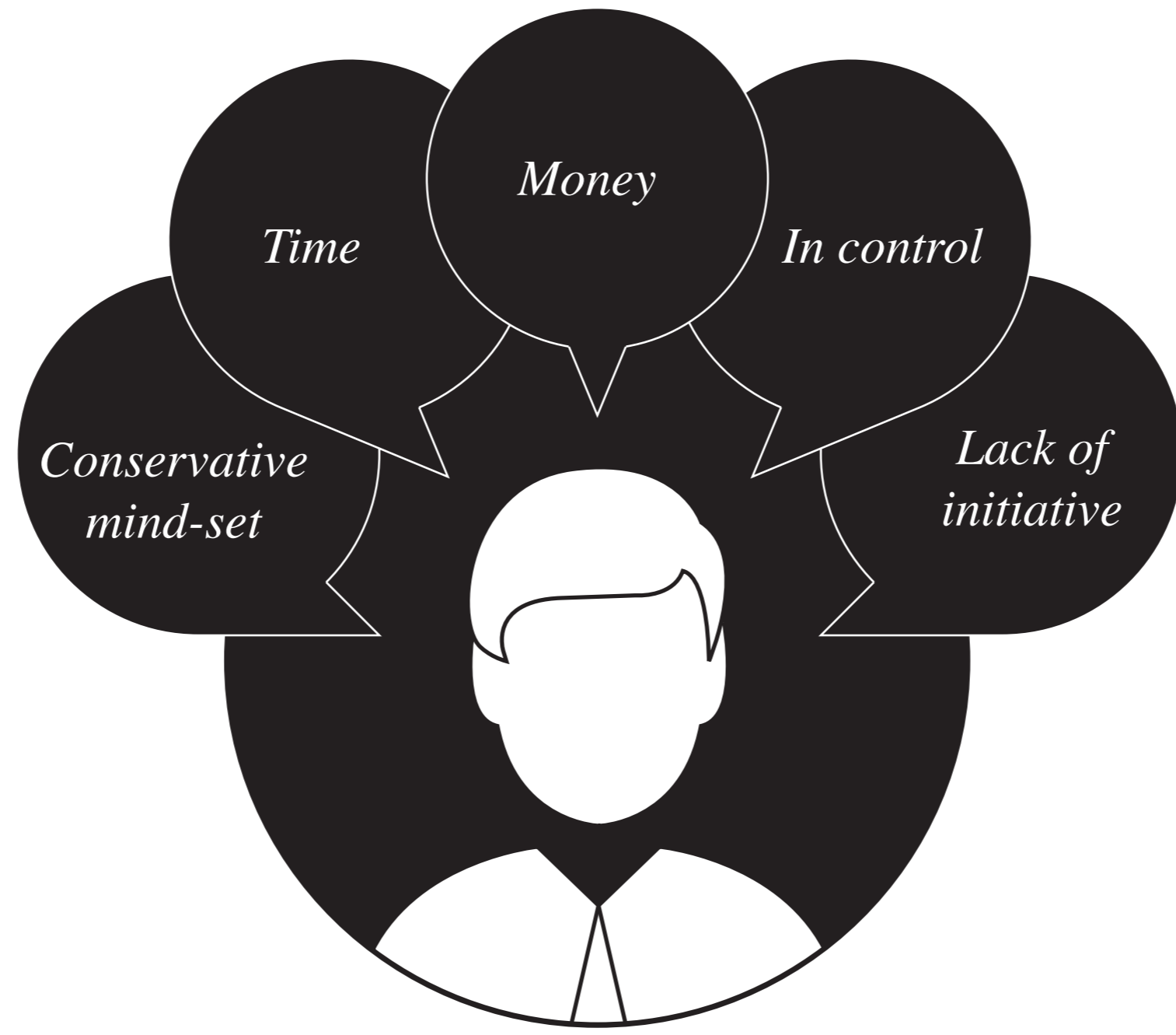
real-estate



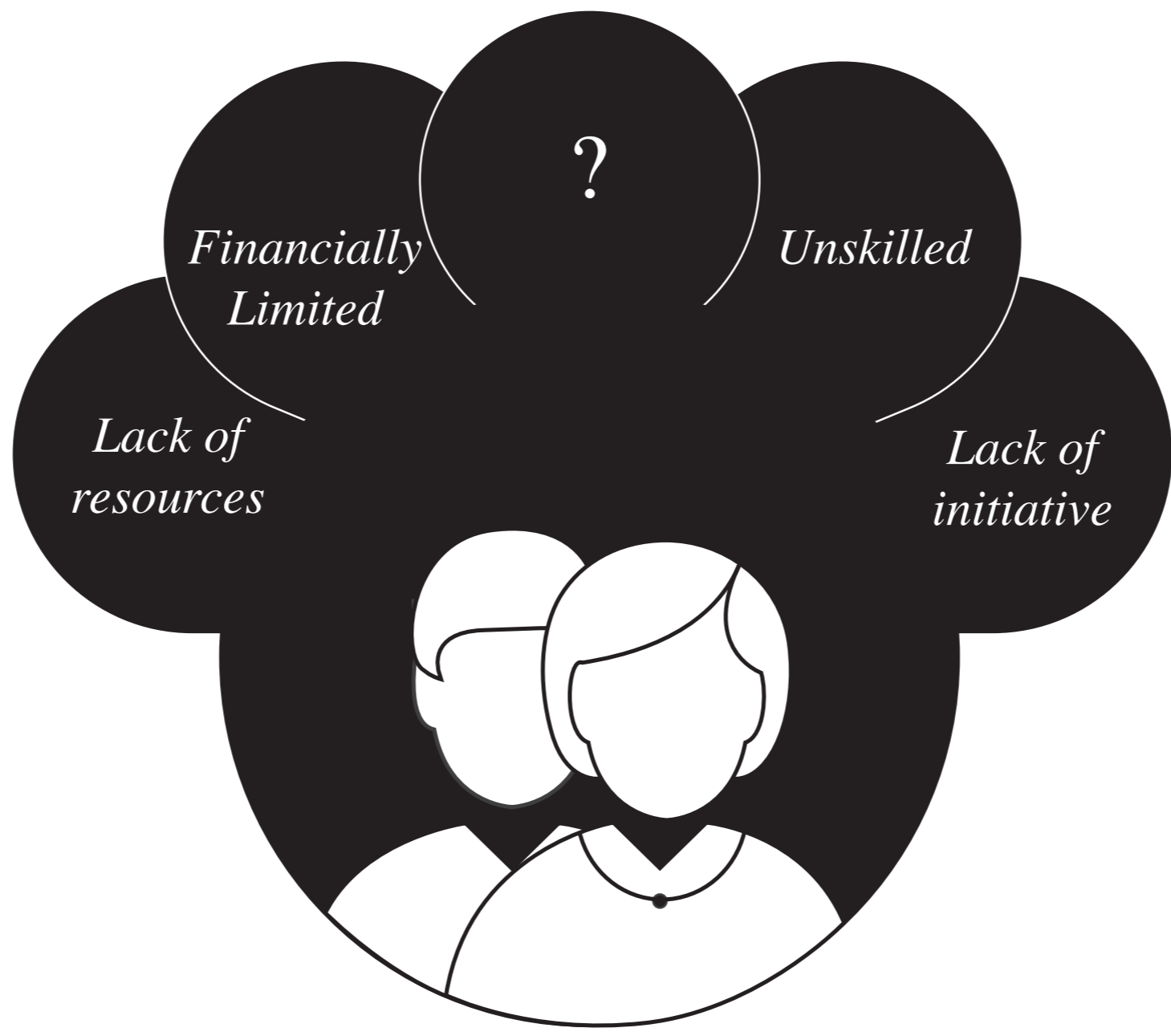
architect



municipality

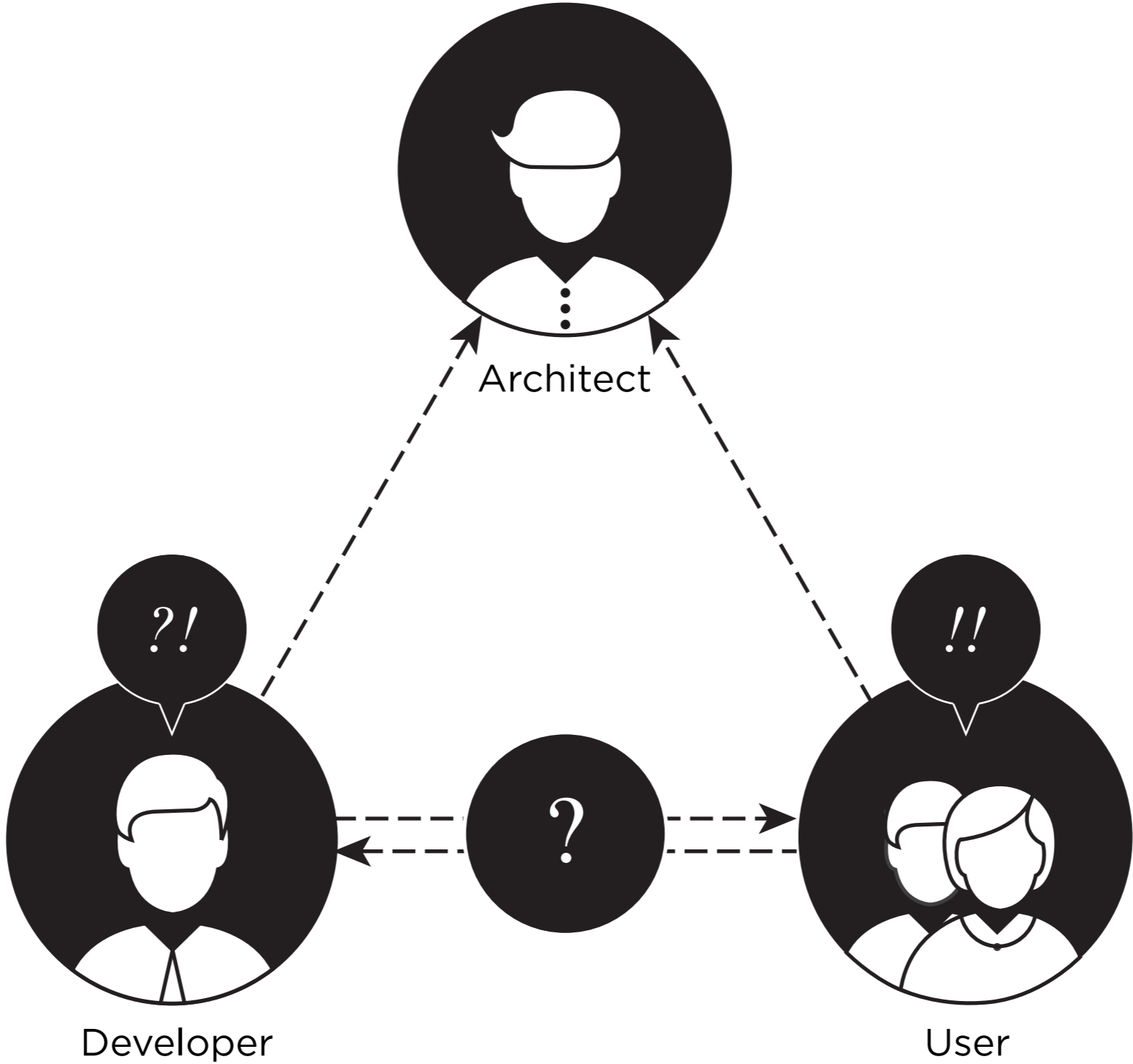


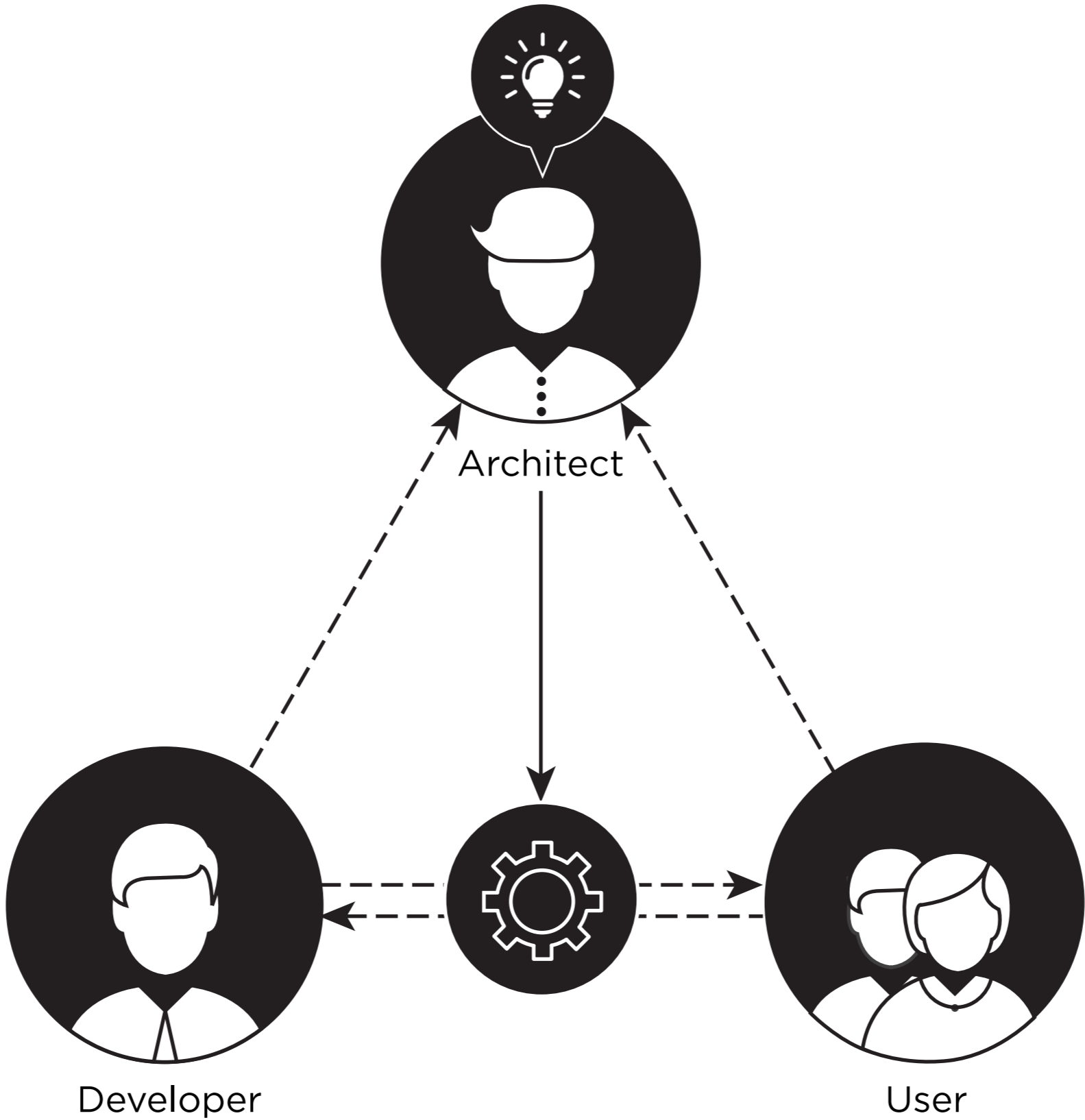
Building Sector



User

conclusions

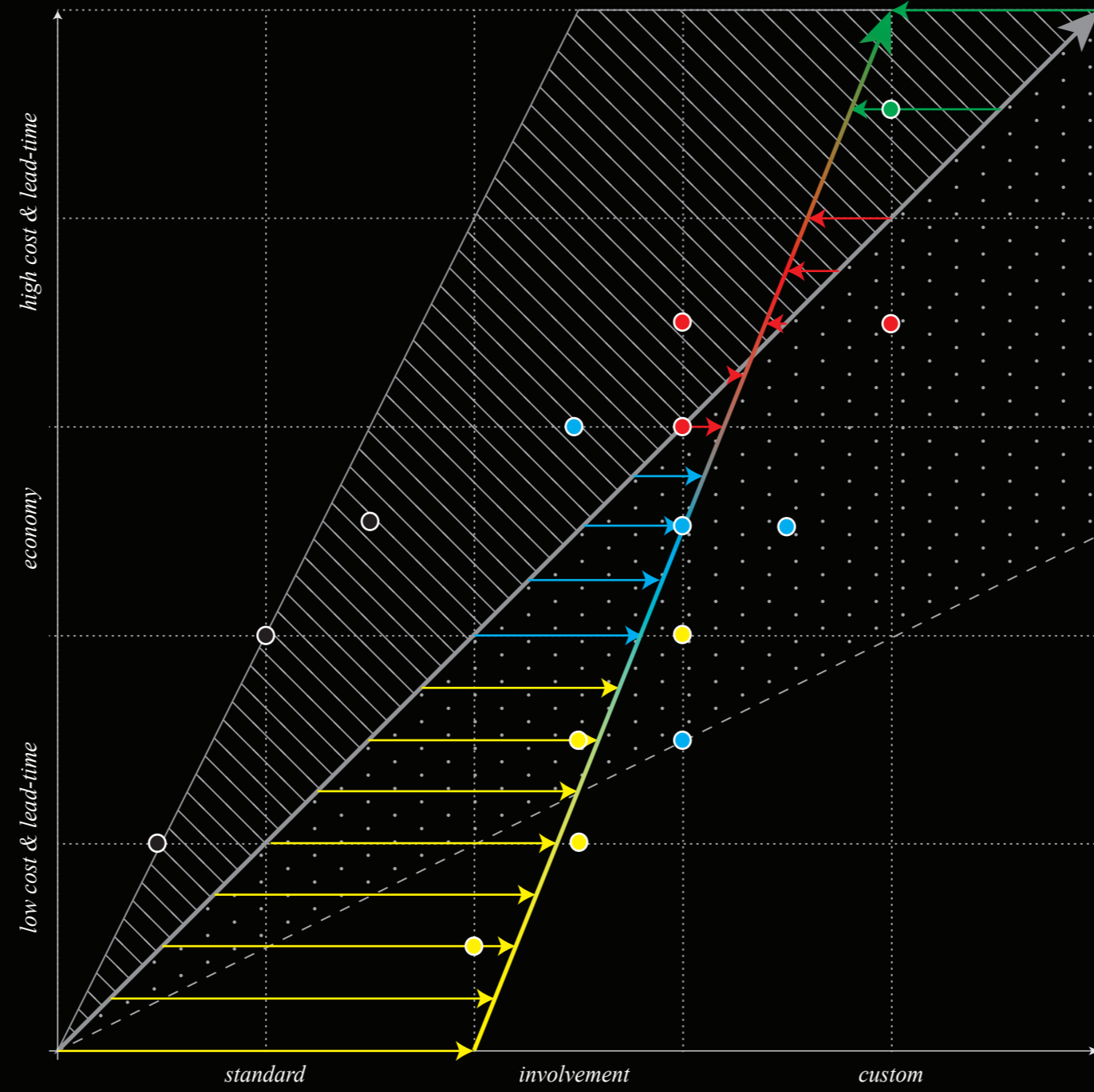




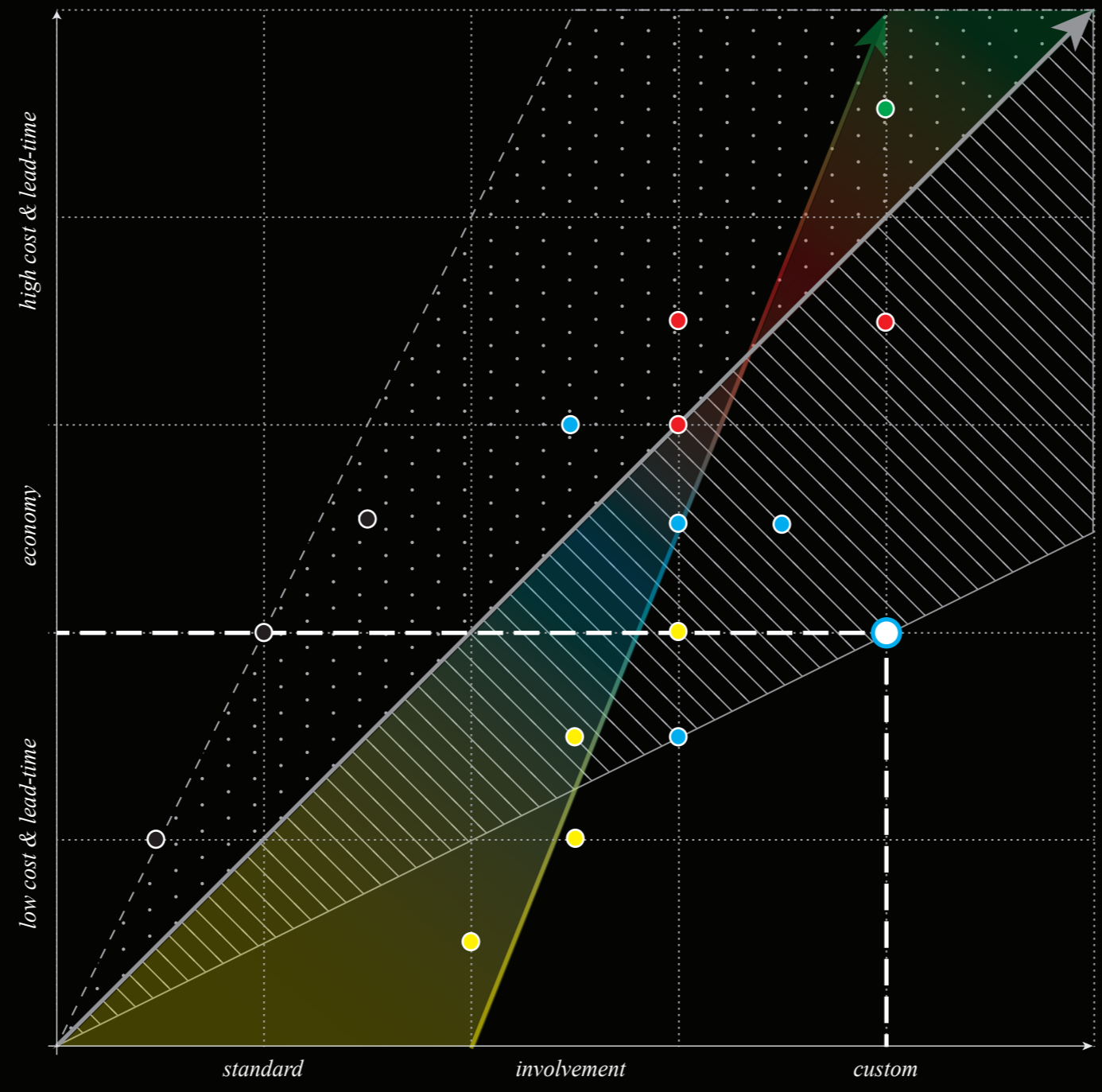


economy | involvement

Distribution of studies



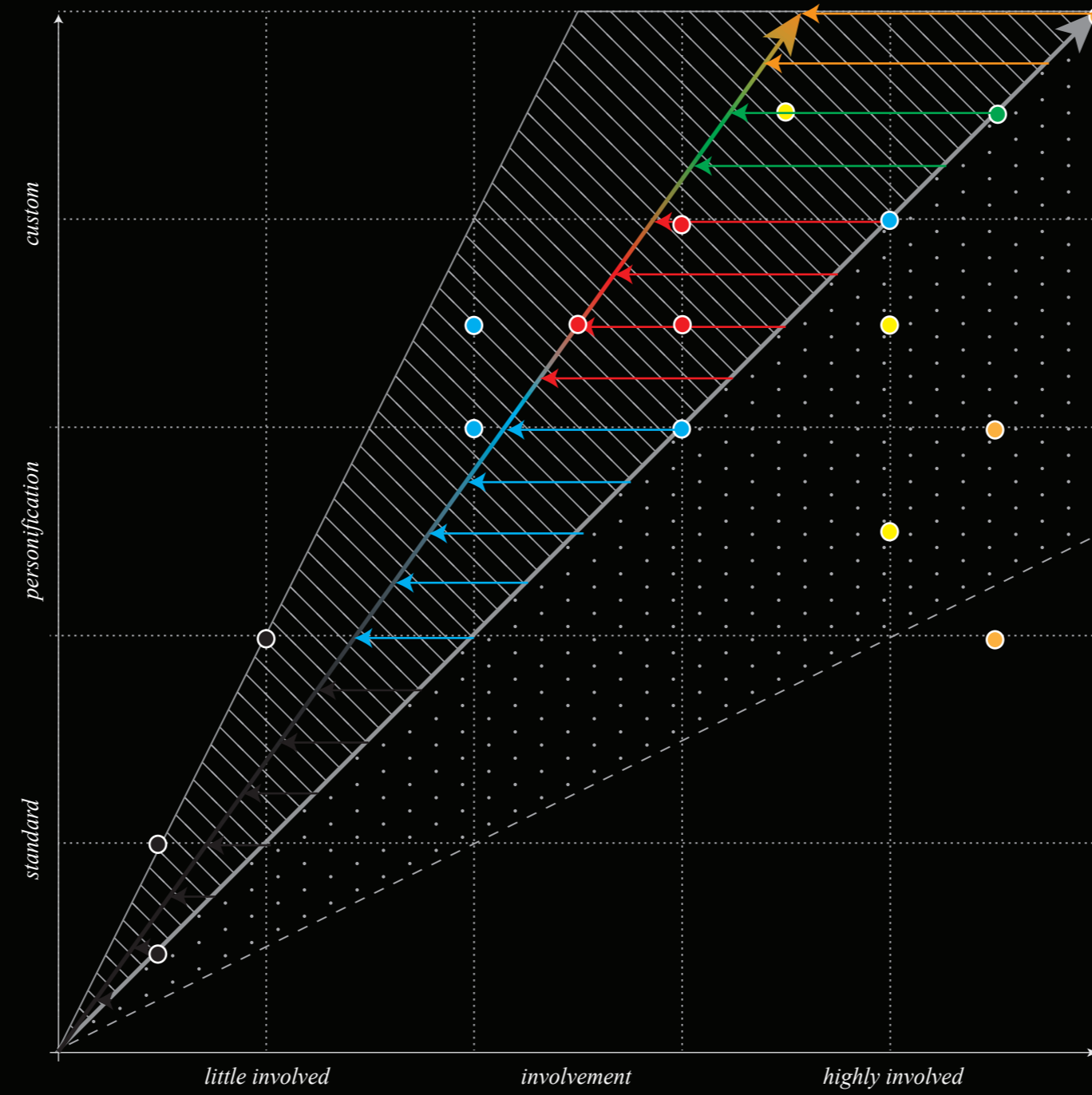
Distribution of studies



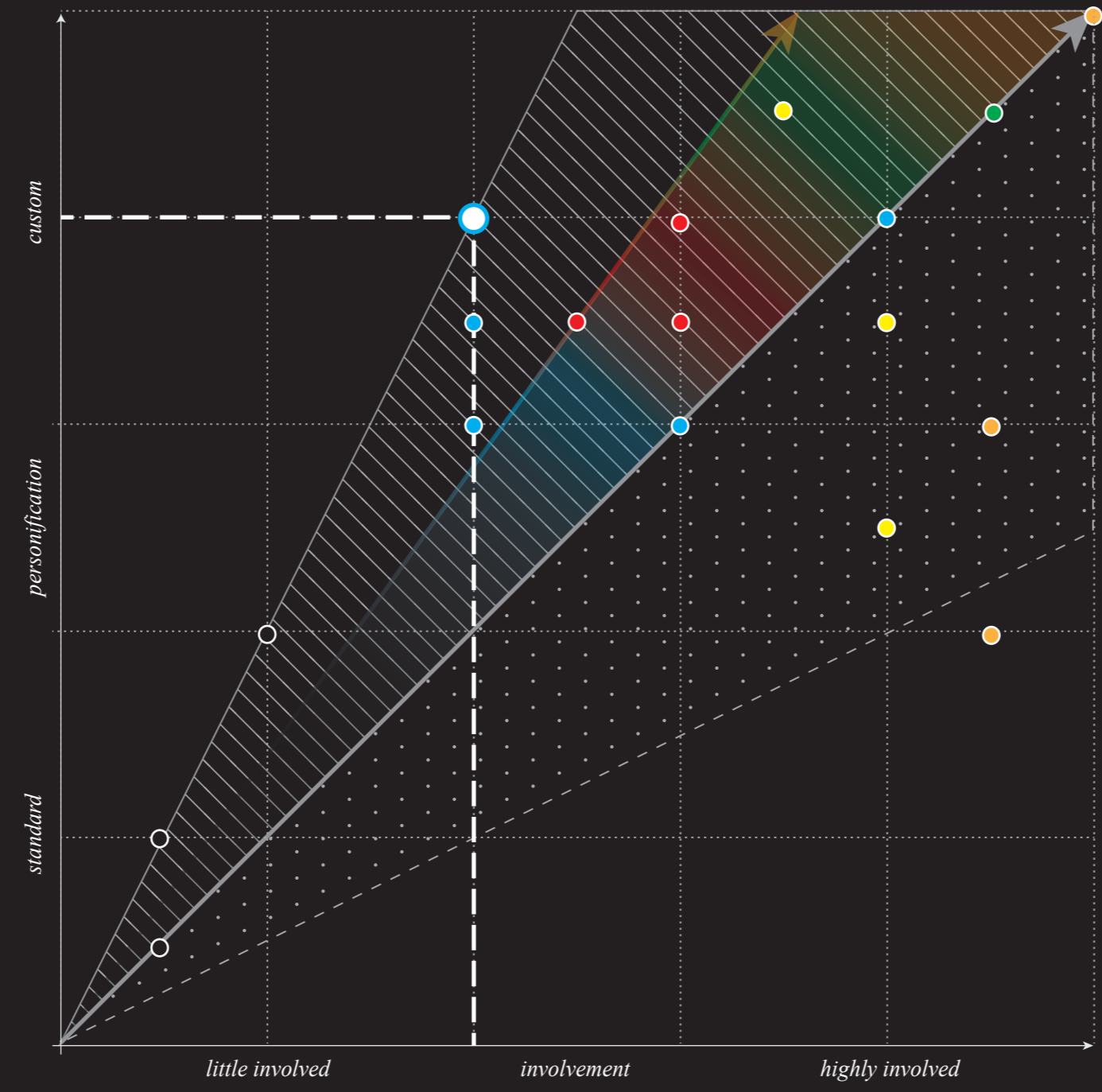


personification | involvement

Distribution of studies



Distribution of studies





mass-customisation

'The ability to provide your customers with anything they want profitably, any time they want it, anywhere they want it, any way they want it.'

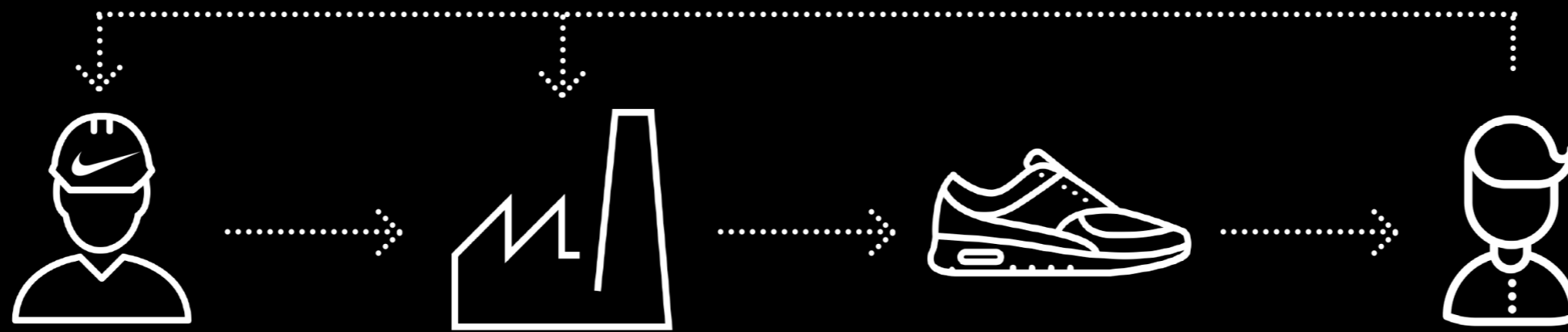
Hart, C. W. L. (1995)



mass-customisation

'The use of flexible processes and organizational structures to produce varied and often individually customized products and services at the low cost of a standardized mass-production system.'

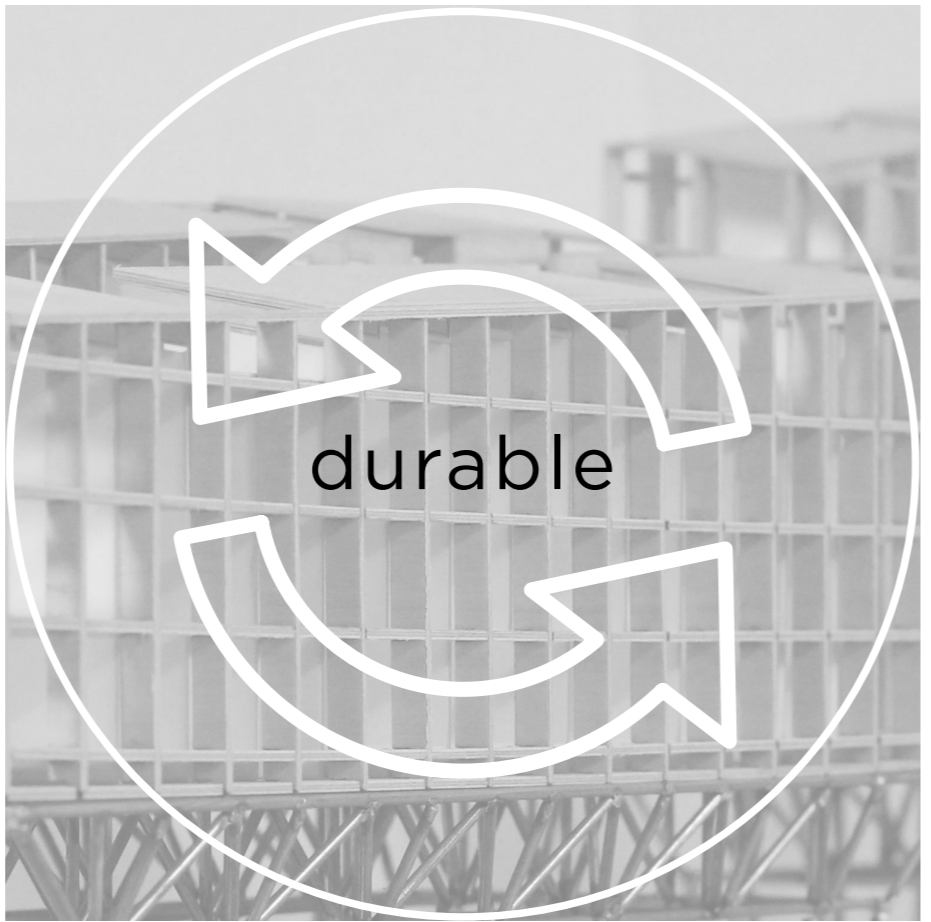
Hart, C. W. L. (1995)

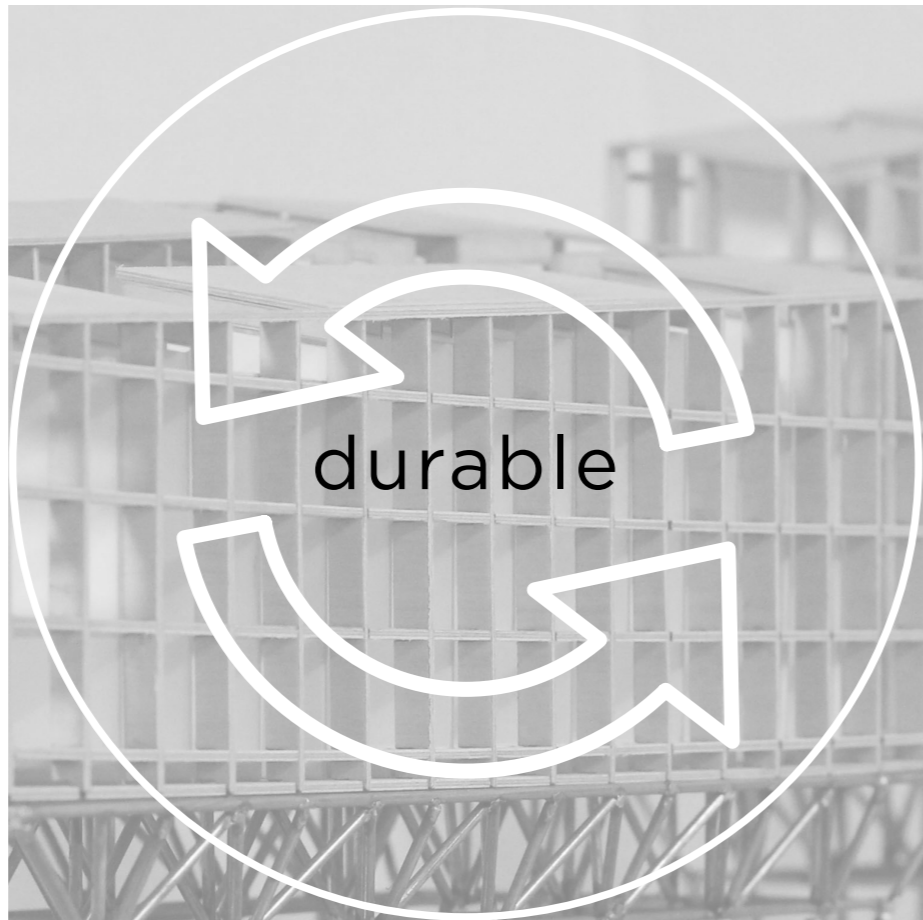




mass-housing







M a C u B S 1 . 0

FAMES
DIAGRA

the support structure
bounded to context
providing collective spaces
offering vibrant life.

Support

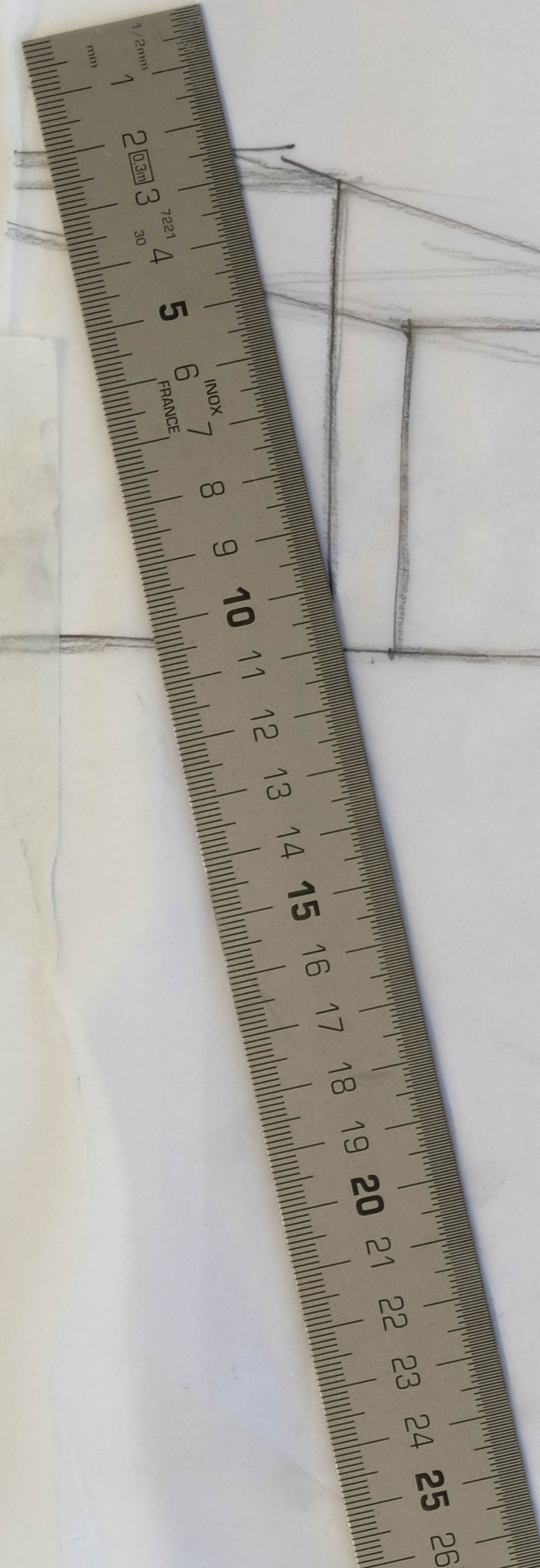


N

correct
quantity

UNI
PAA

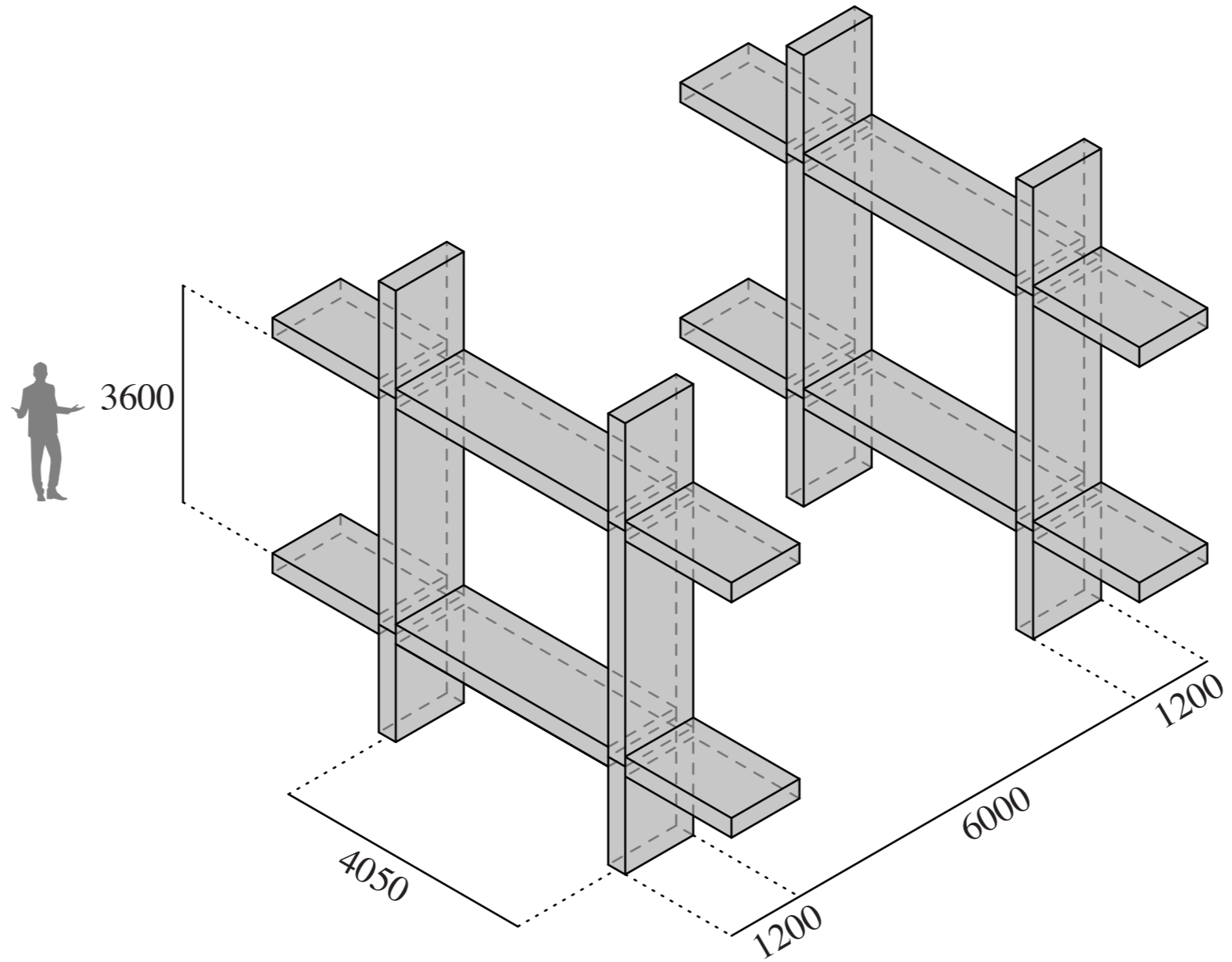
inspirational!
NEED BEARDS.



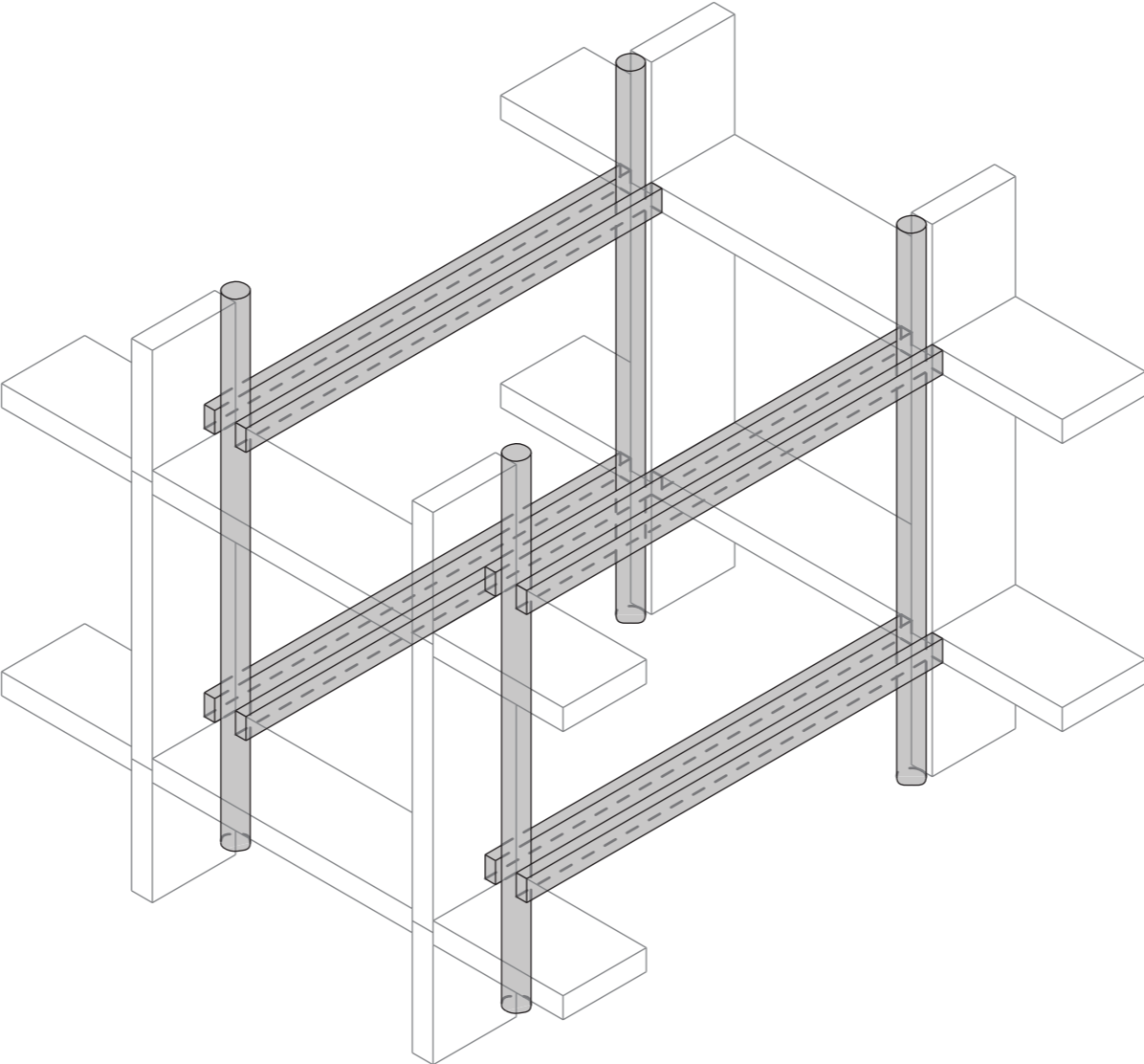


mass-housing

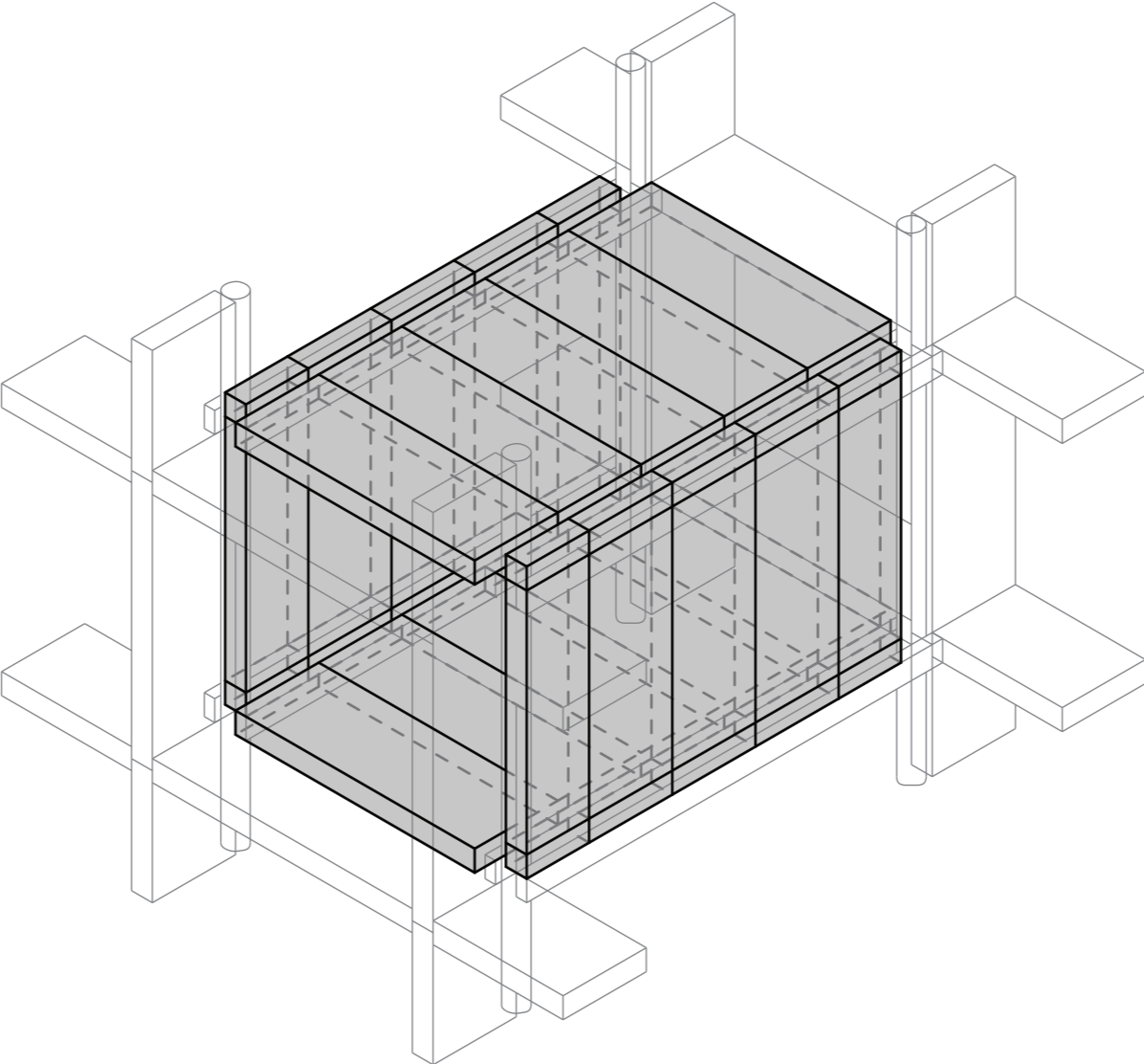
Support



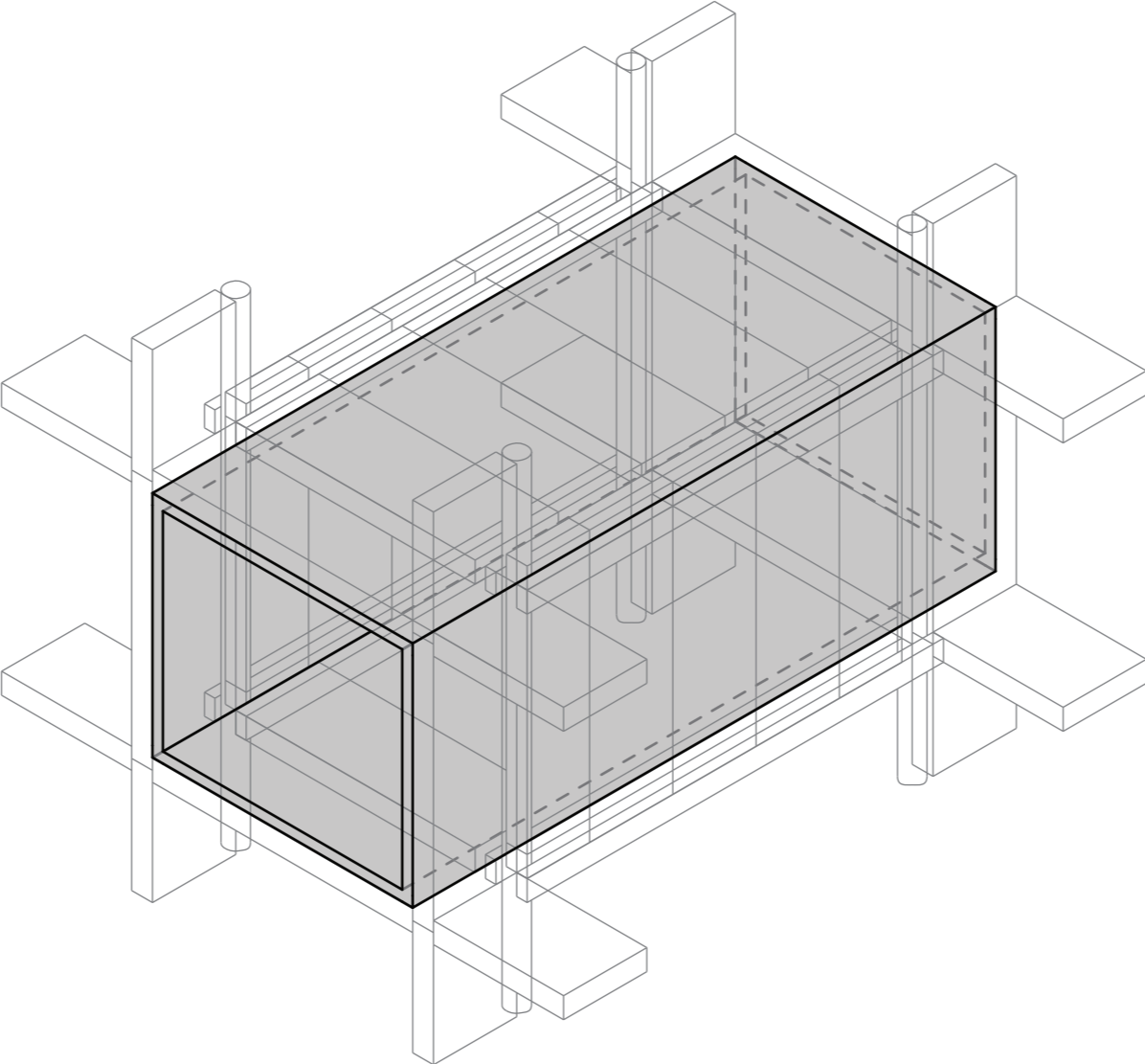
Skeleton

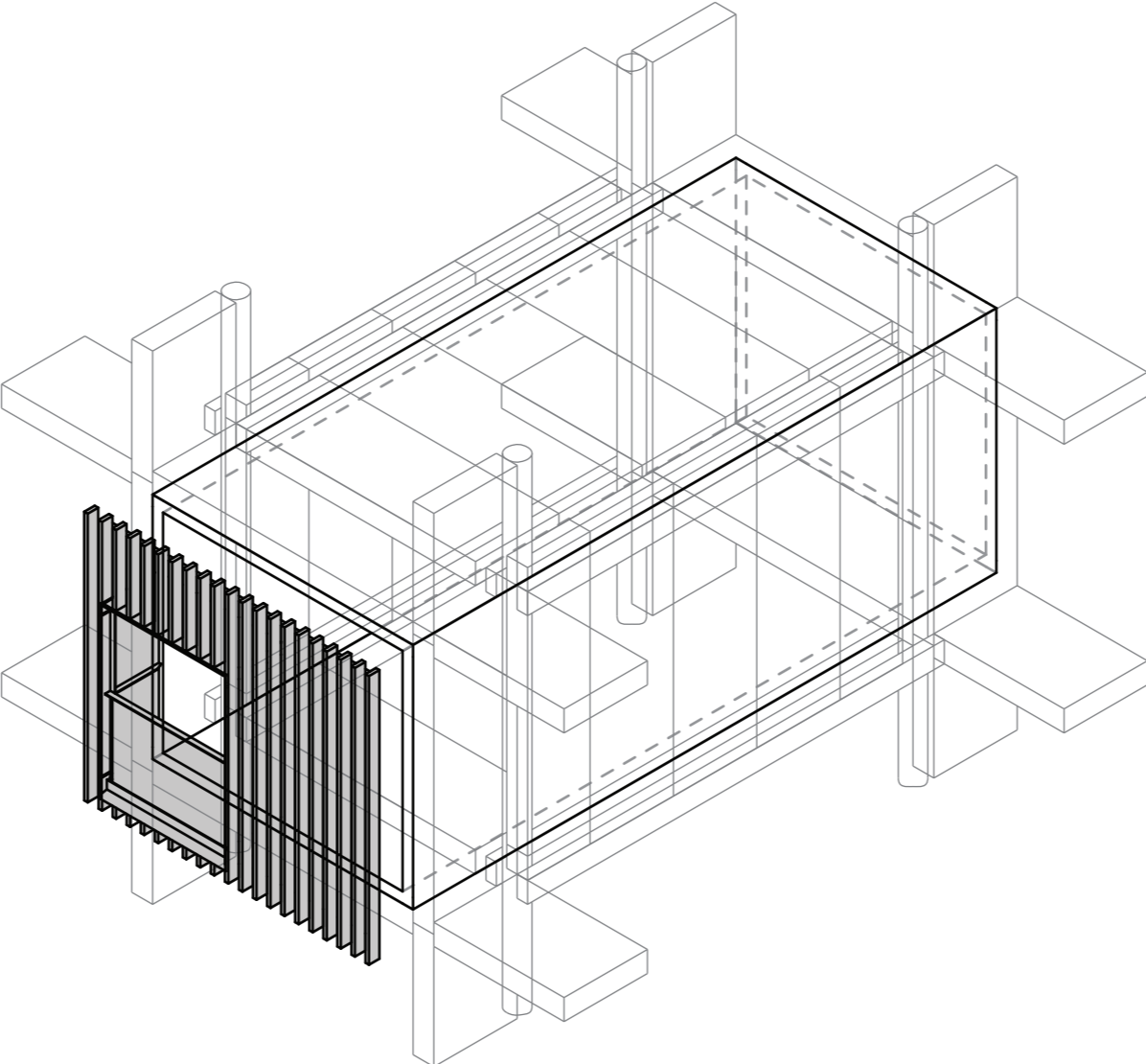


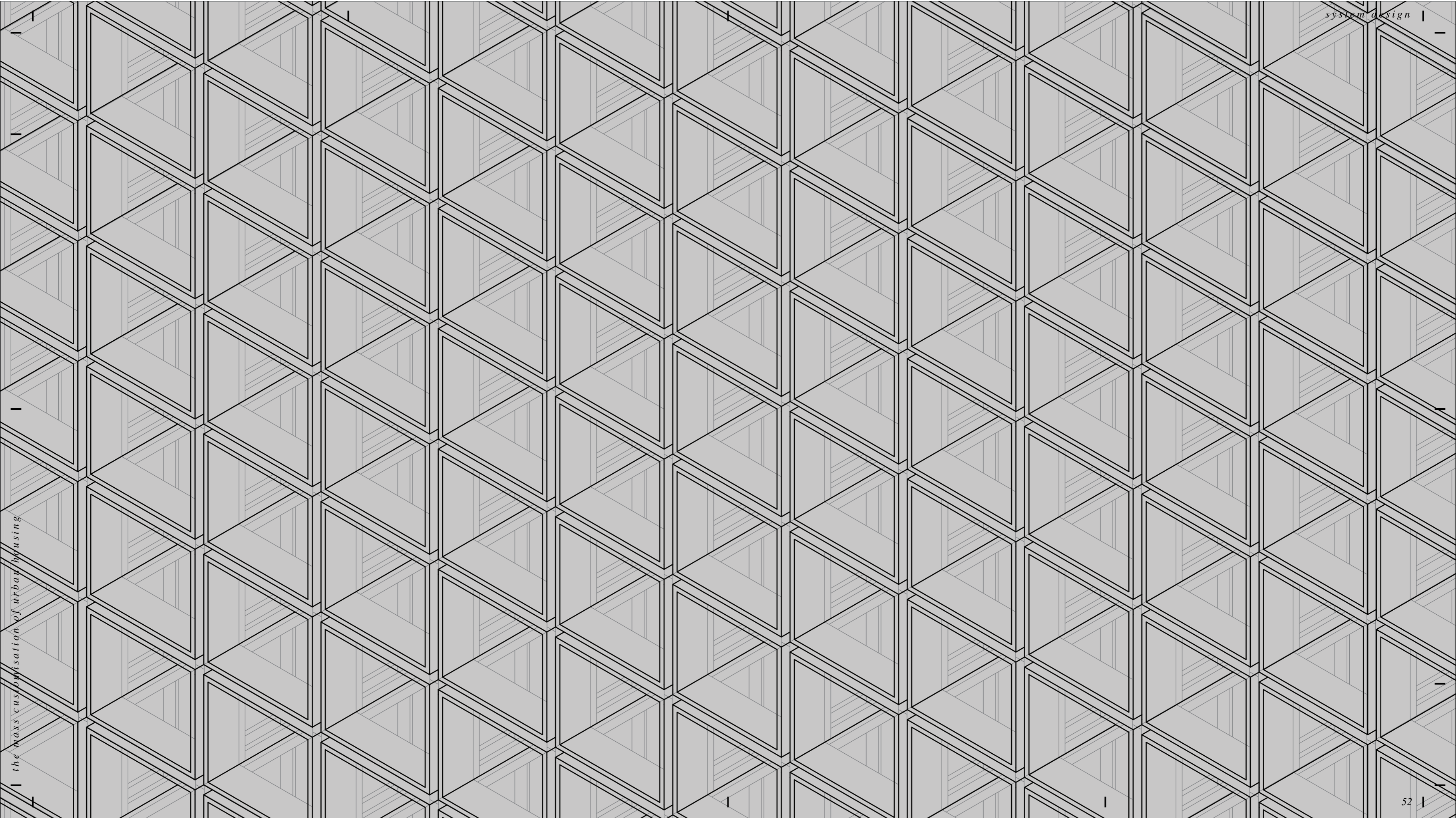
Division

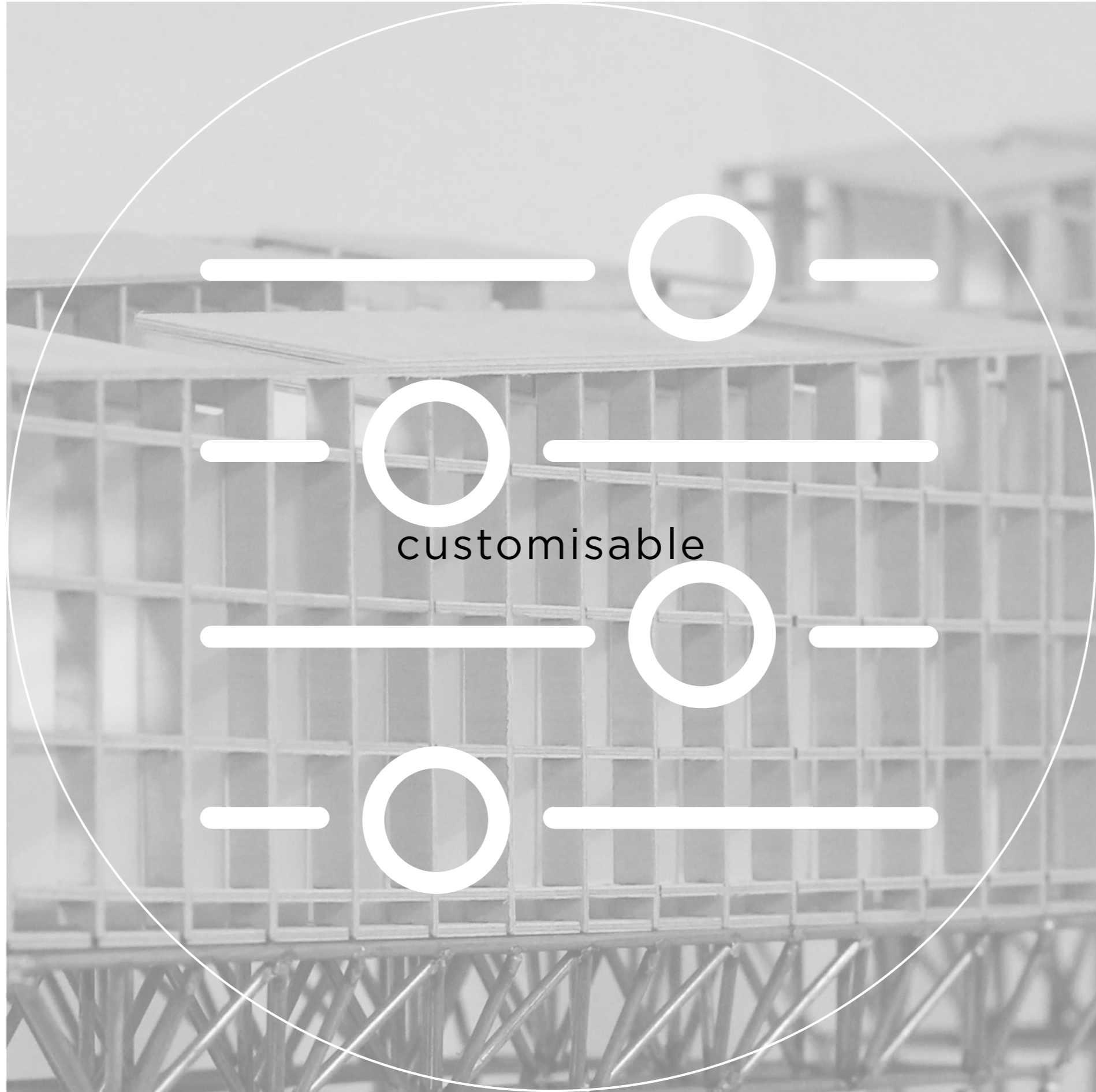


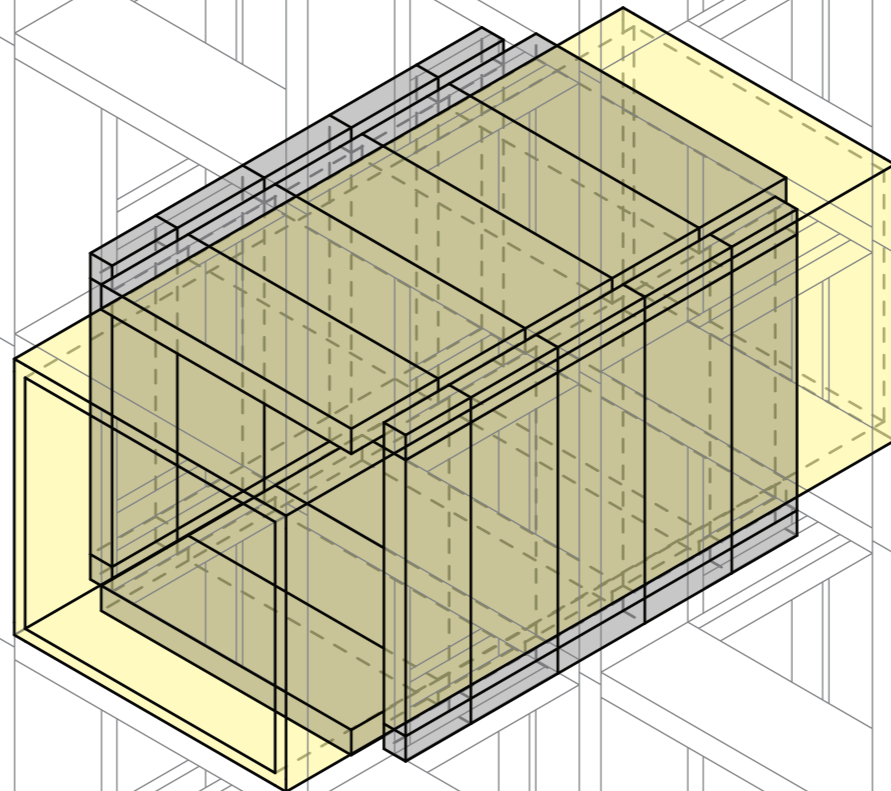
Infill

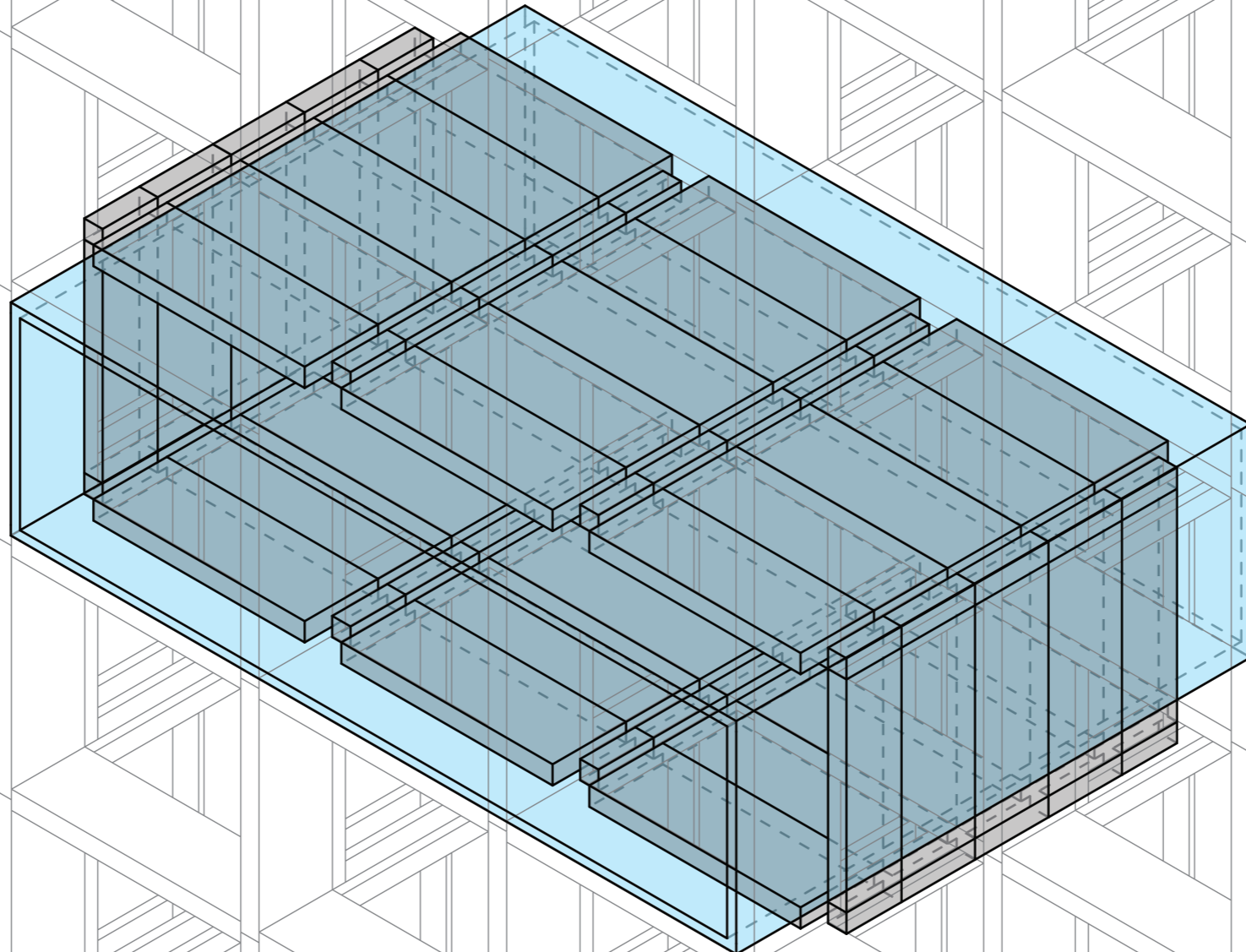


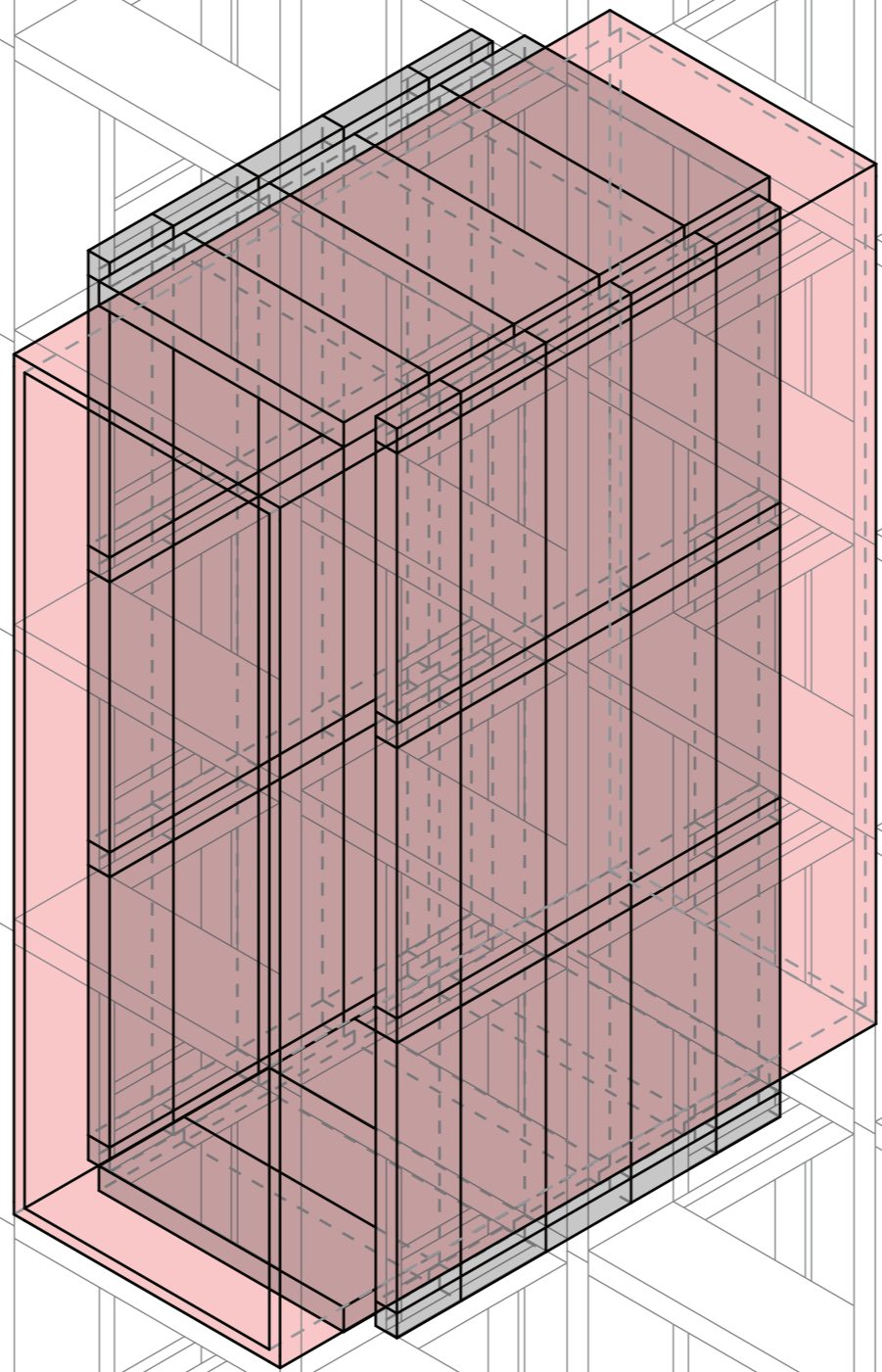


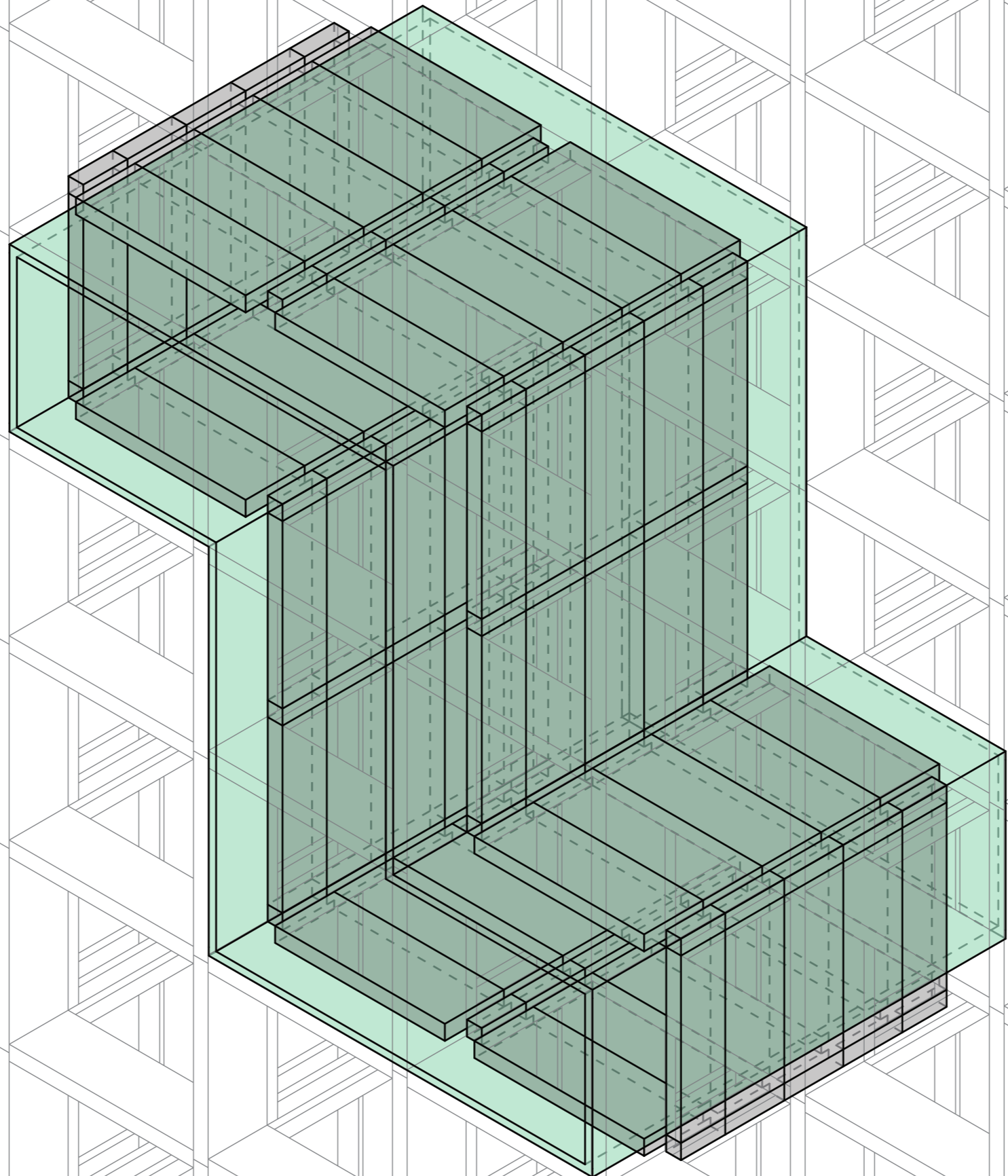


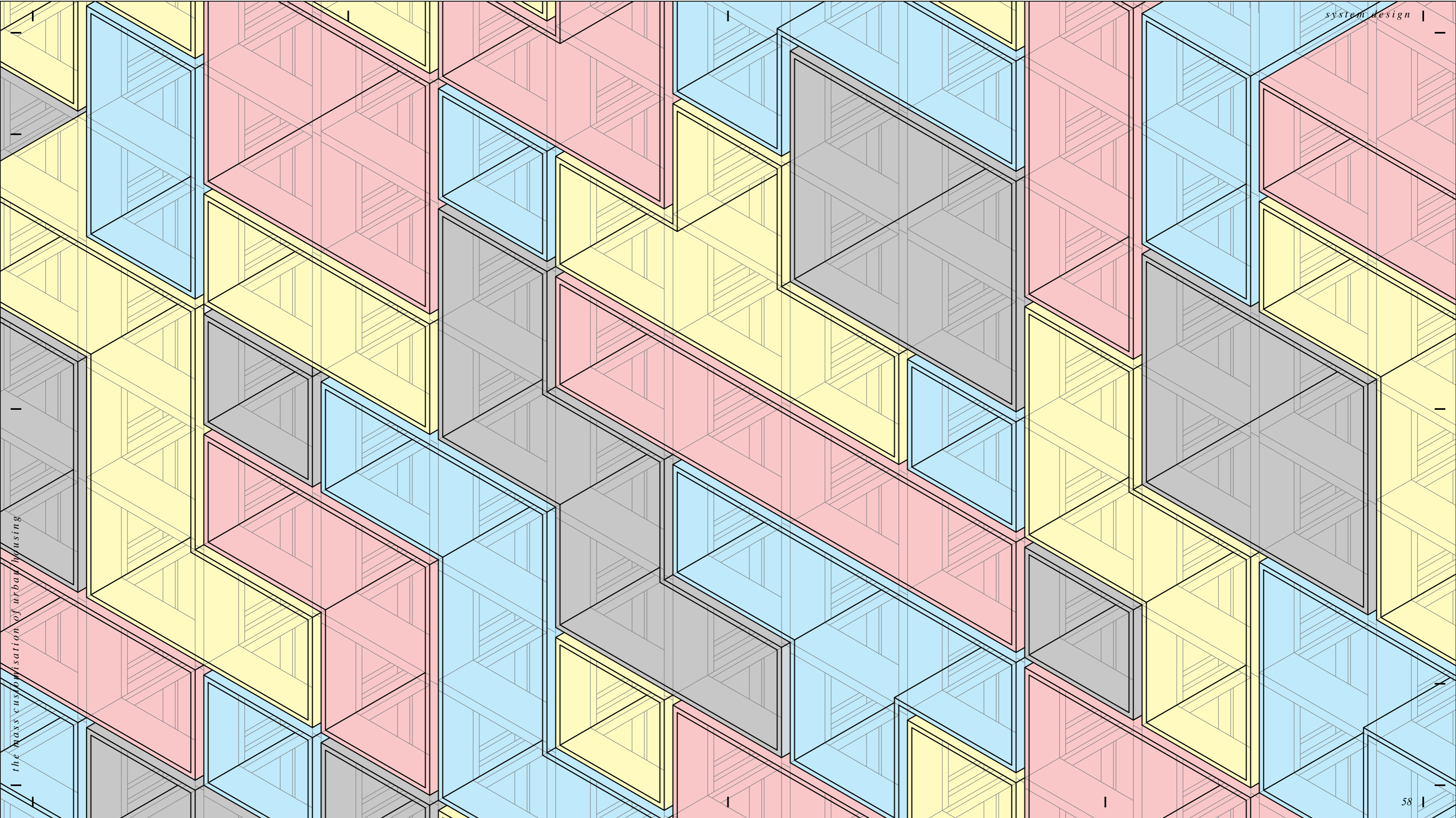


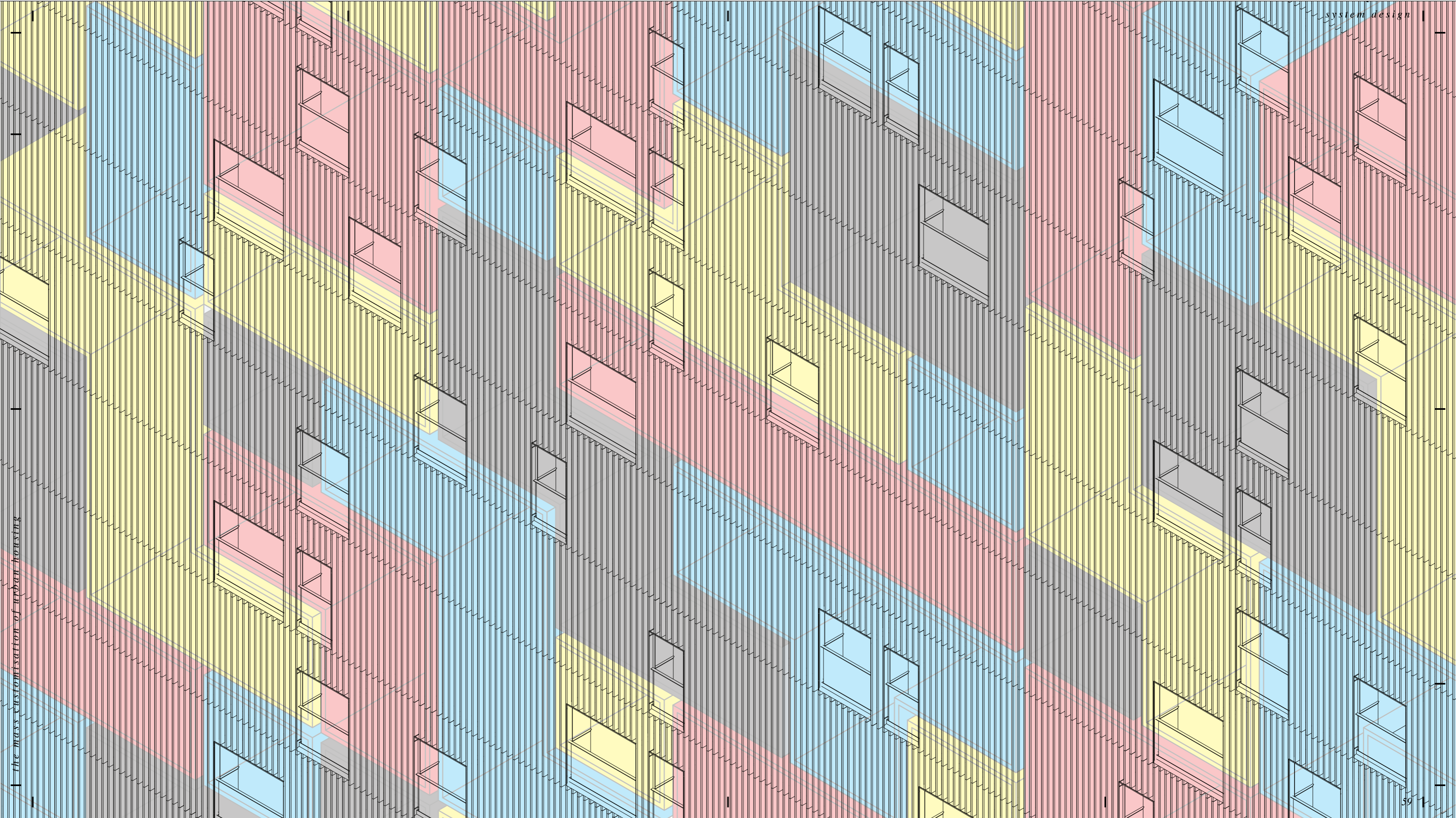




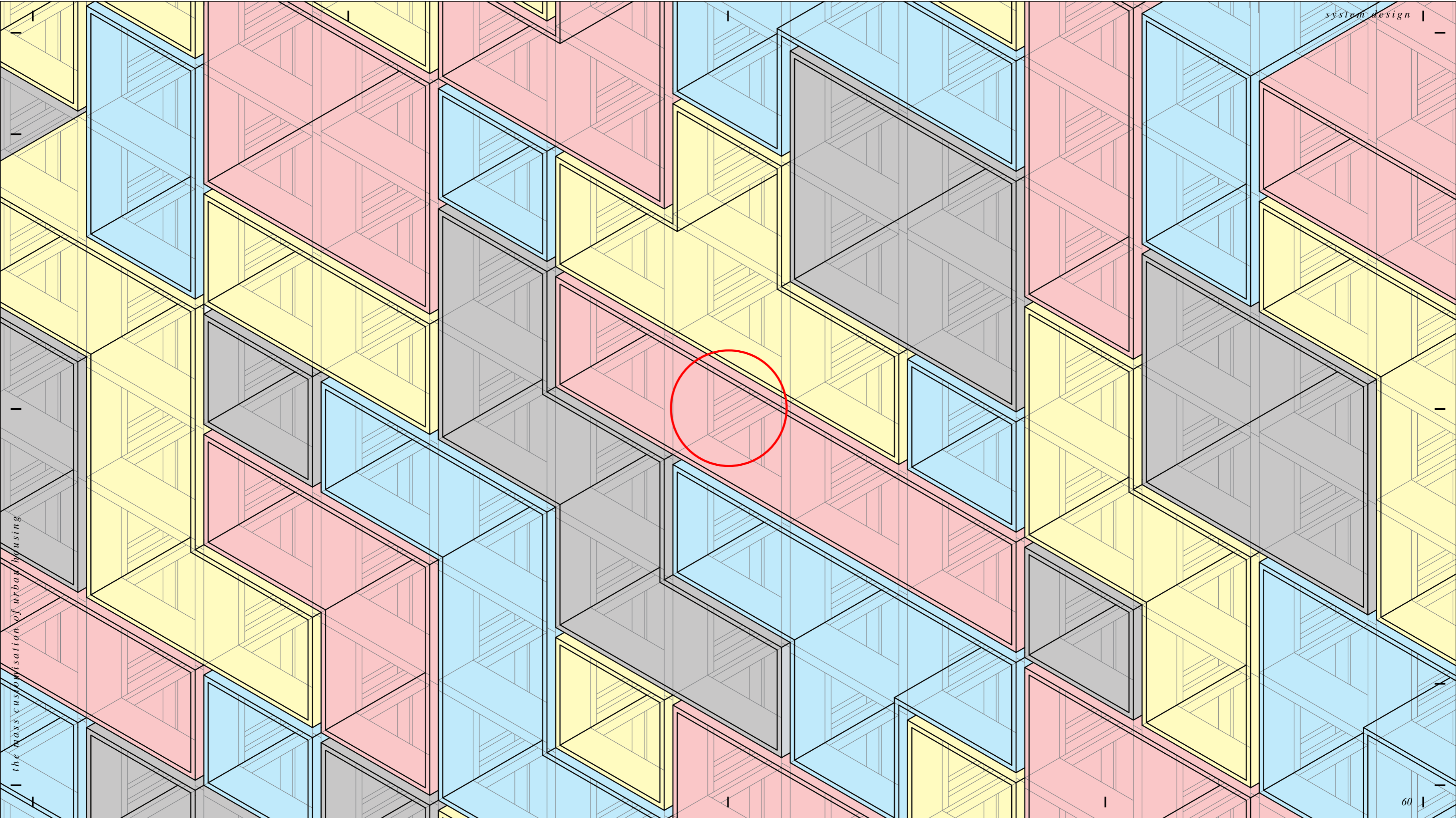




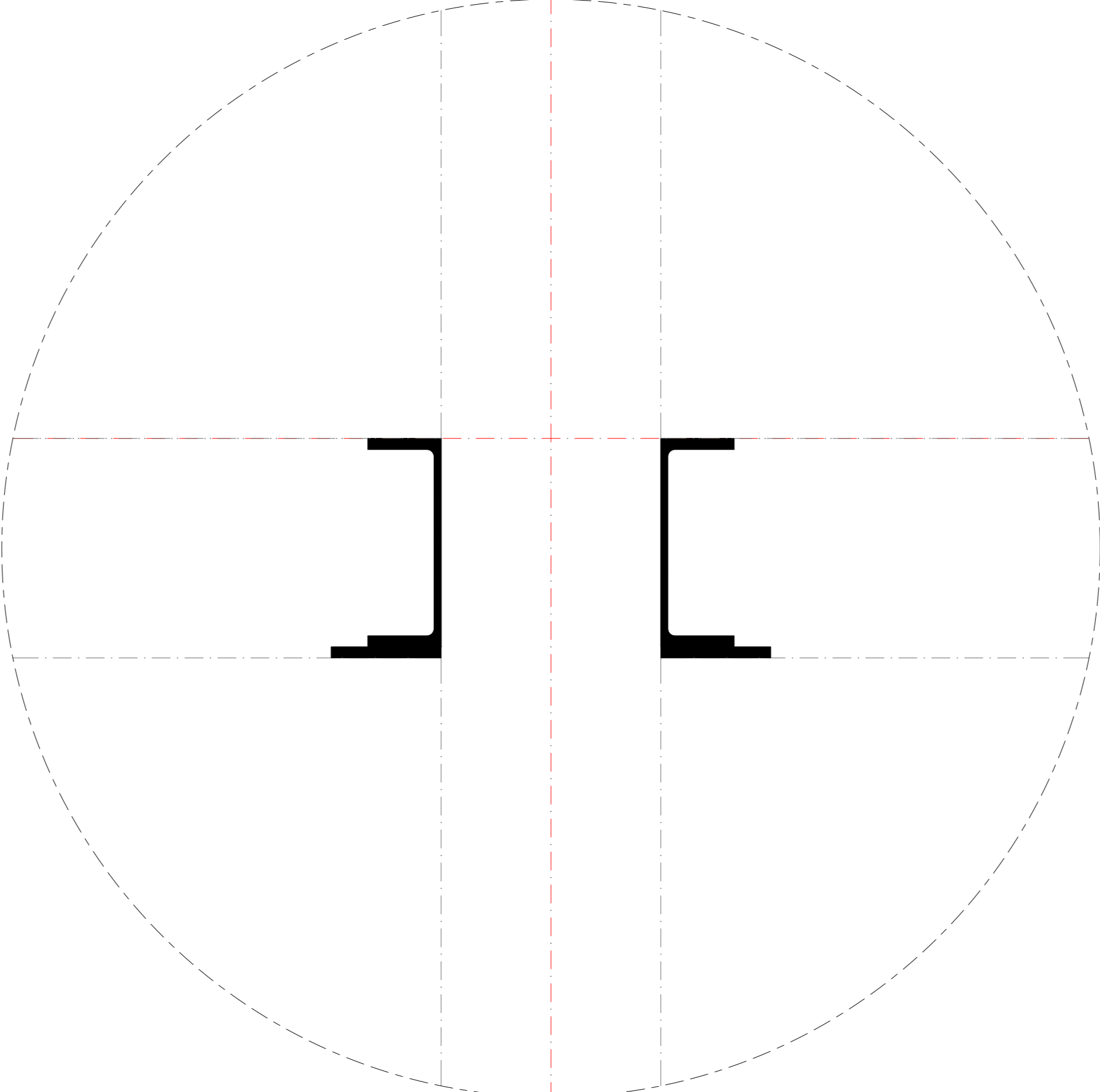


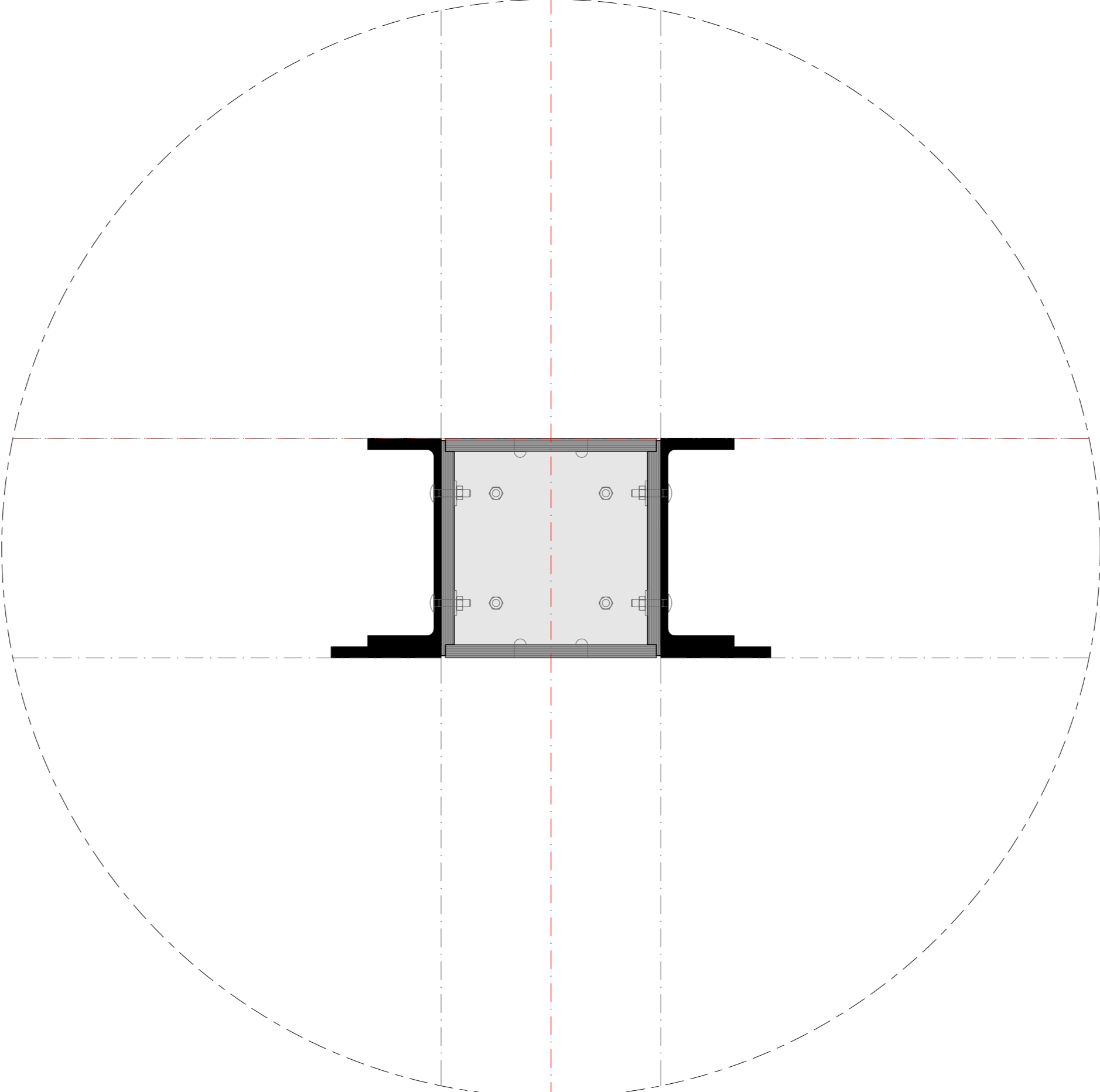


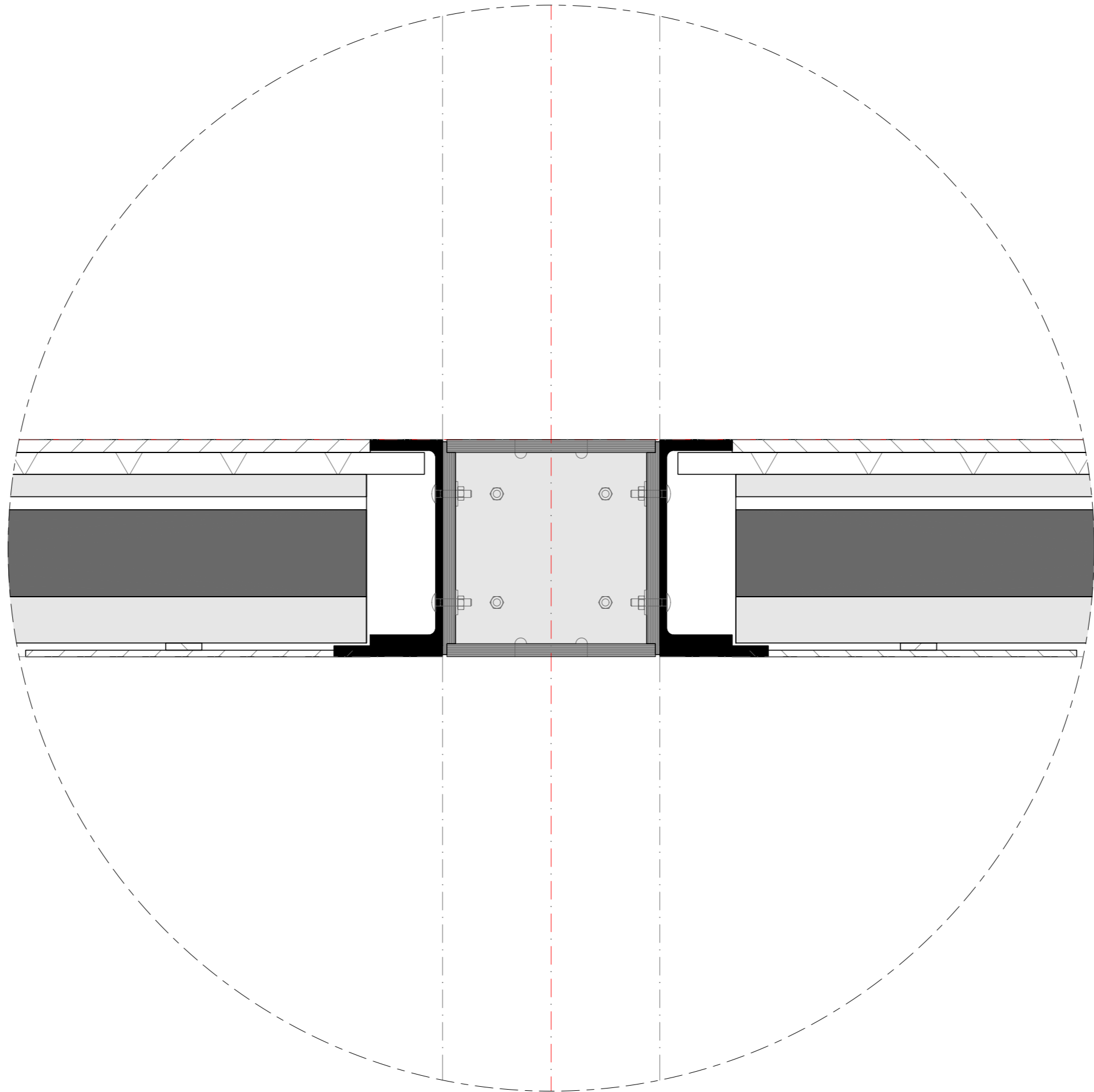
the mass customization of urban housing

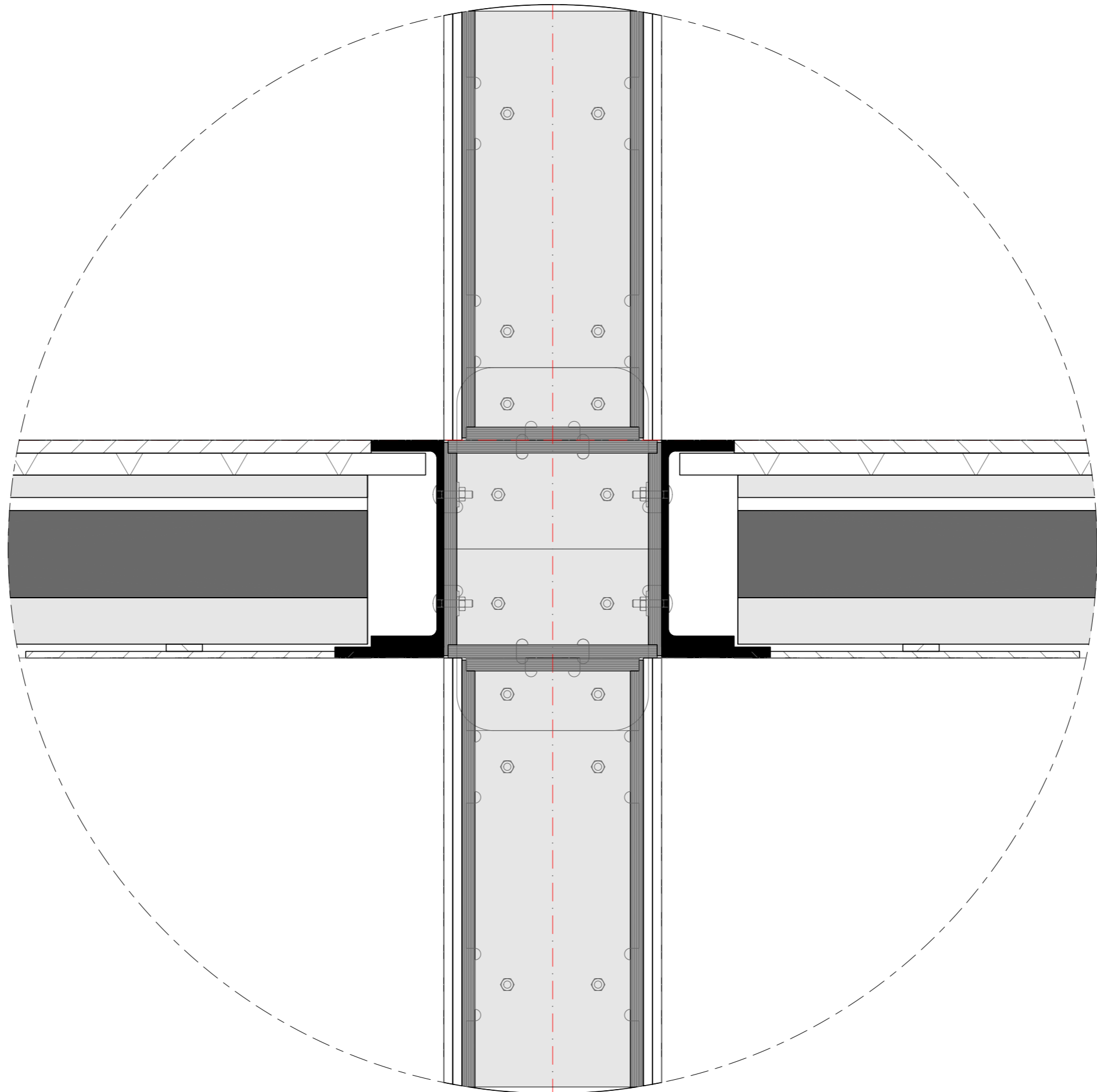


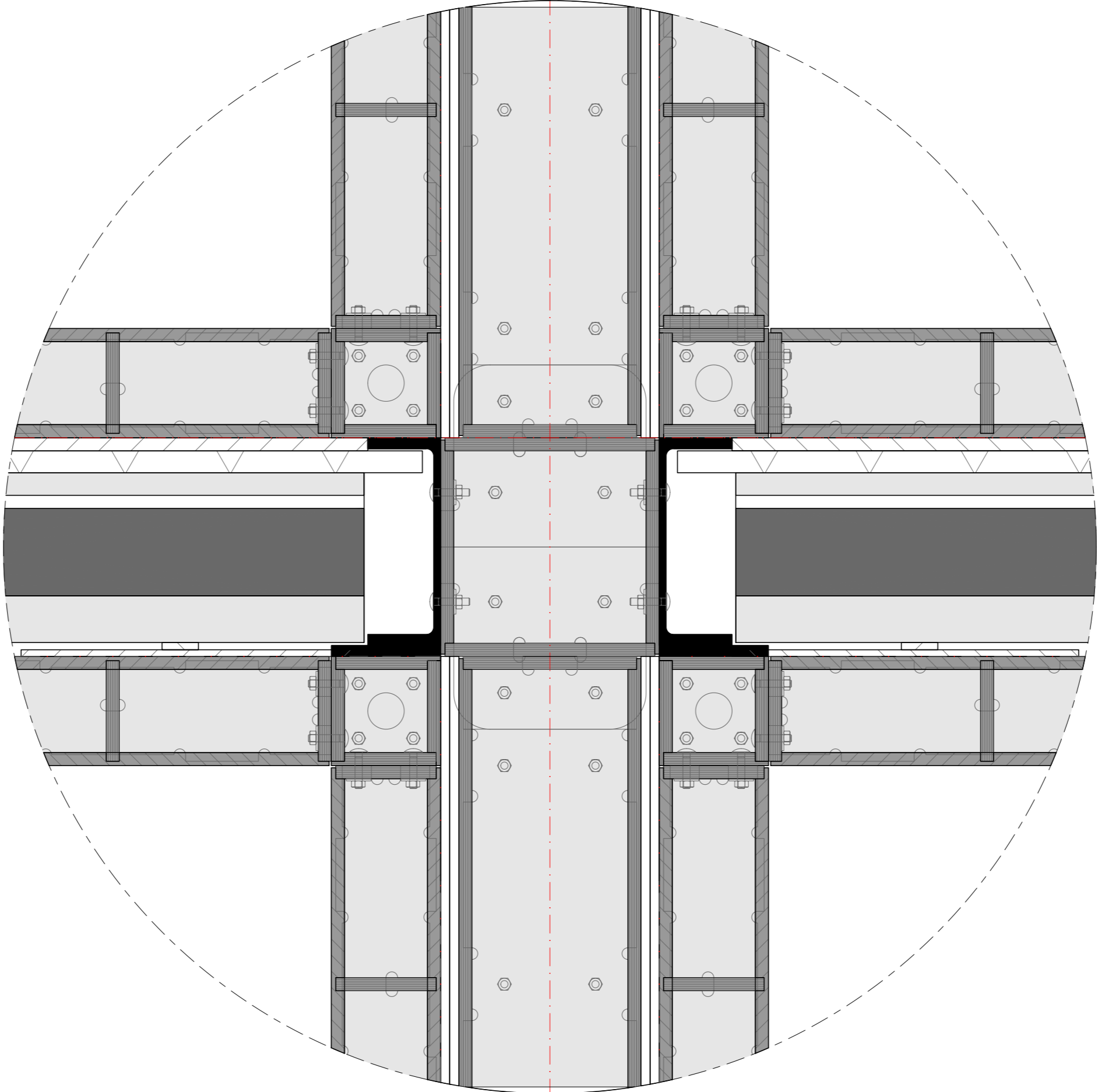
| the mass customisation of urban housing

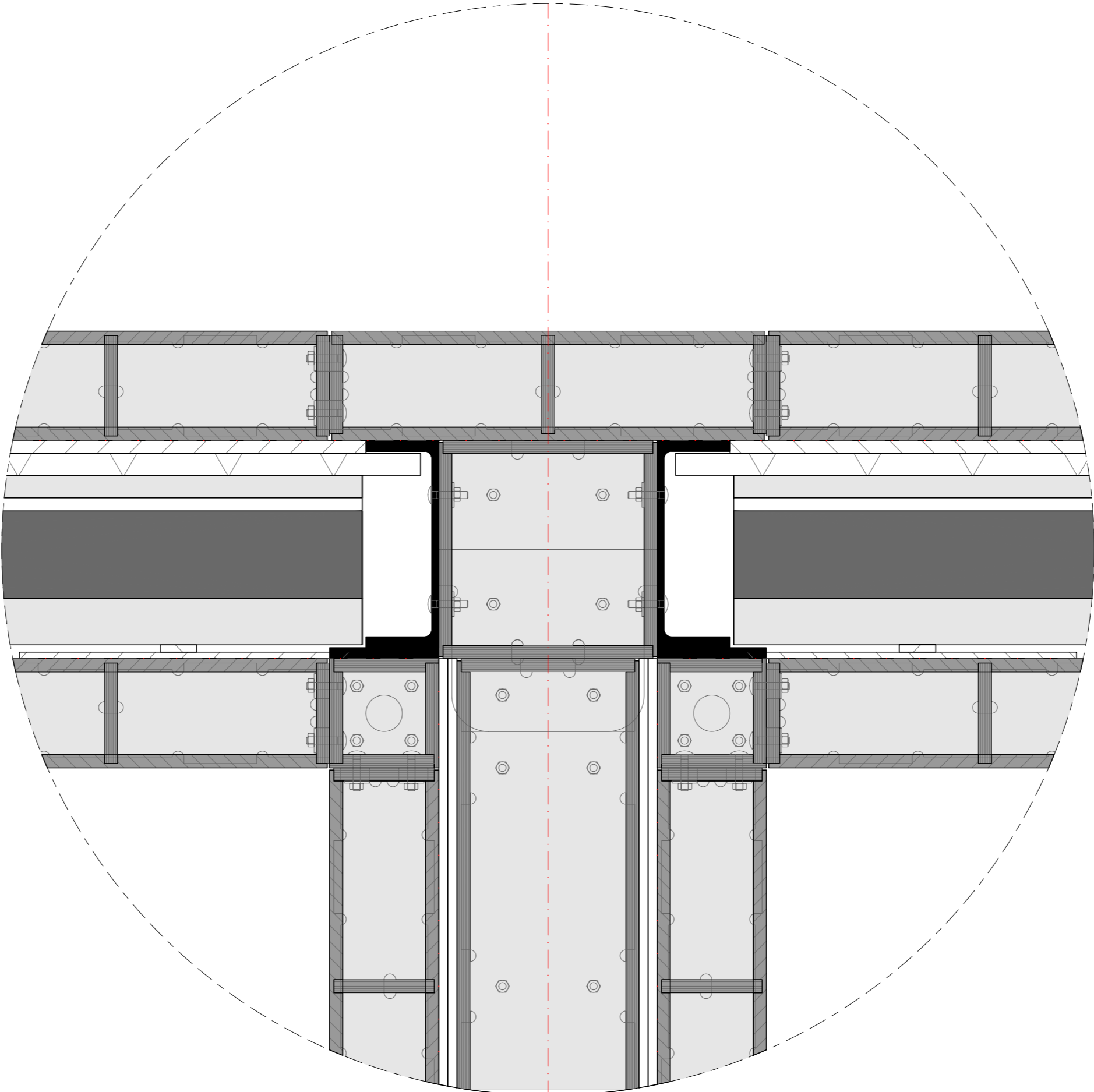


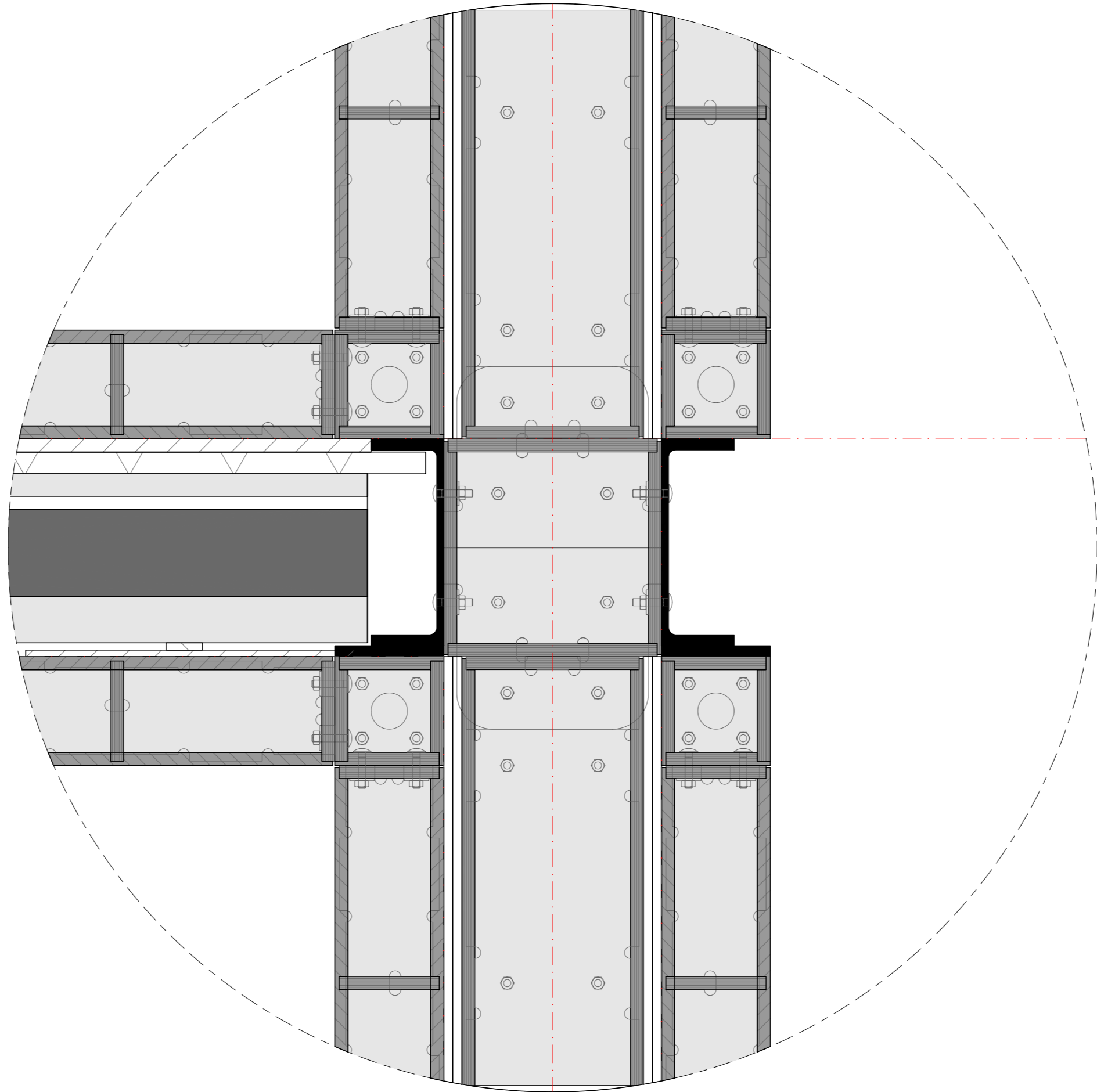


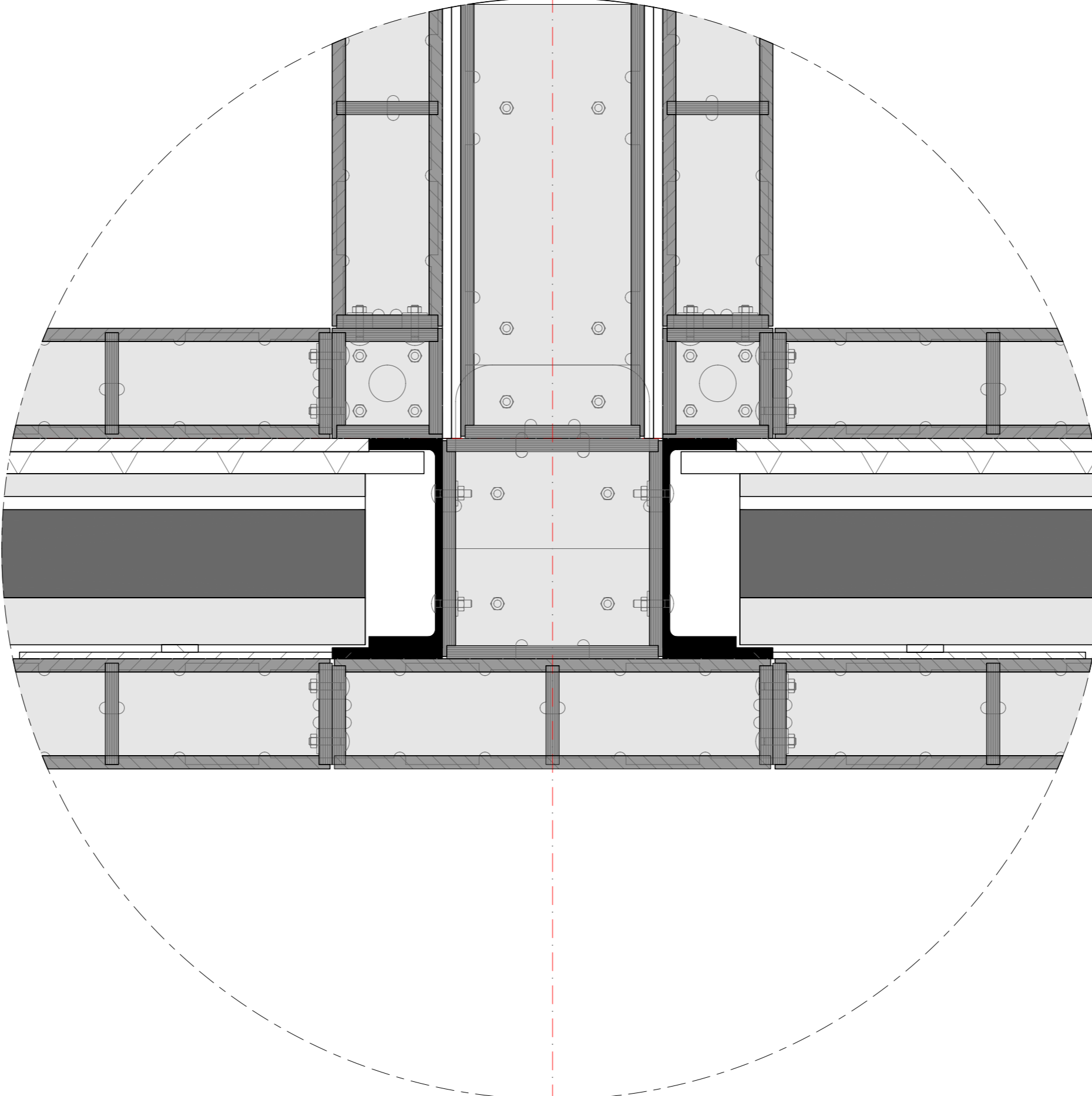


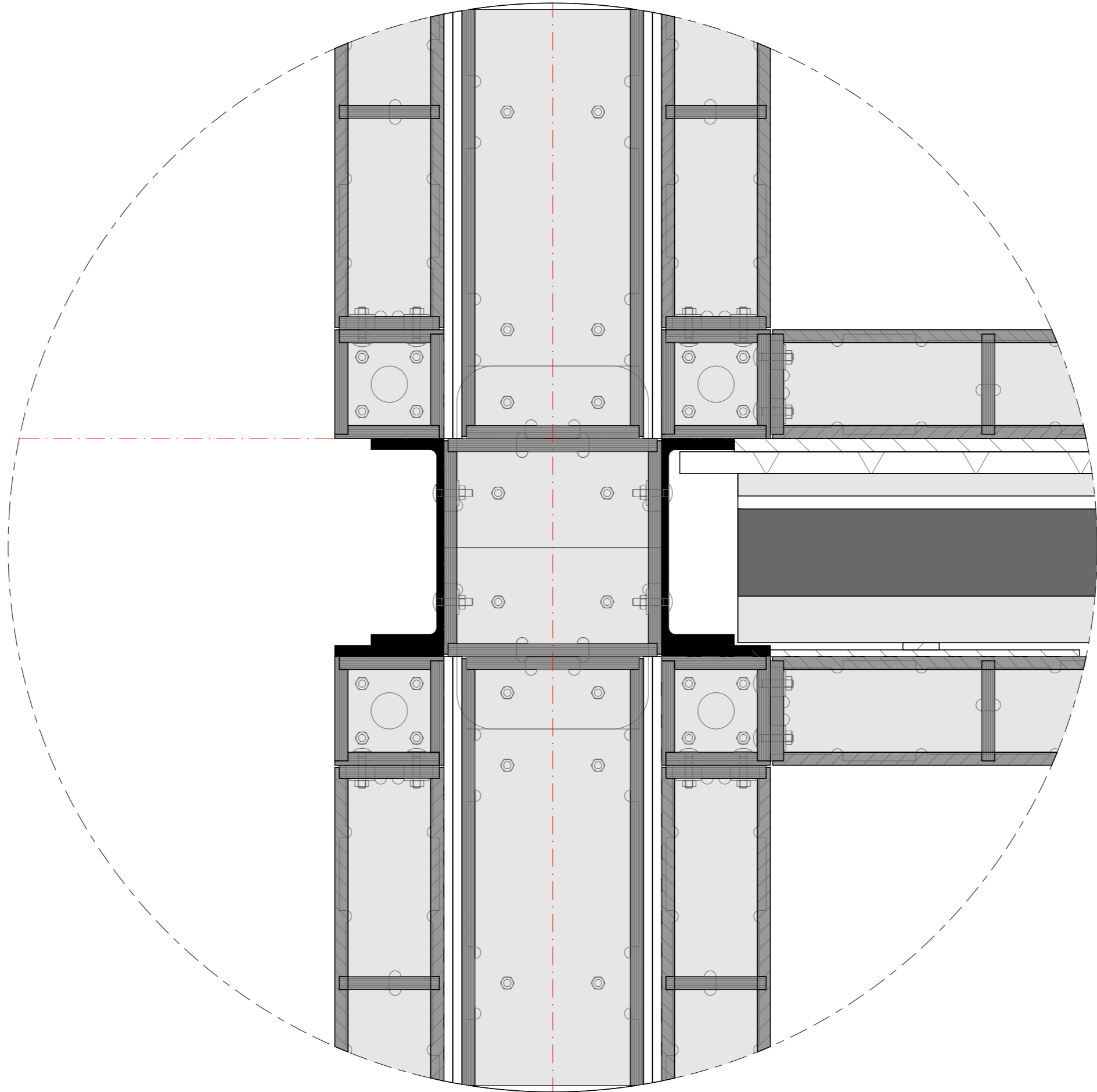


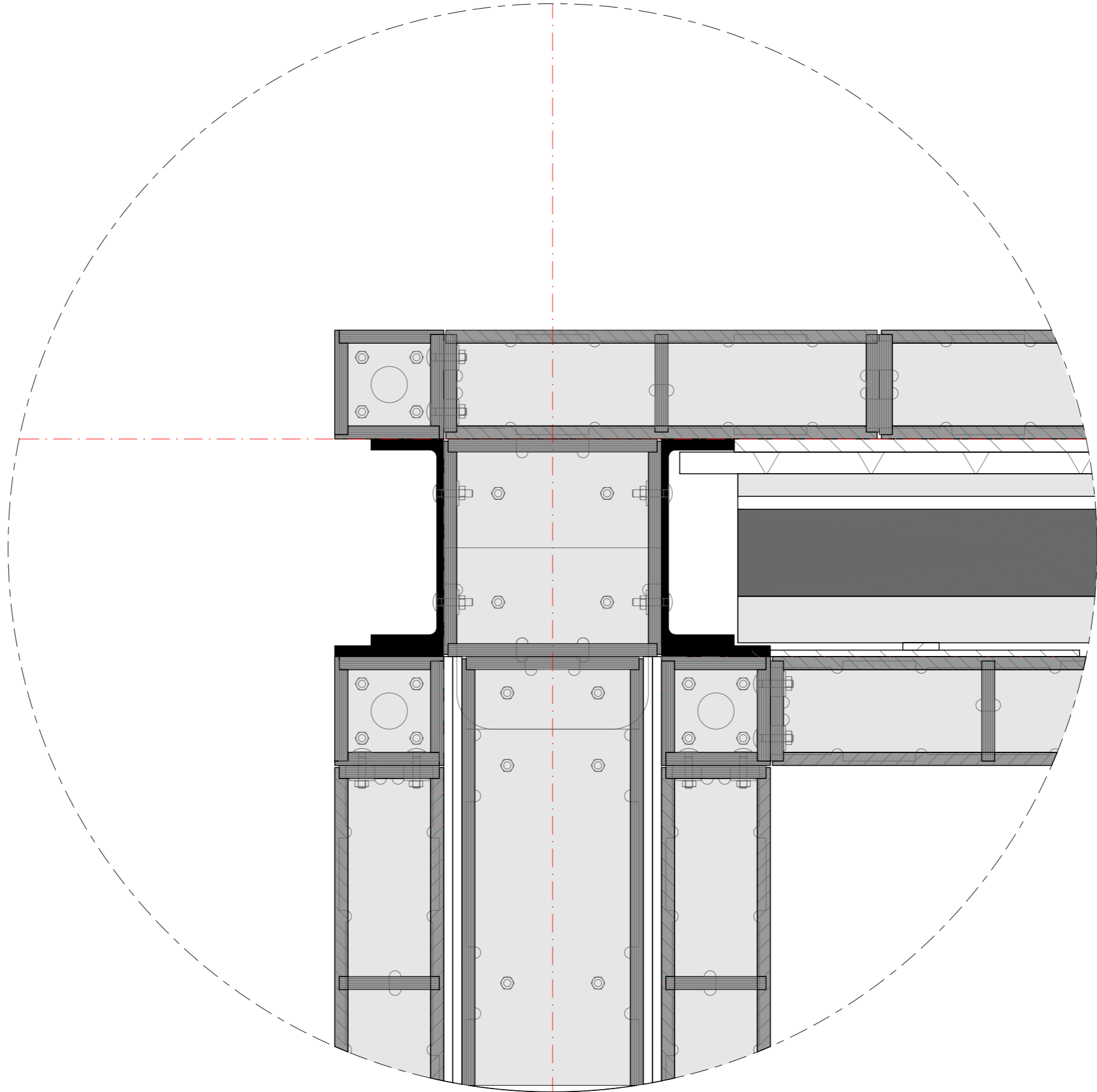


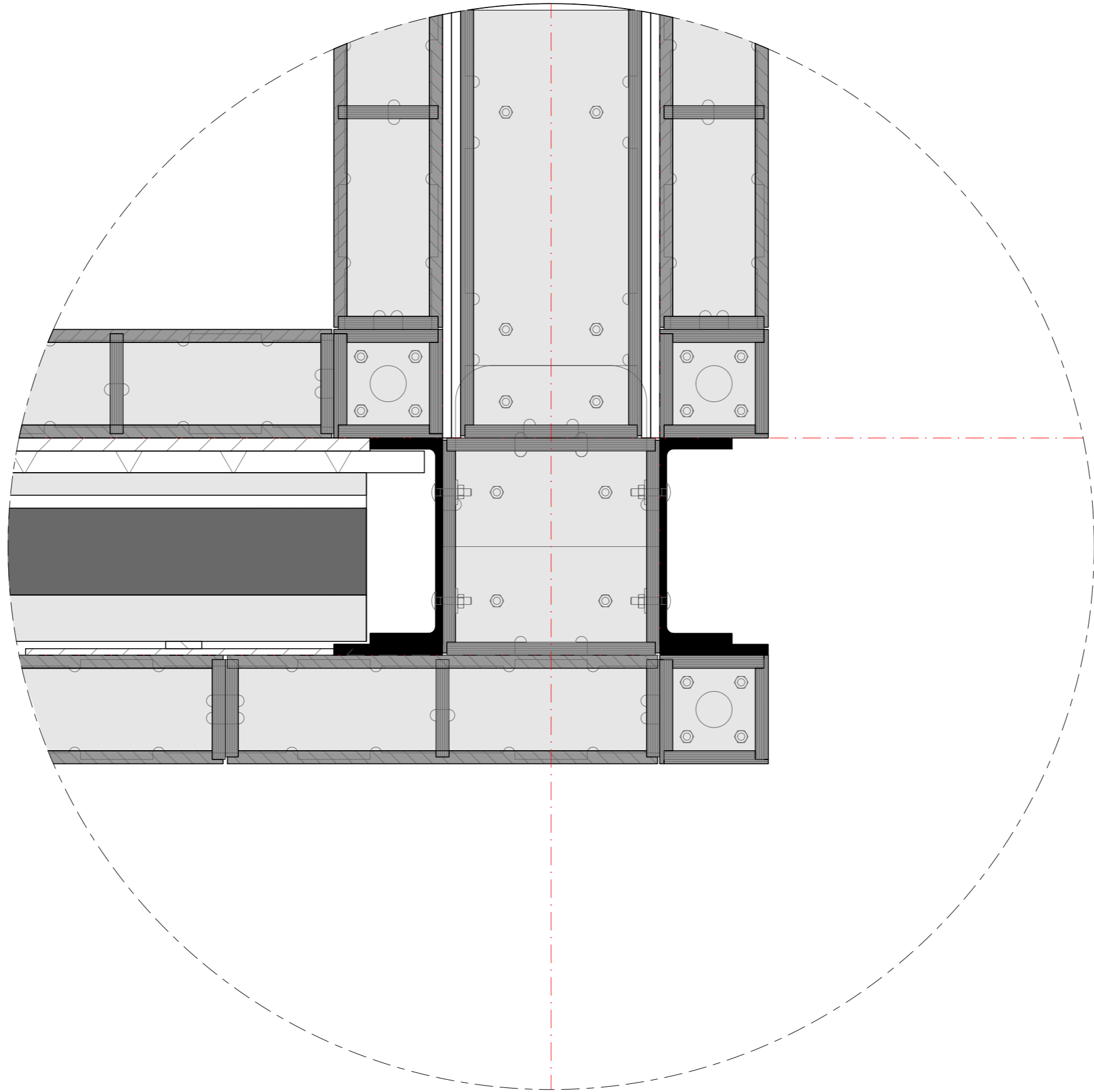


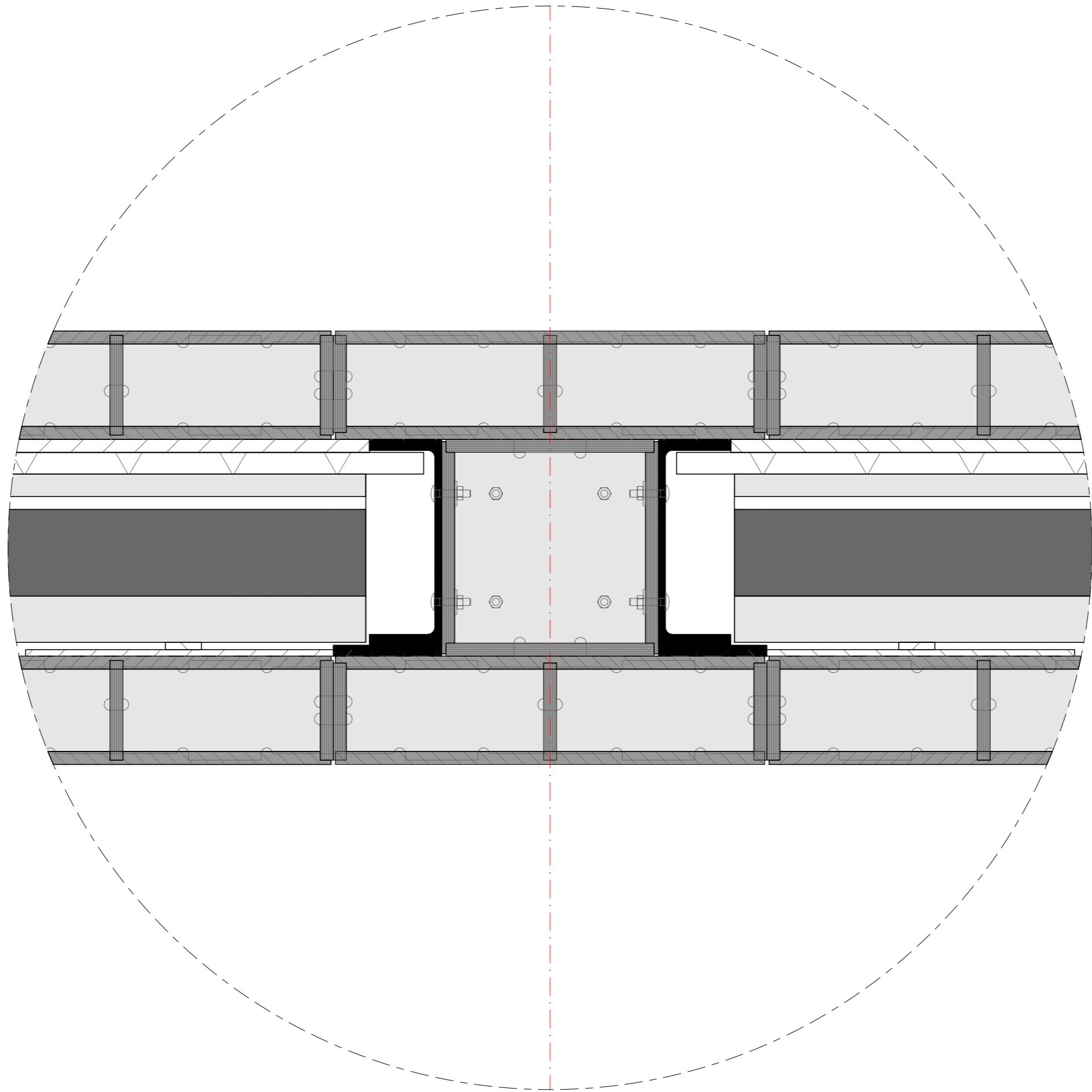




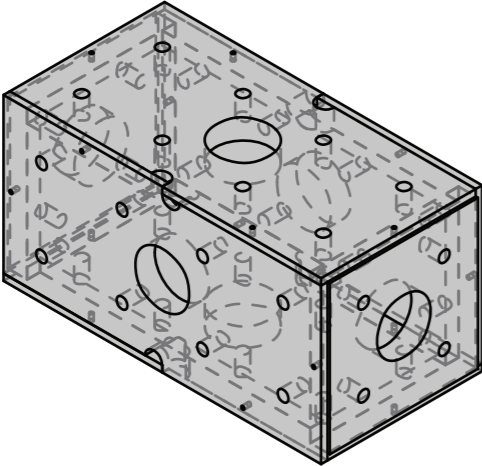




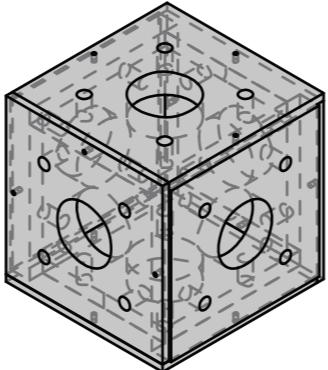




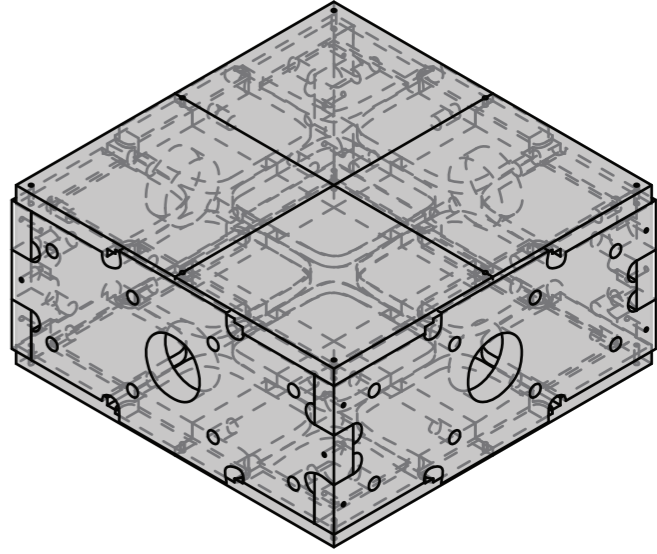
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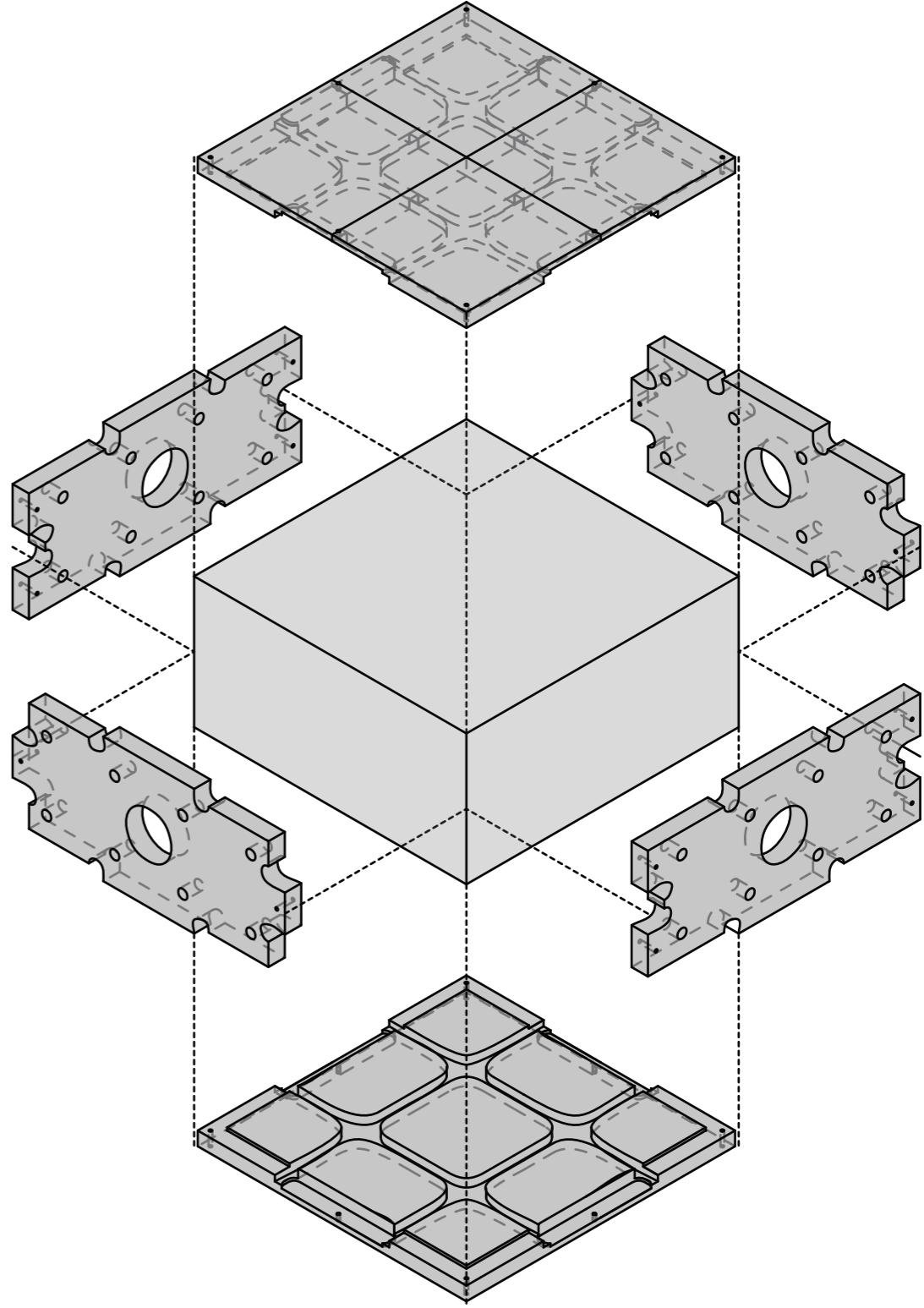
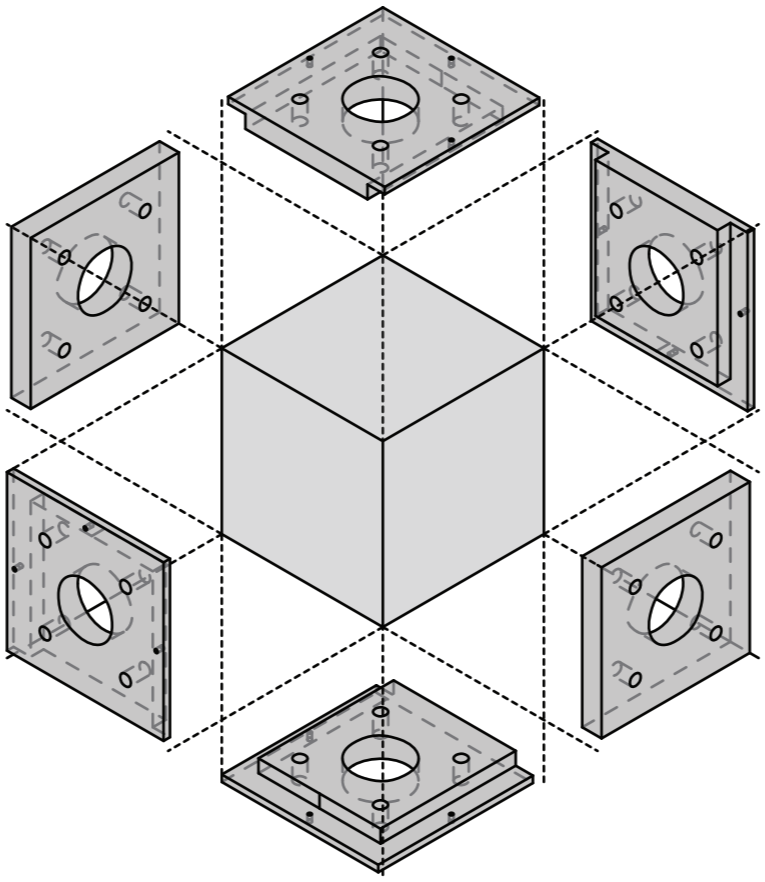
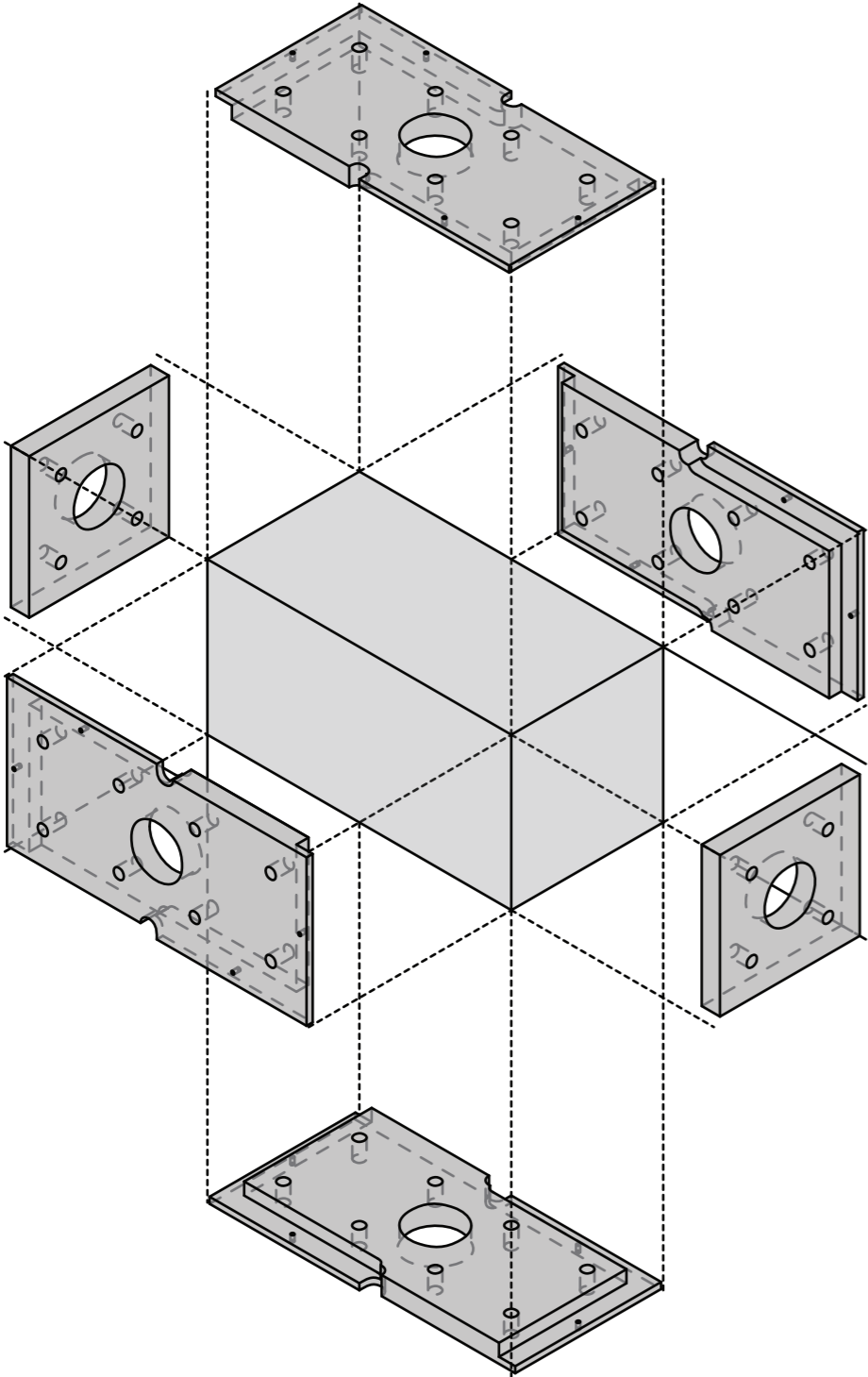
Line

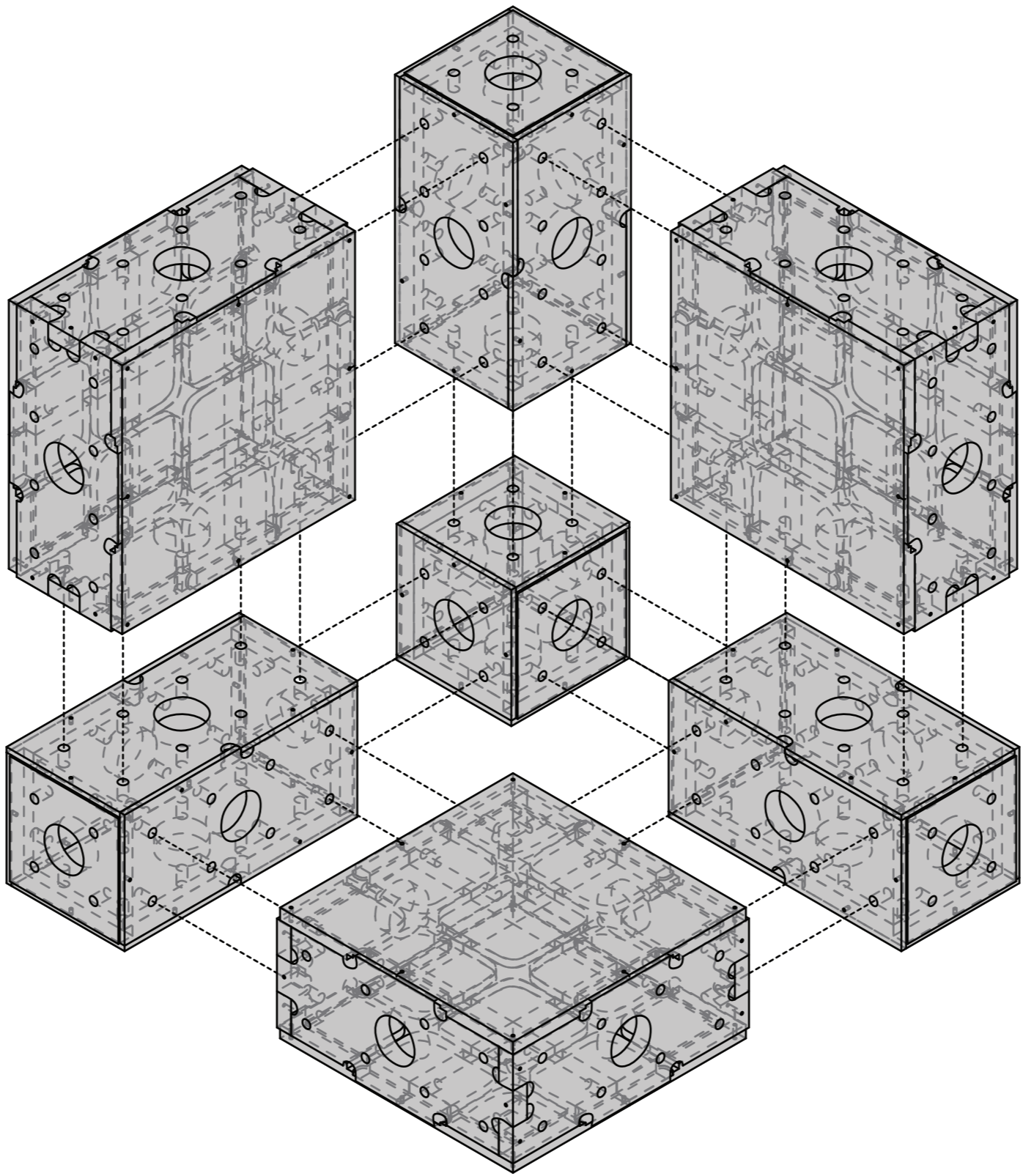


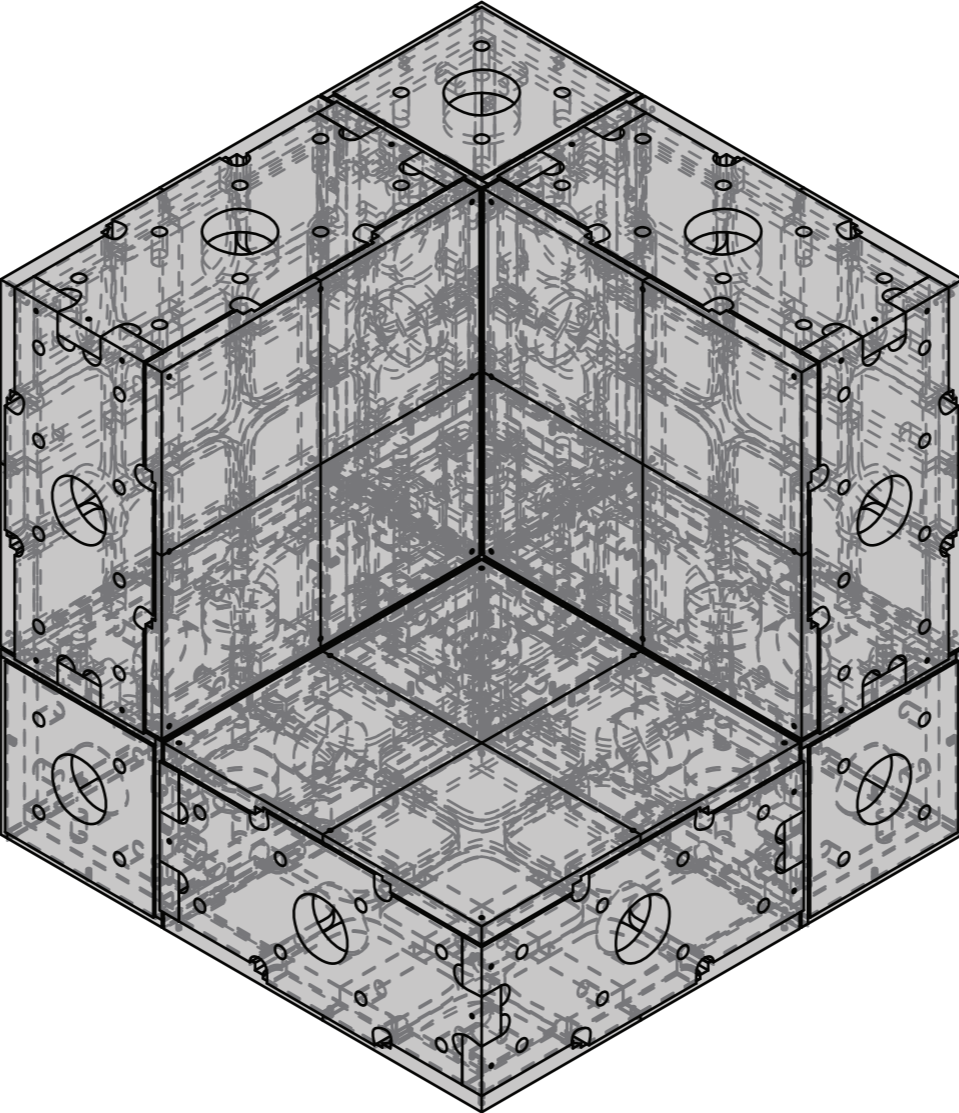
Point

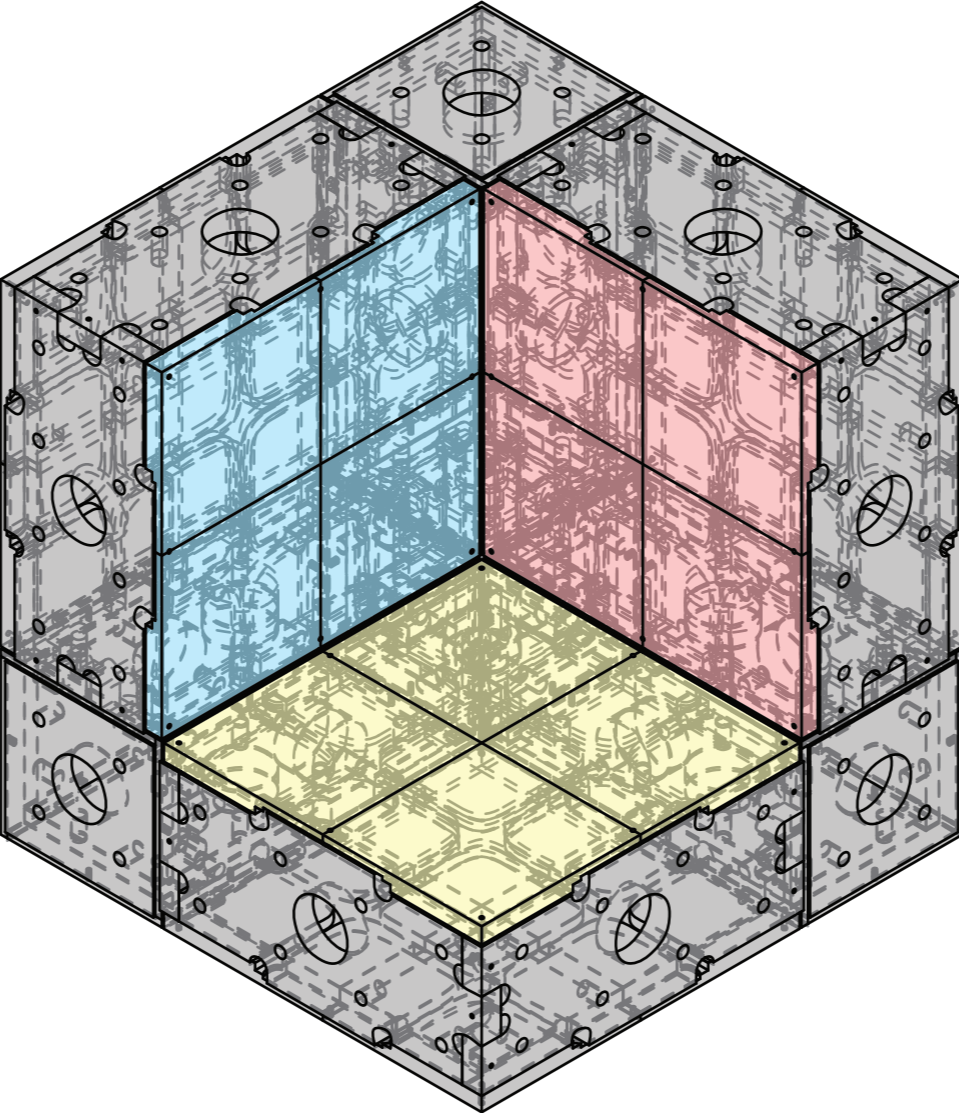


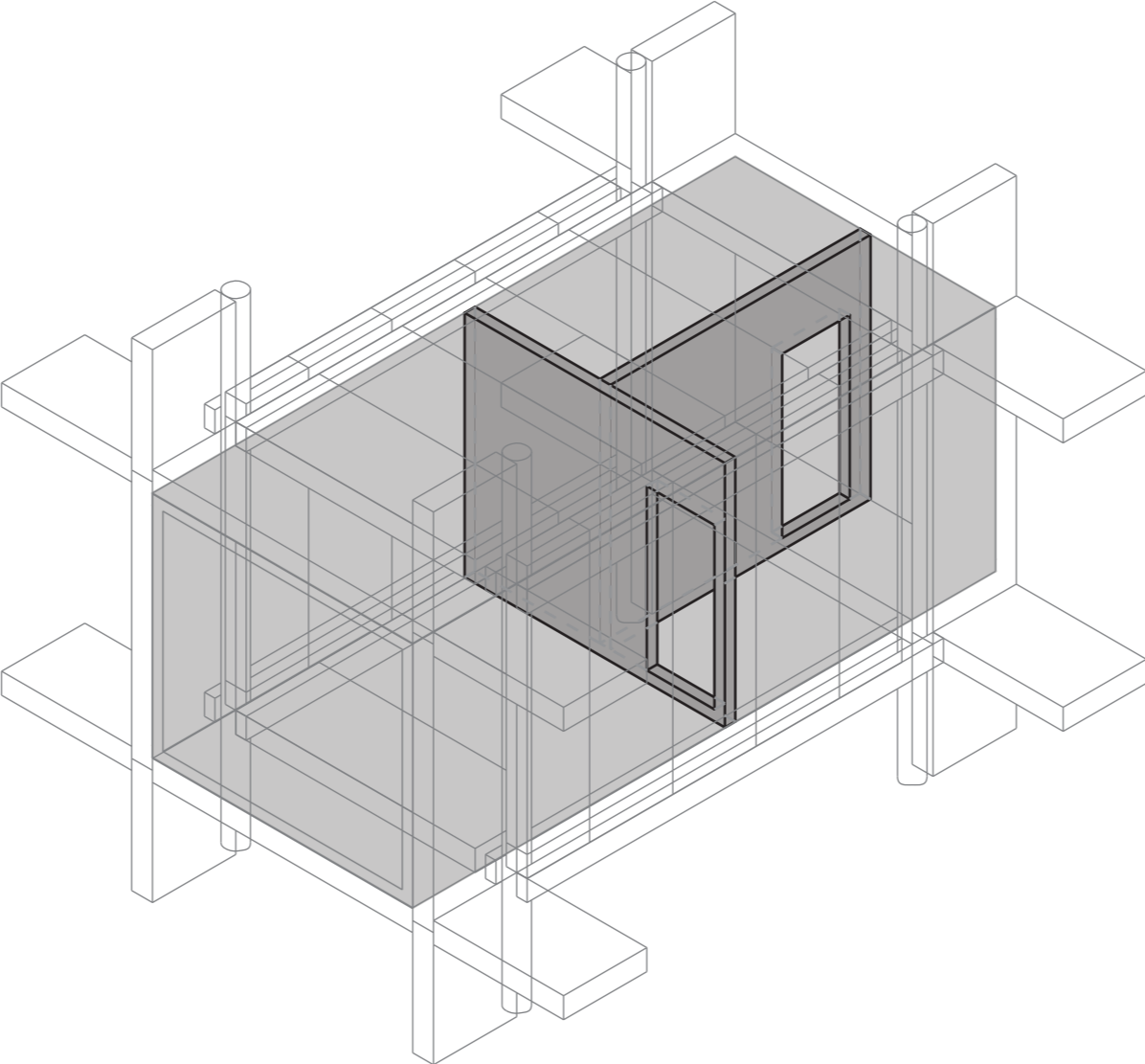
Plane

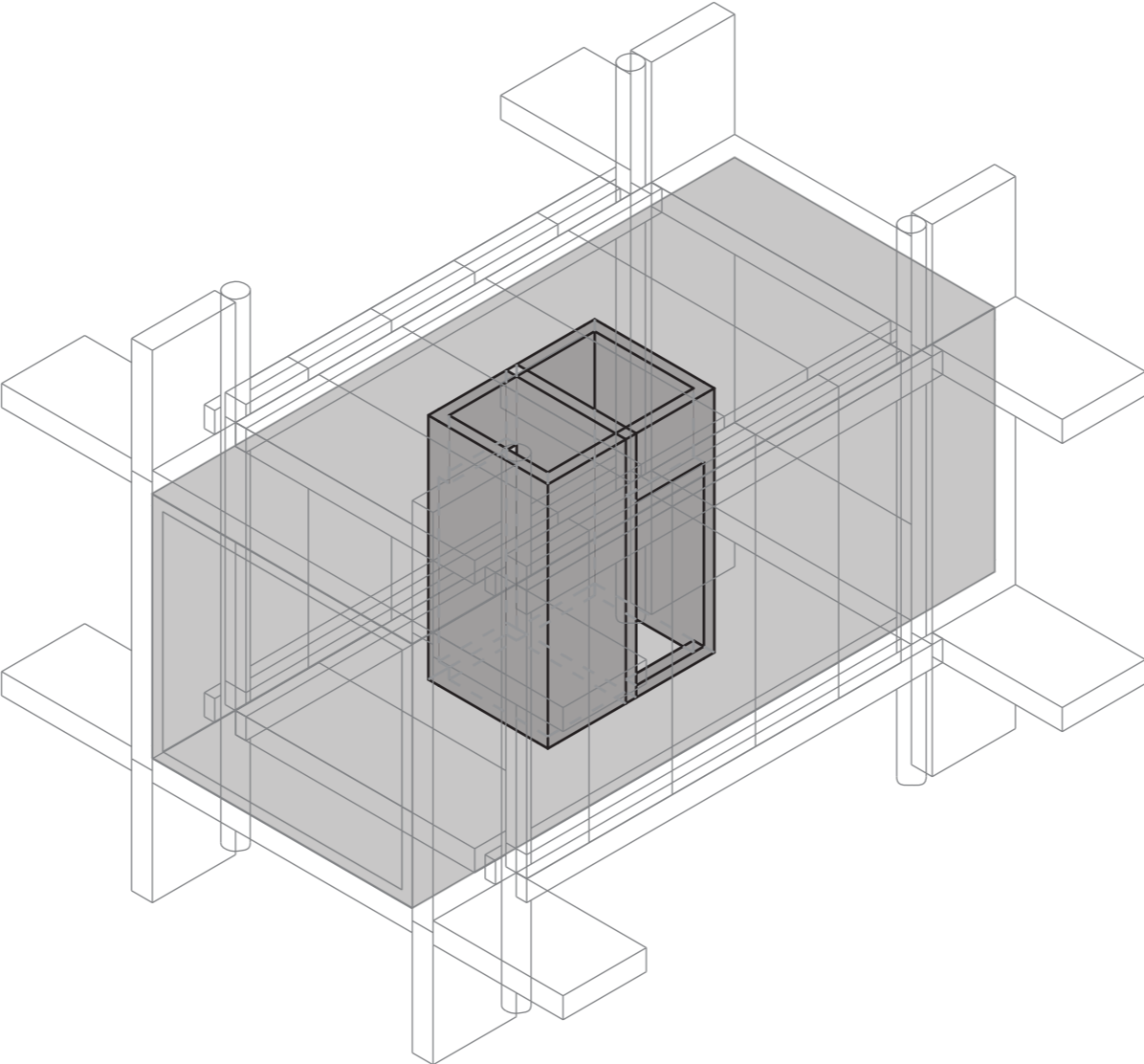


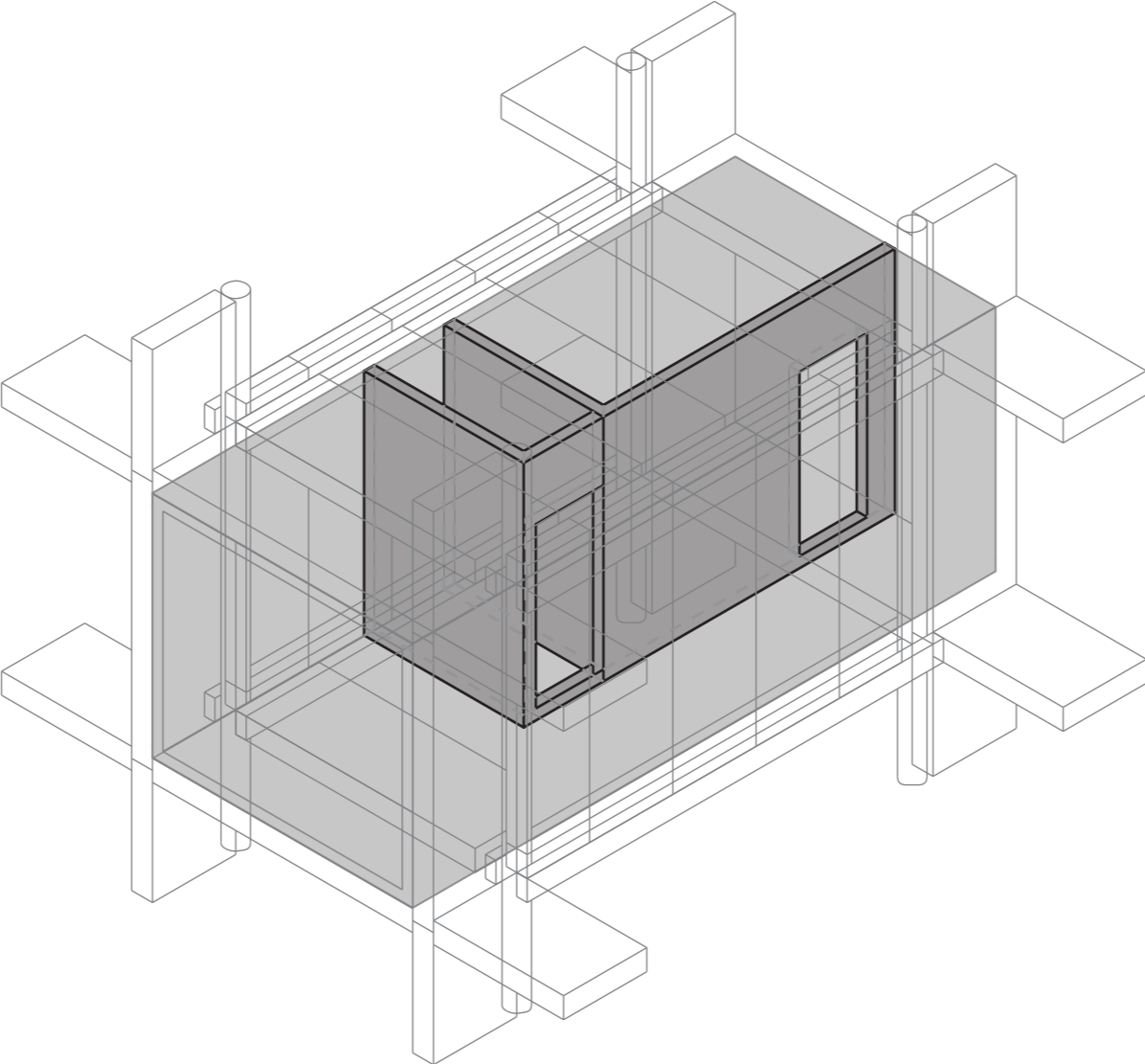


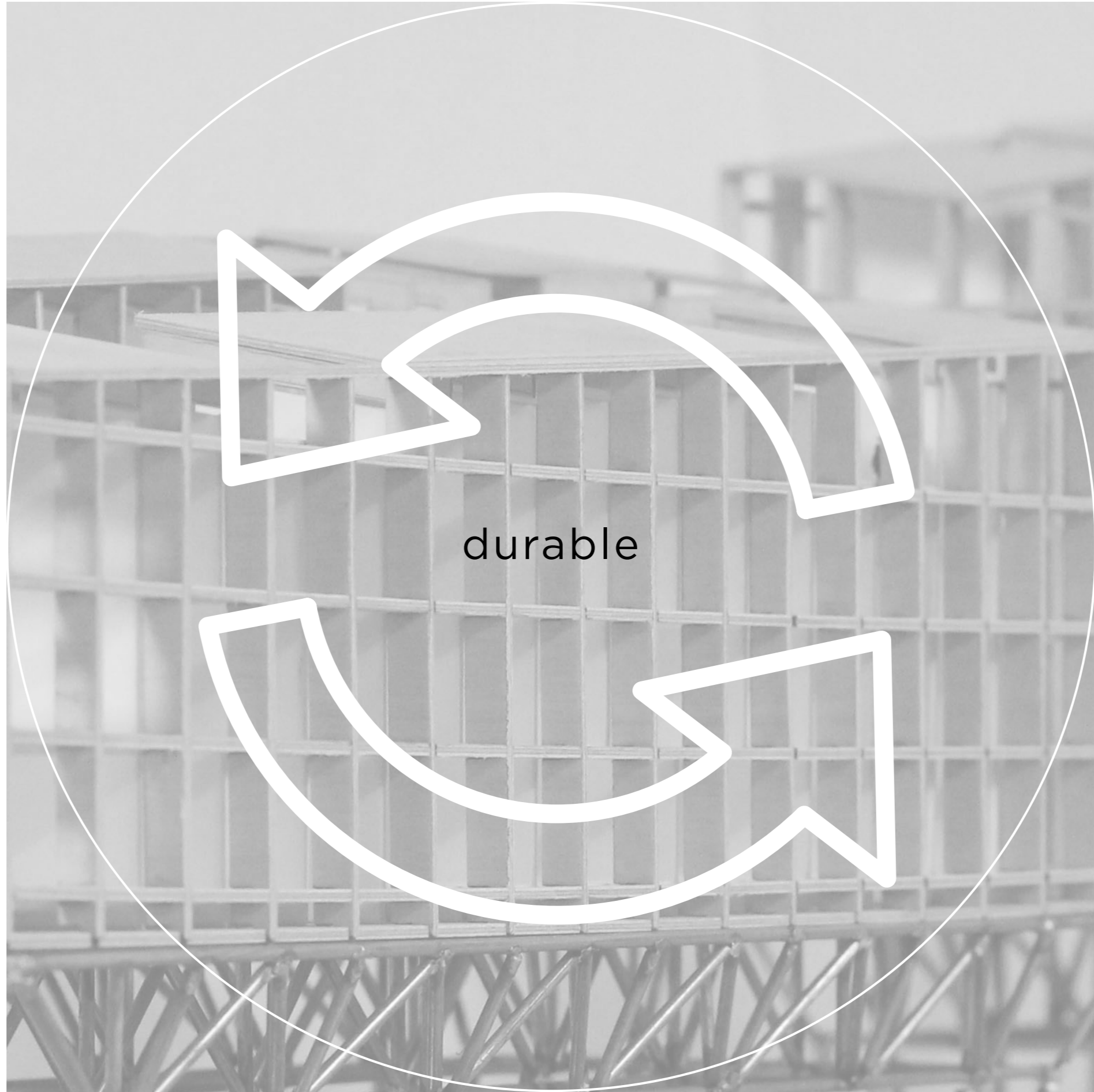




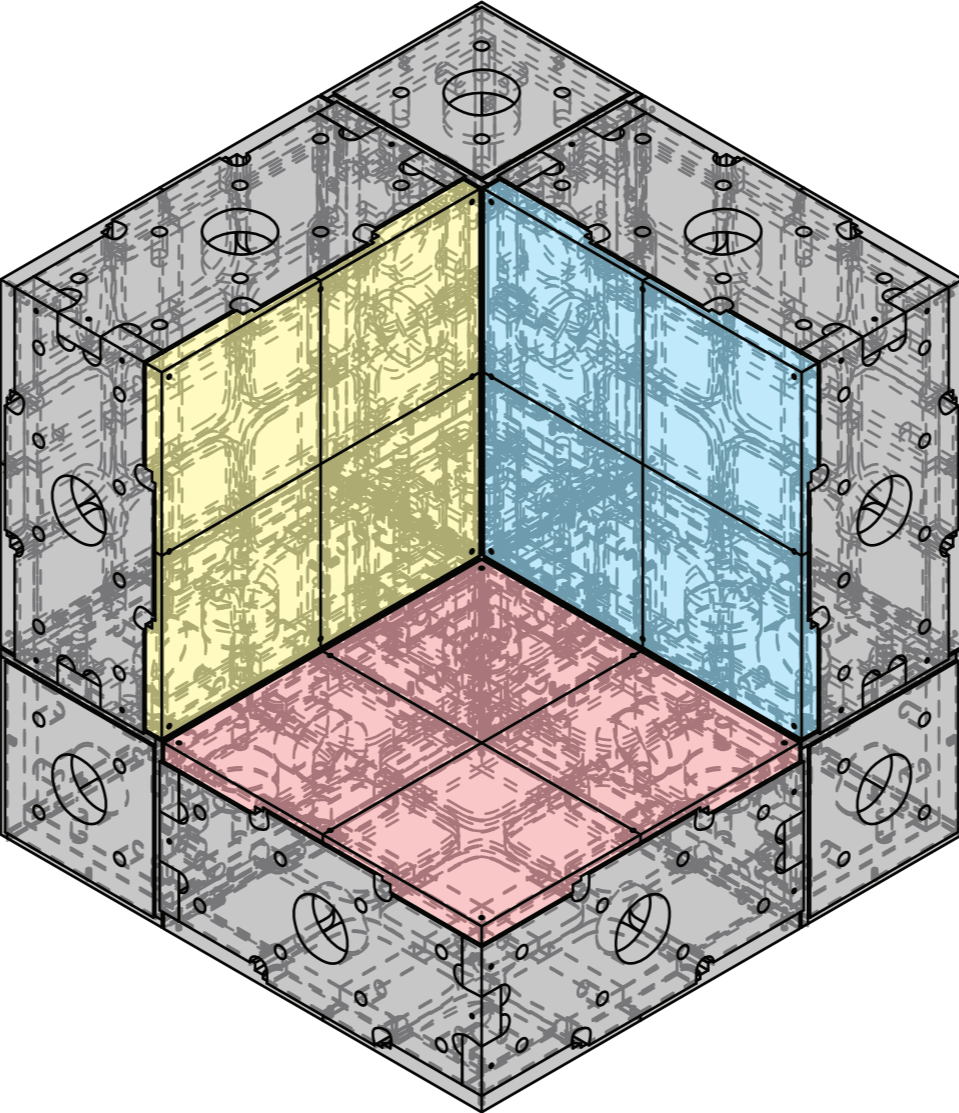


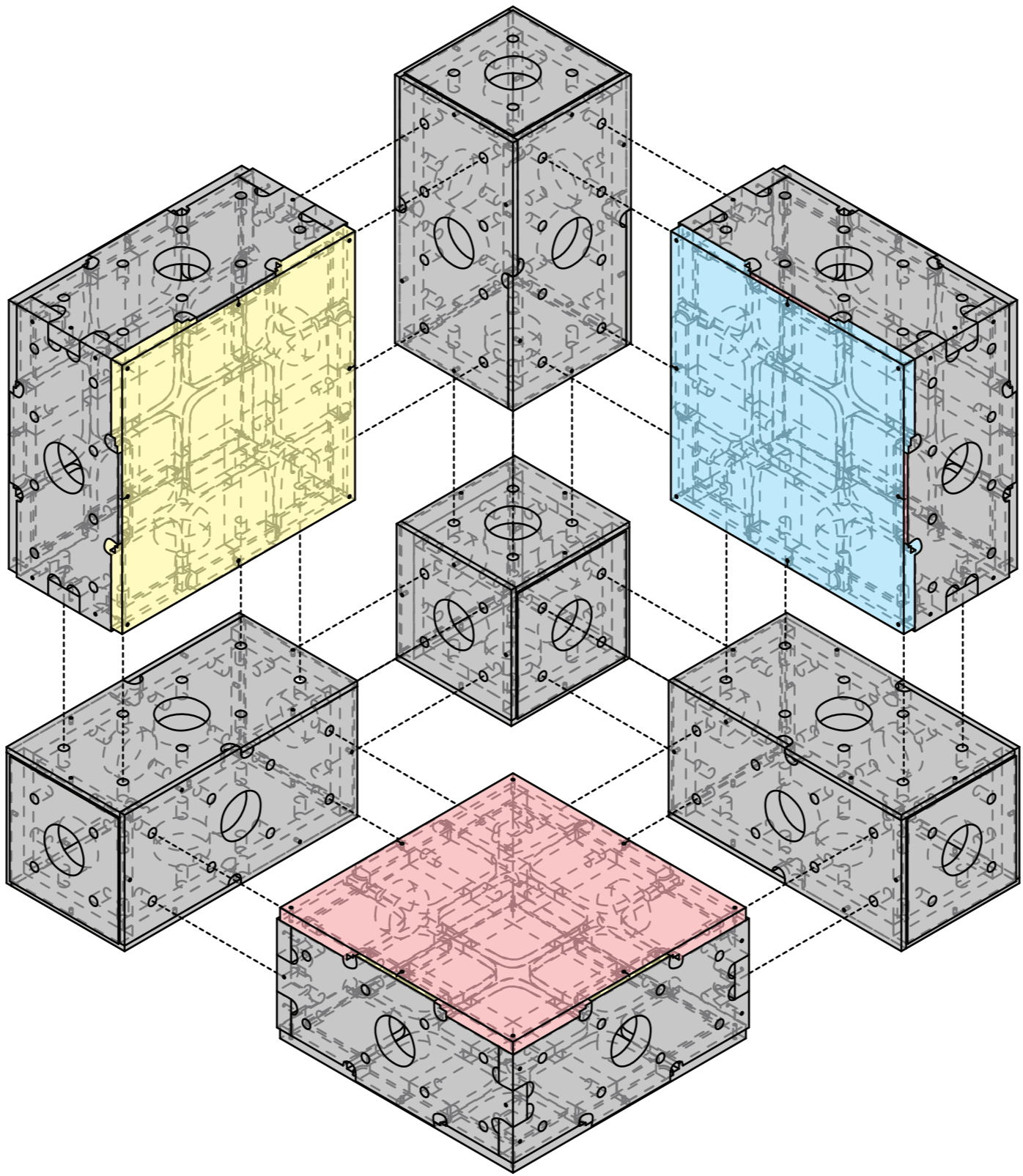


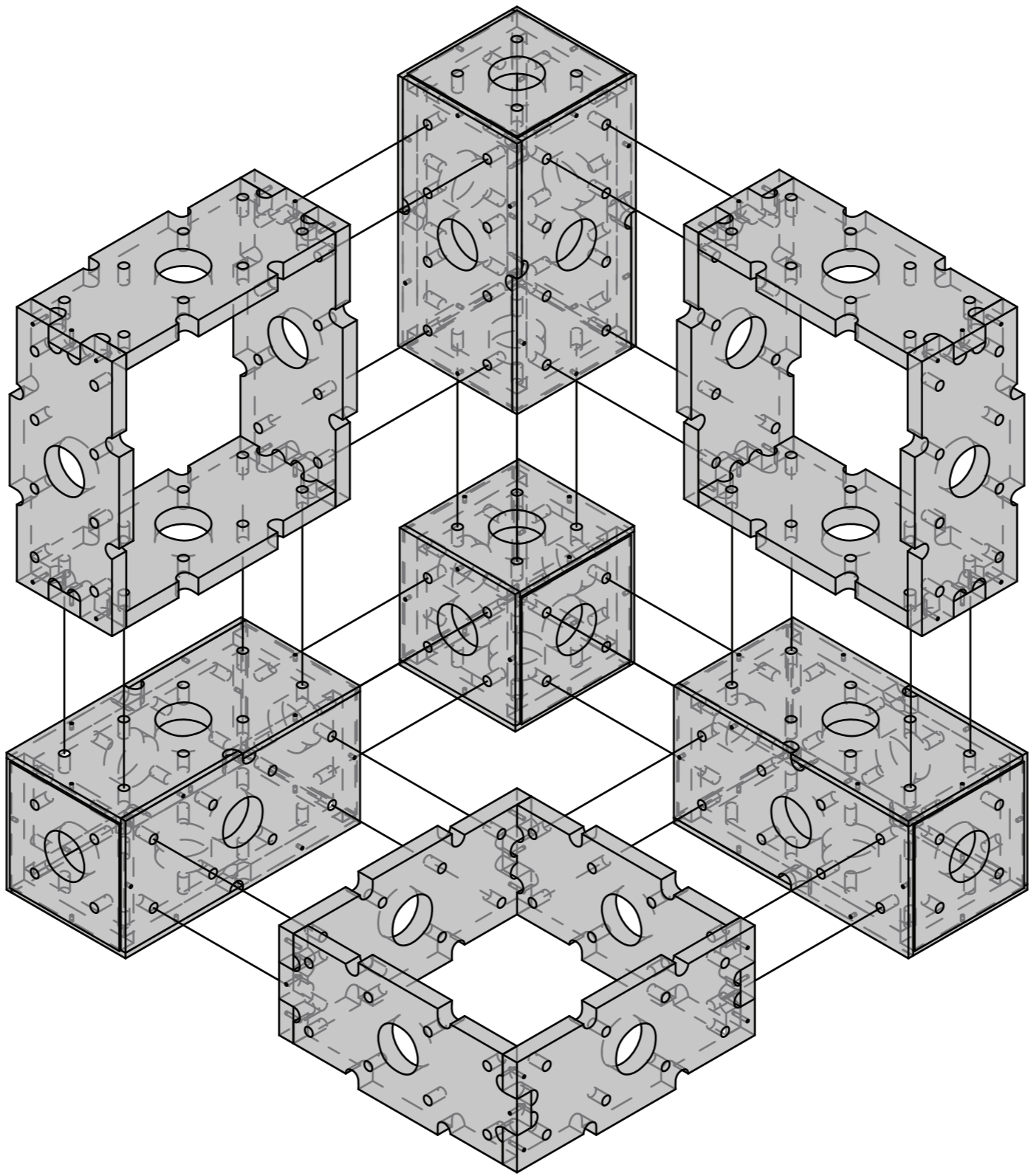


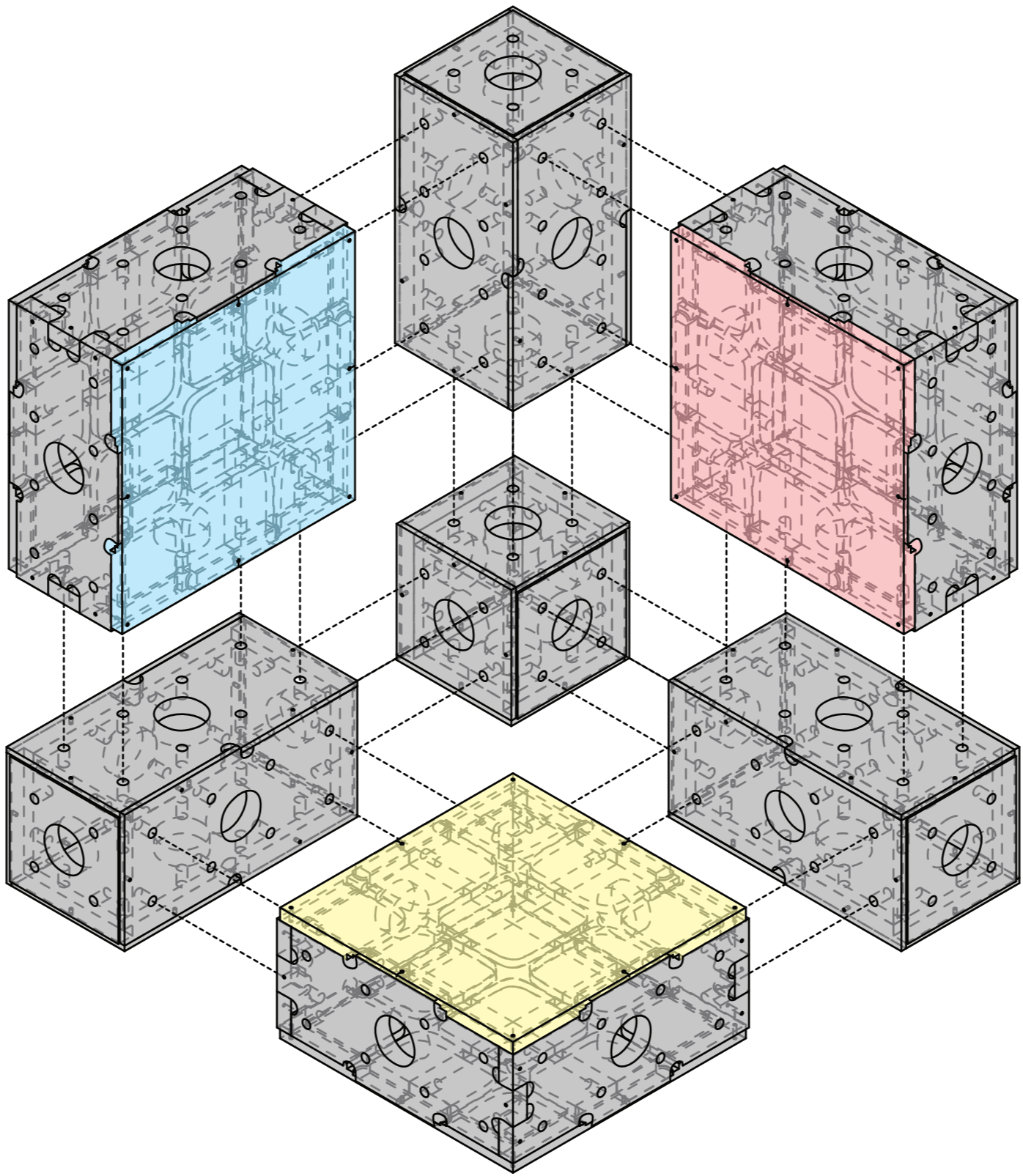


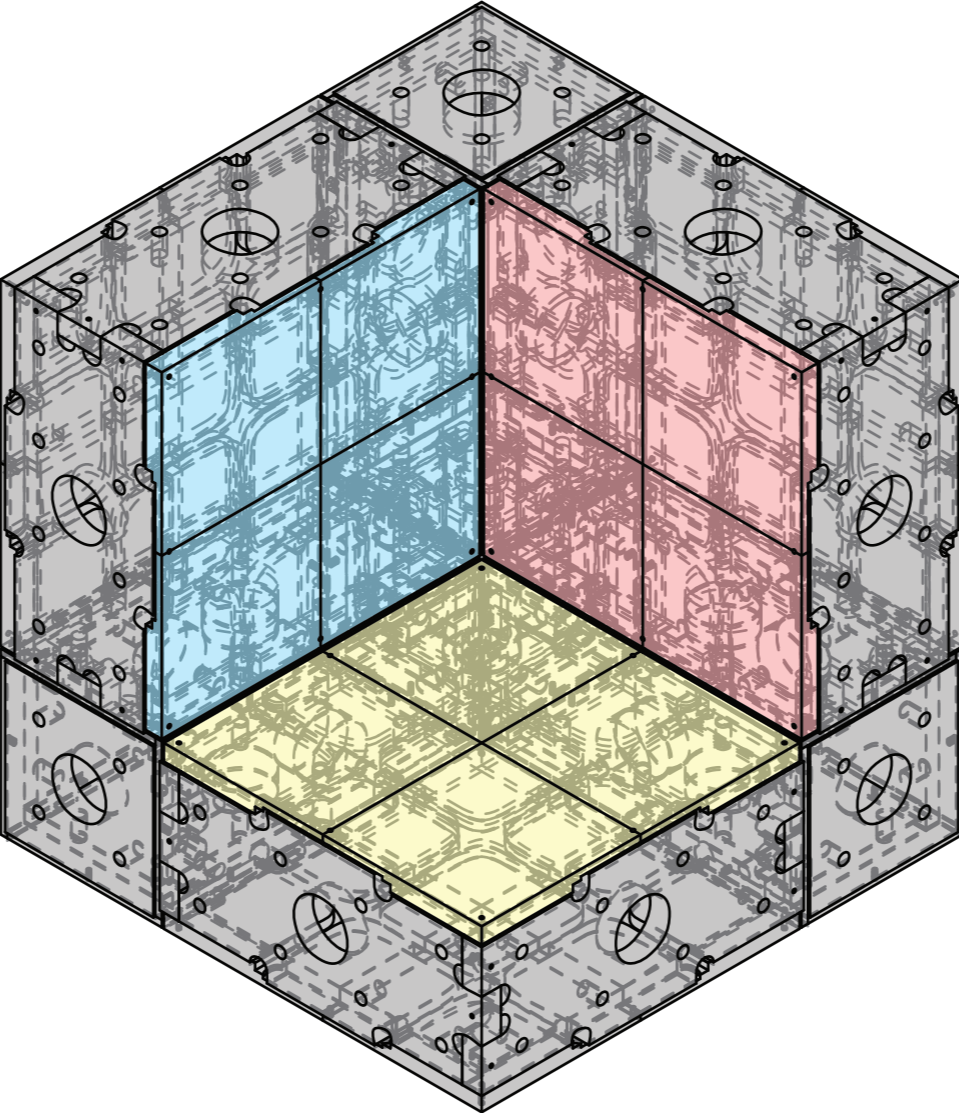
durable

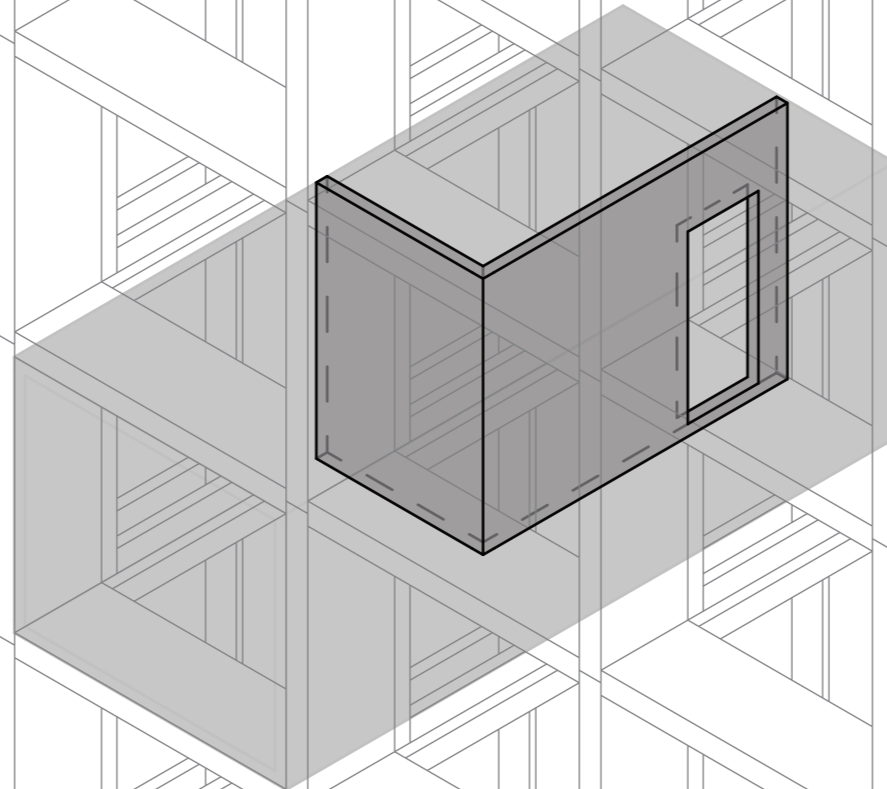


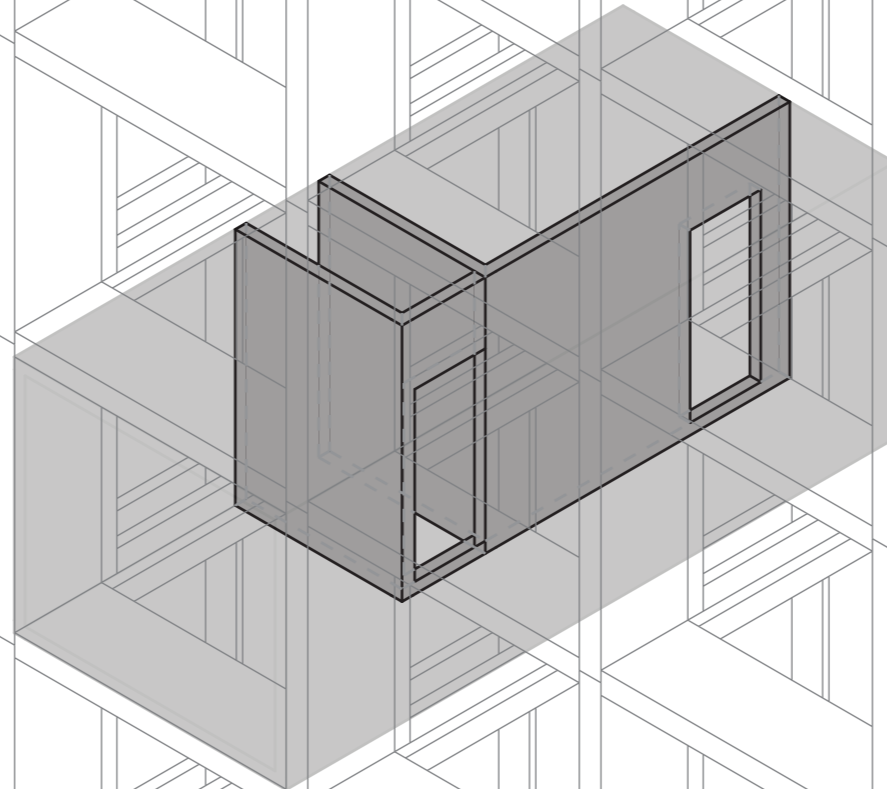


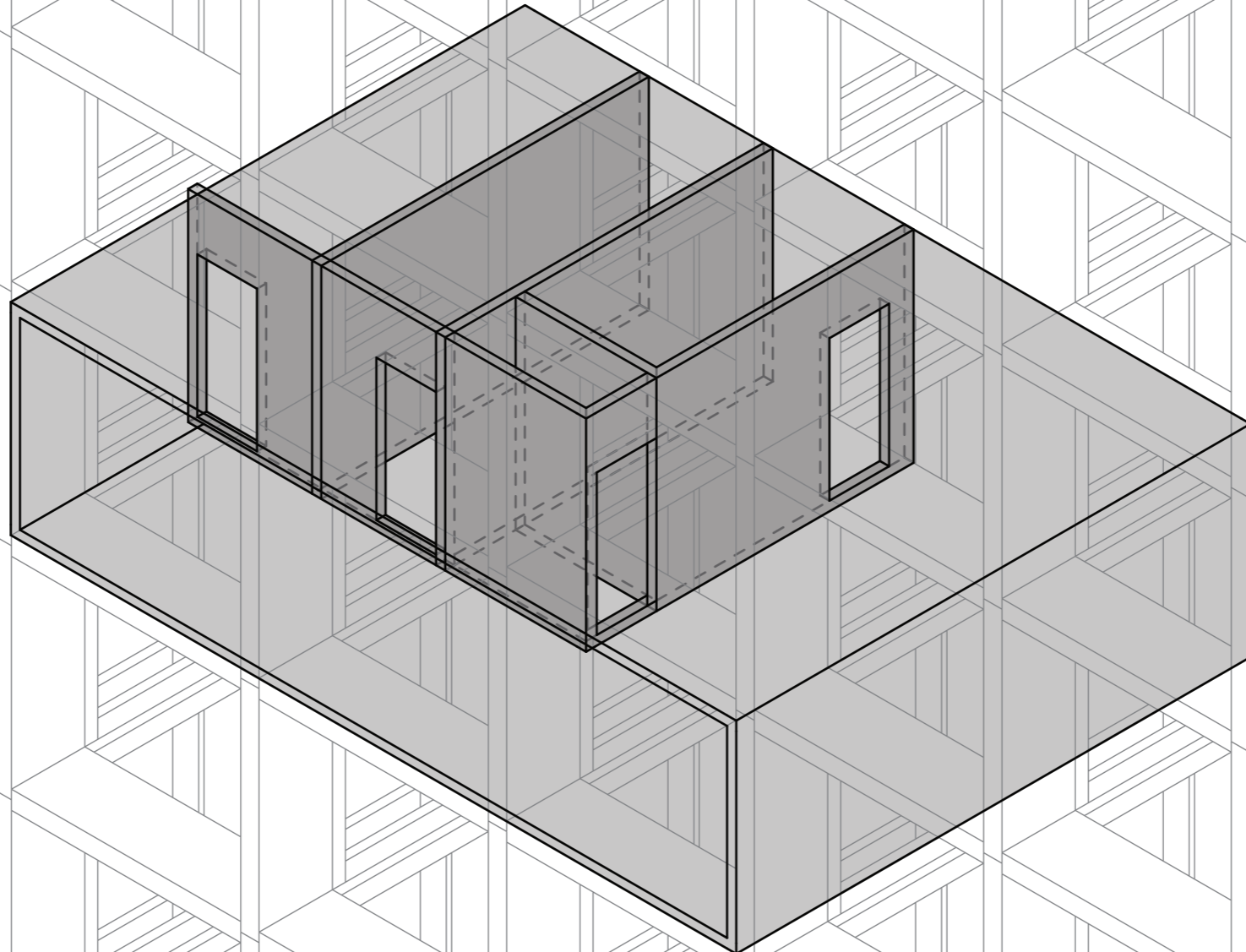


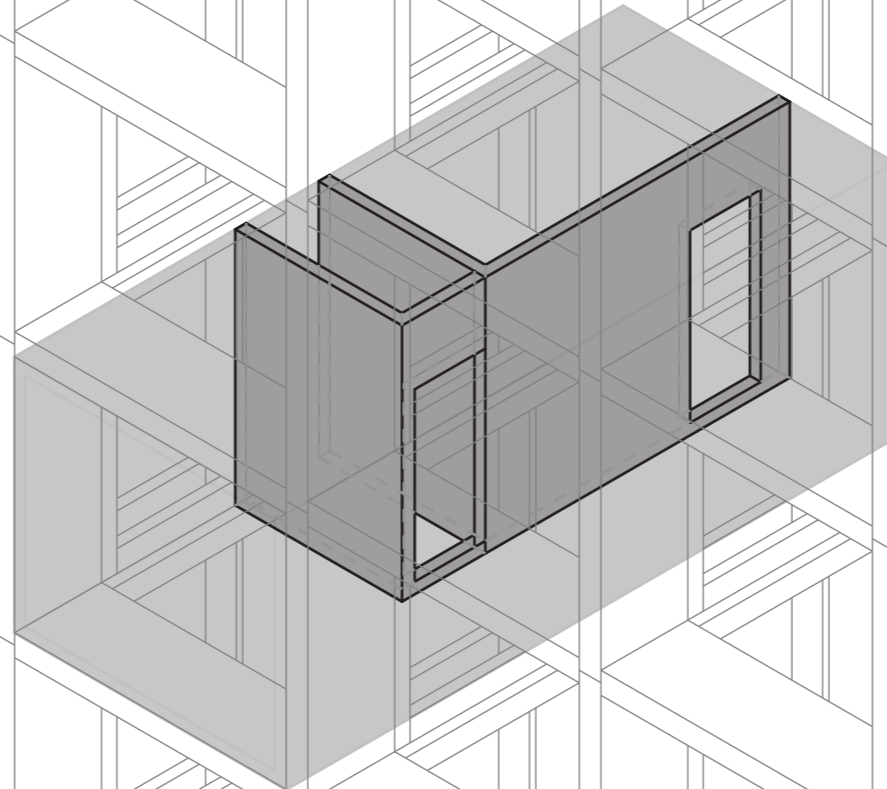


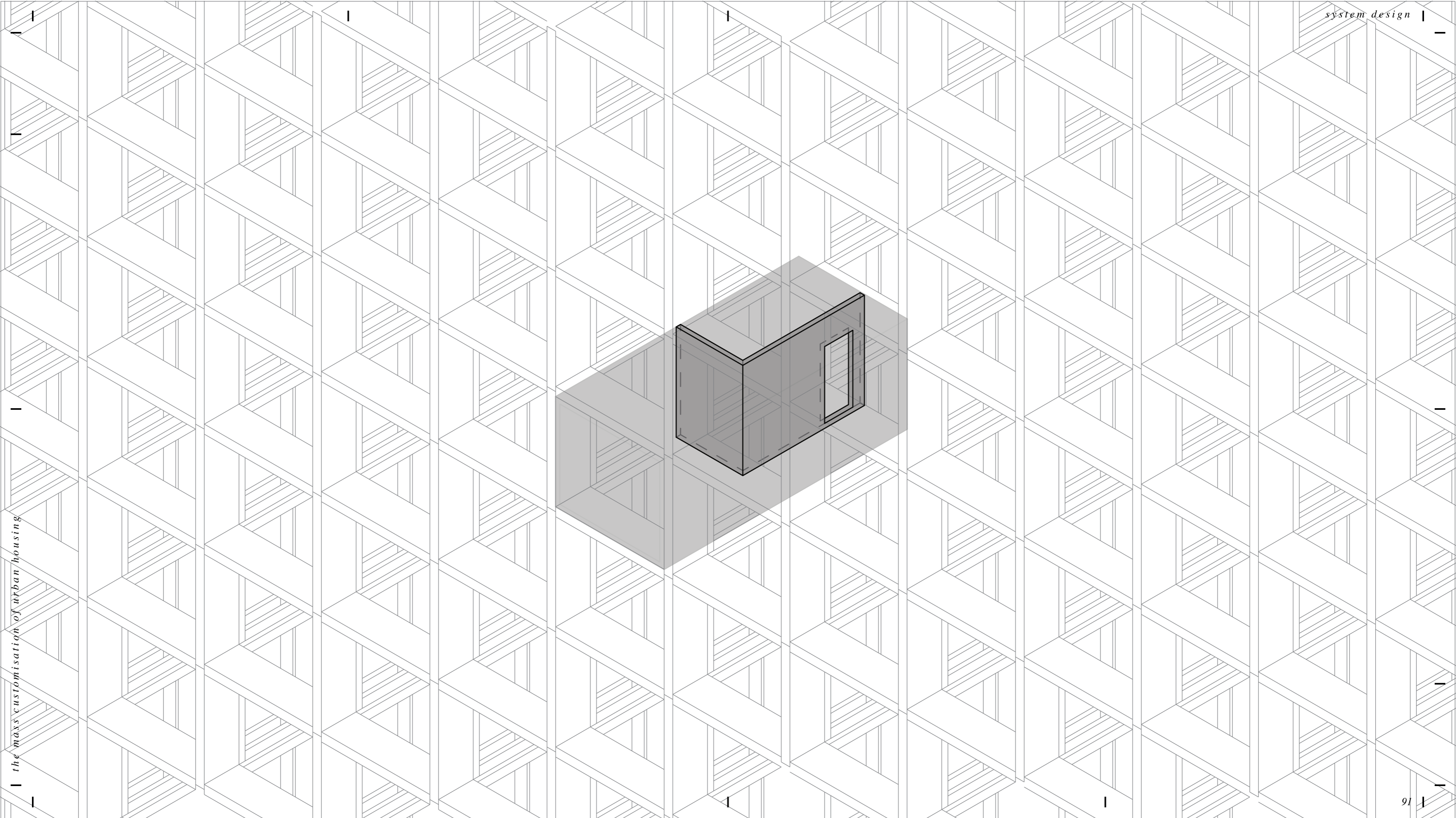




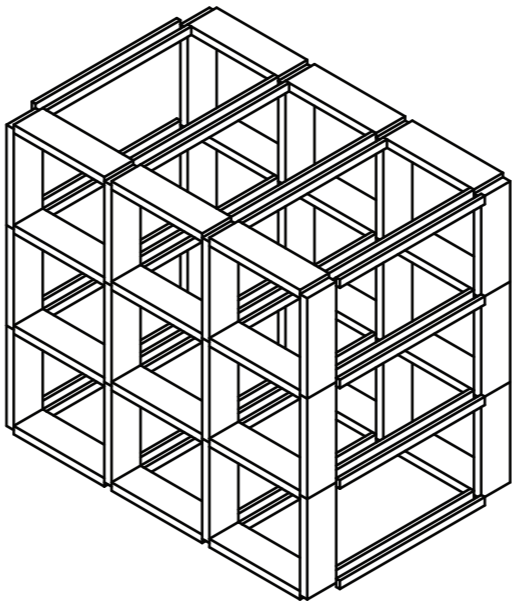


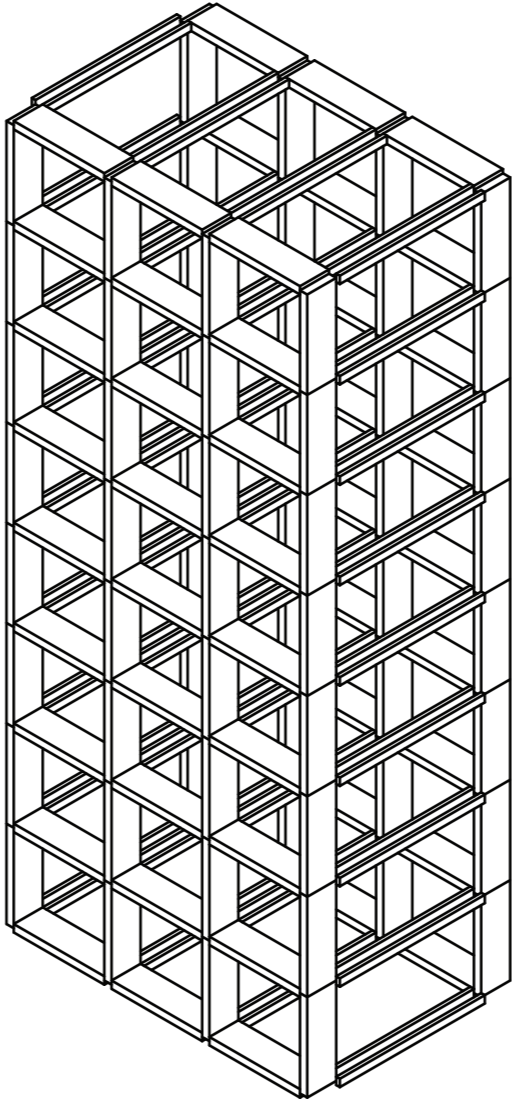


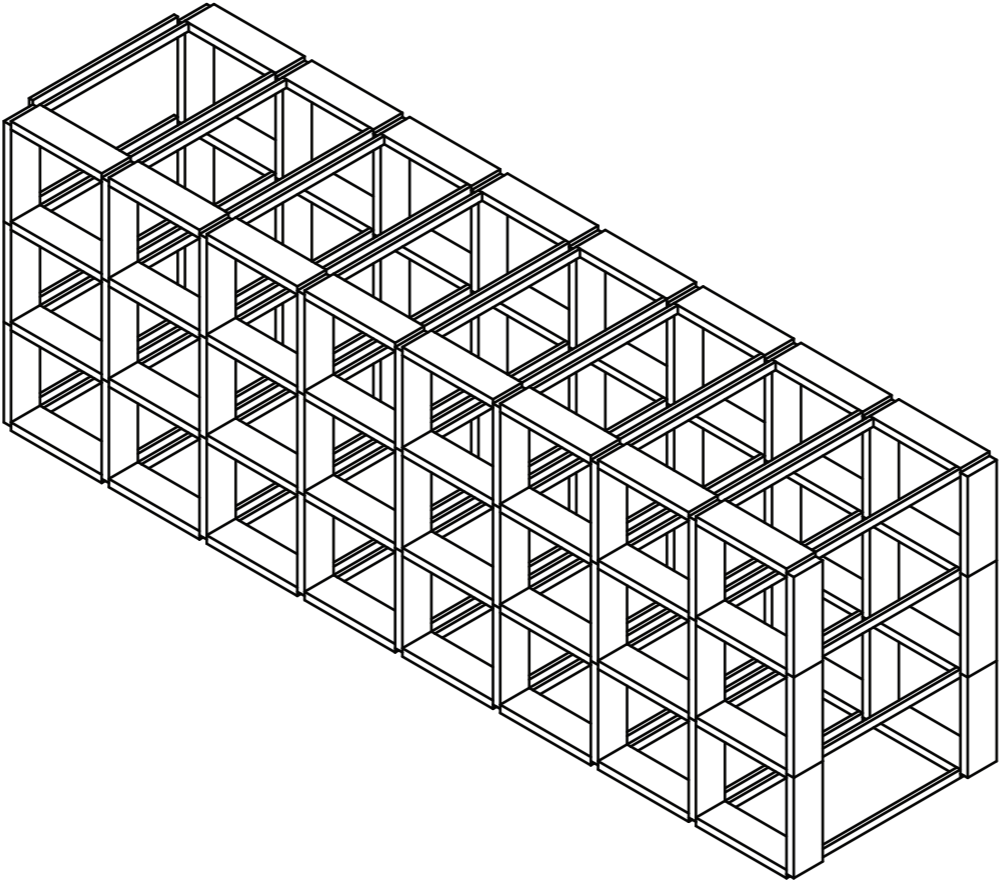


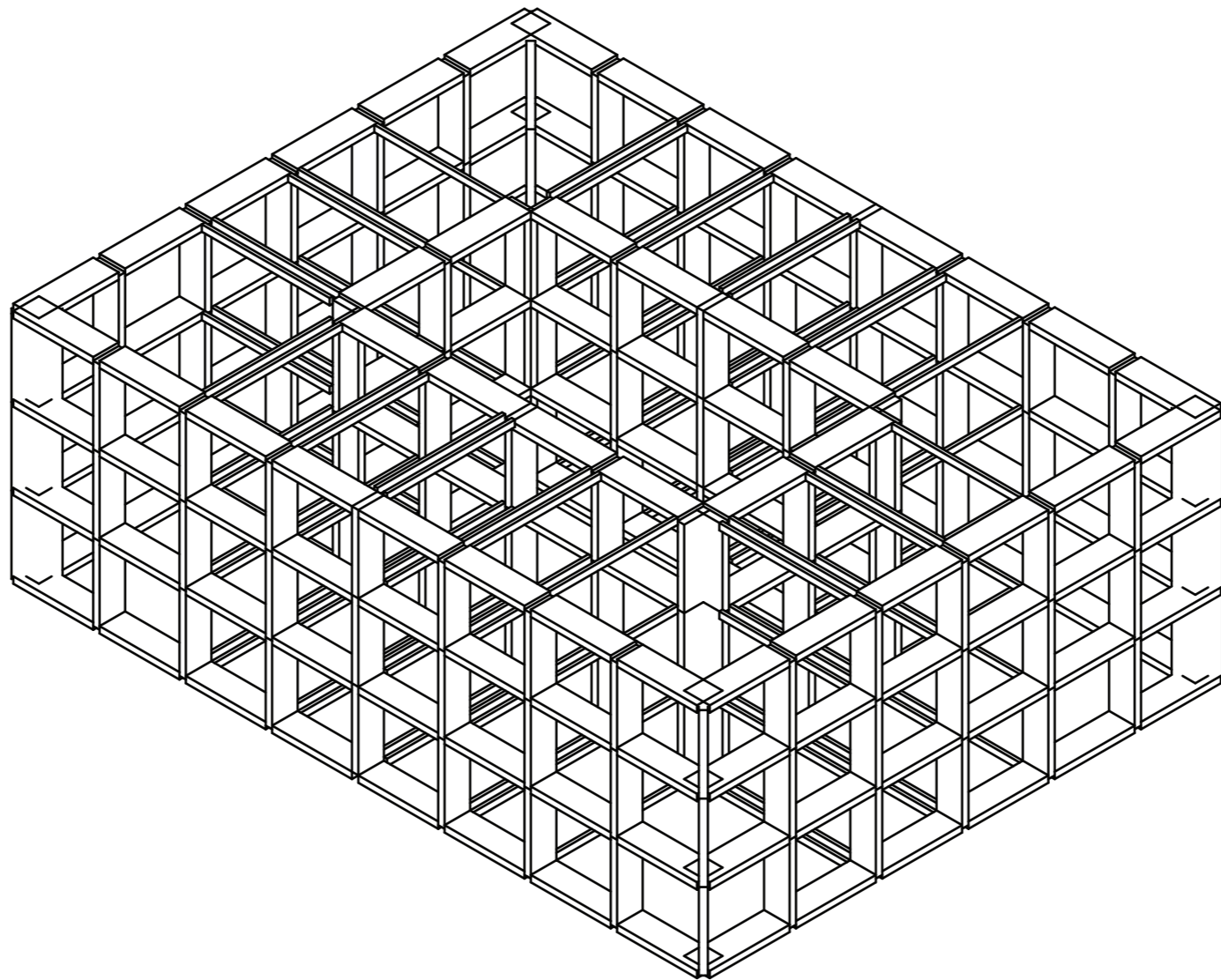


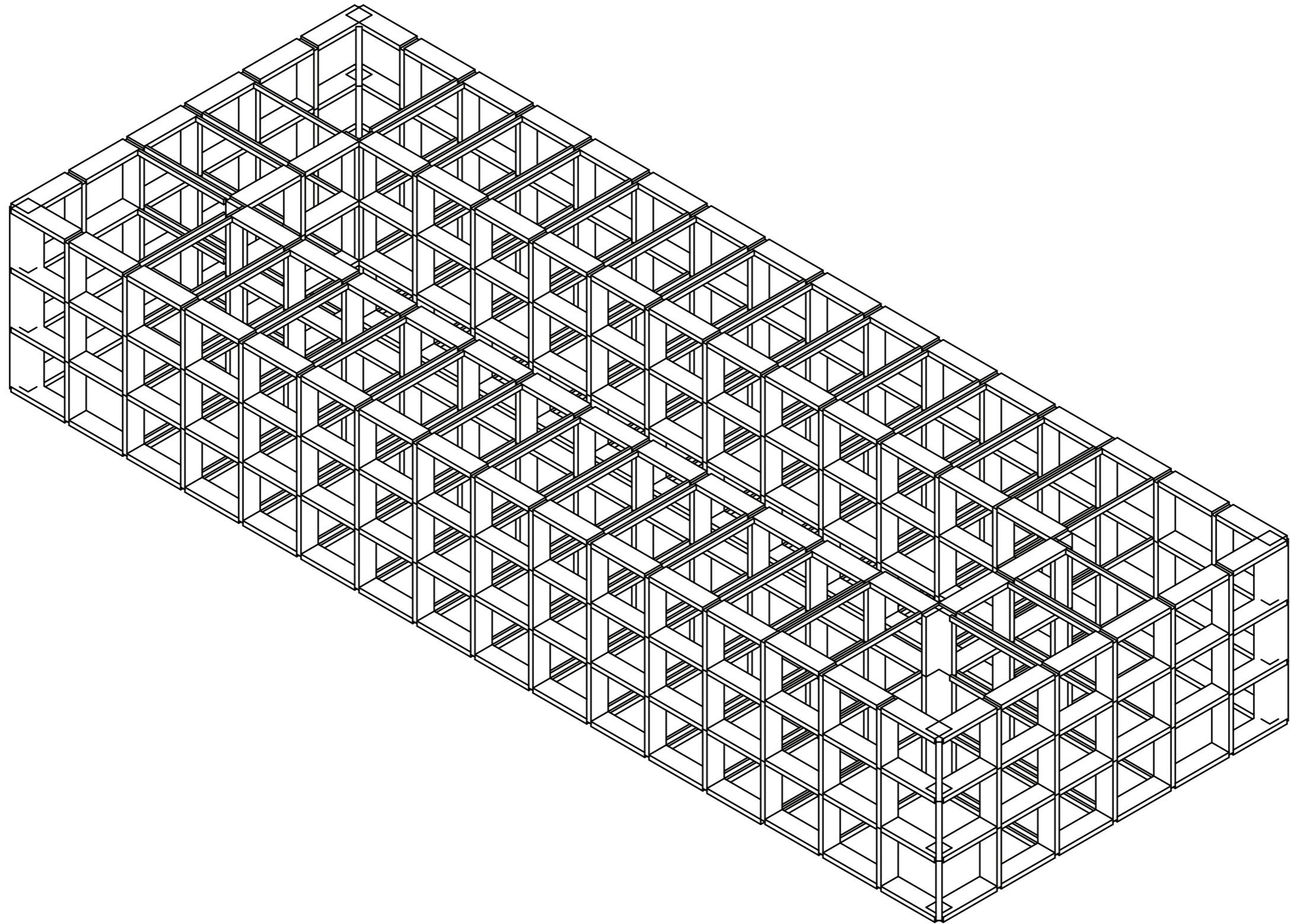


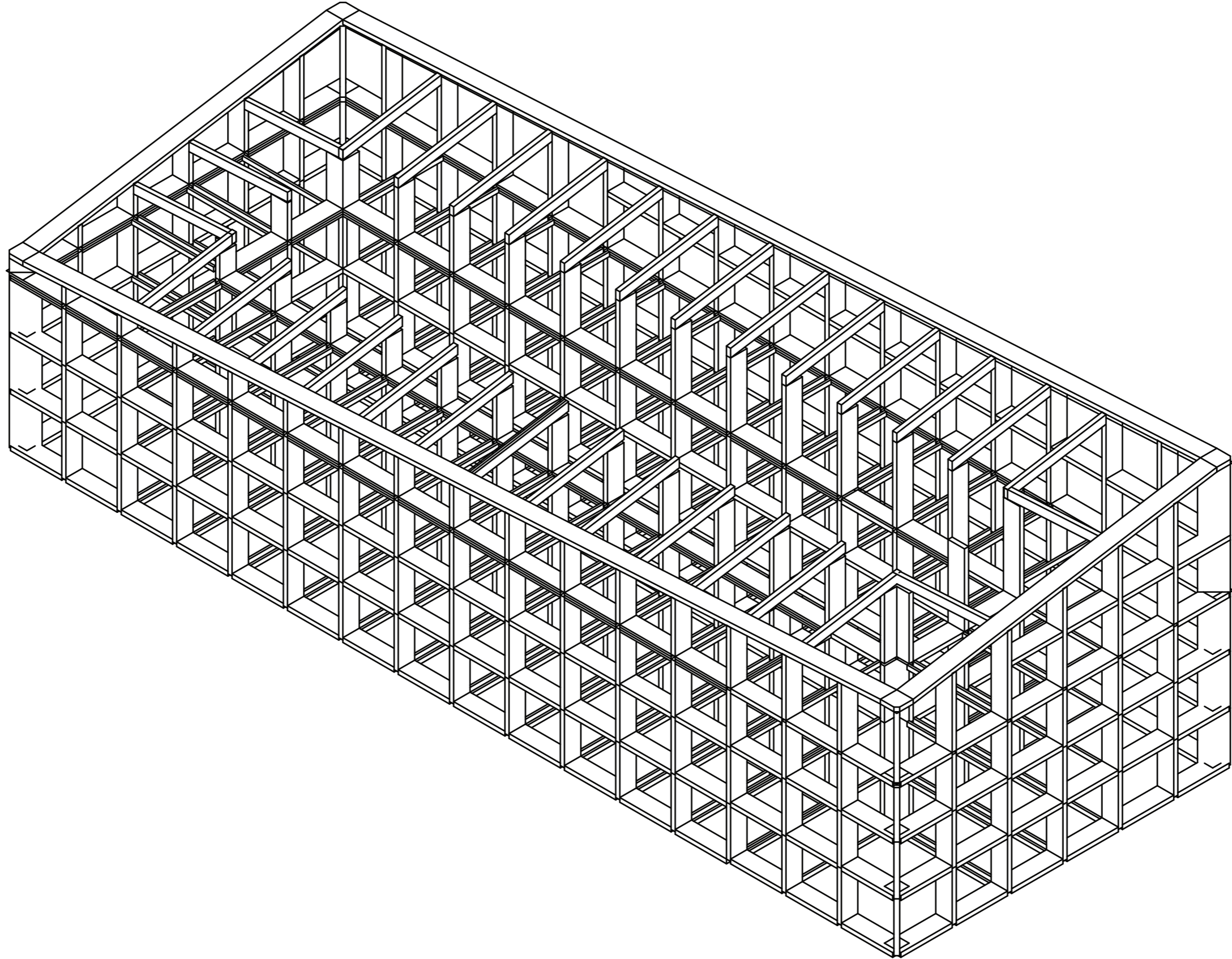


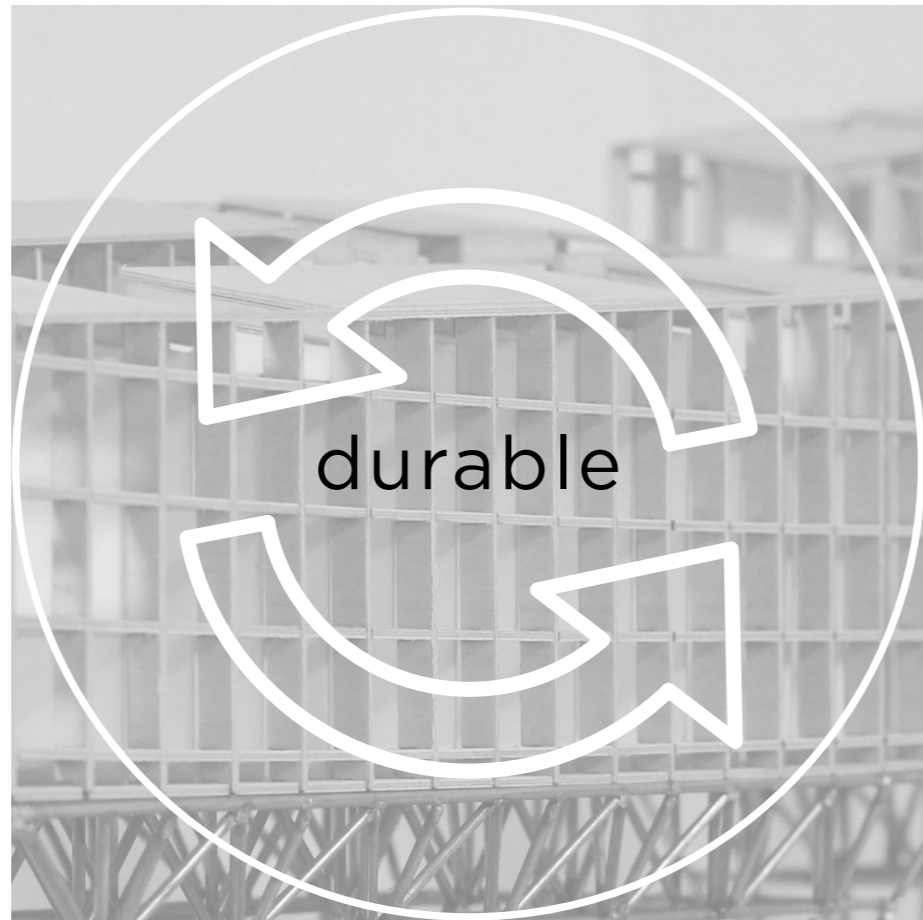


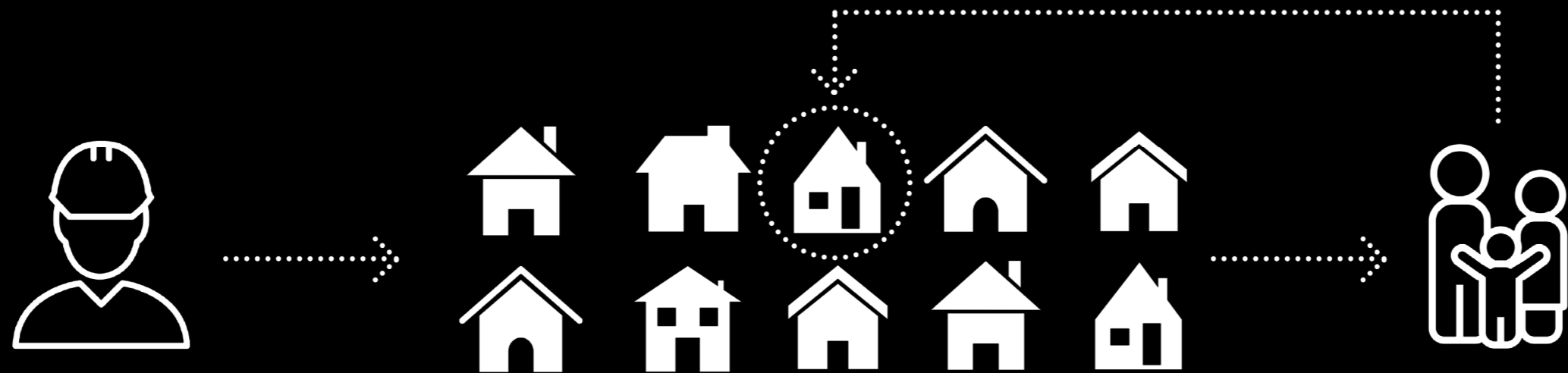


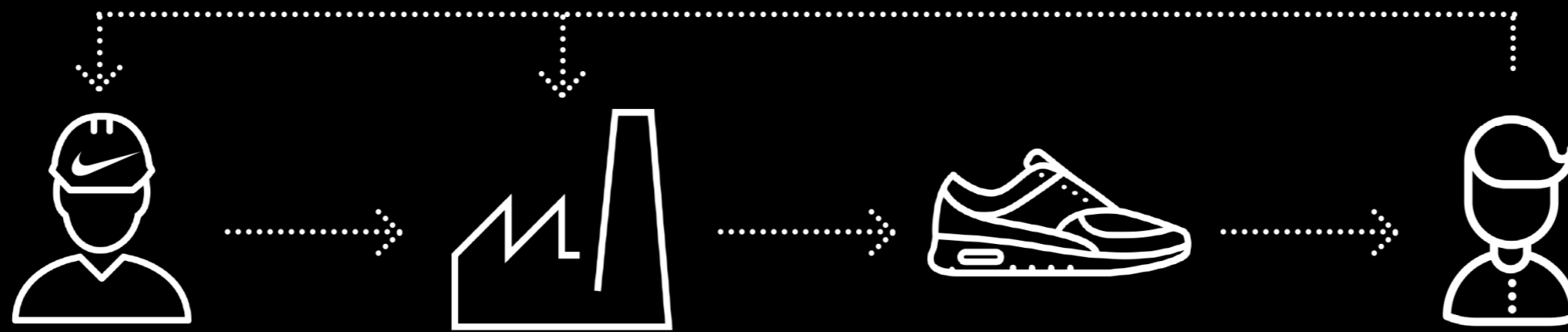


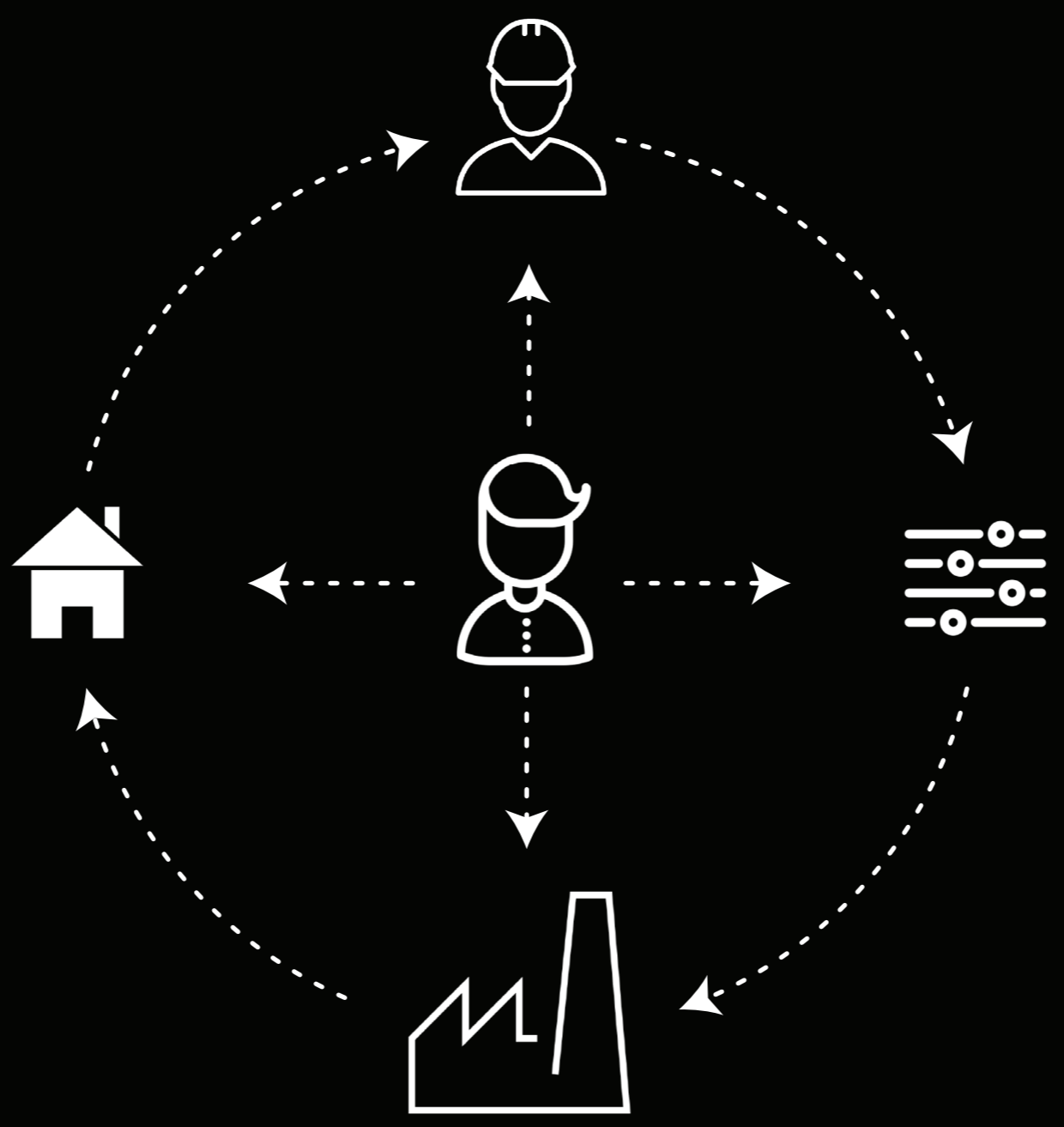


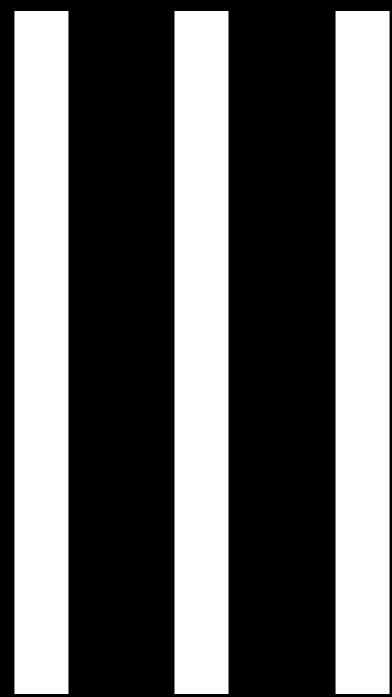






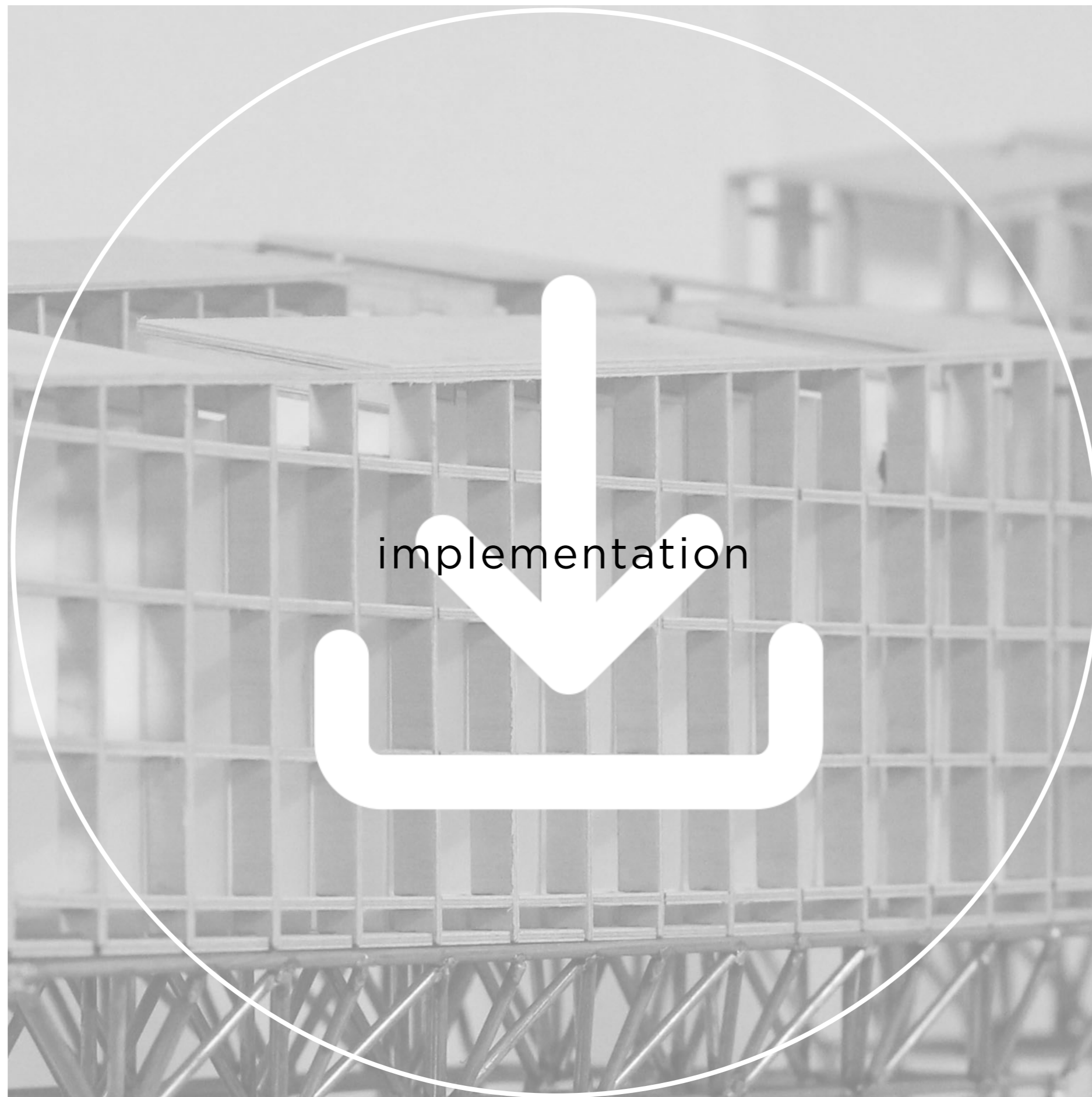




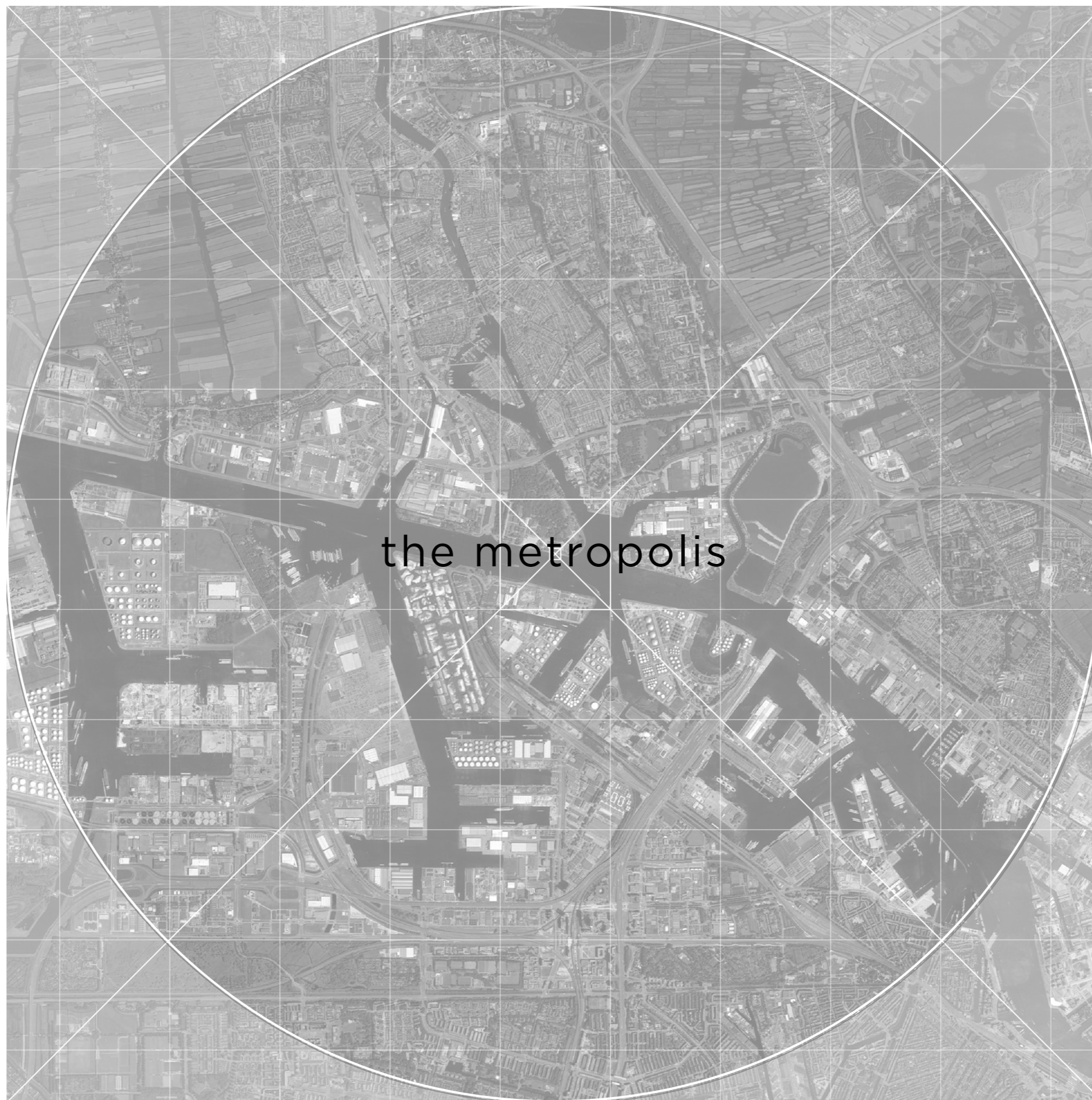


s u p p o r t c i t y



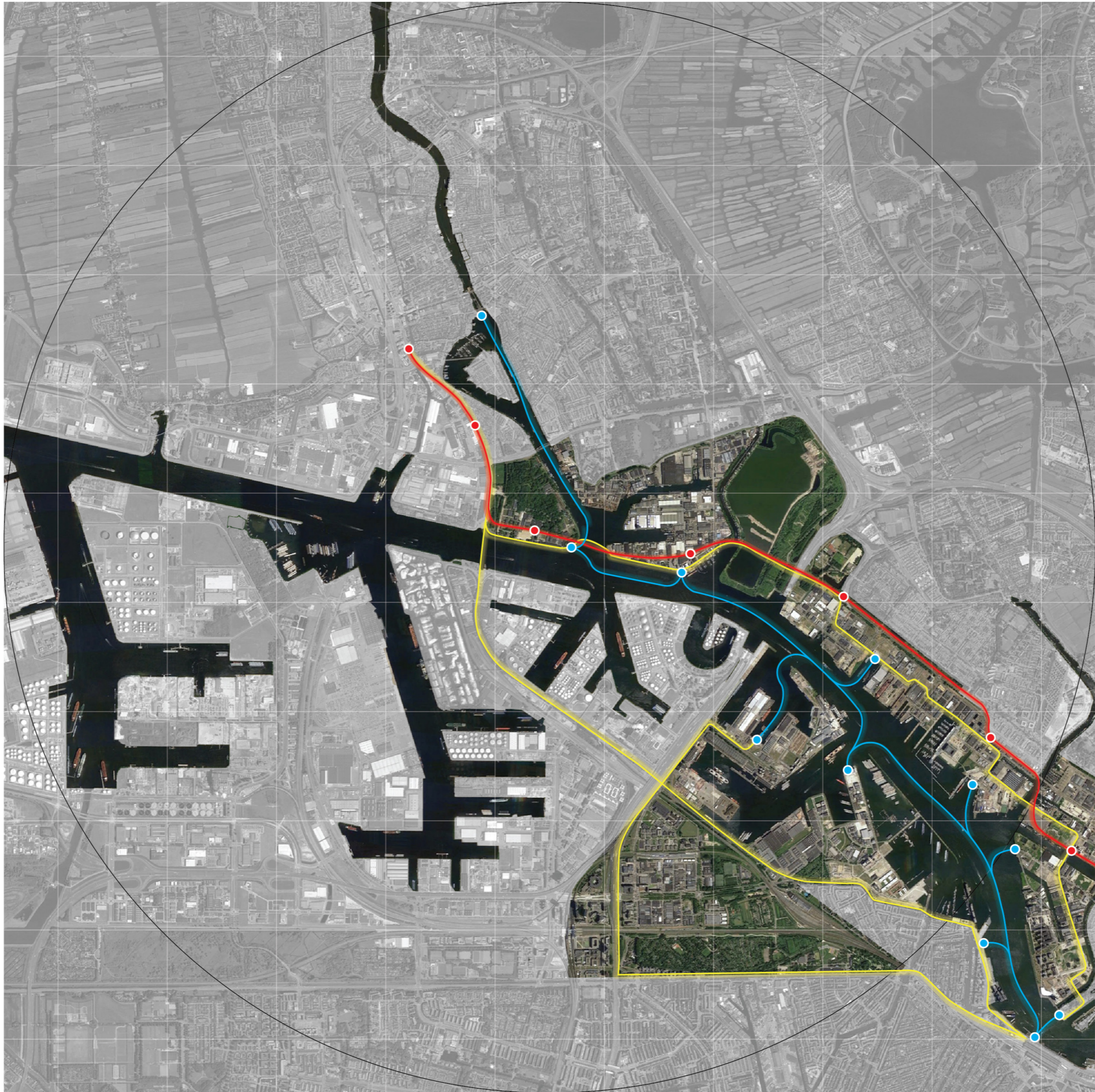


implementation



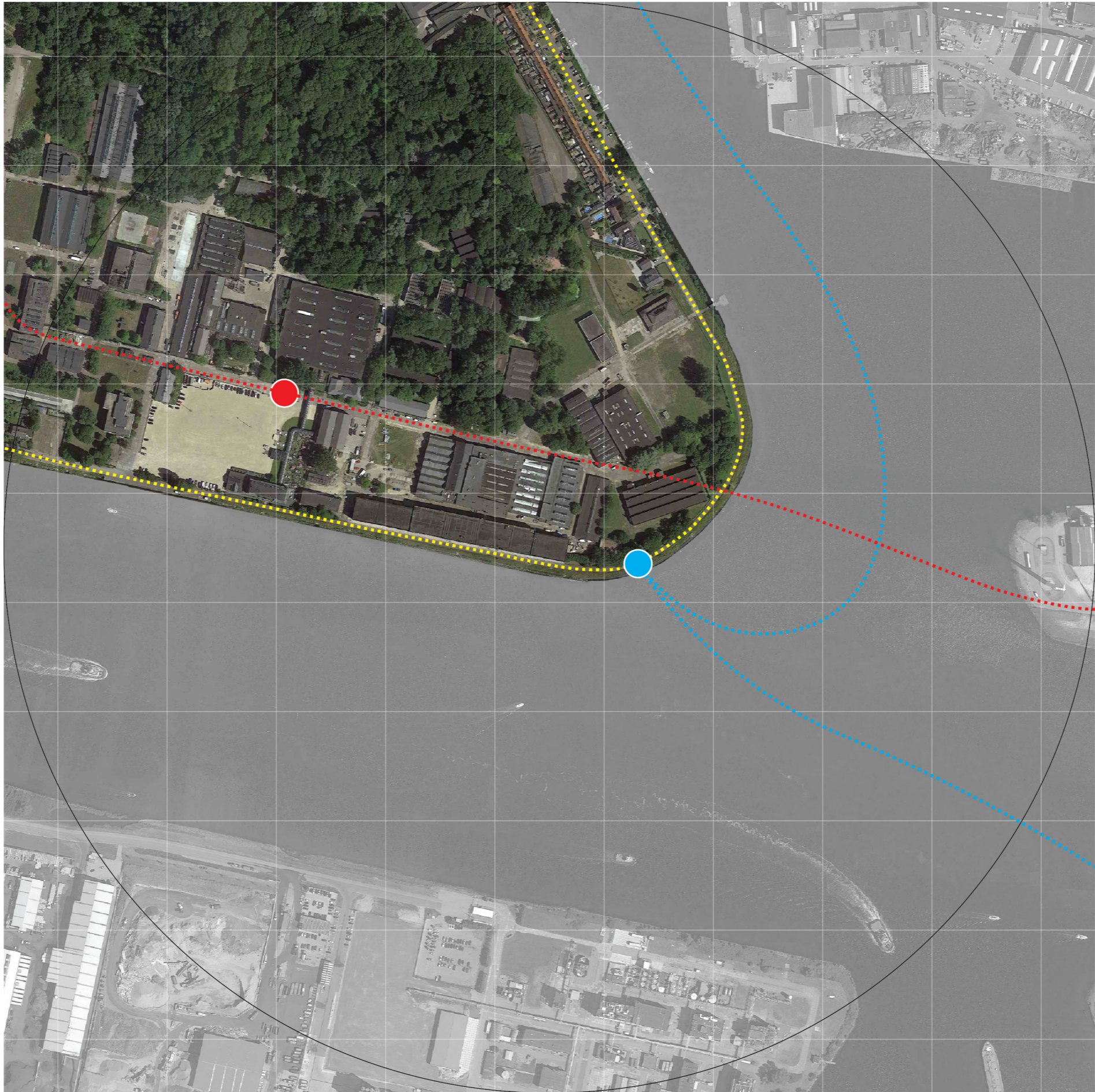
the metropolis

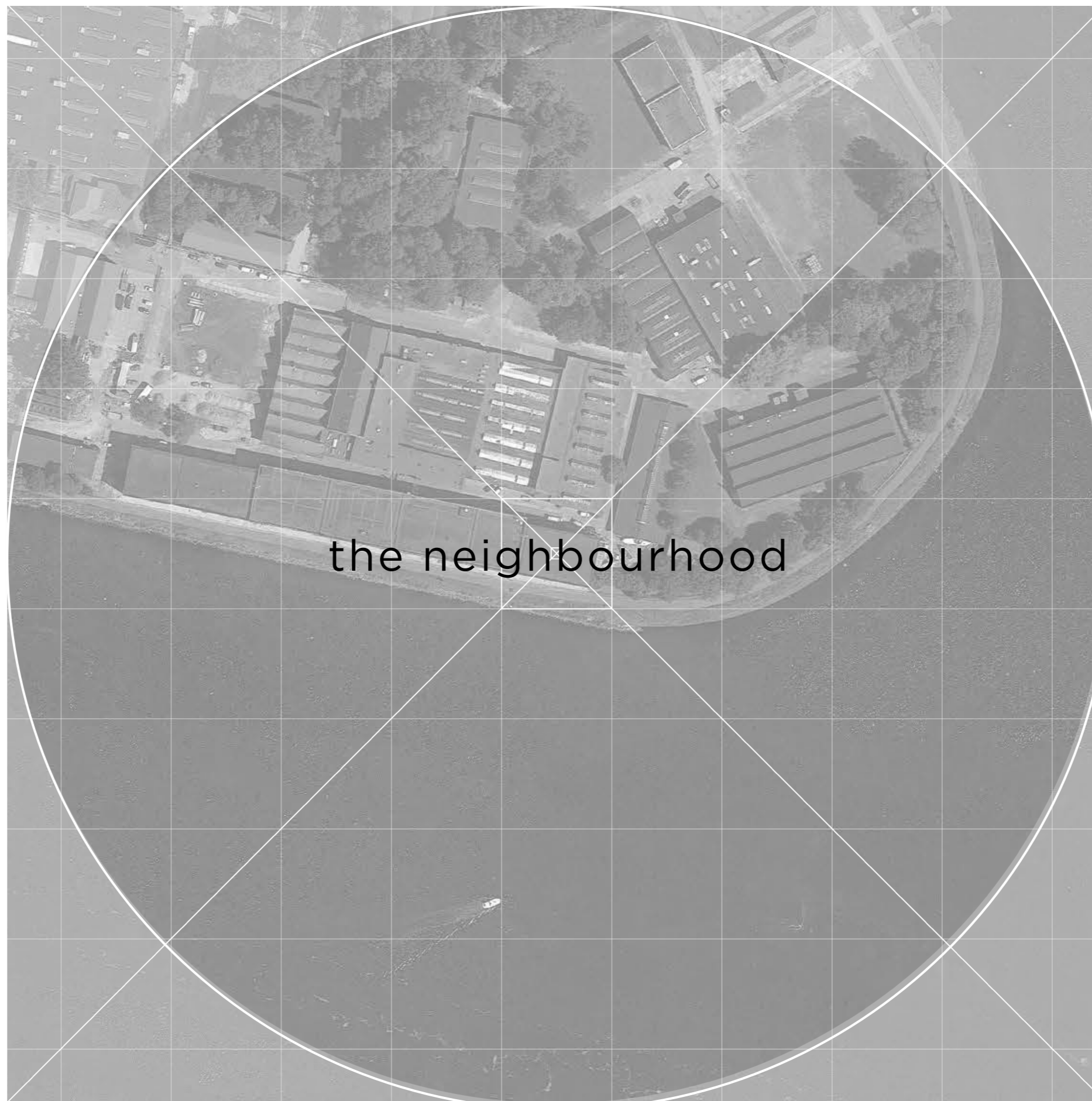




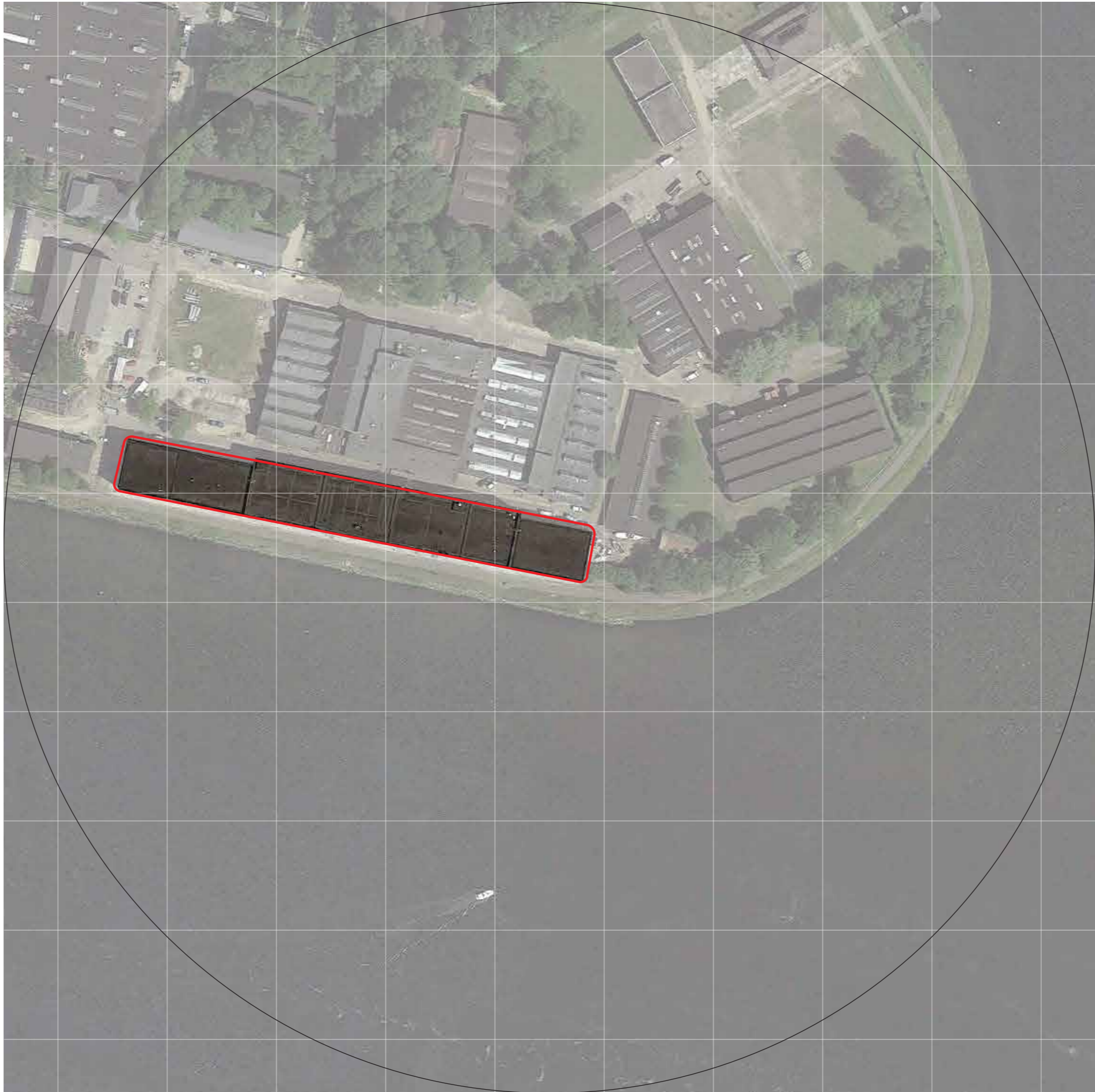


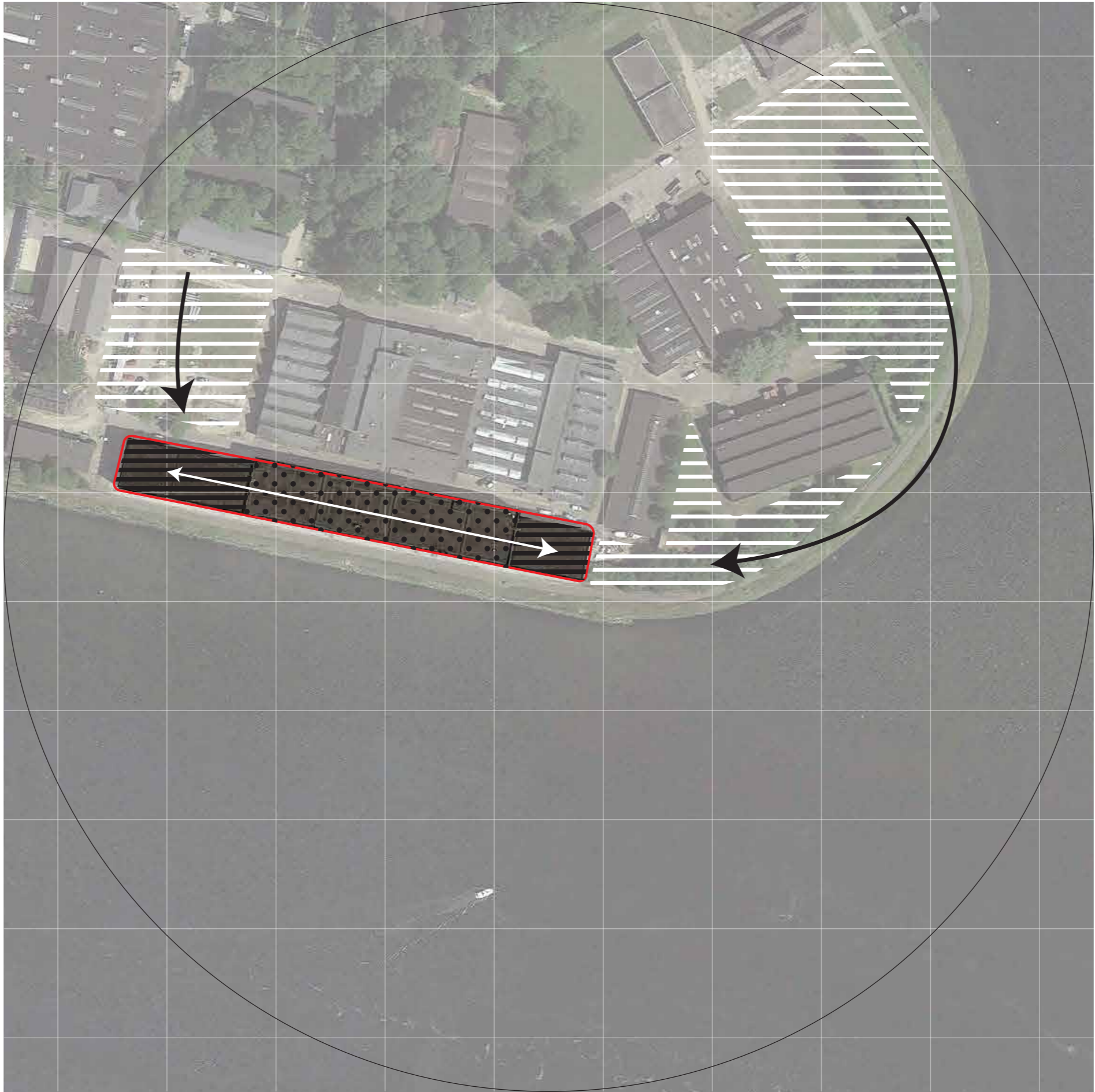
the district

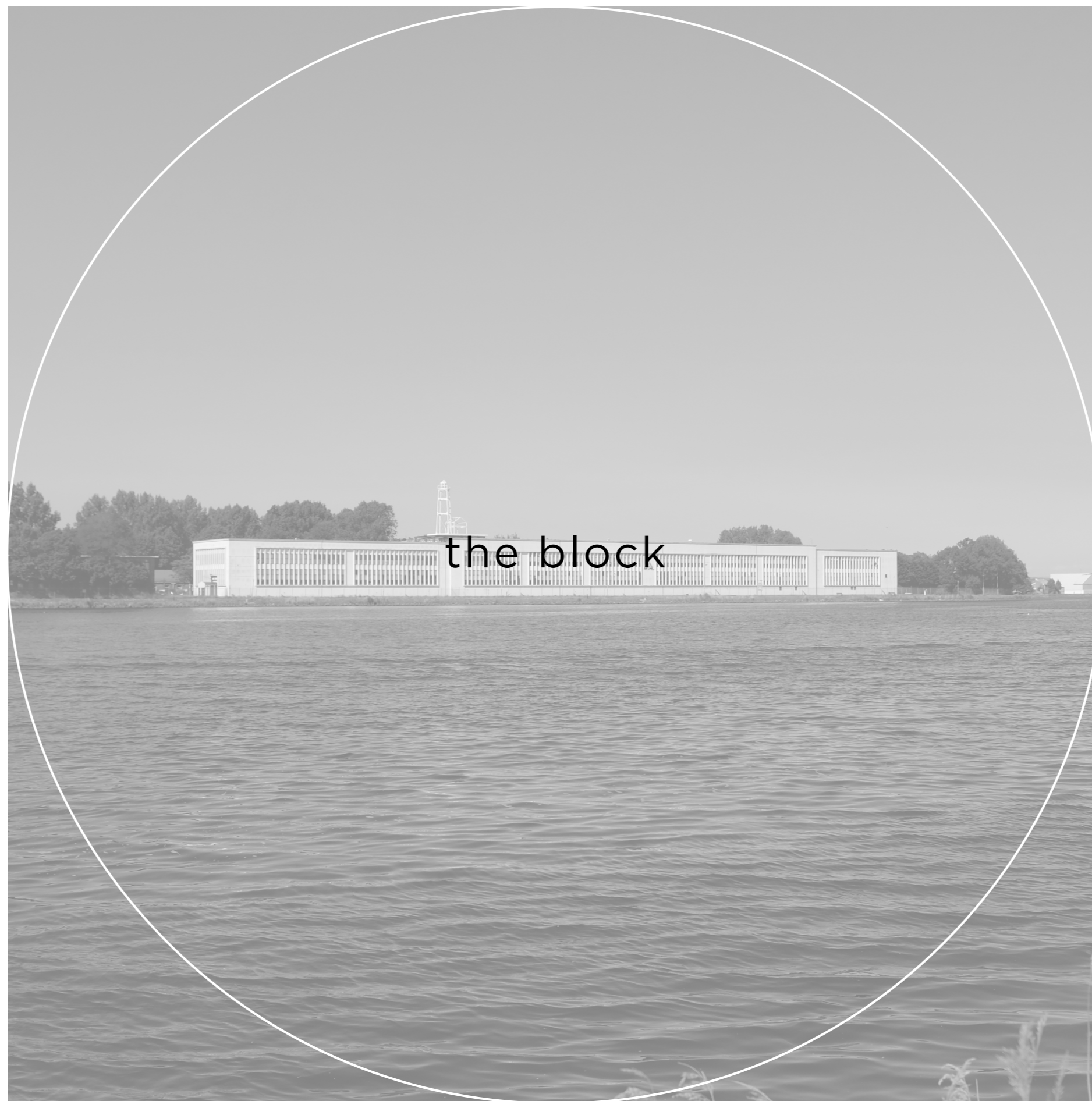




the neighbourhood





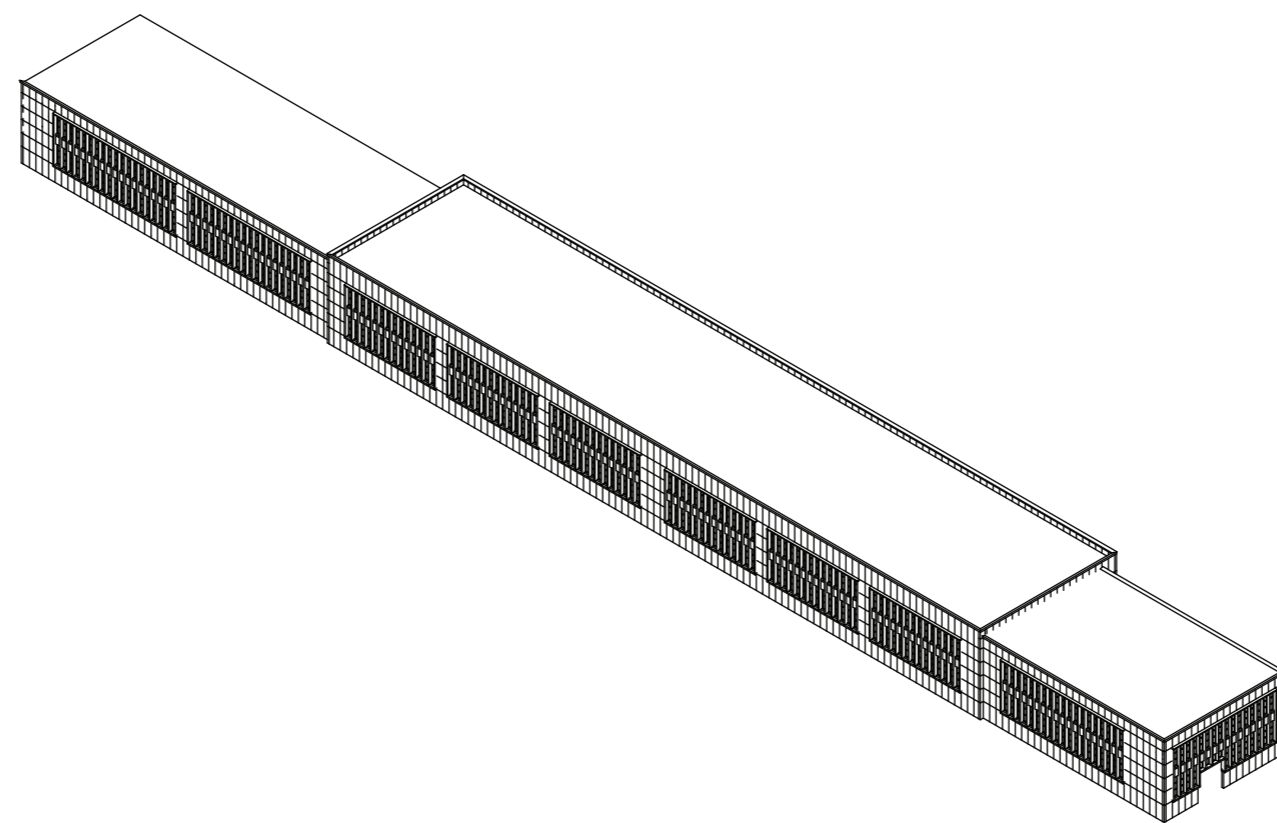


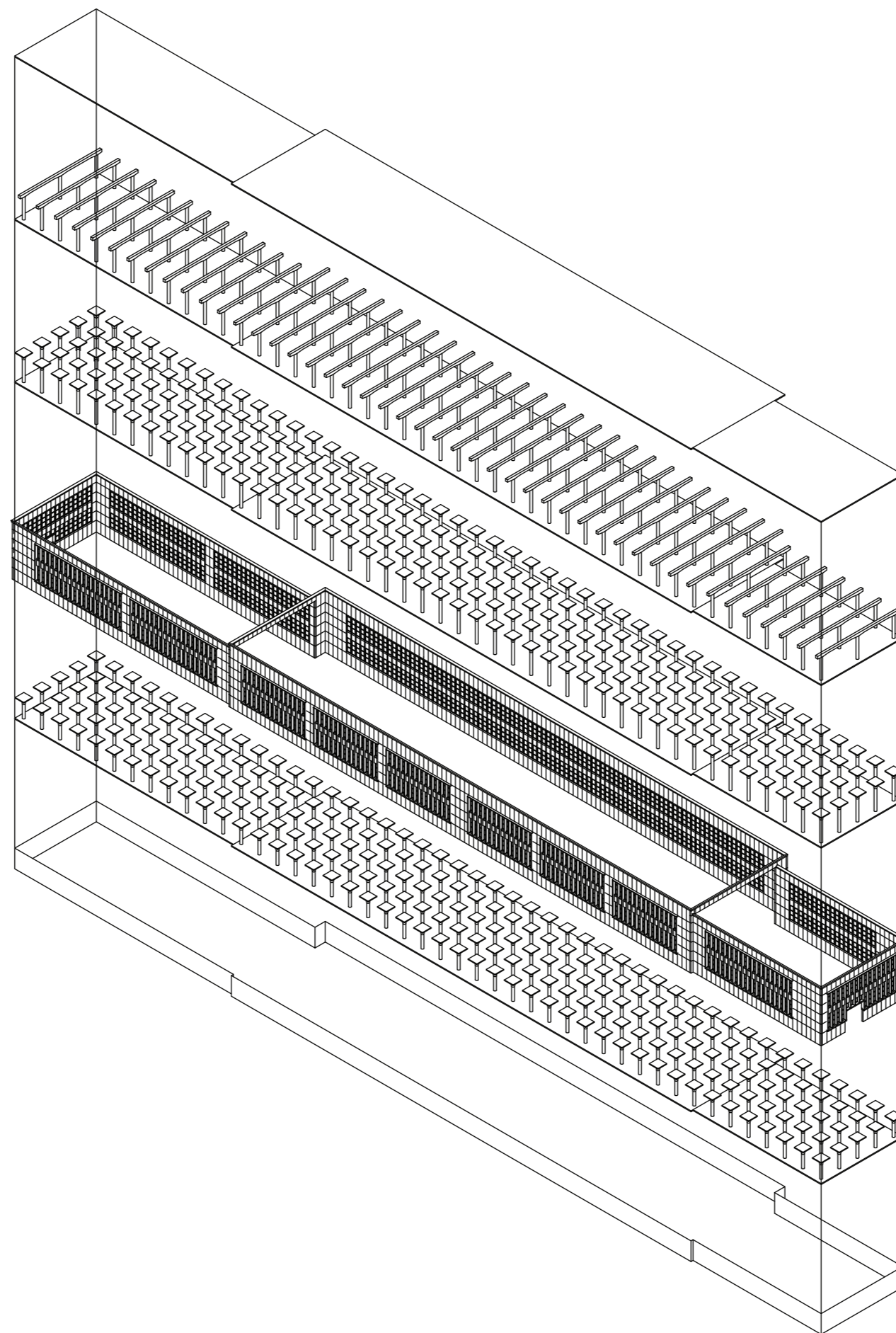
the block

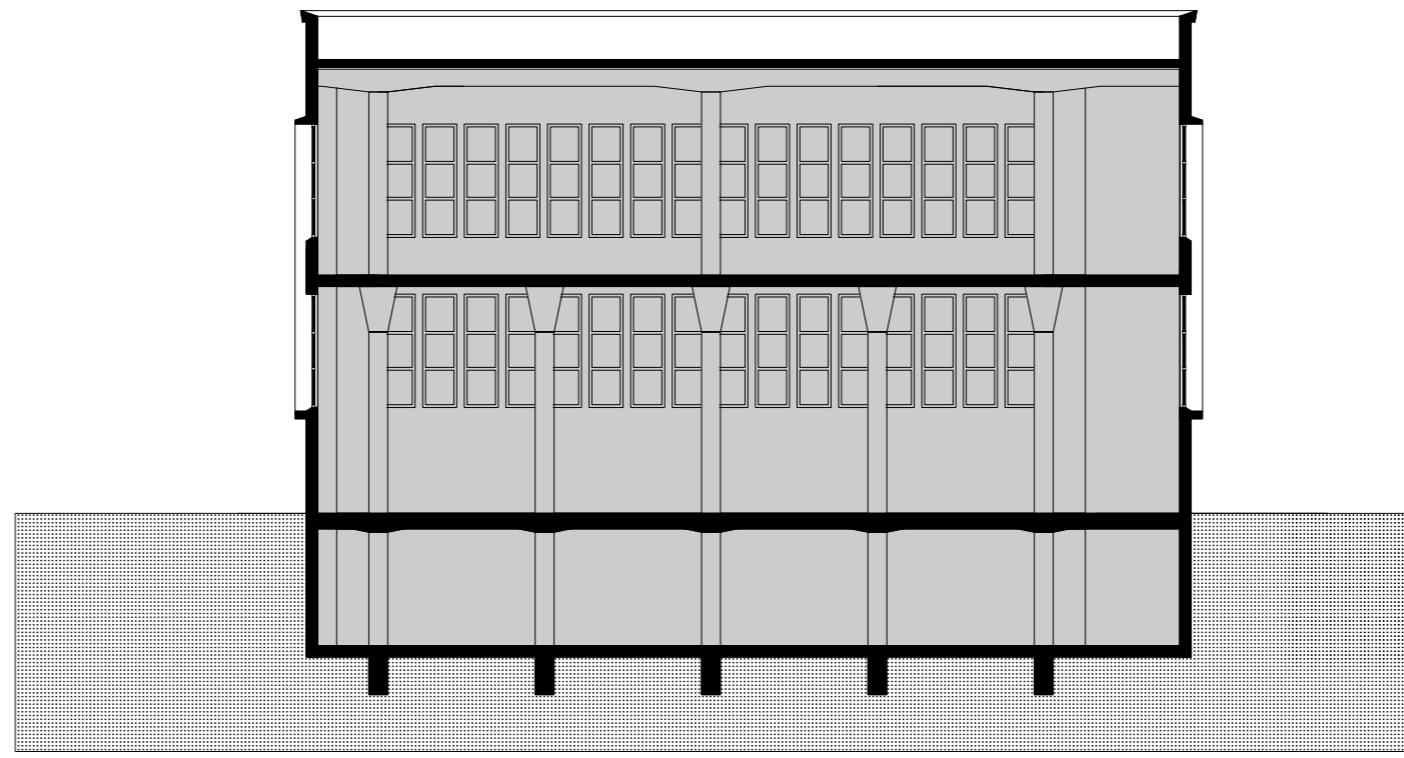


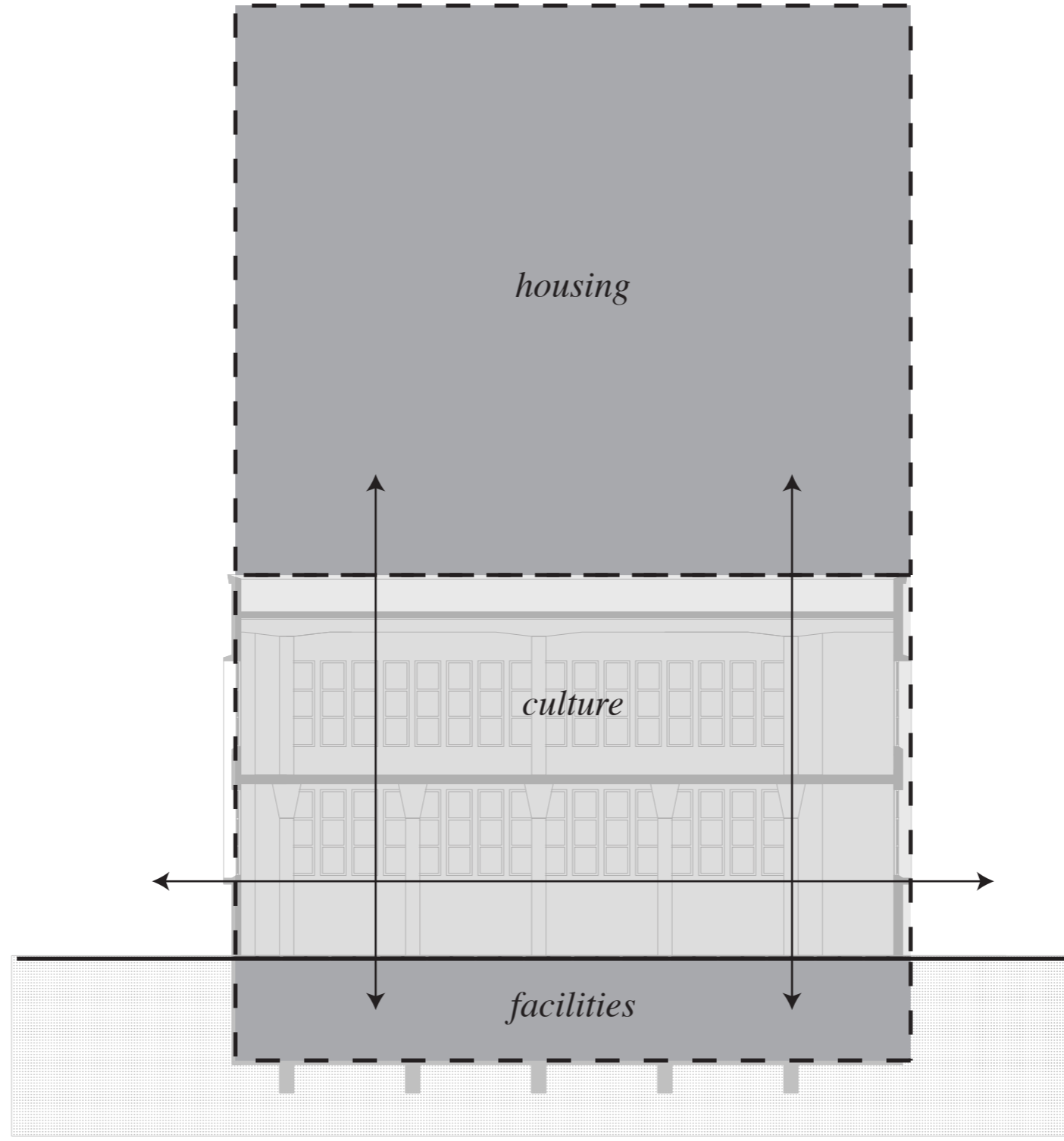


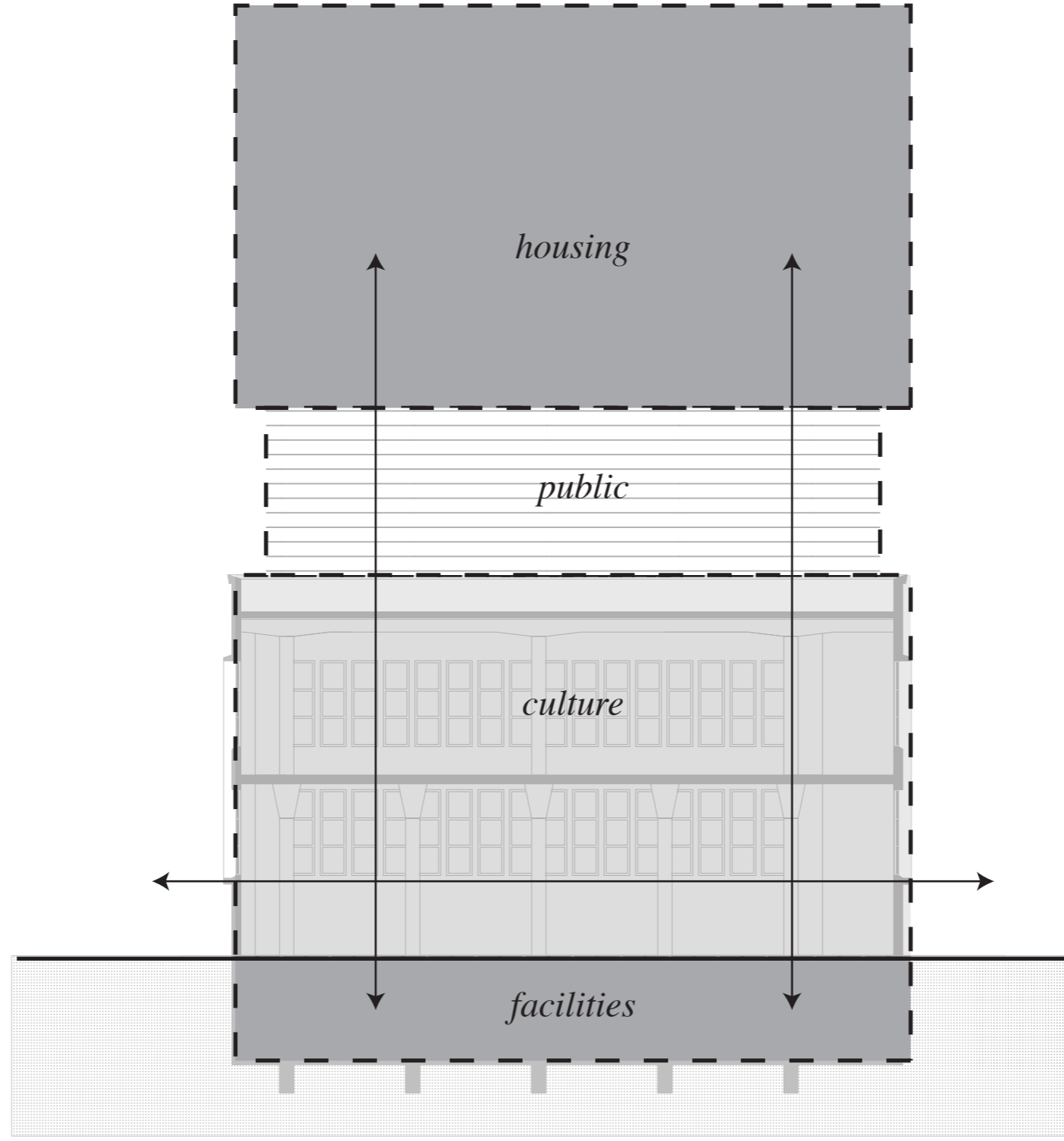


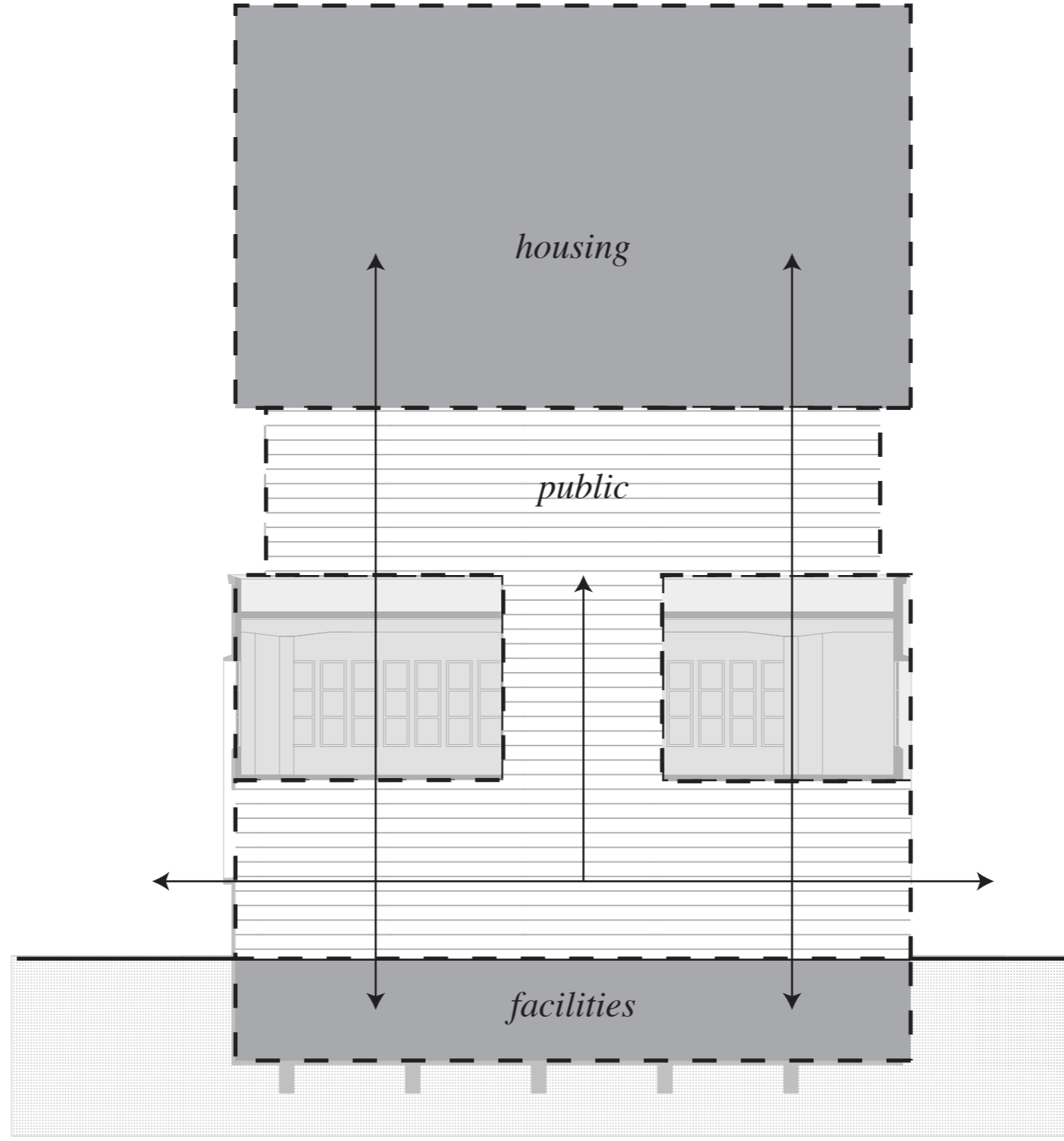






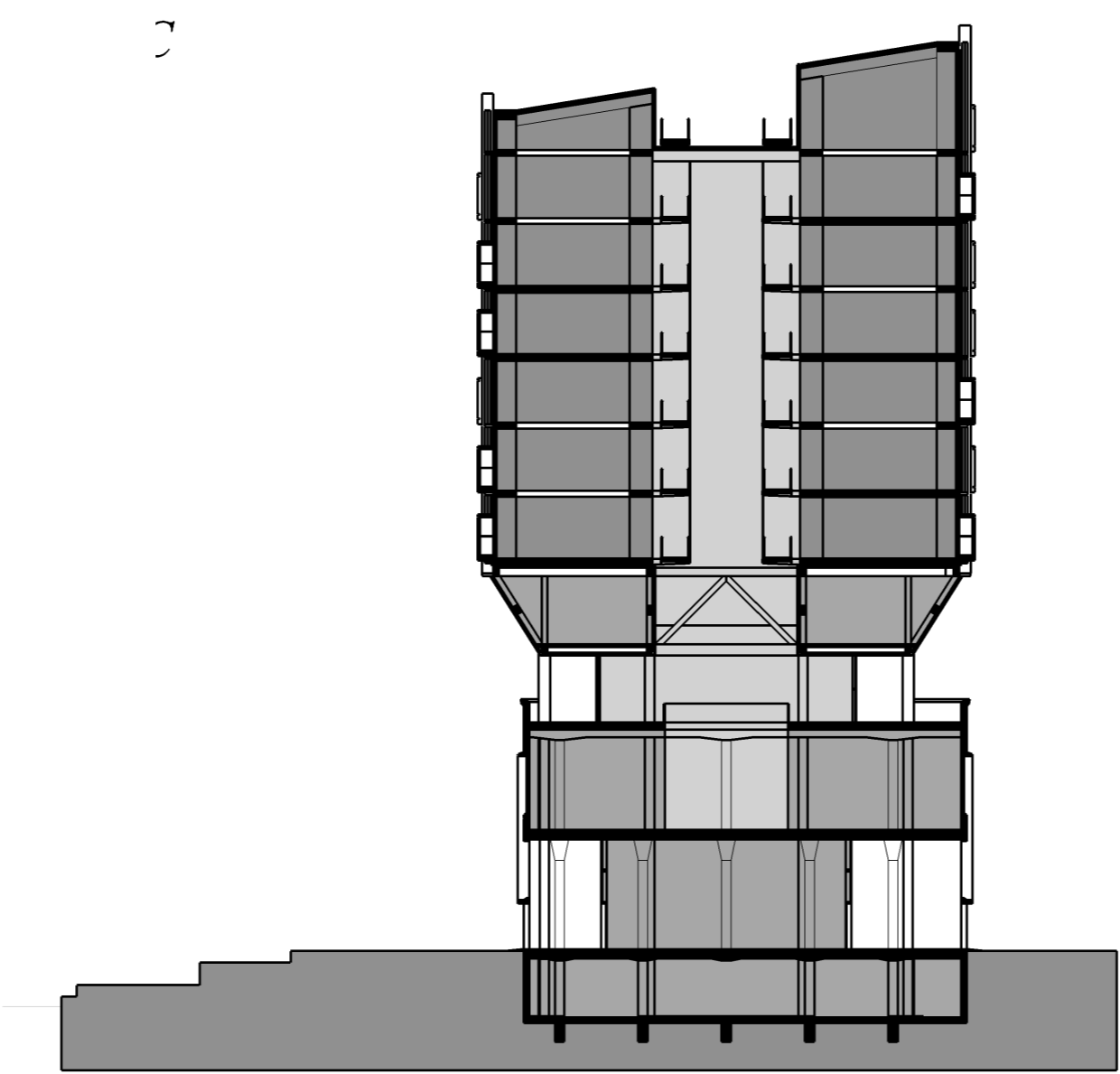




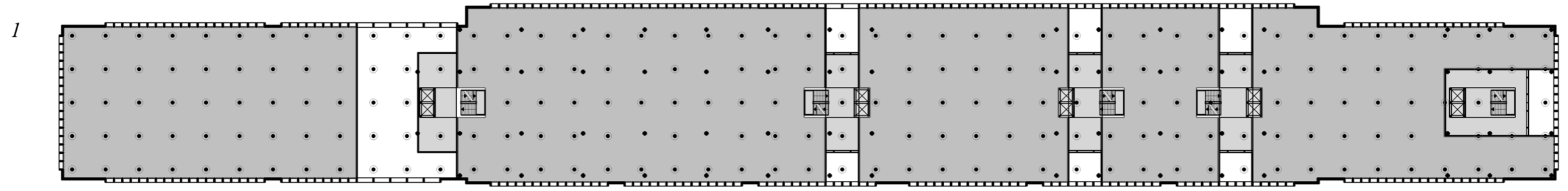




the support city



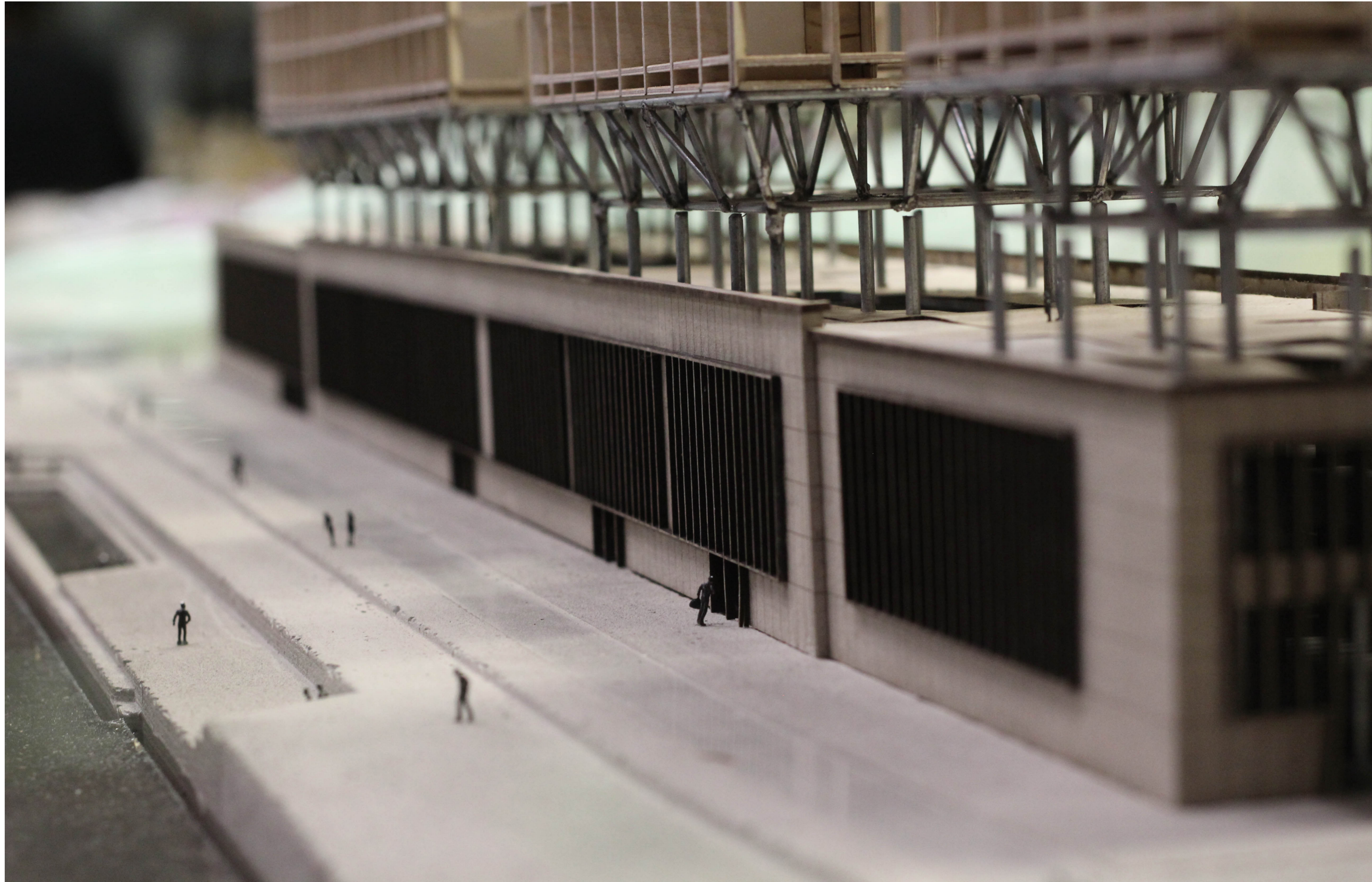
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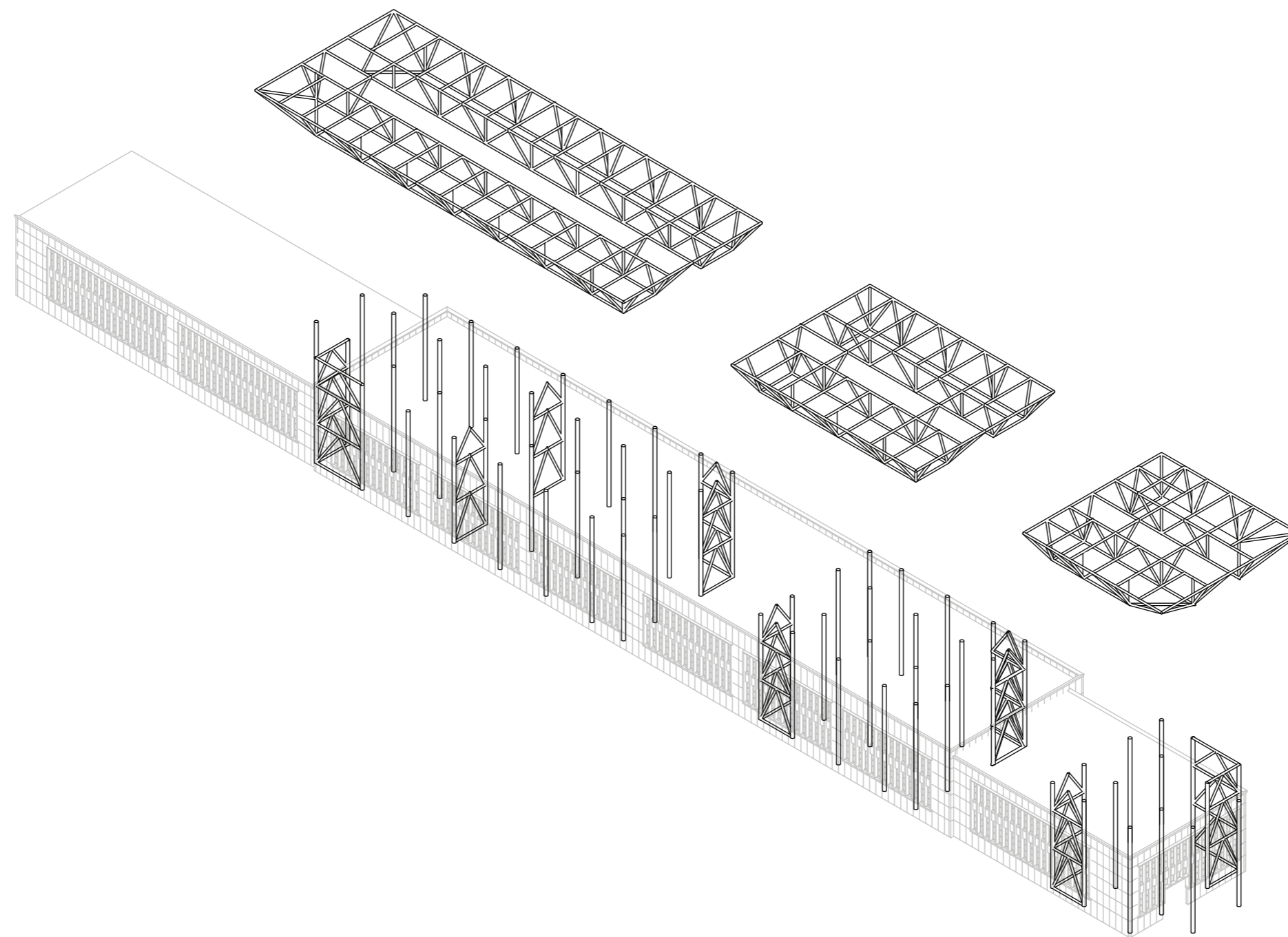
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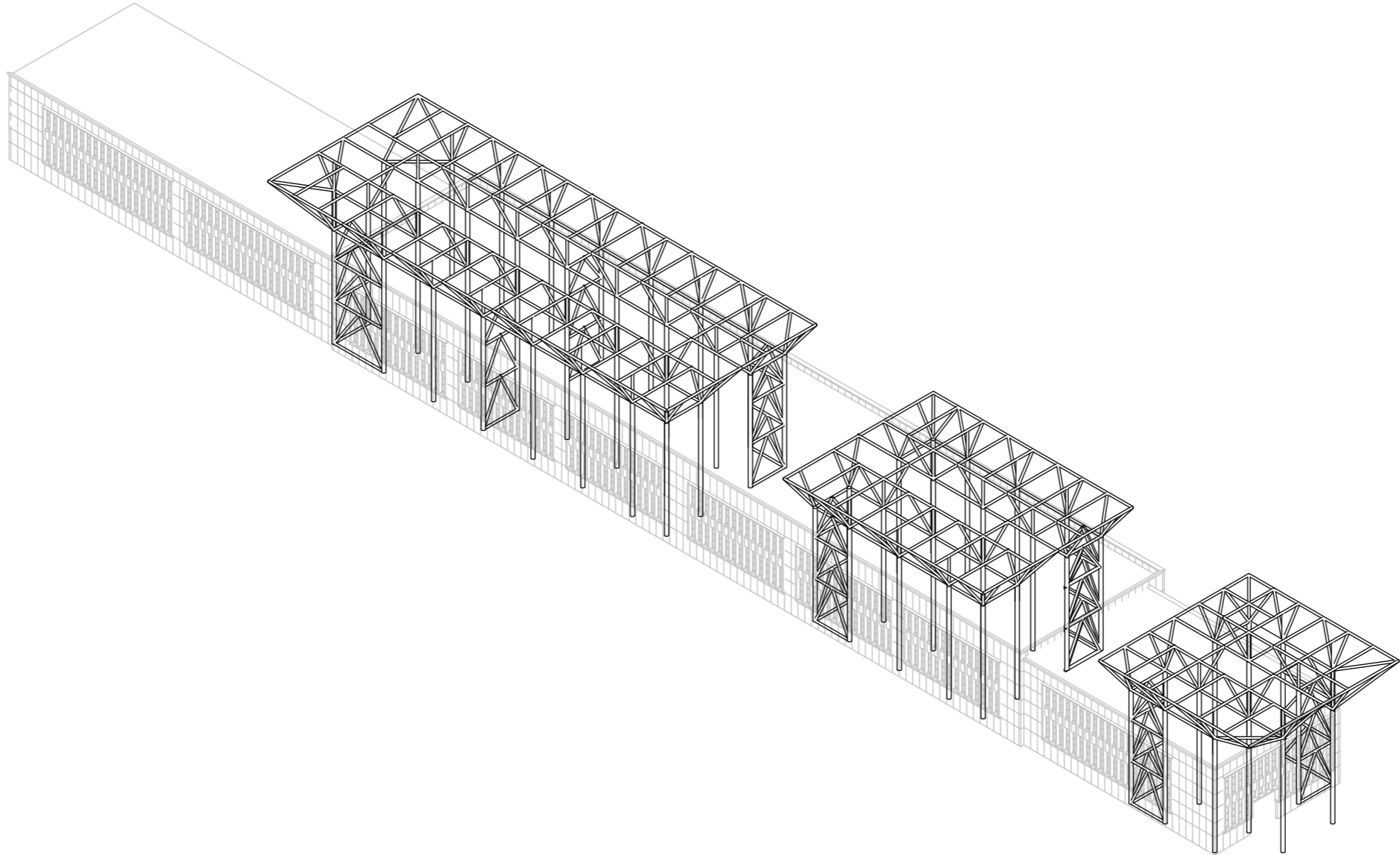
Second Floor

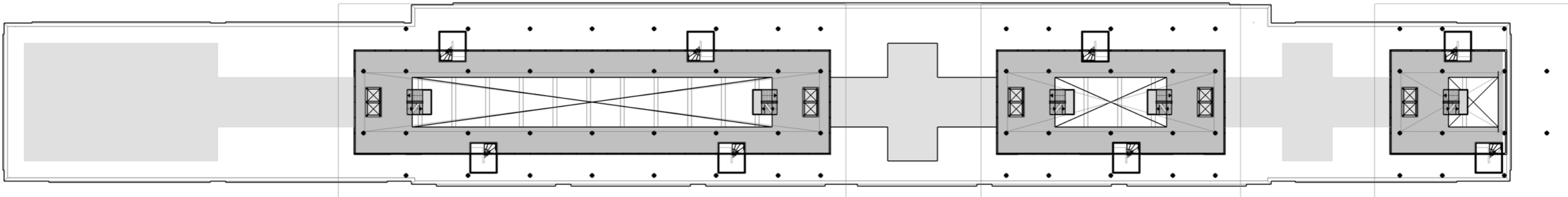


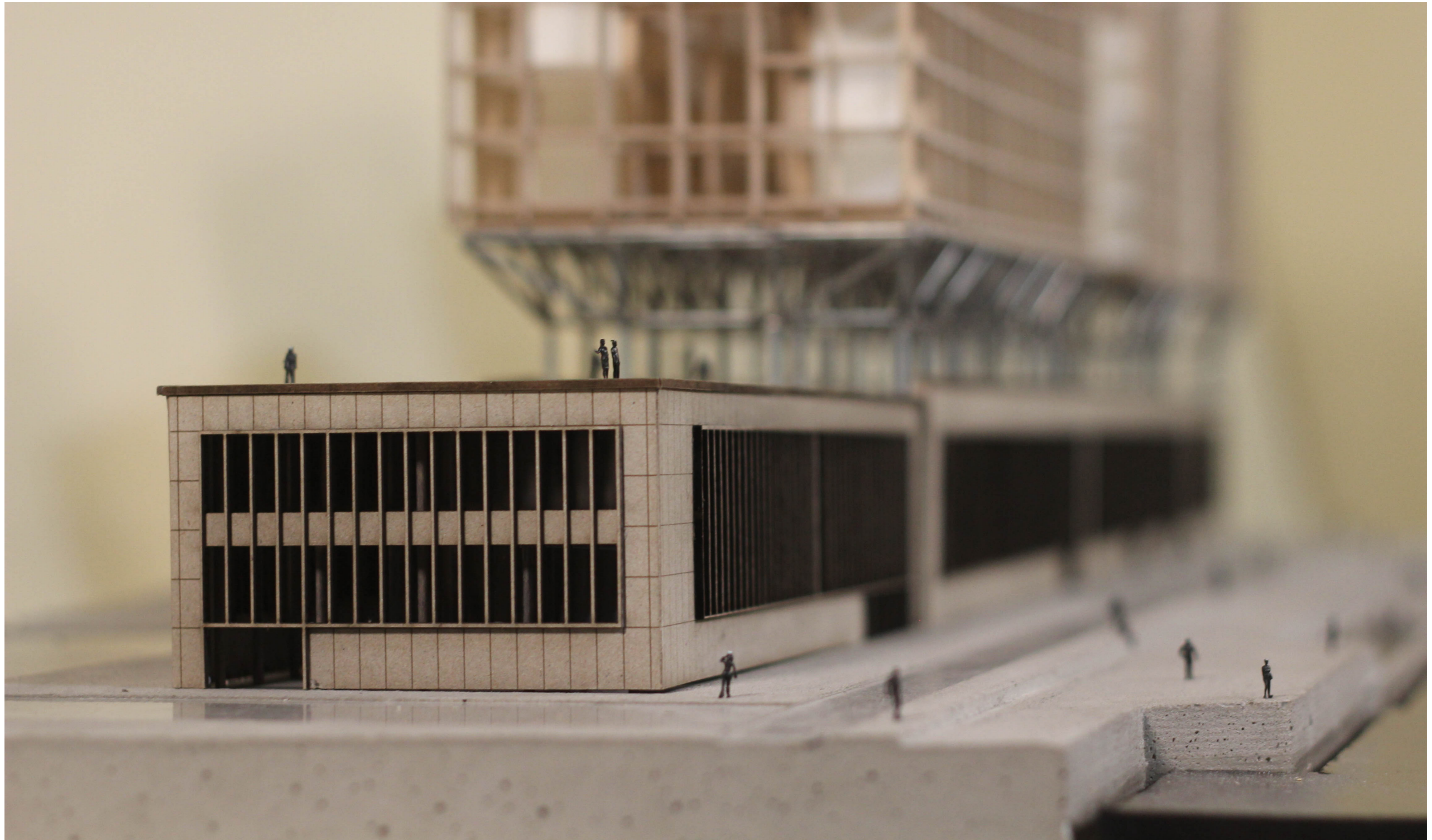


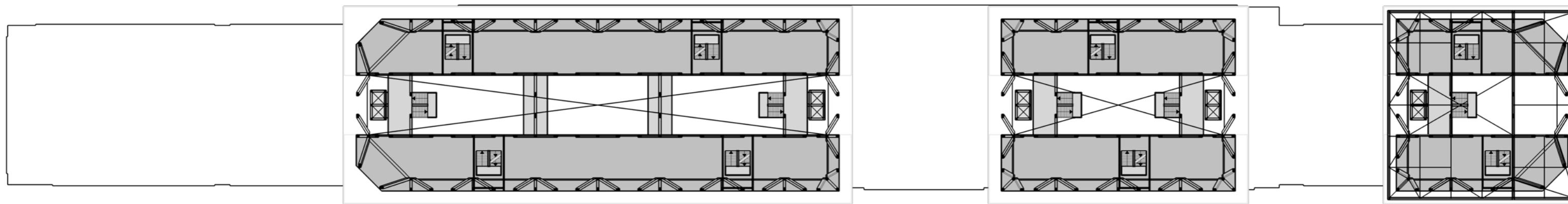








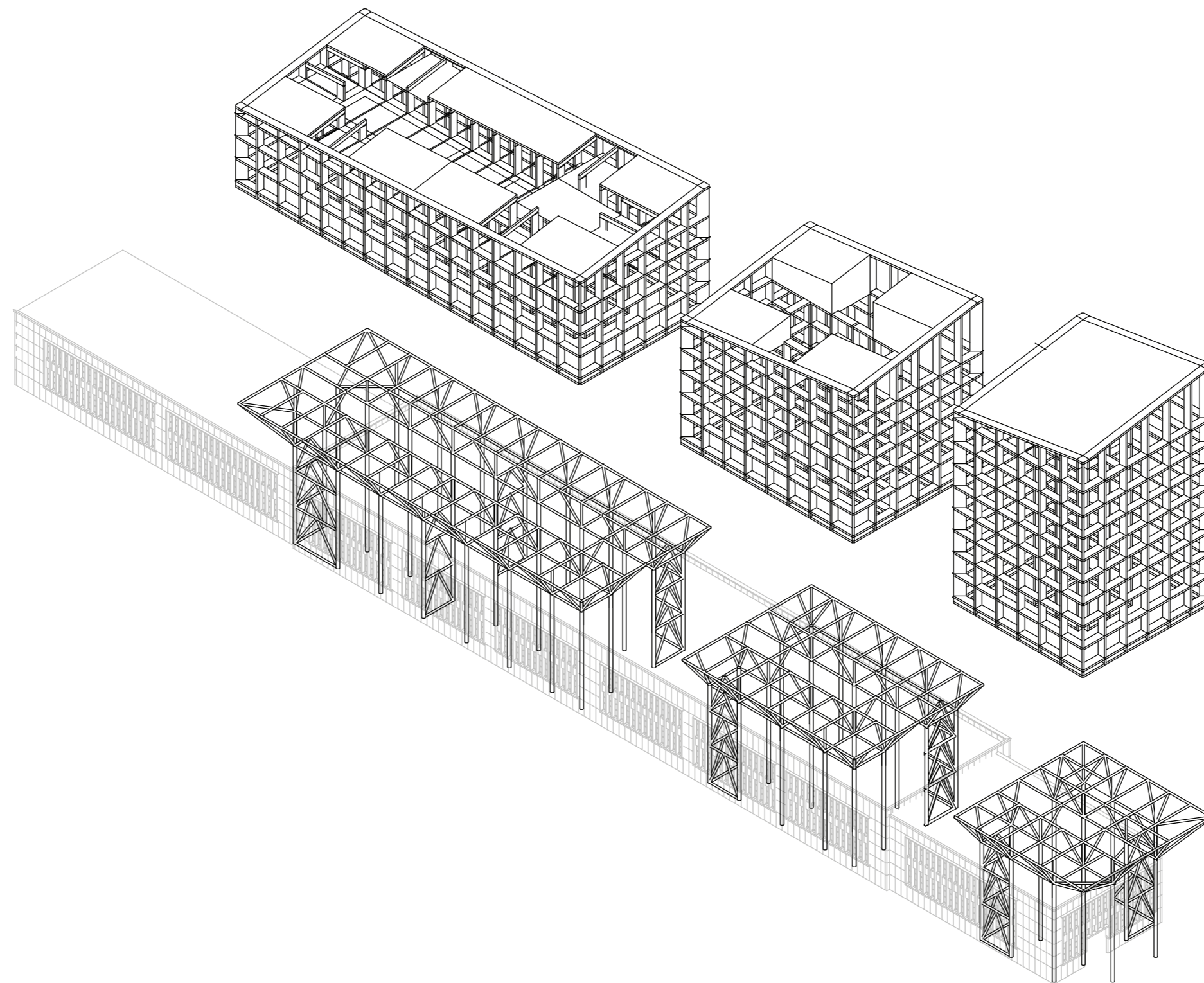


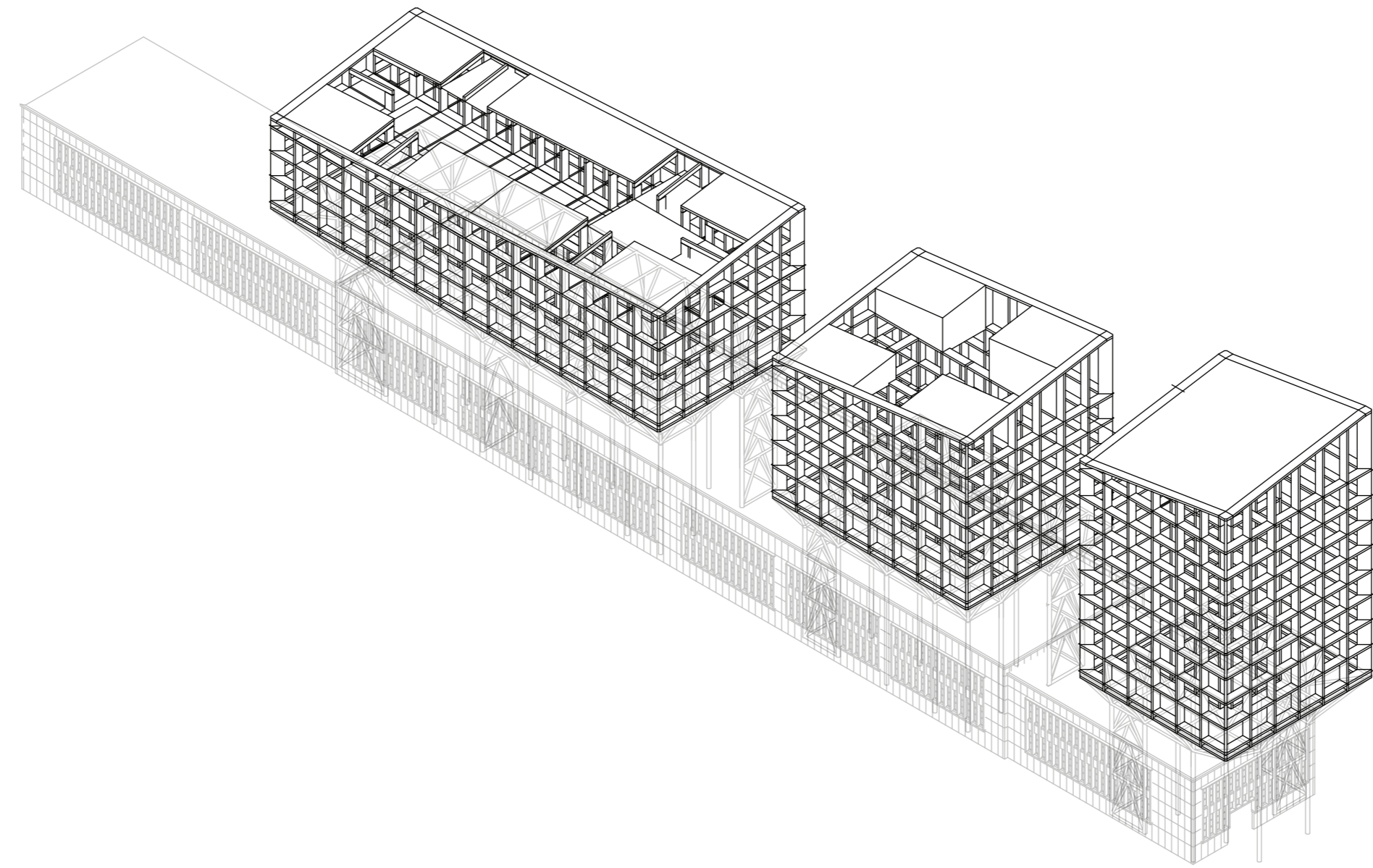


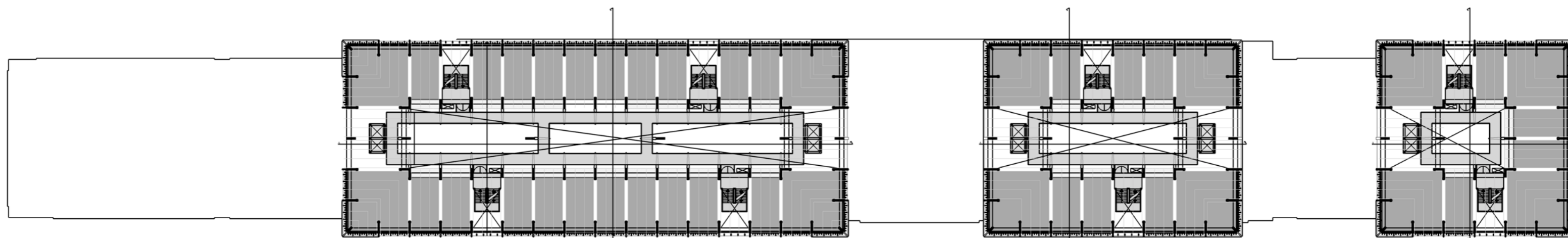






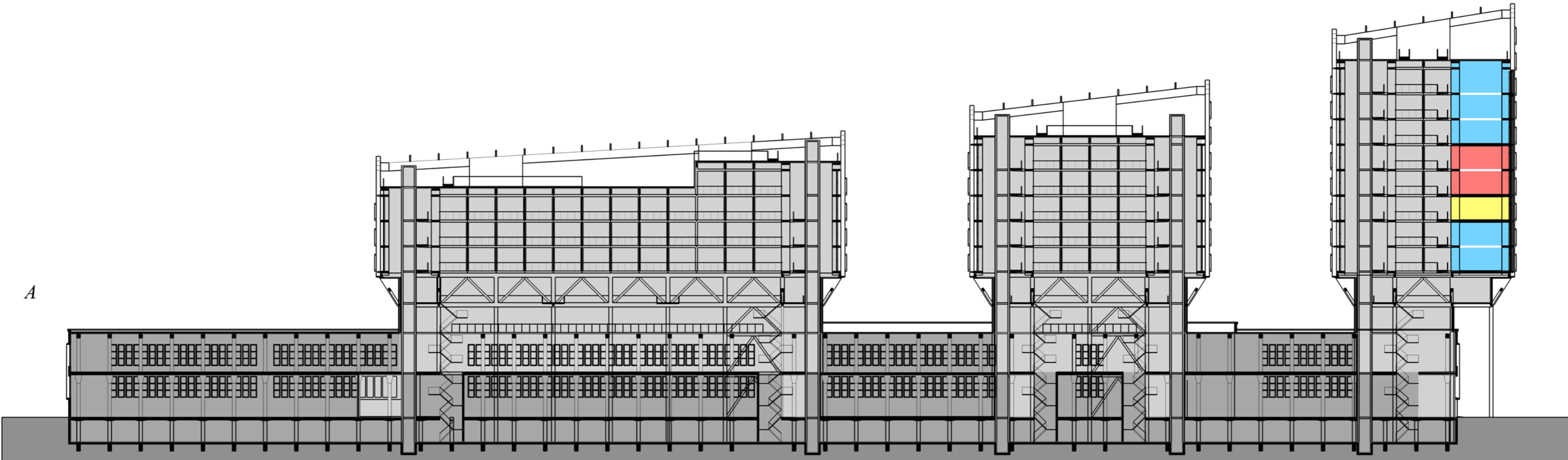




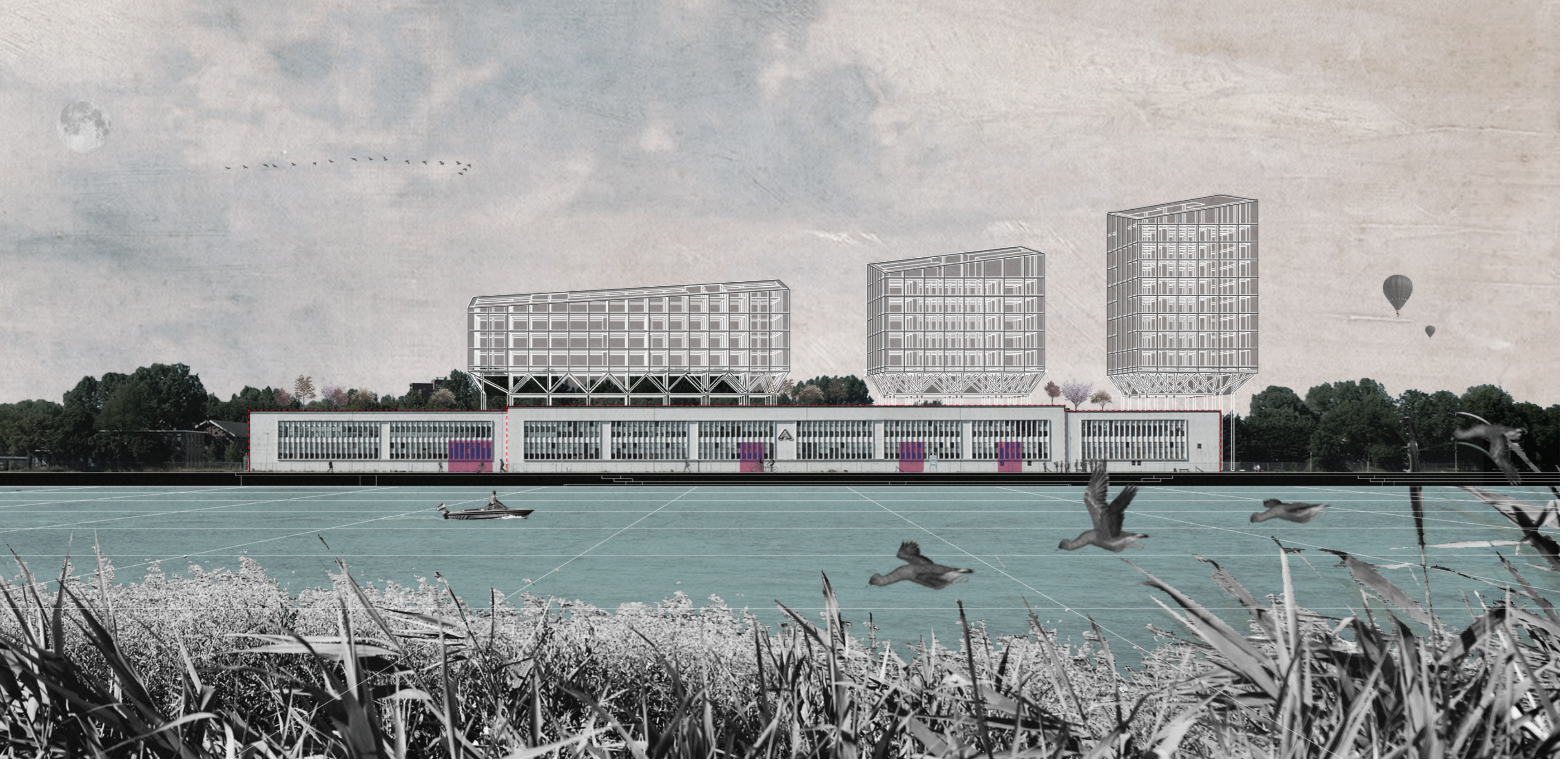








A



| the mass customisation of urban housing

