



Tectonic Inflections: Additions Logic

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TECTONIC INFLECTIONS: ADDITIONS LOGIC

A Thesis Submitted to the Department of Architecture Harvard University Graduate School of Design, by

SON VU

In Partial Fulfillment of the Requirements for the Degree of [Masterof Architecture]

MAY 2021

(Month and Year Thesis Submitted)

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(signature)

[Son Vu]

(signature)

Sean Canty
[Sean Canty]

tectonic inflections: additions logic

"The multiple narratives that are woven into this single surface describe the kind of phenomena that I like to call *architectural confluence*: the form is not determined by a single alibi, nor a linear form of reasoning, evading simplistic determinisms, whether structural, functional or semantic. Instead, the technique involves something deeply rooted in the architectural discipline: beyond the obligation to solve problems, the elaboration of a tectonic language, the integration of multiple contingencies, and the invariable synthesis of heterogeneous parts...

-Nader Tehrani

... What is extraordinary is that Dieste's functional fragments cannot be seen: the beam, the drainage and the skylight are all absorbed into one formal, spatial and material system suppressing their contradictory functions towards a singular figure."

-Nader Tehrani

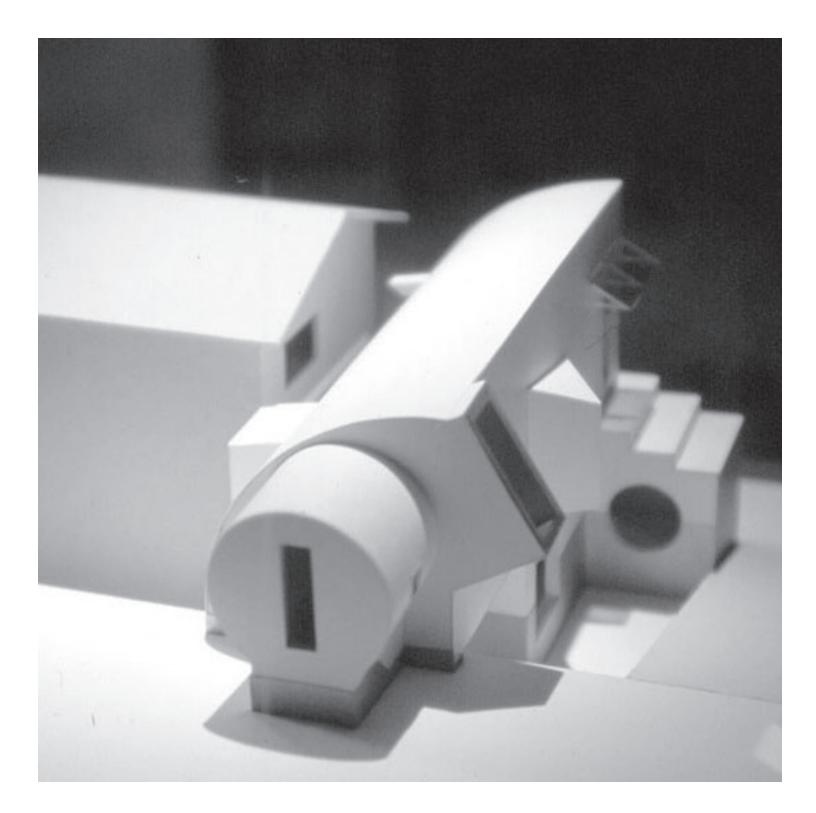




gimnasio y colegio don bosco

"THE HOUSE IS ART"

-Kazuo Shinohara





house in yokohama

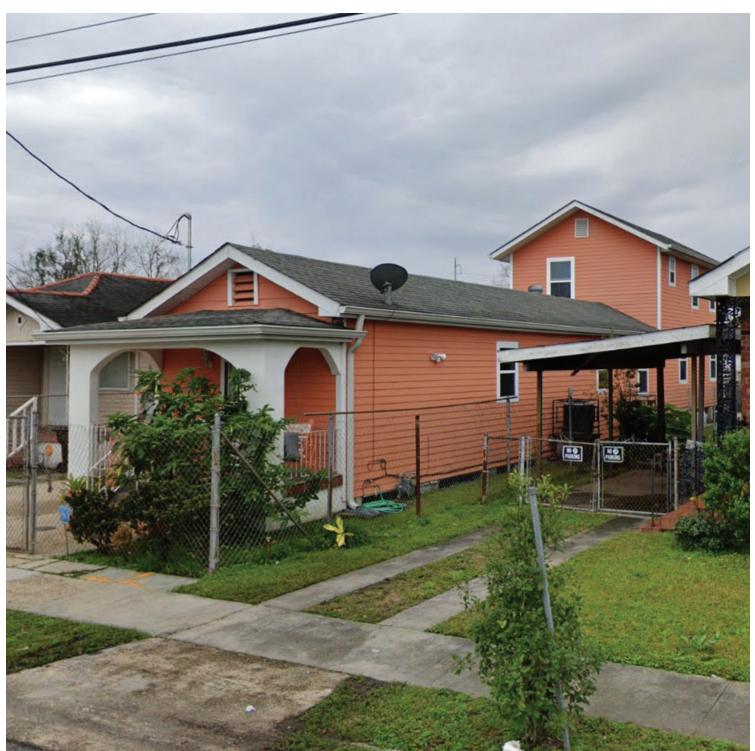
chapter 1 three logics:

shotgun type

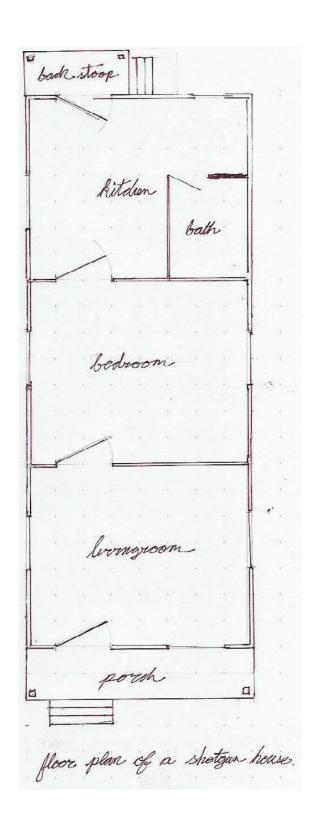
wood framing tectonic

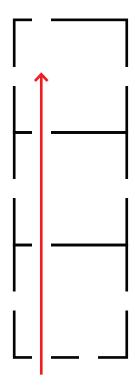
developable surface geometry

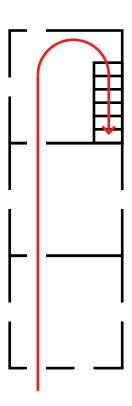




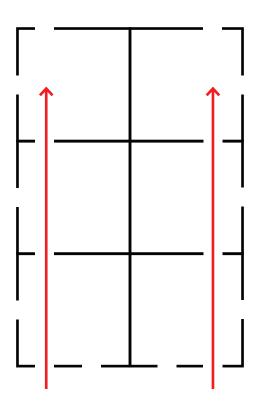
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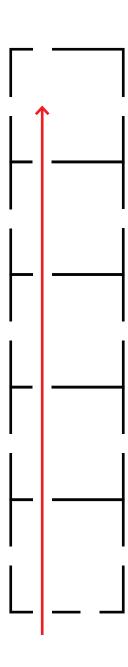




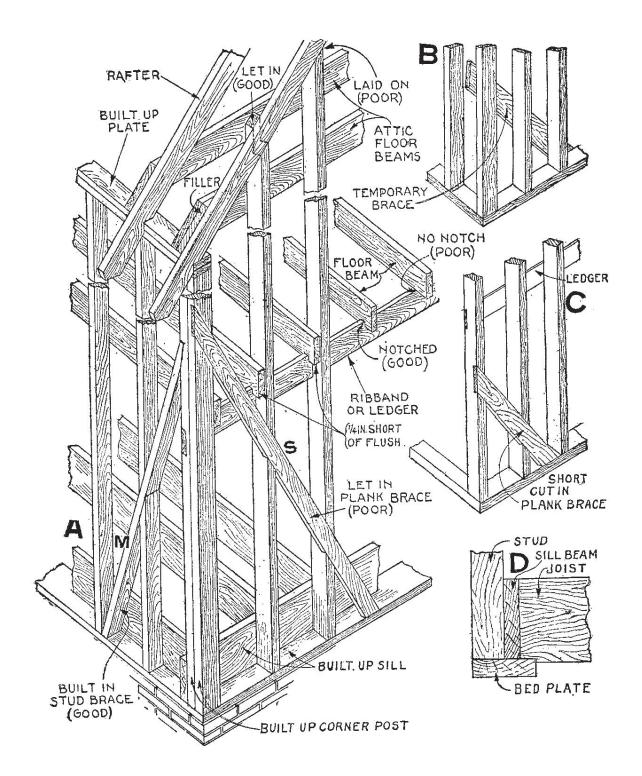
camelback shotgun



double barrel shotgun

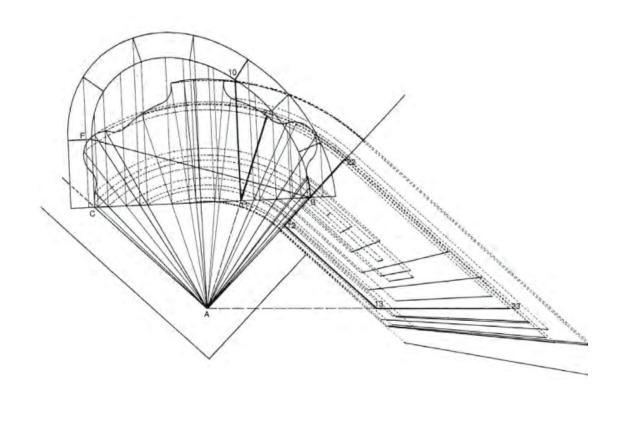


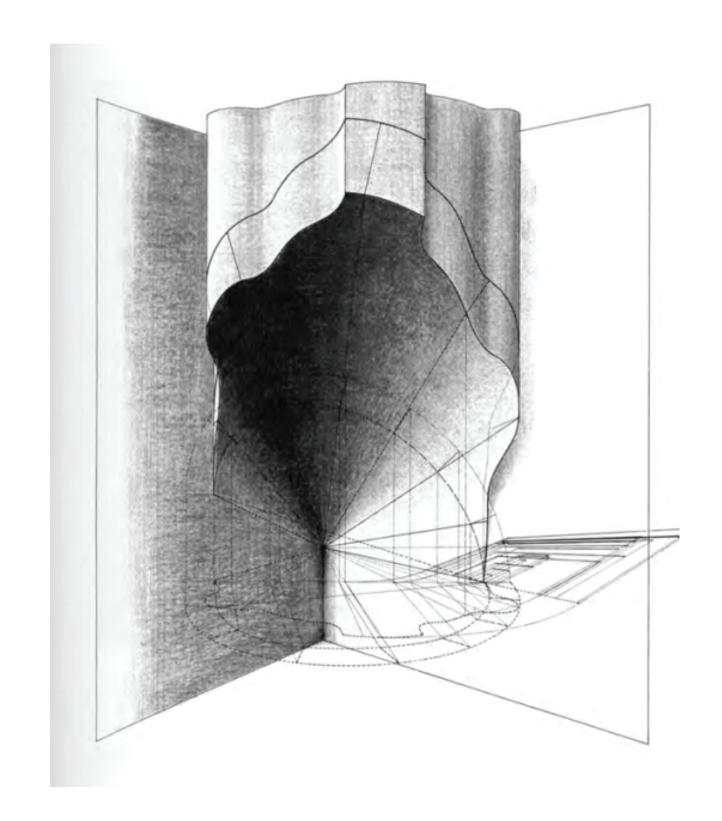
extended shotgun



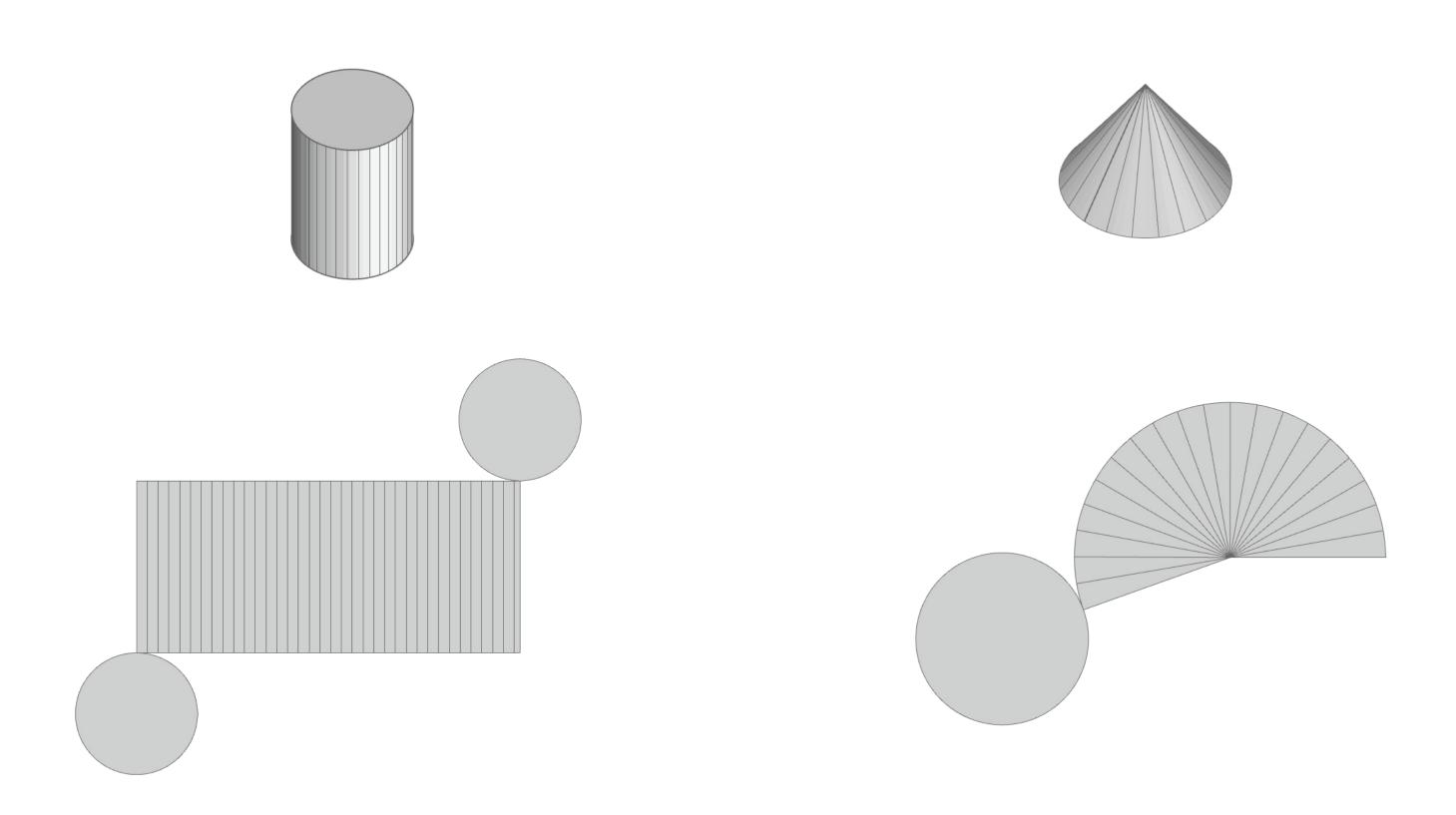




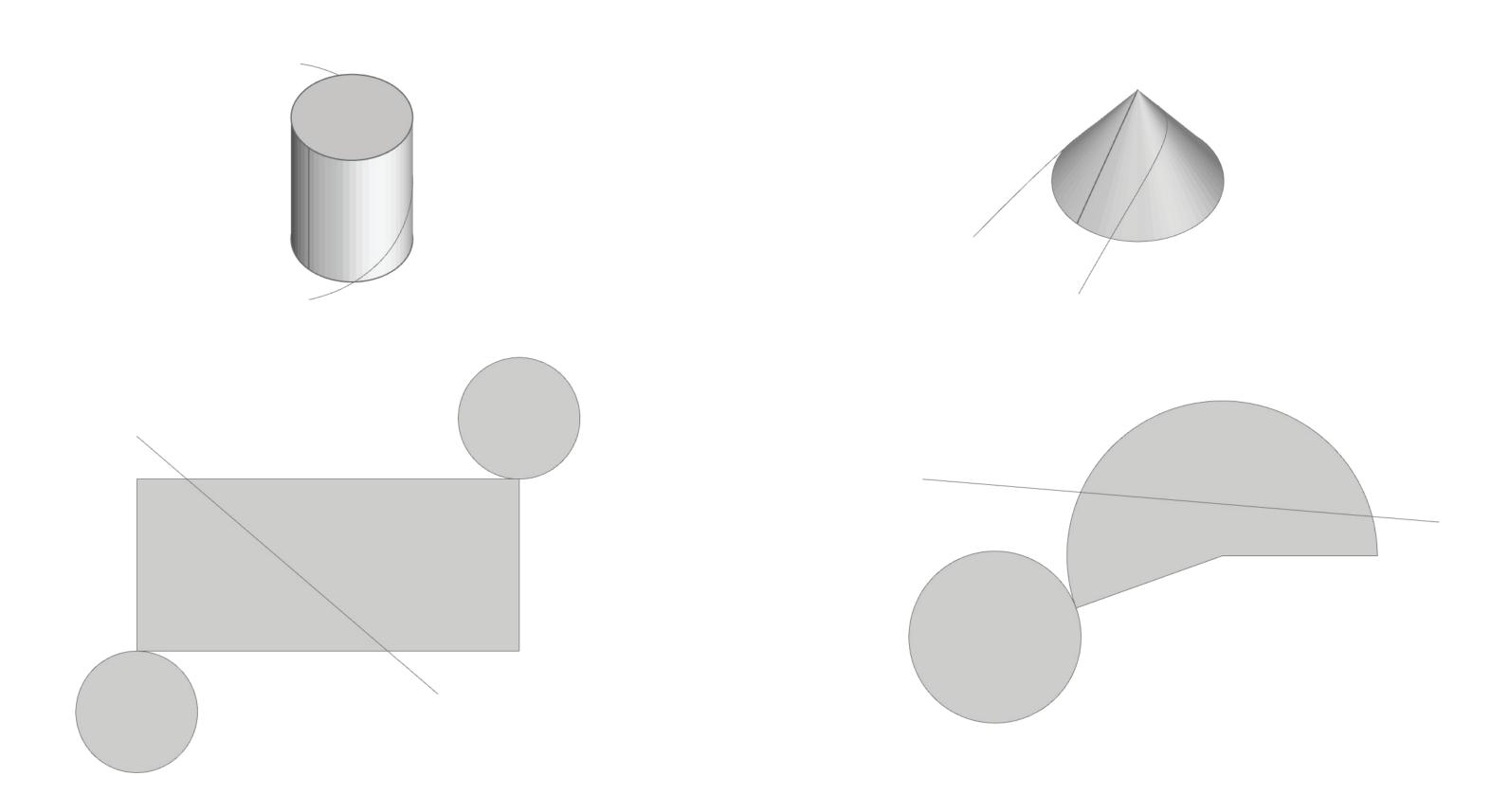




developable surface geometry



ruling logic

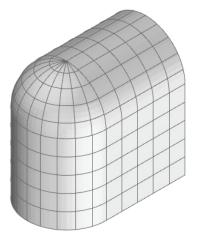


geodesic logic

chapter 2 studies:

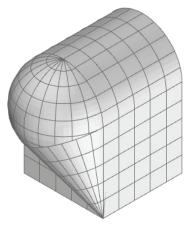
geometry

construction



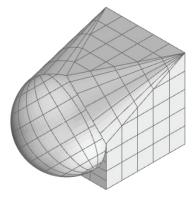


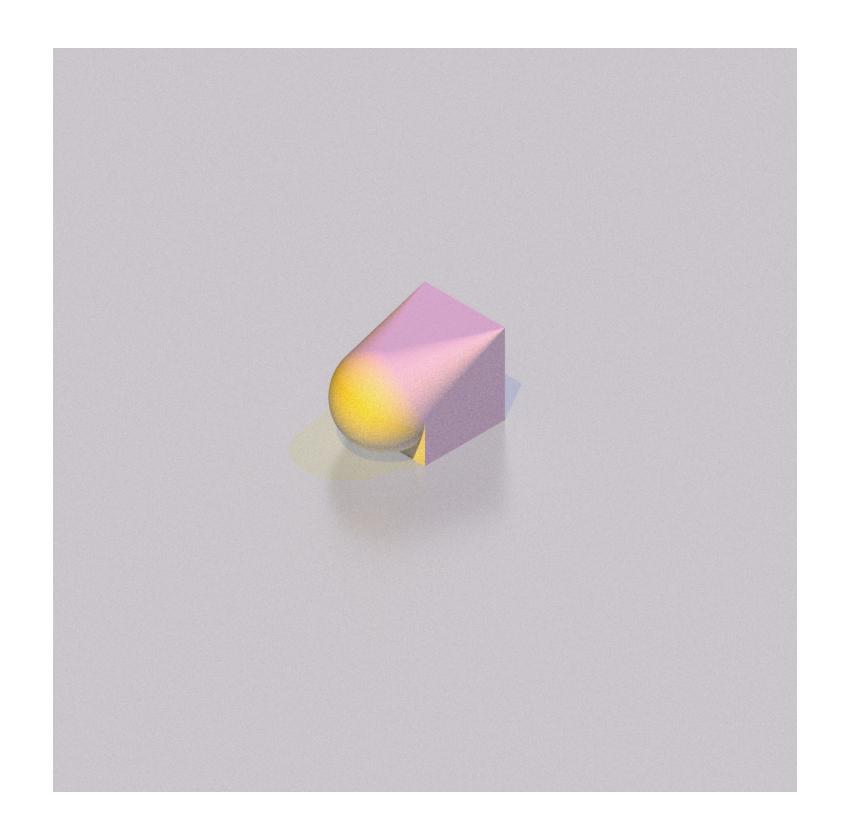
cube & sphere



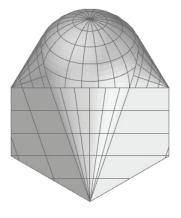


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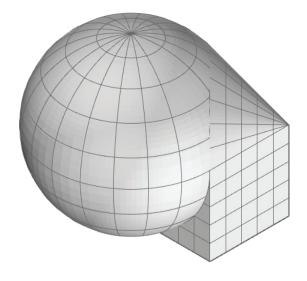


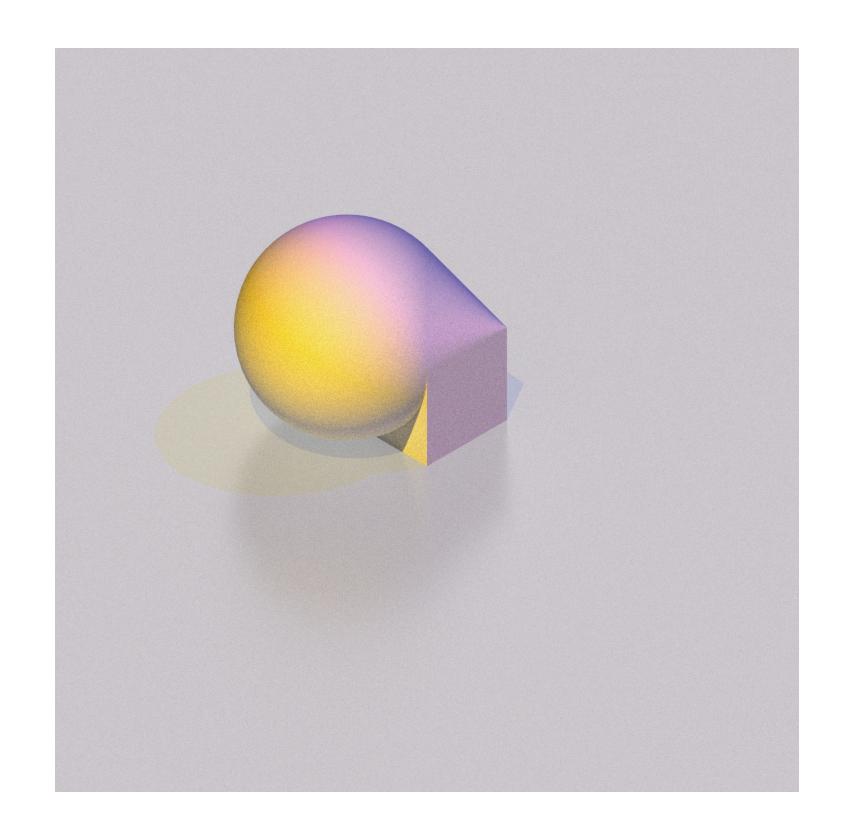
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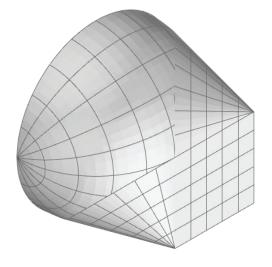


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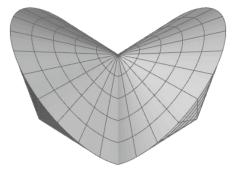


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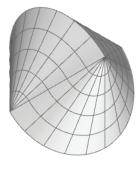


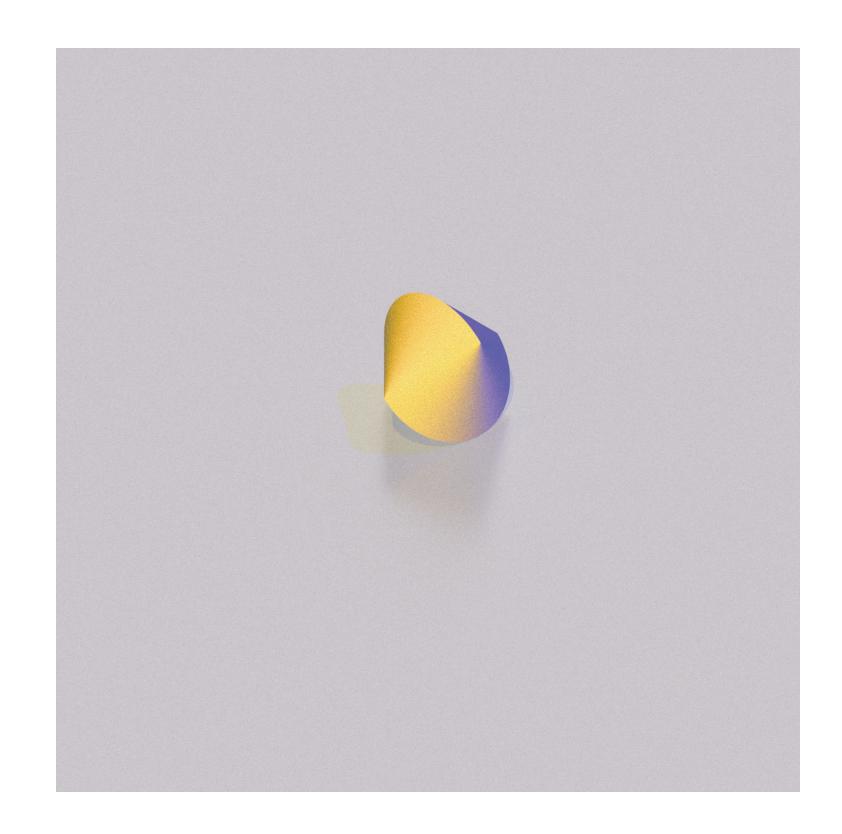
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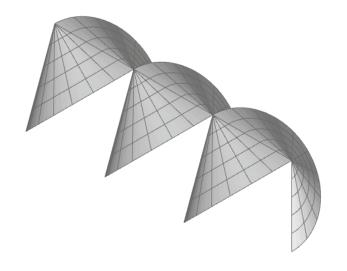


cone & cone



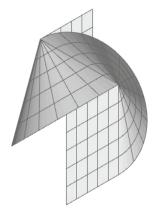


cone & cone



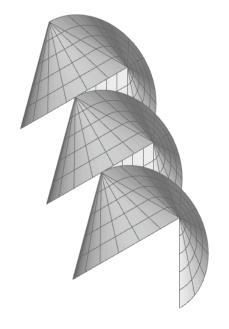


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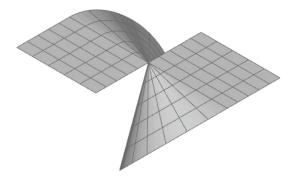


surface & cone



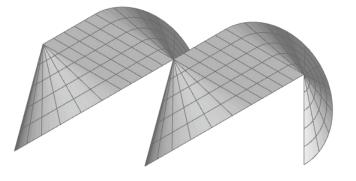


surface & cone



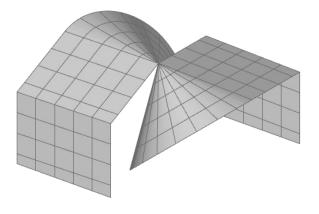


surface & cone



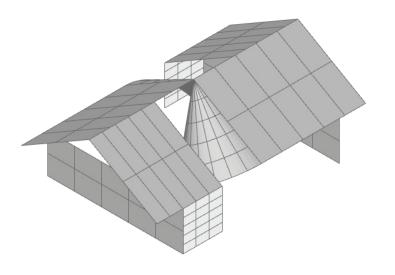


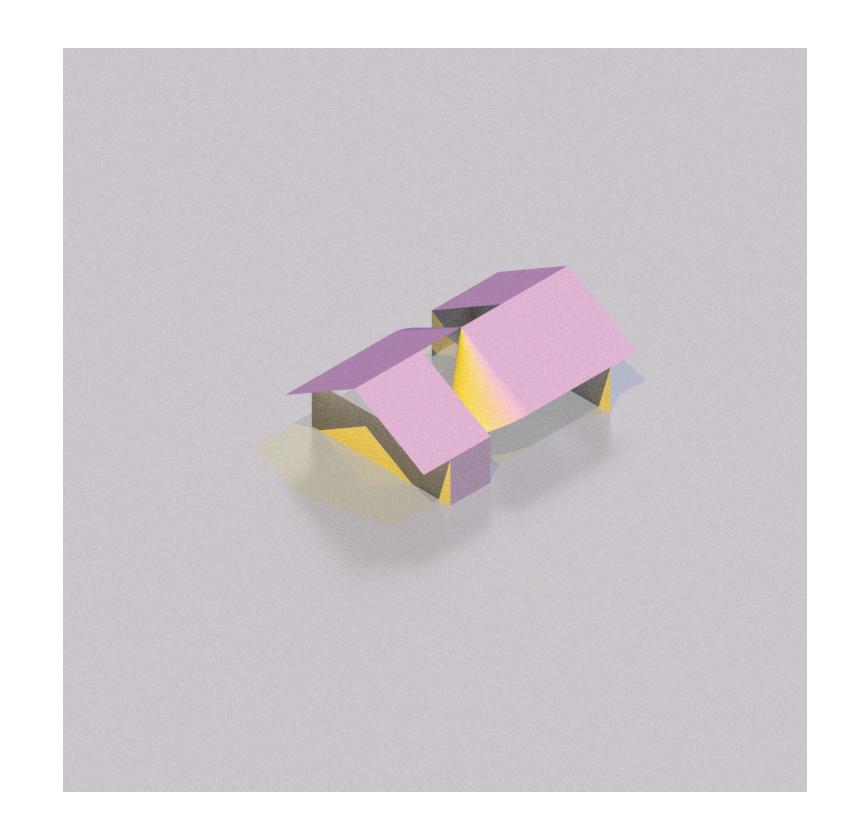
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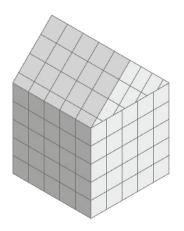


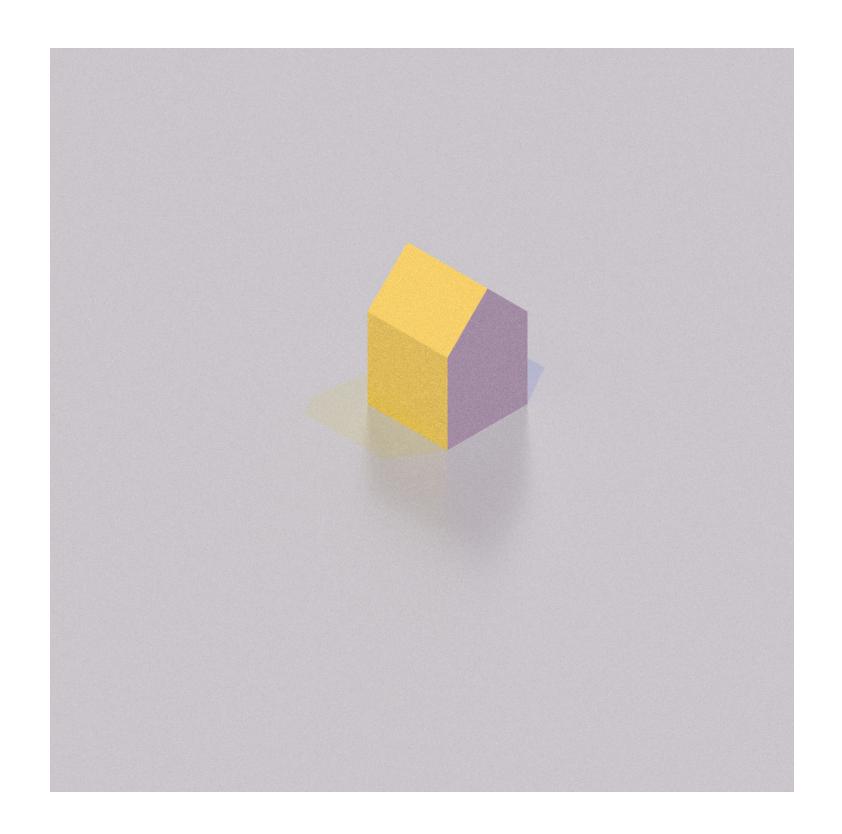
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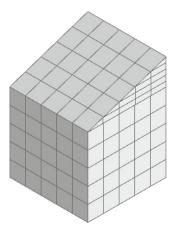


surface & cone



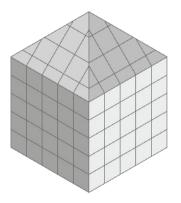


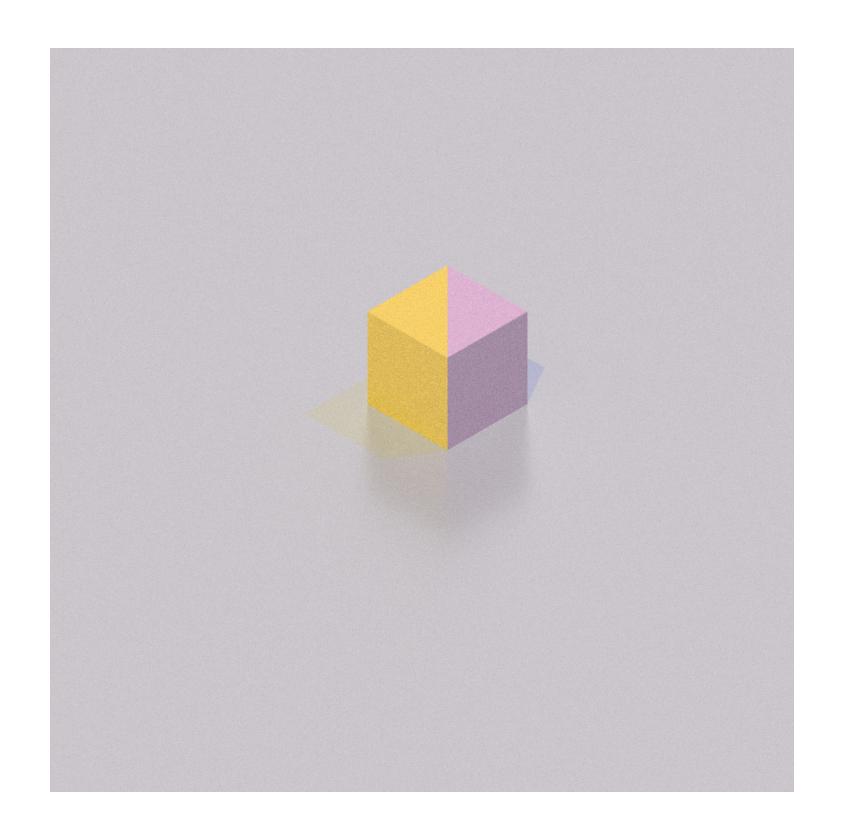
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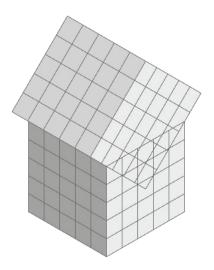


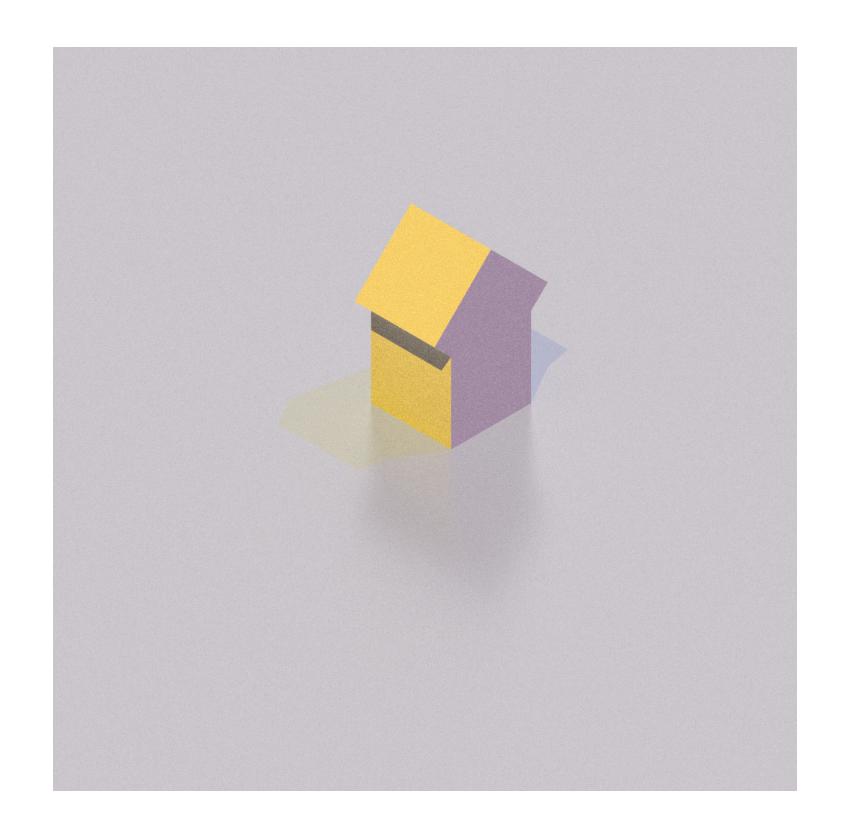
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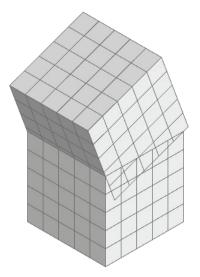




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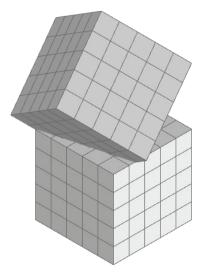




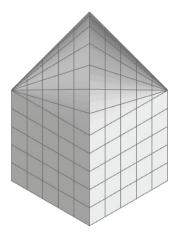




cube abstraction

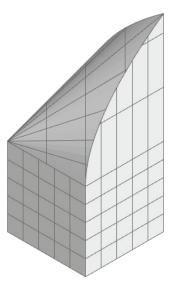


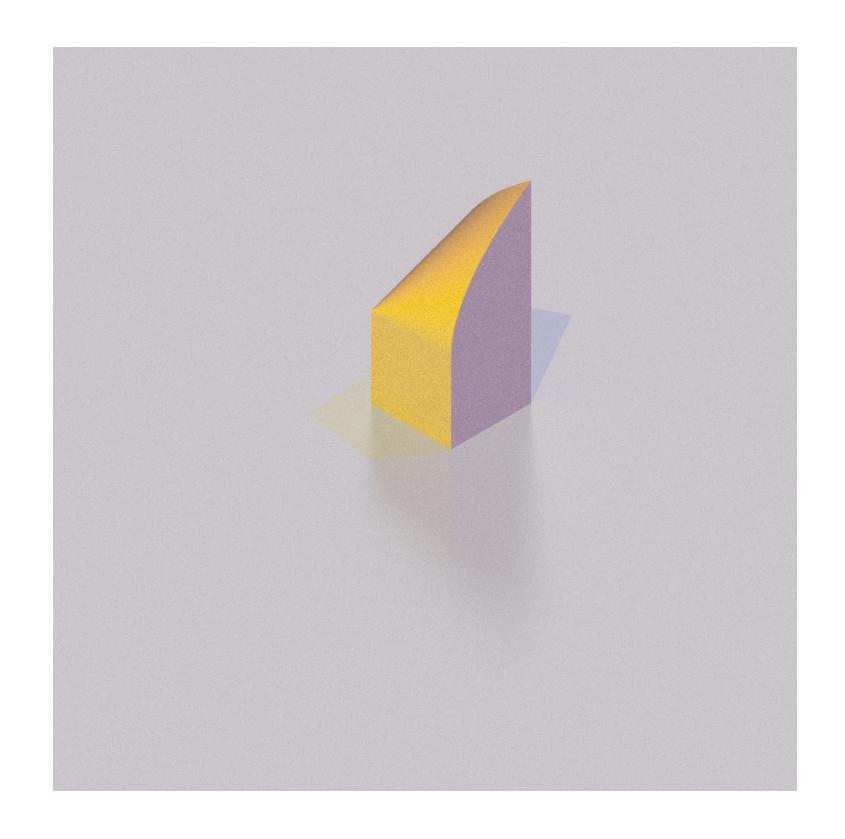




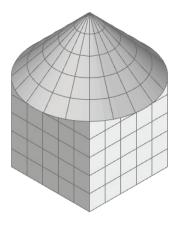


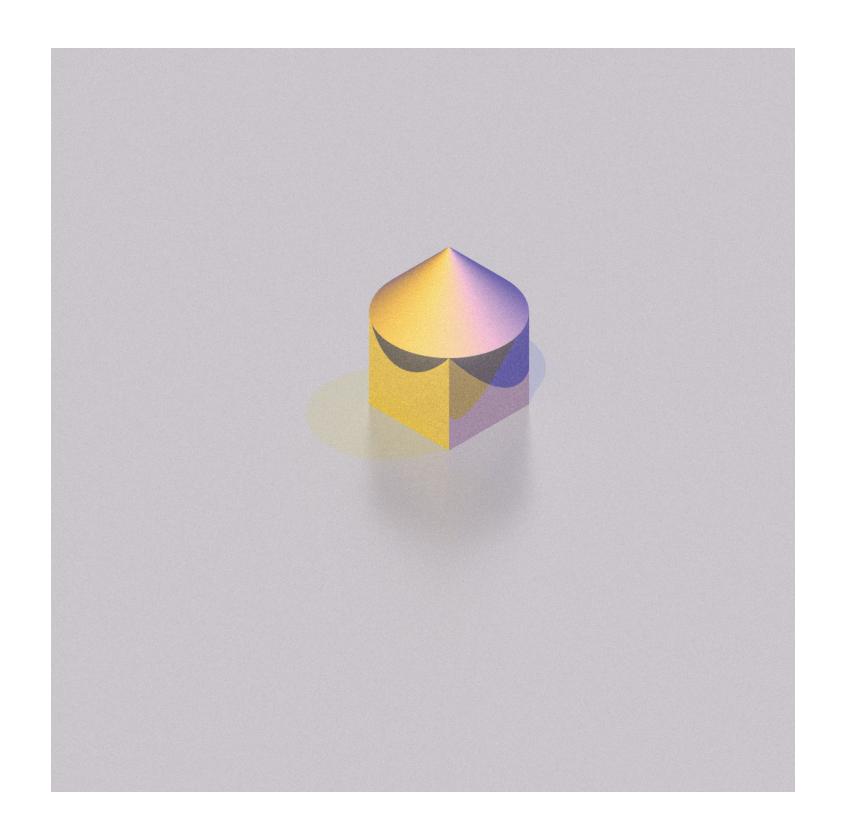
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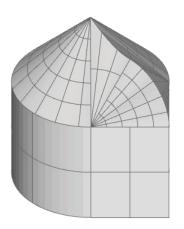




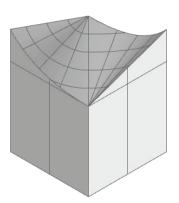
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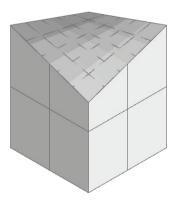






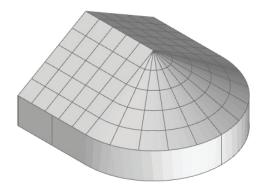


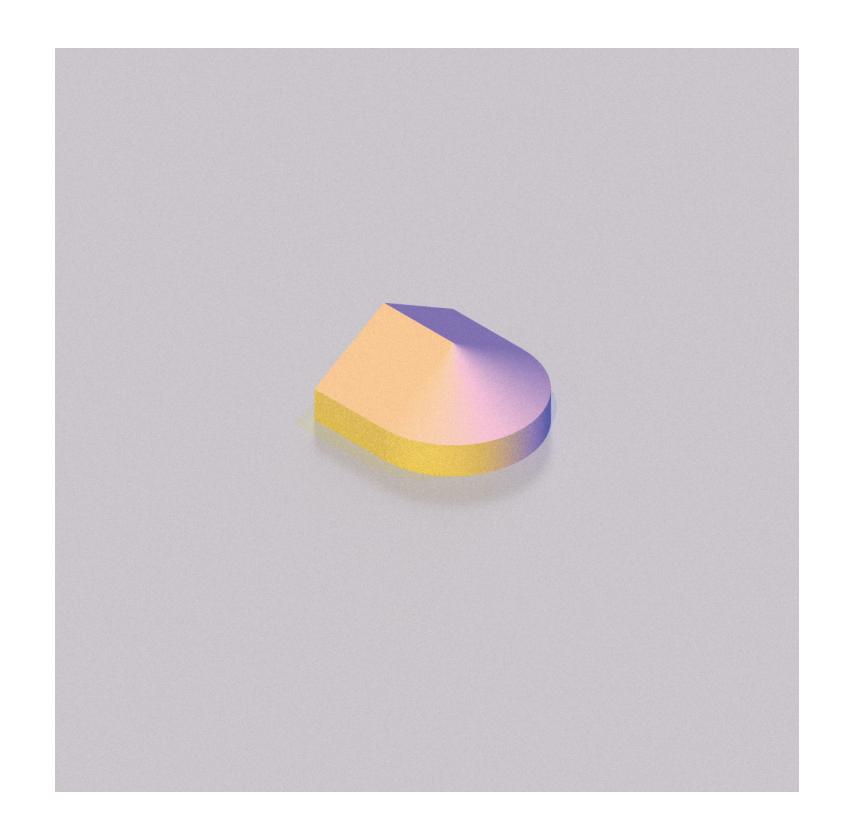
four sided shed



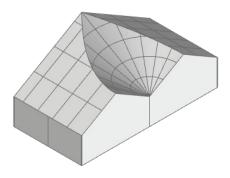


four sided shed



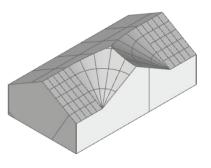


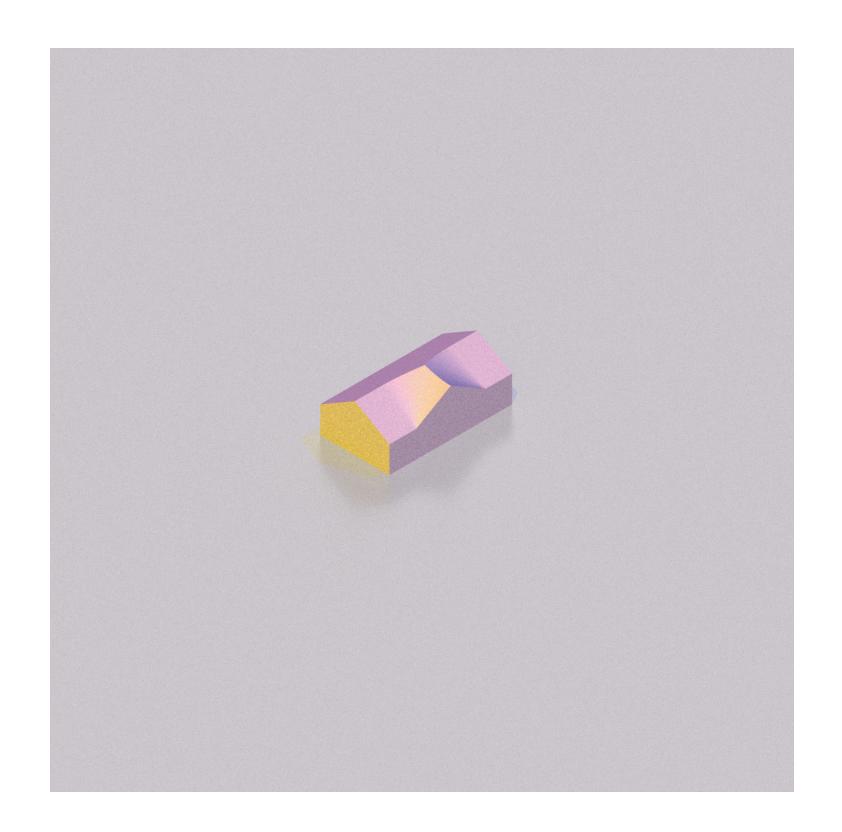
roof & curve



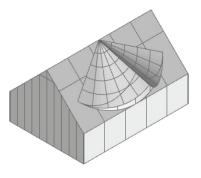


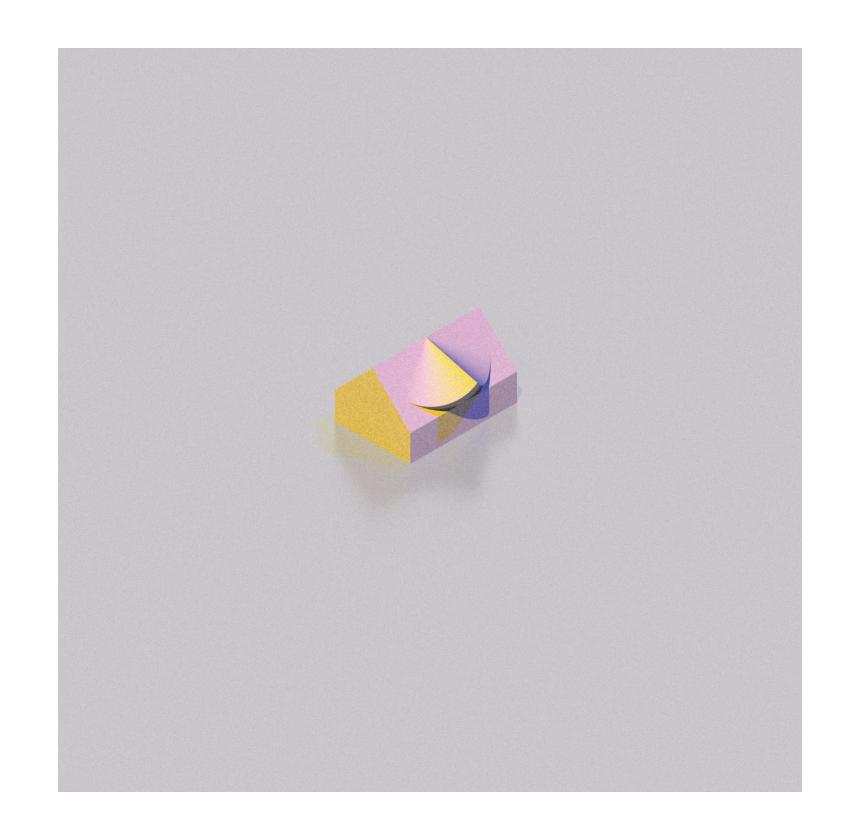
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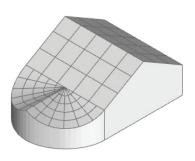


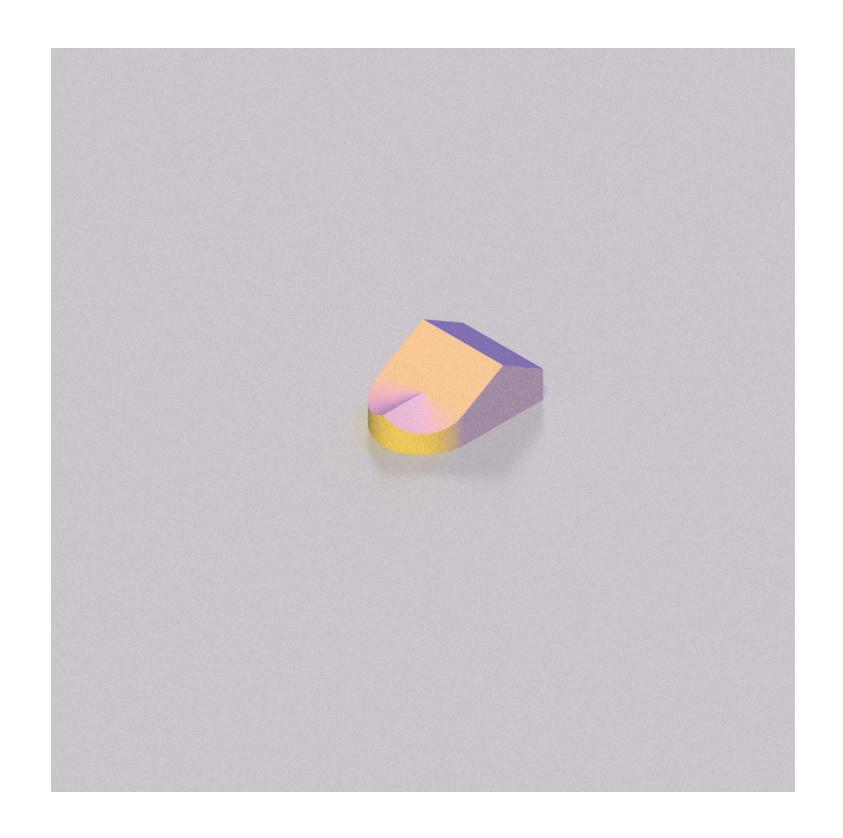
roof & curve



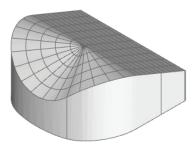


roof & curve



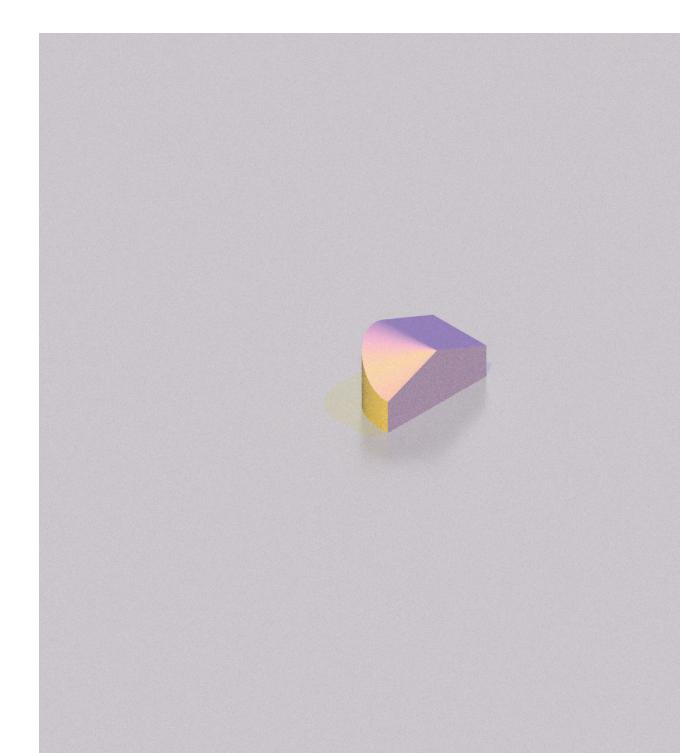


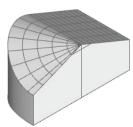
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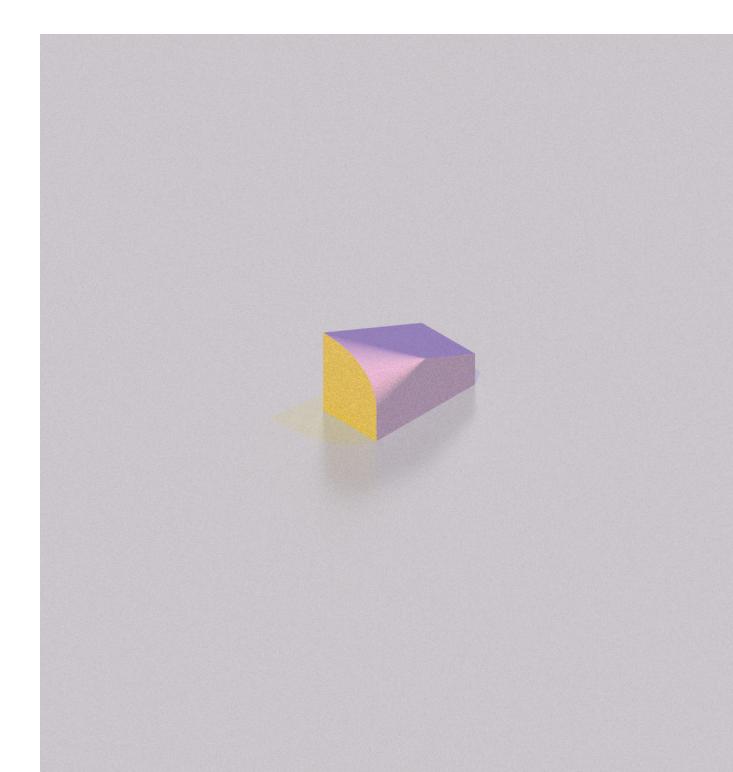


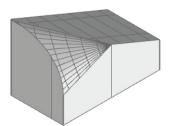
roof & curve





roof & curve



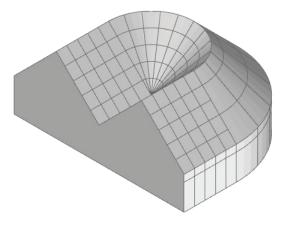


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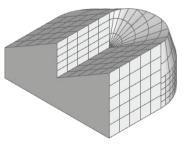


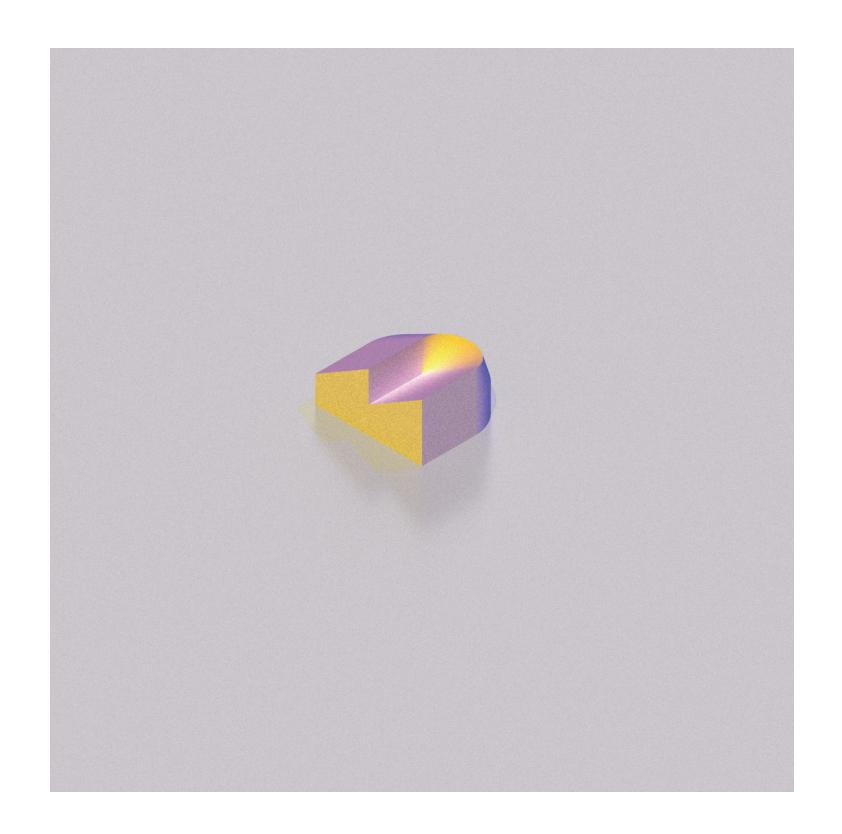
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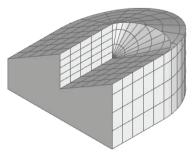


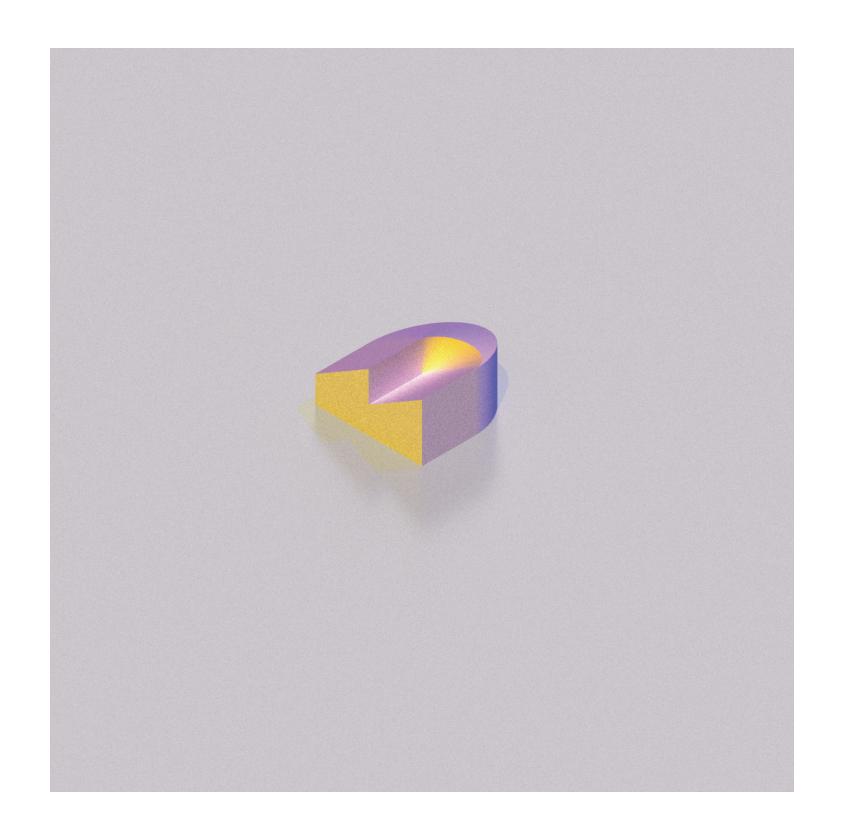
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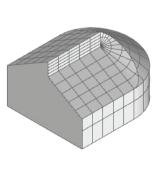


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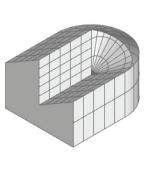


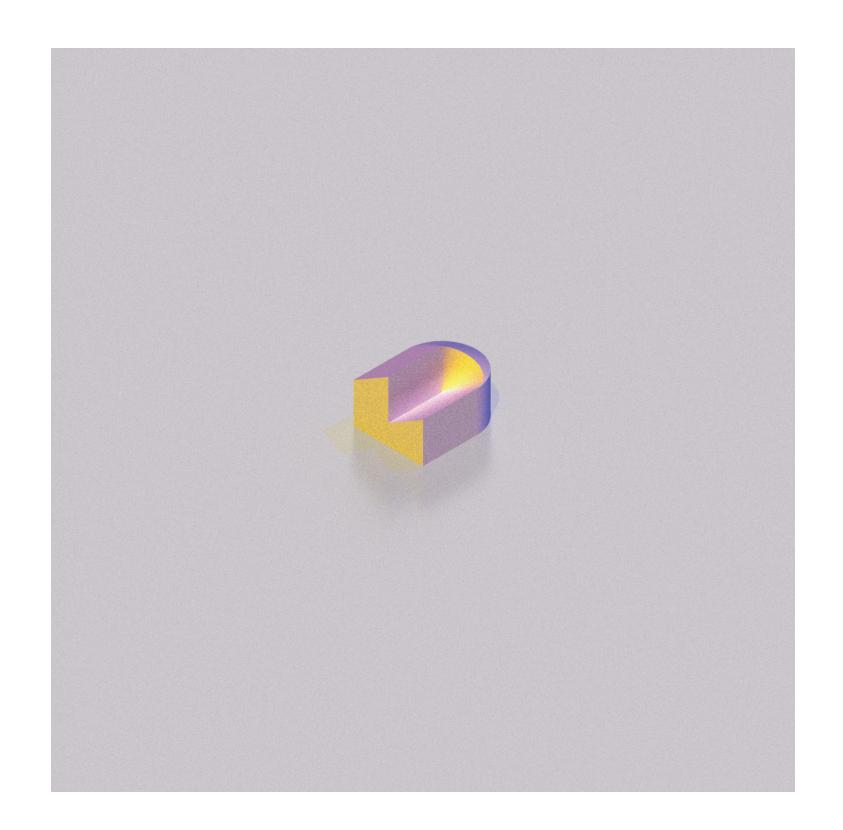
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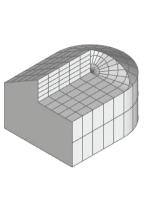


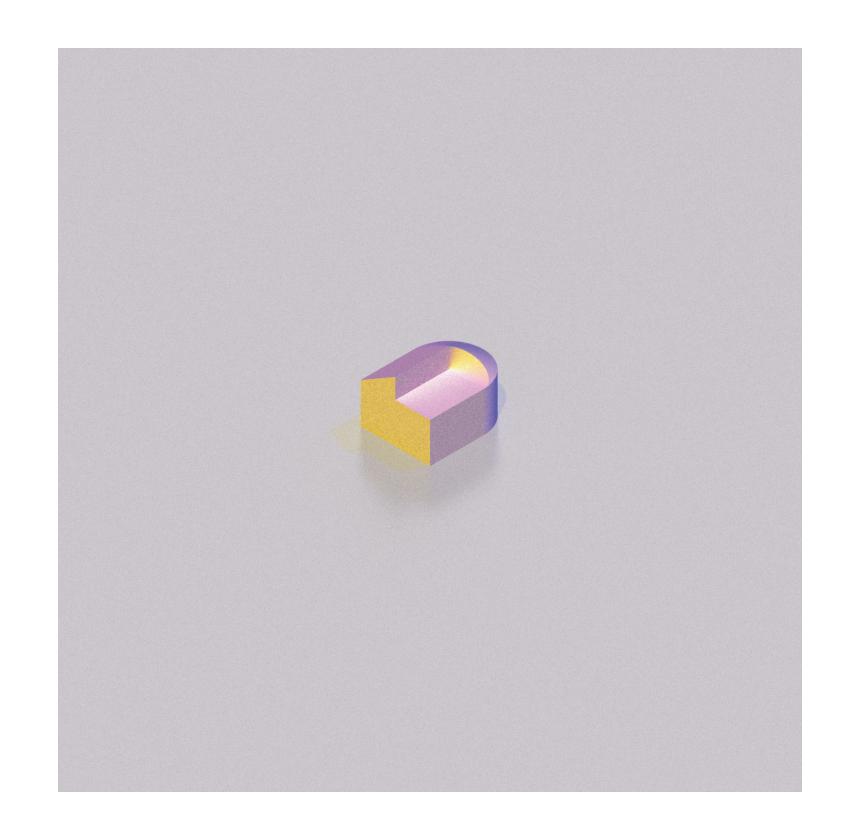
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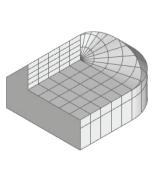


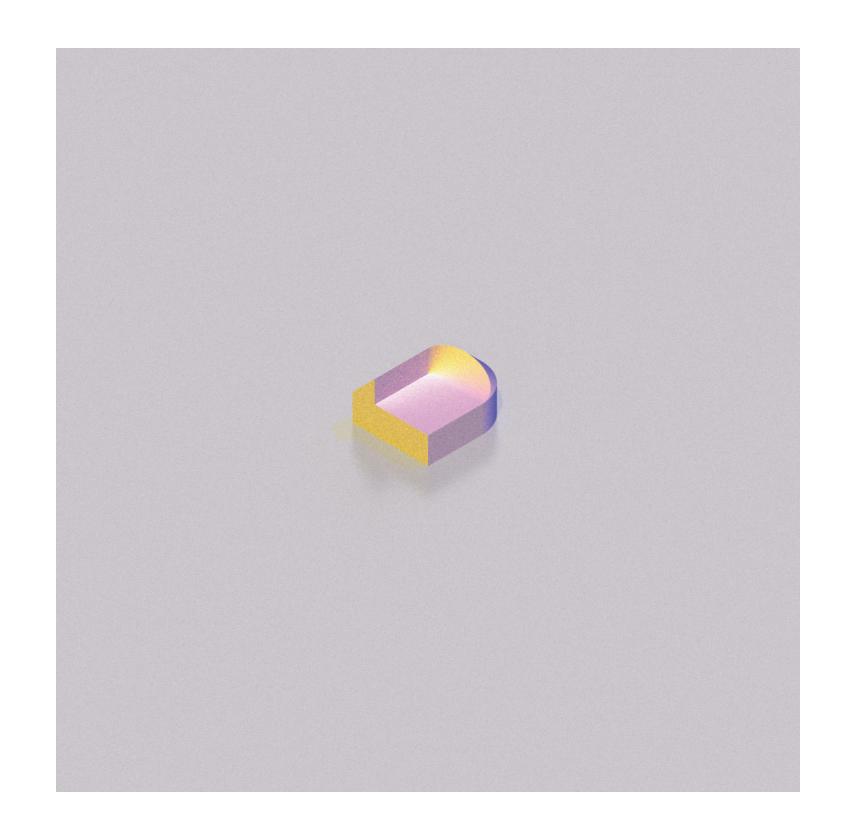
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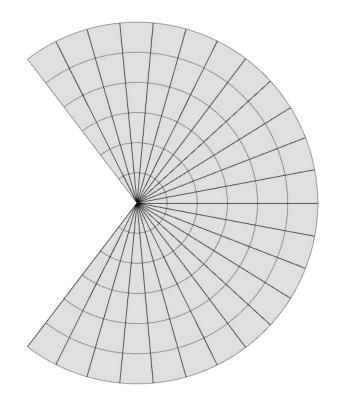


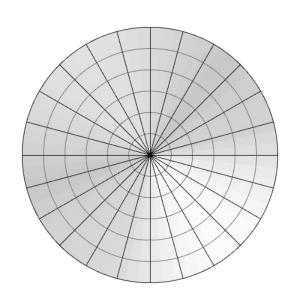
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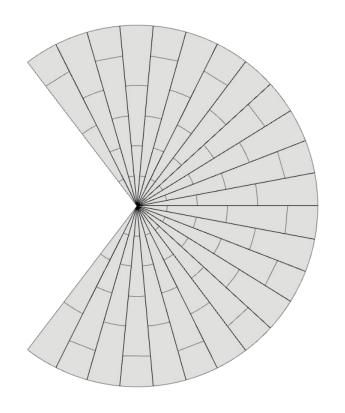


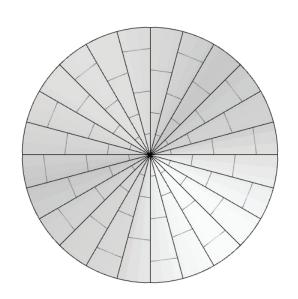


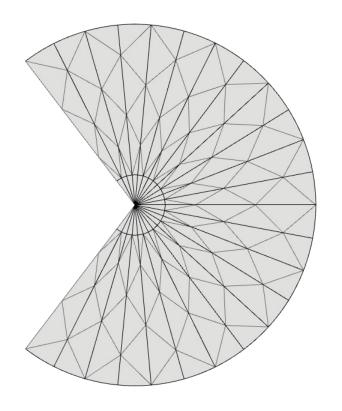
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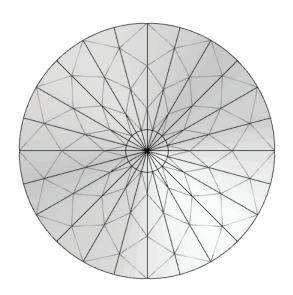


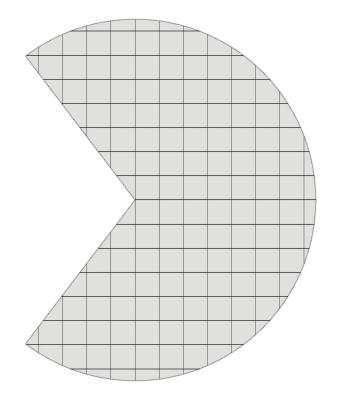


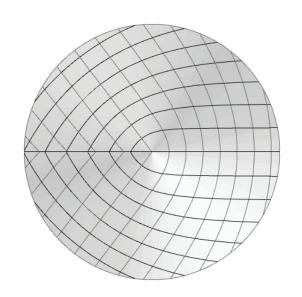


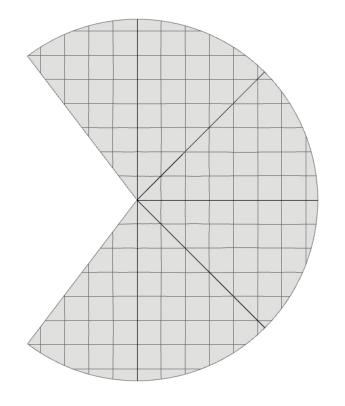


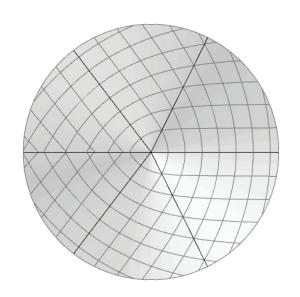


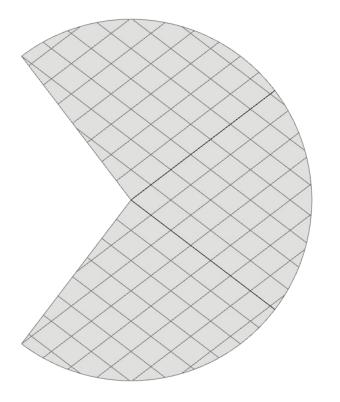




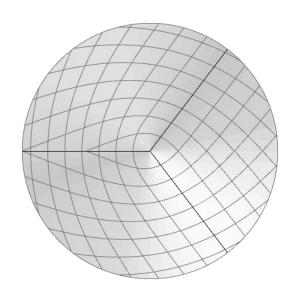


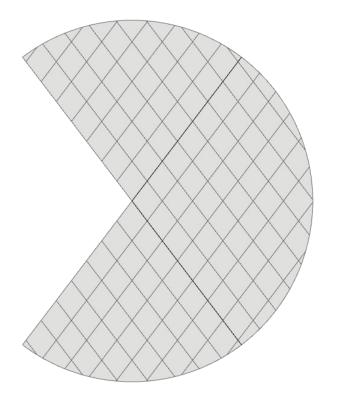


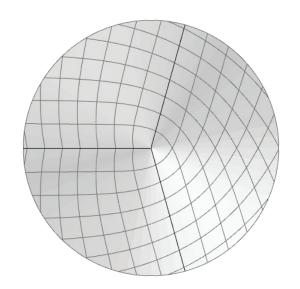


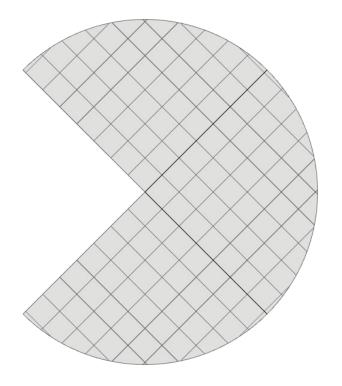


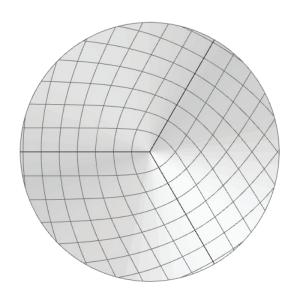
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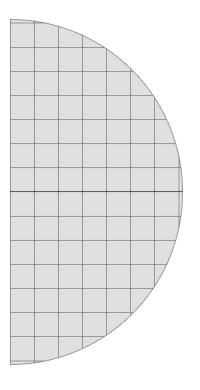


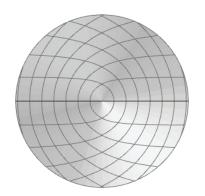


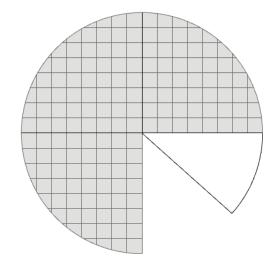


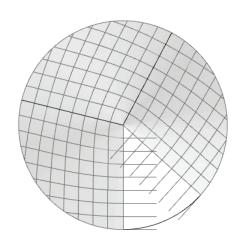


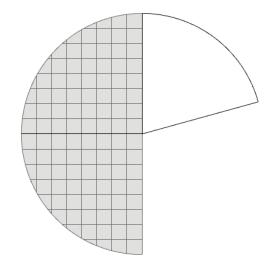


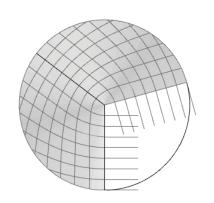


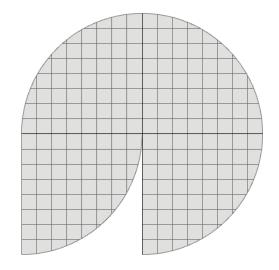


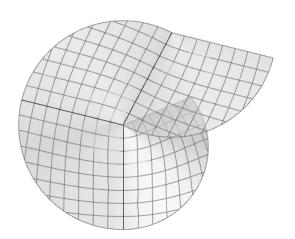


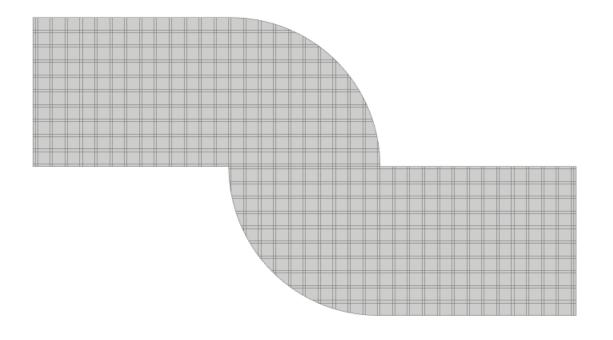




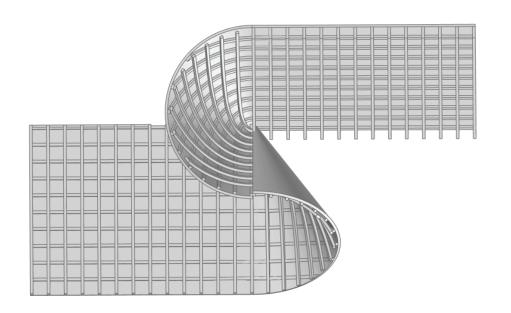


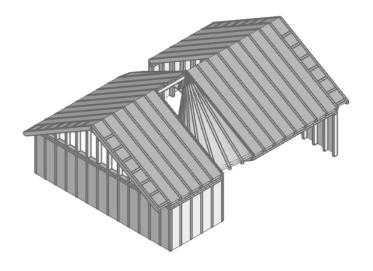


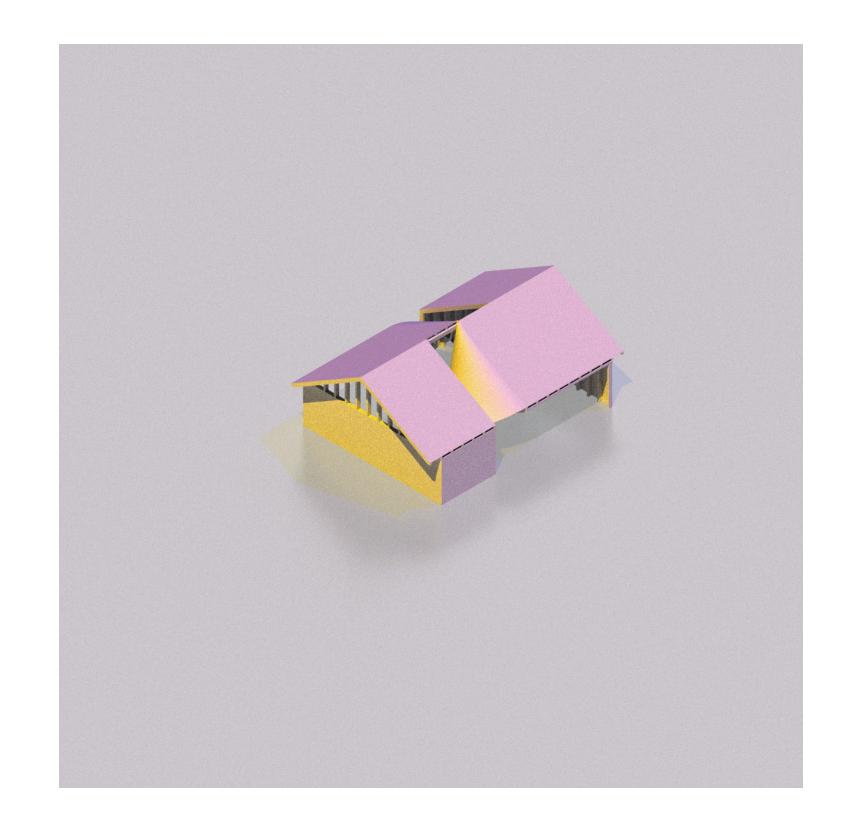


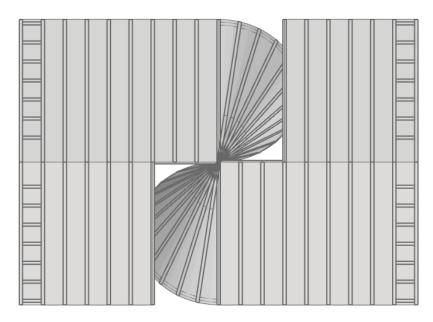


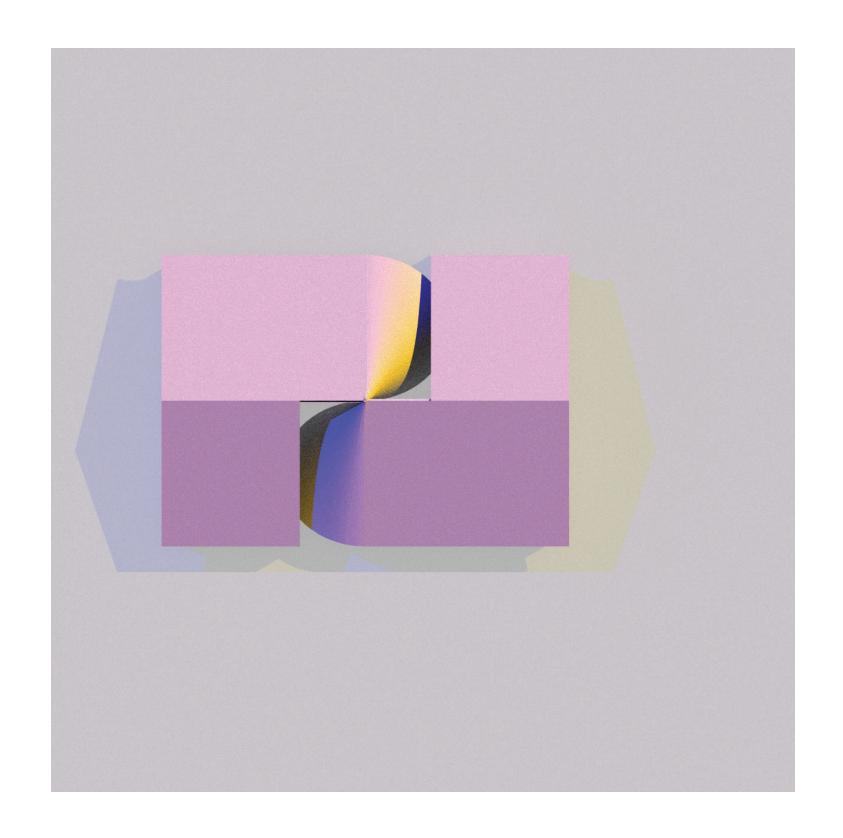
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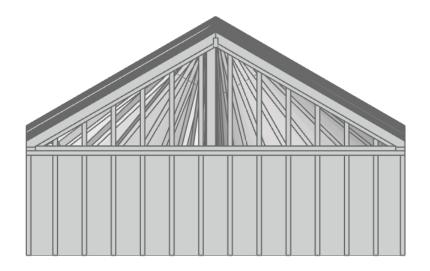


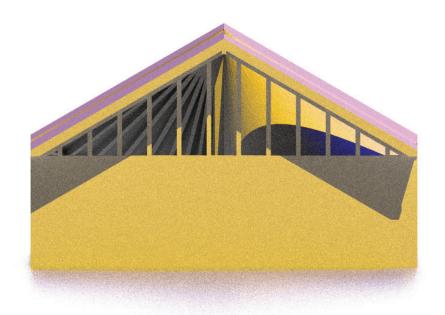


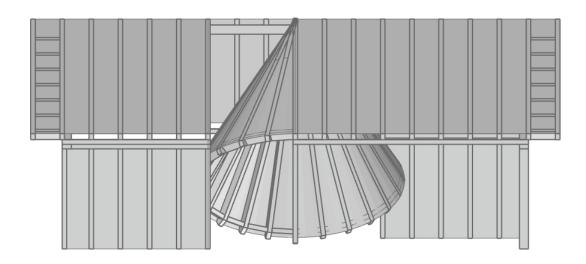


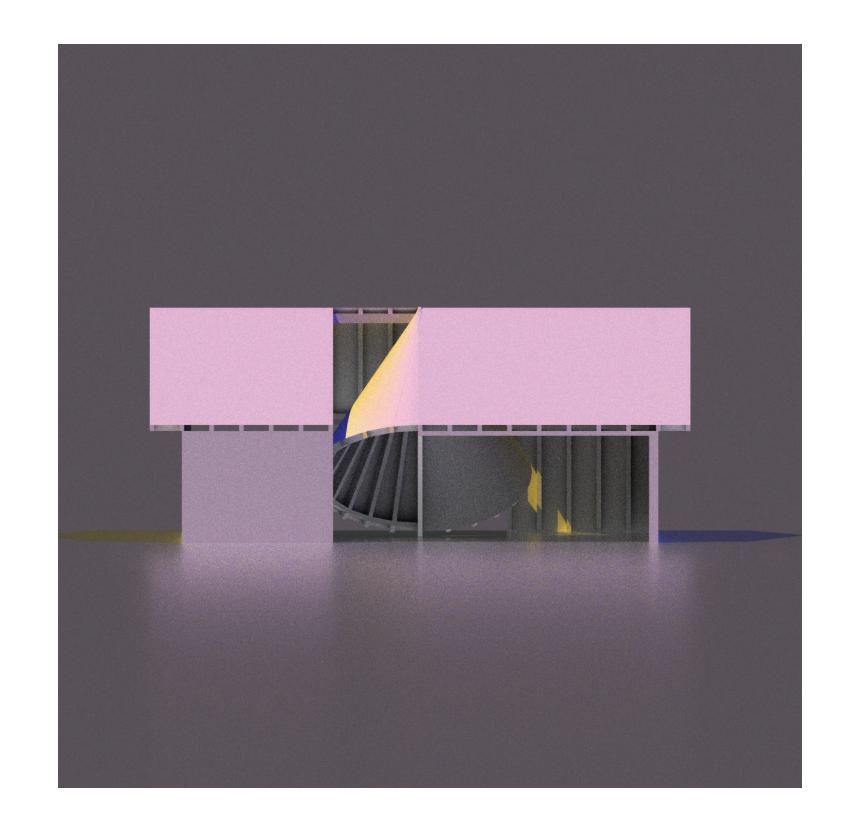










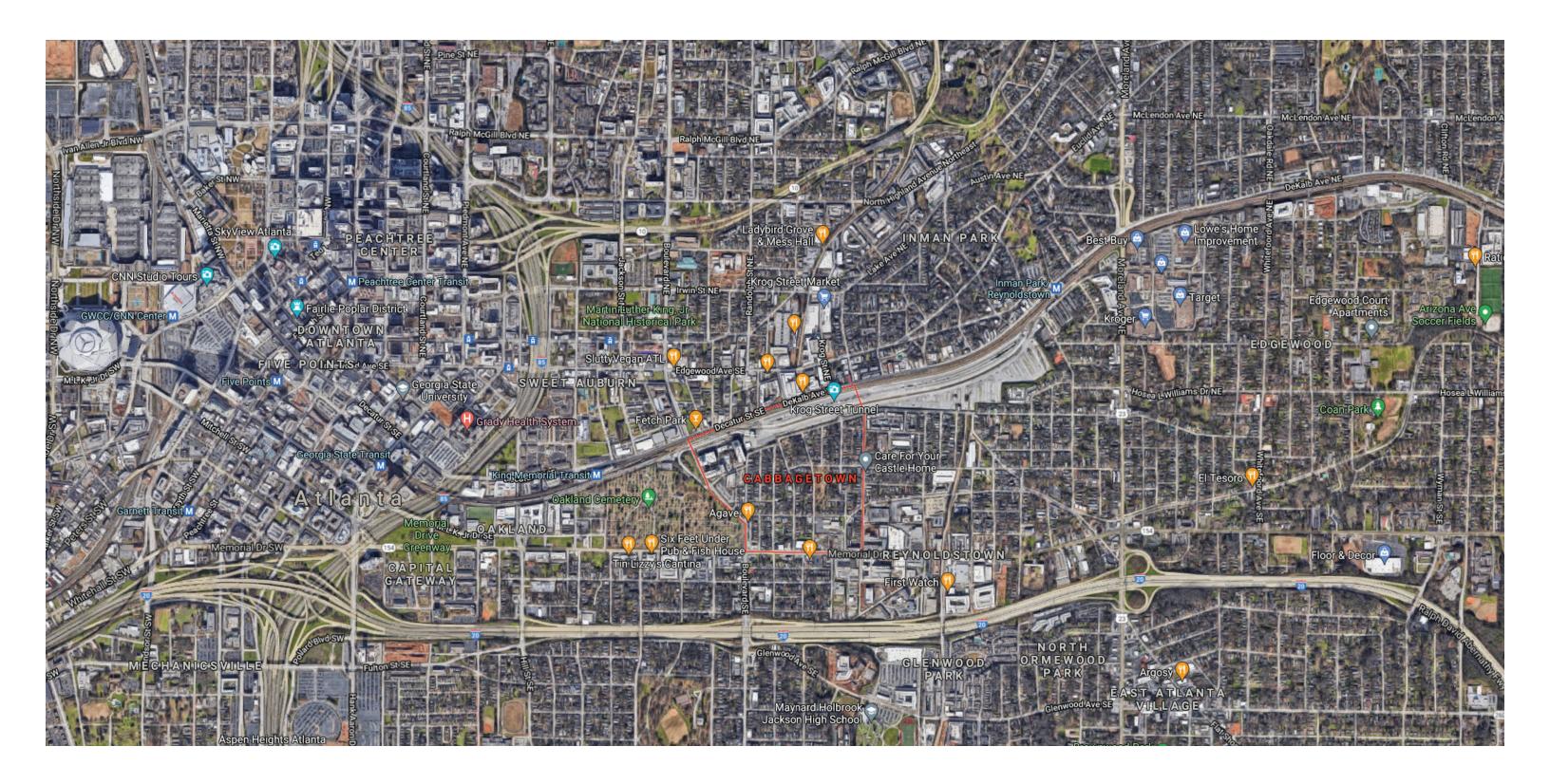


chapter 3 new additions:

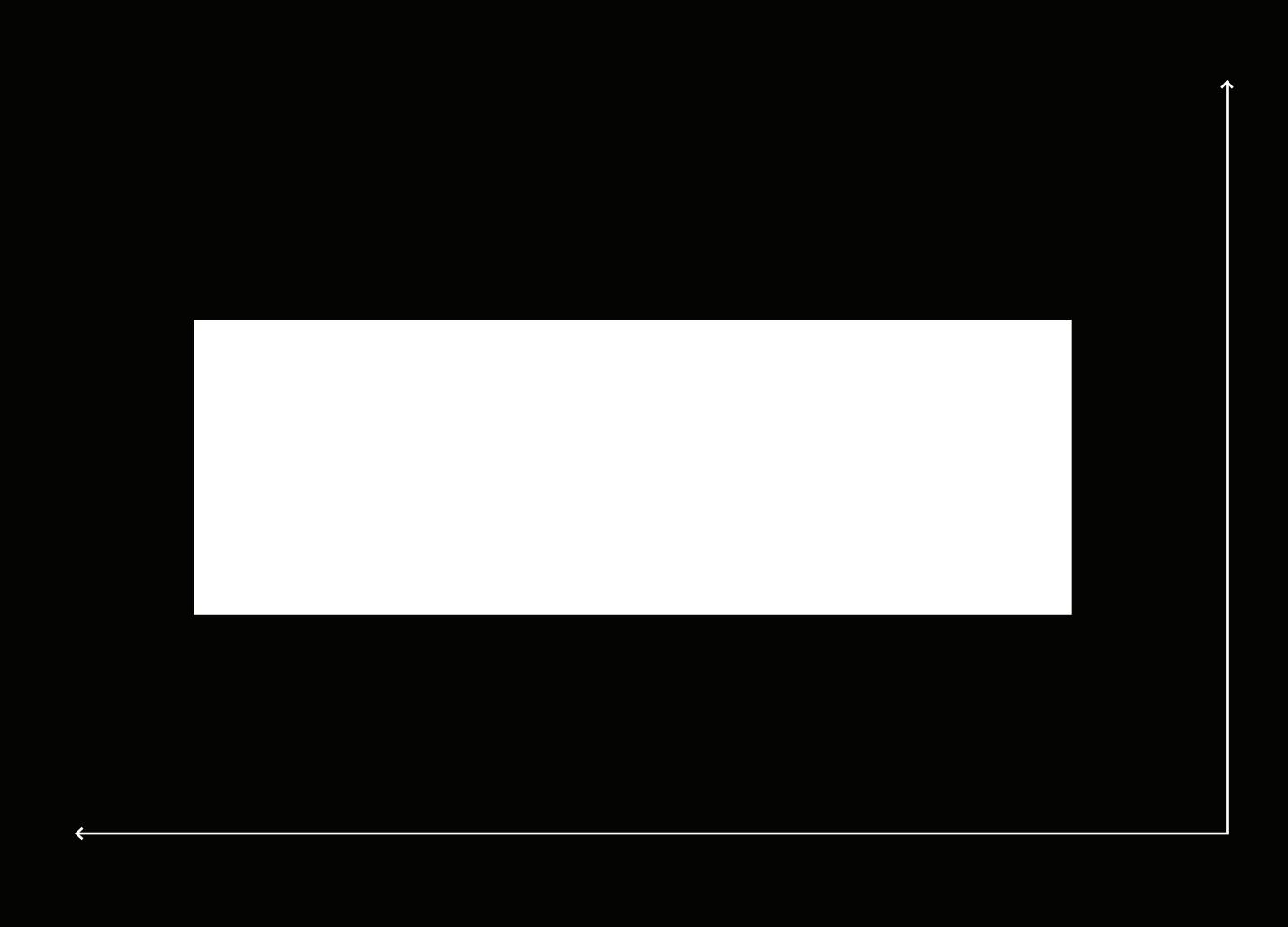
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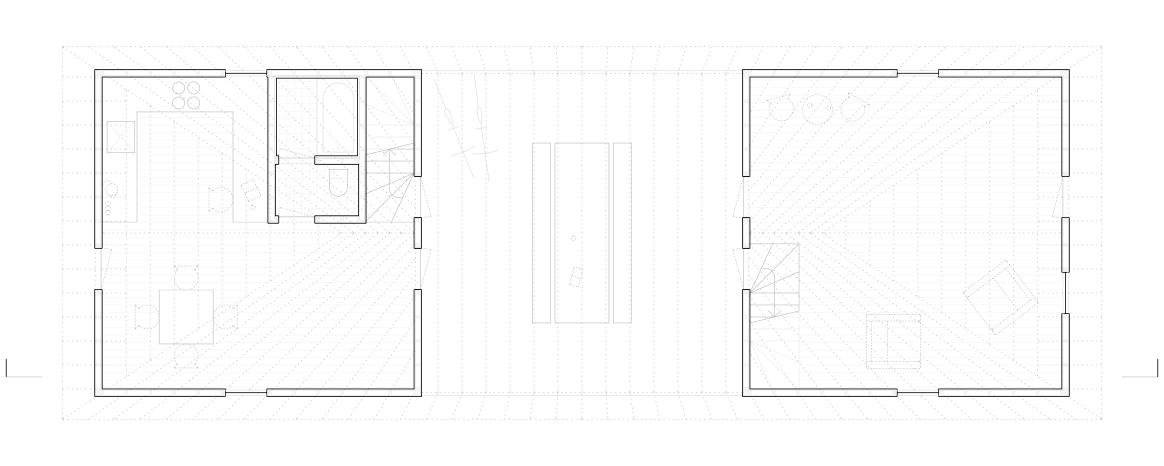
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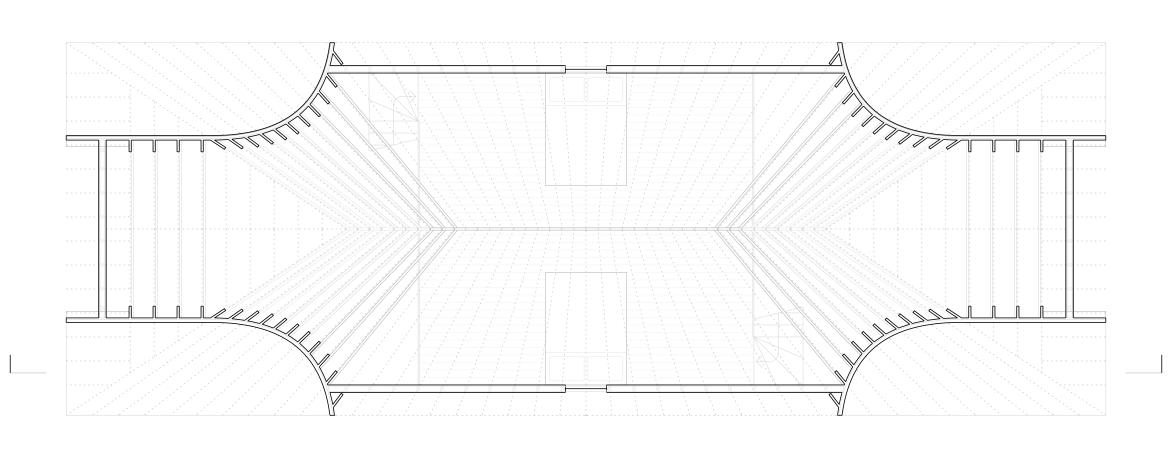
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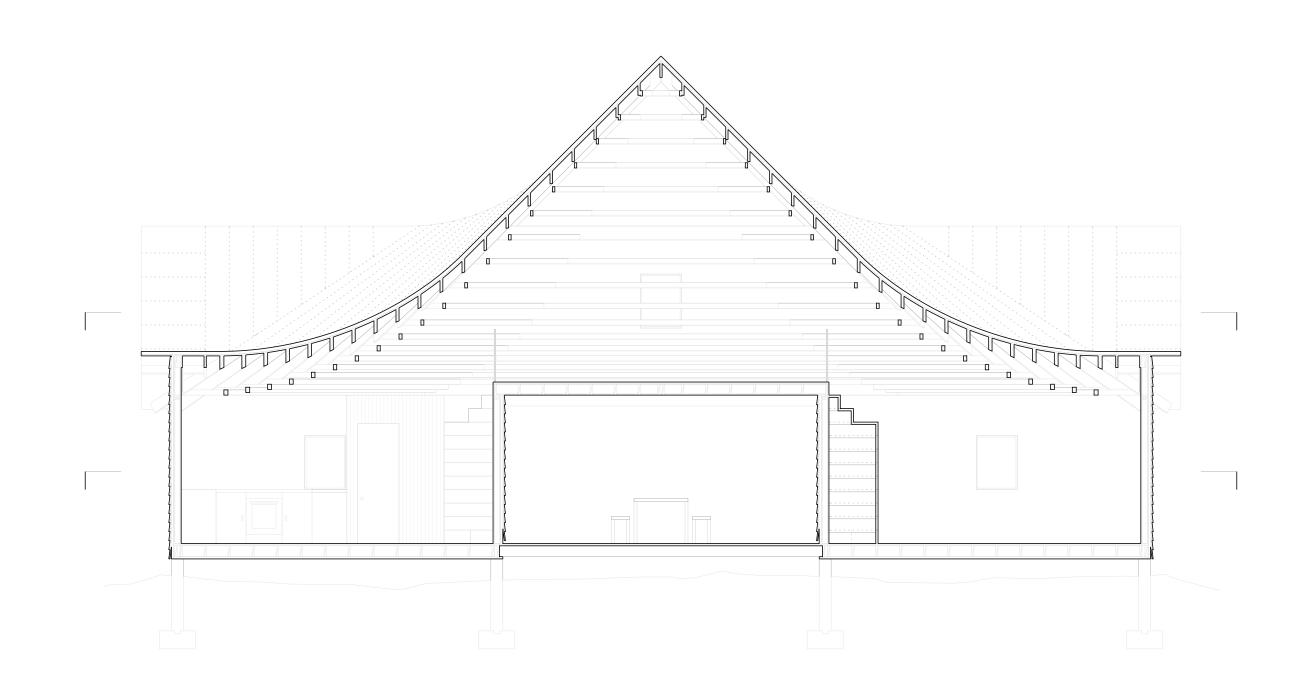


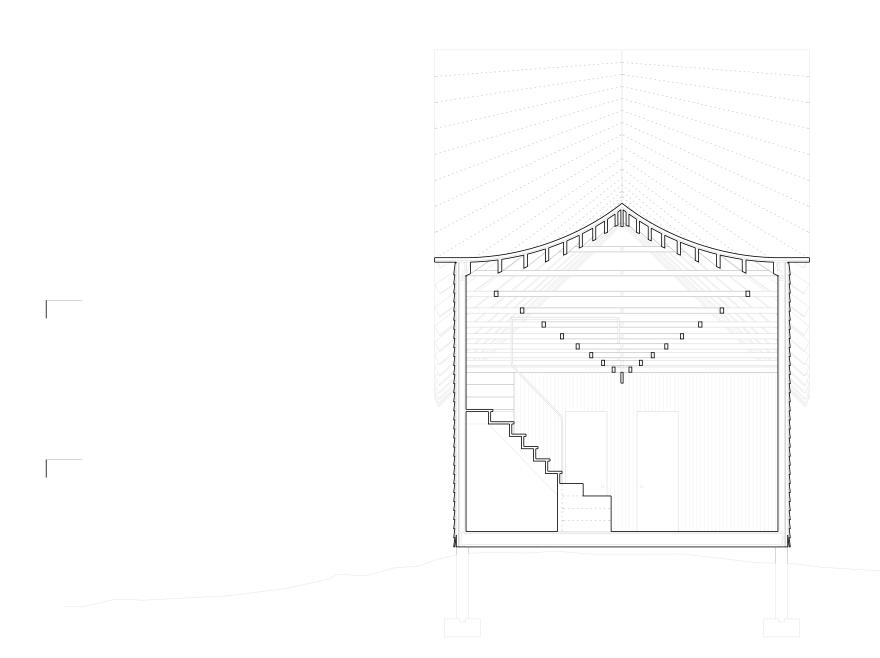










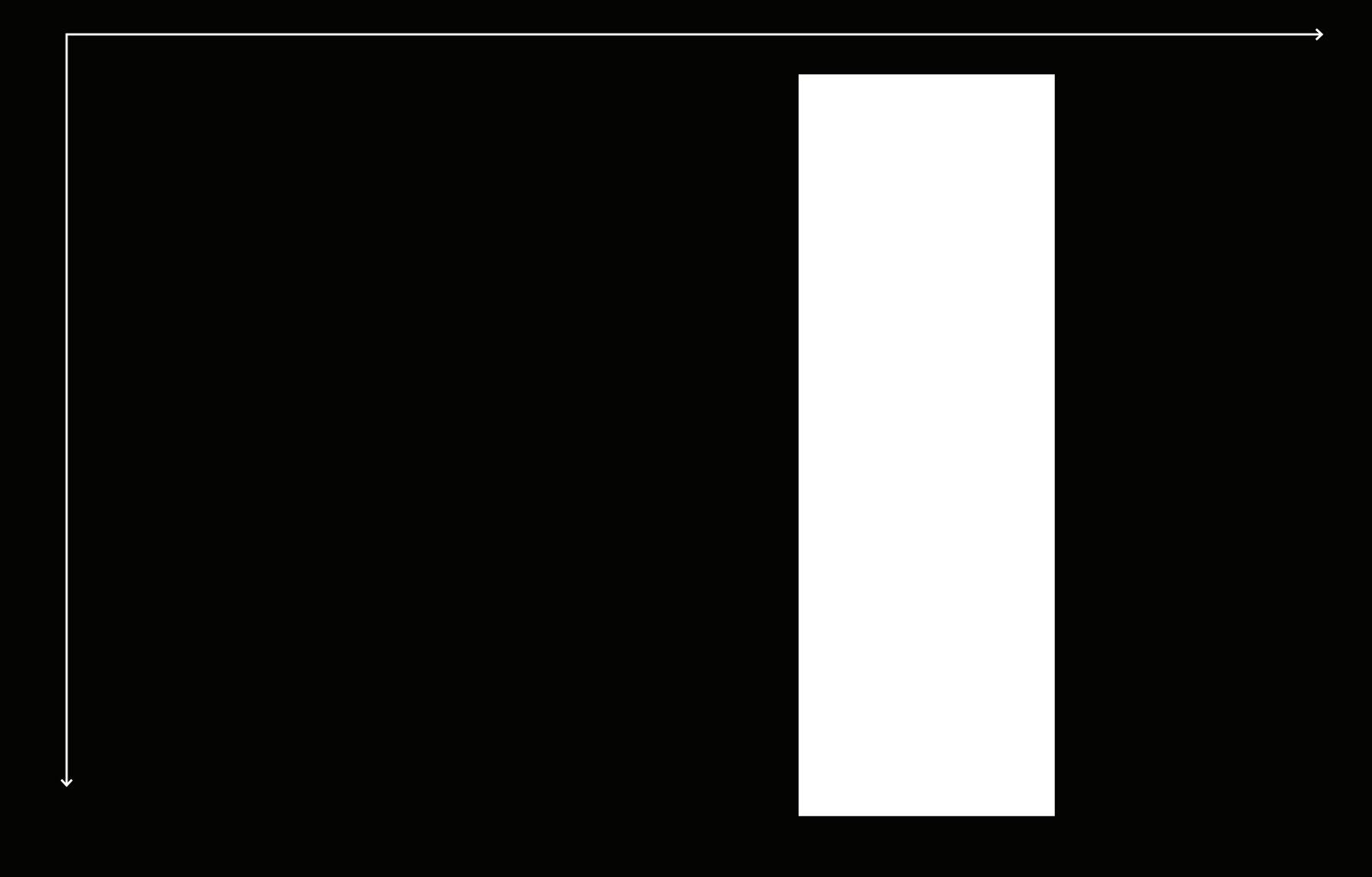


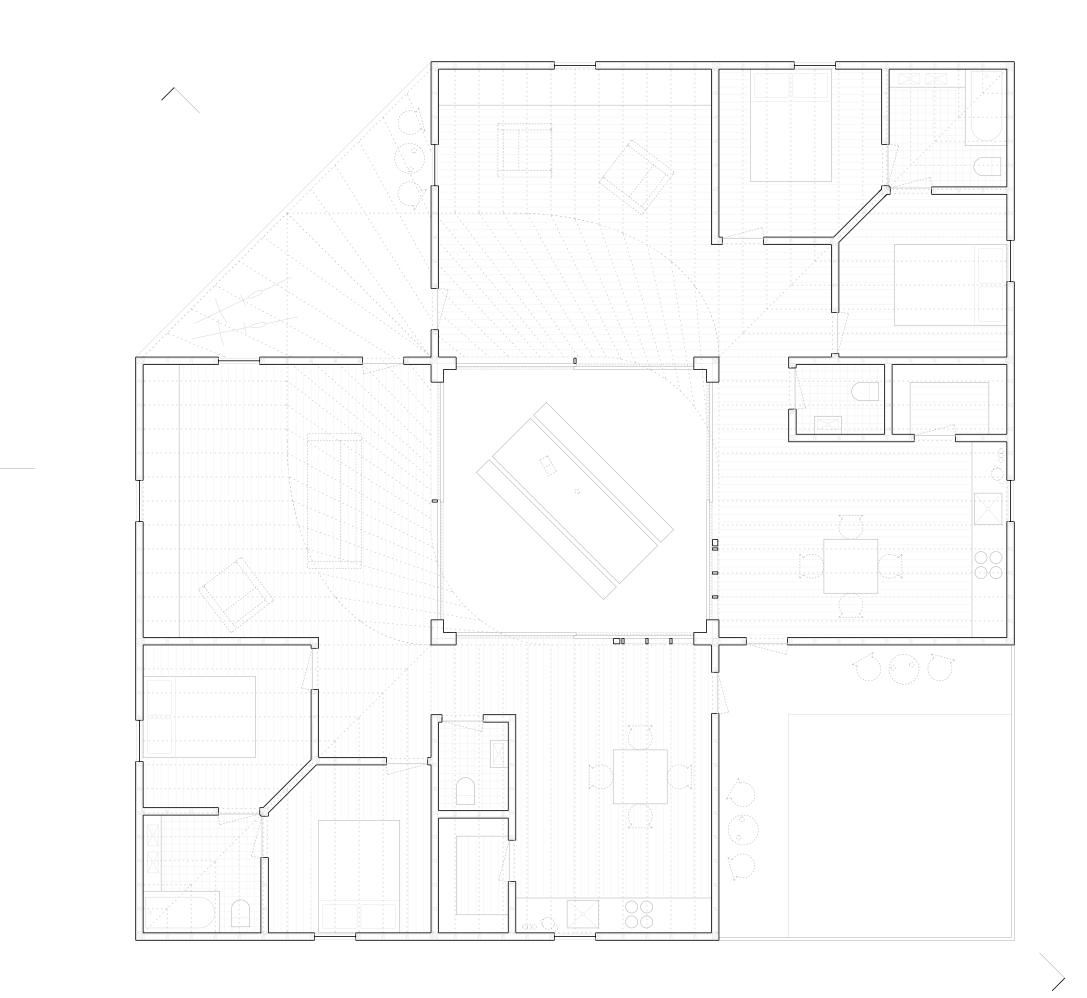


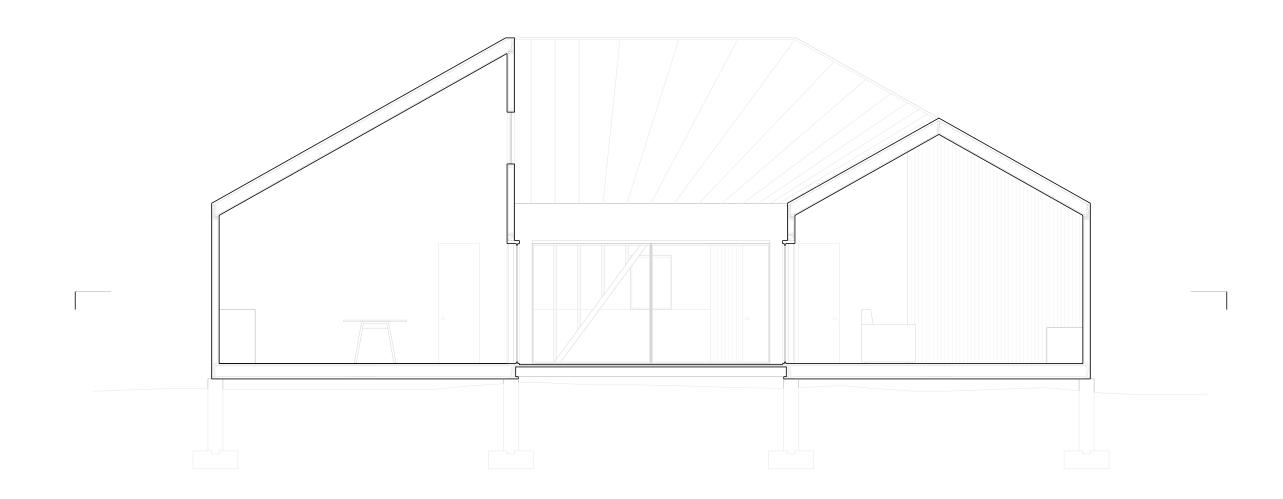


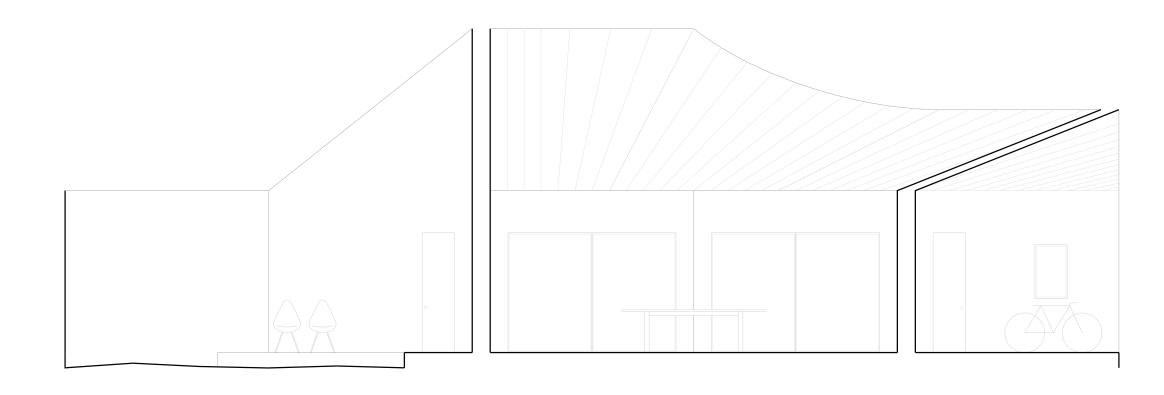




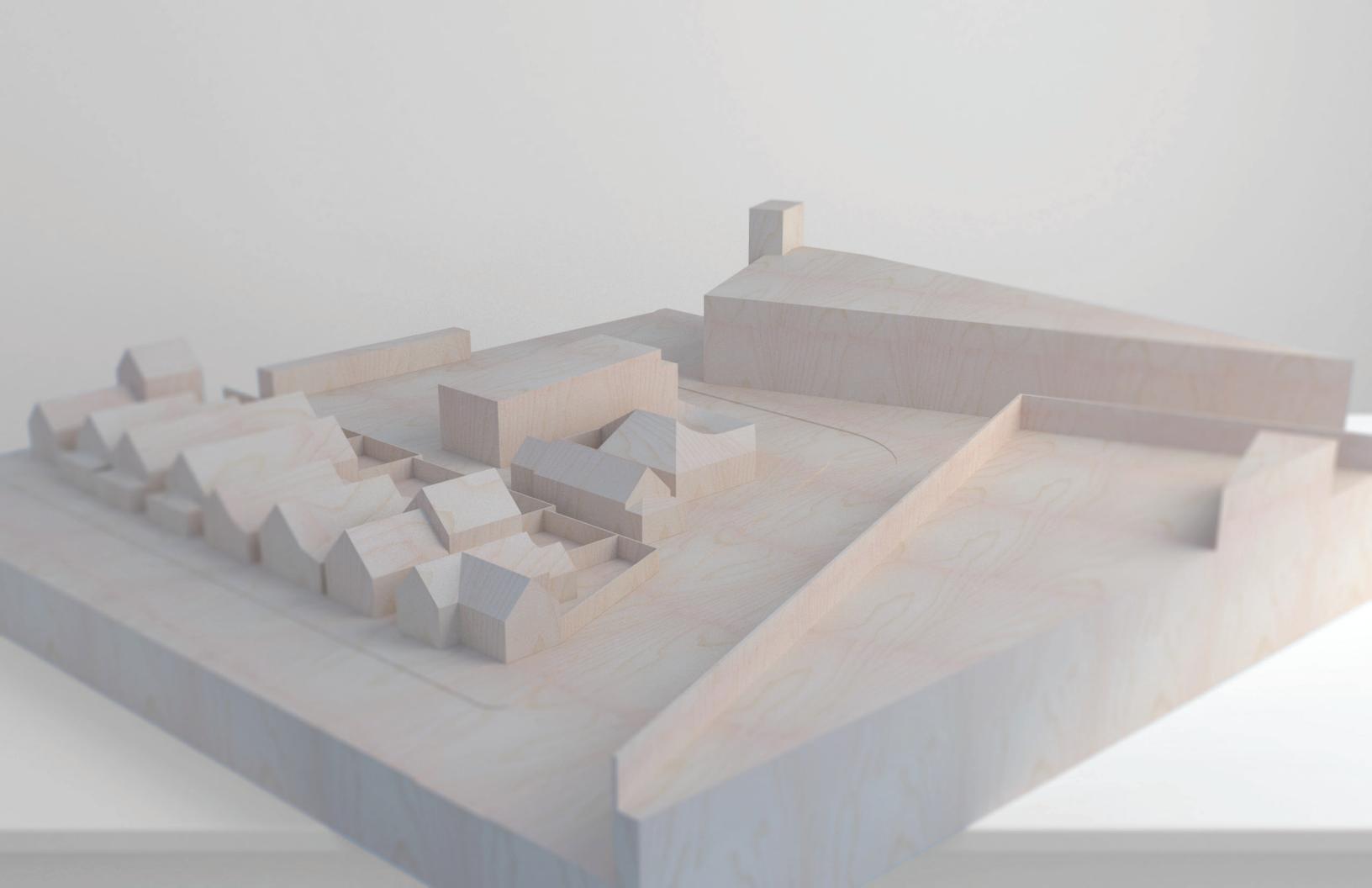


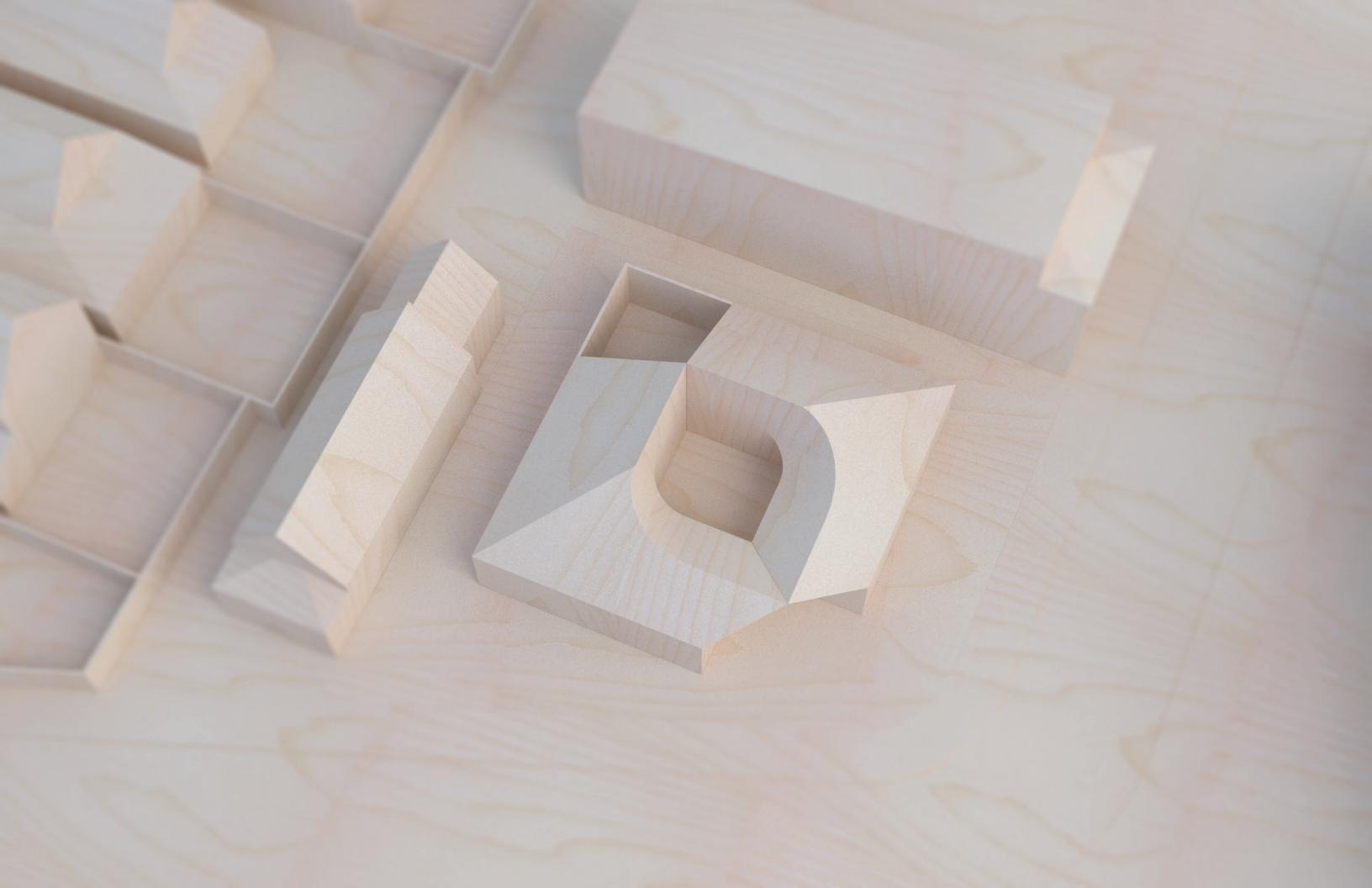






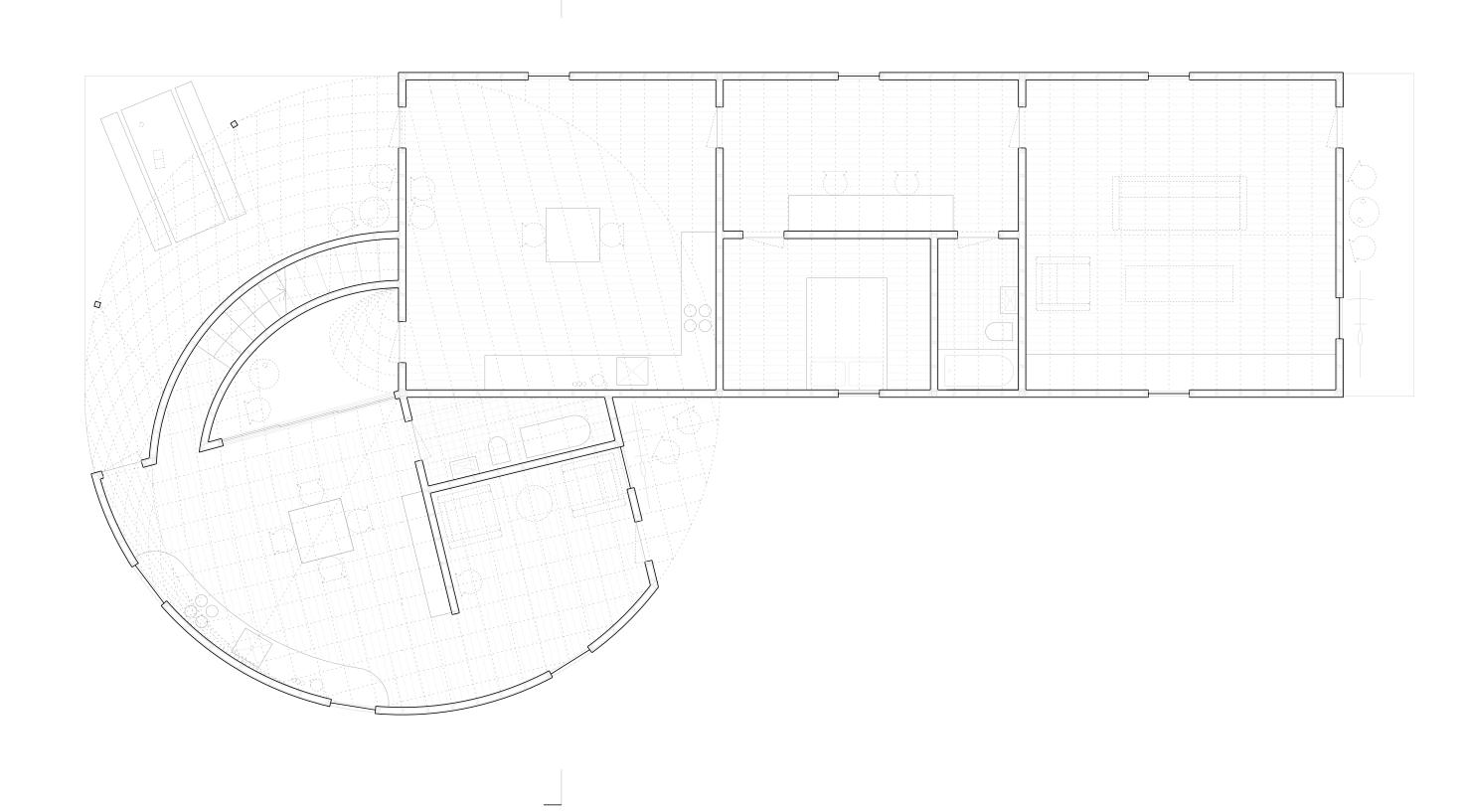


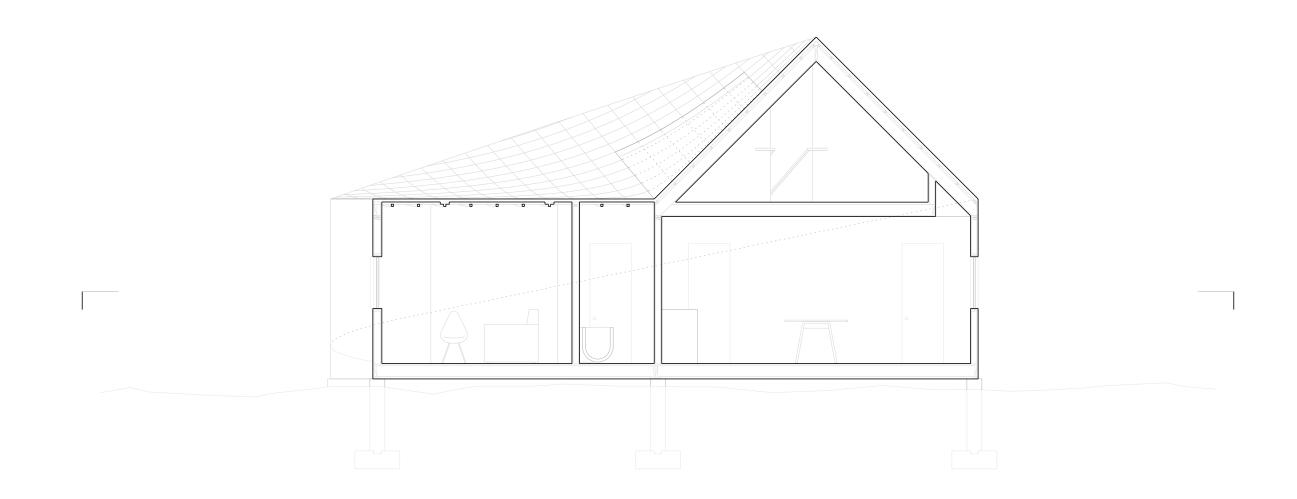


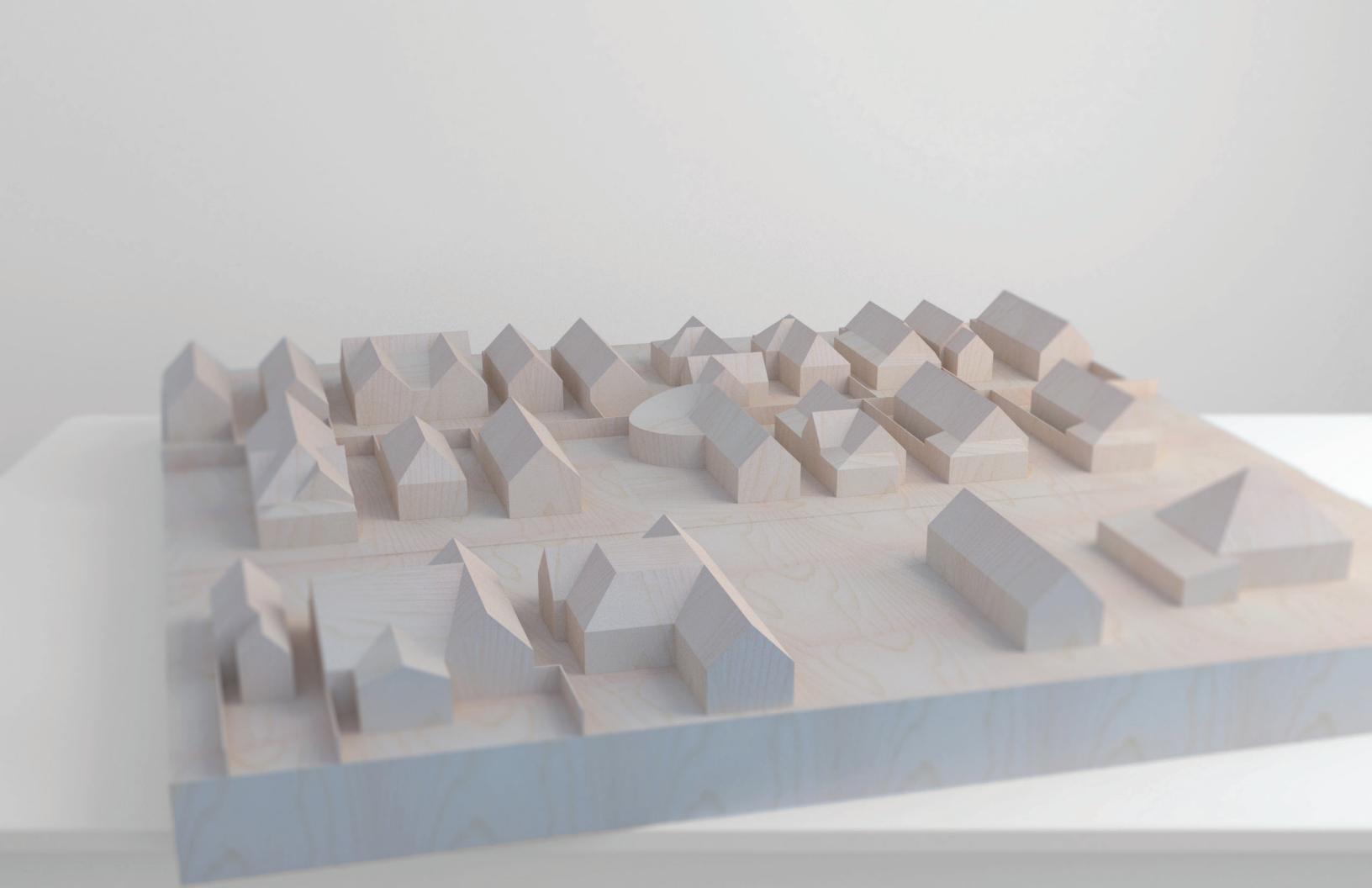


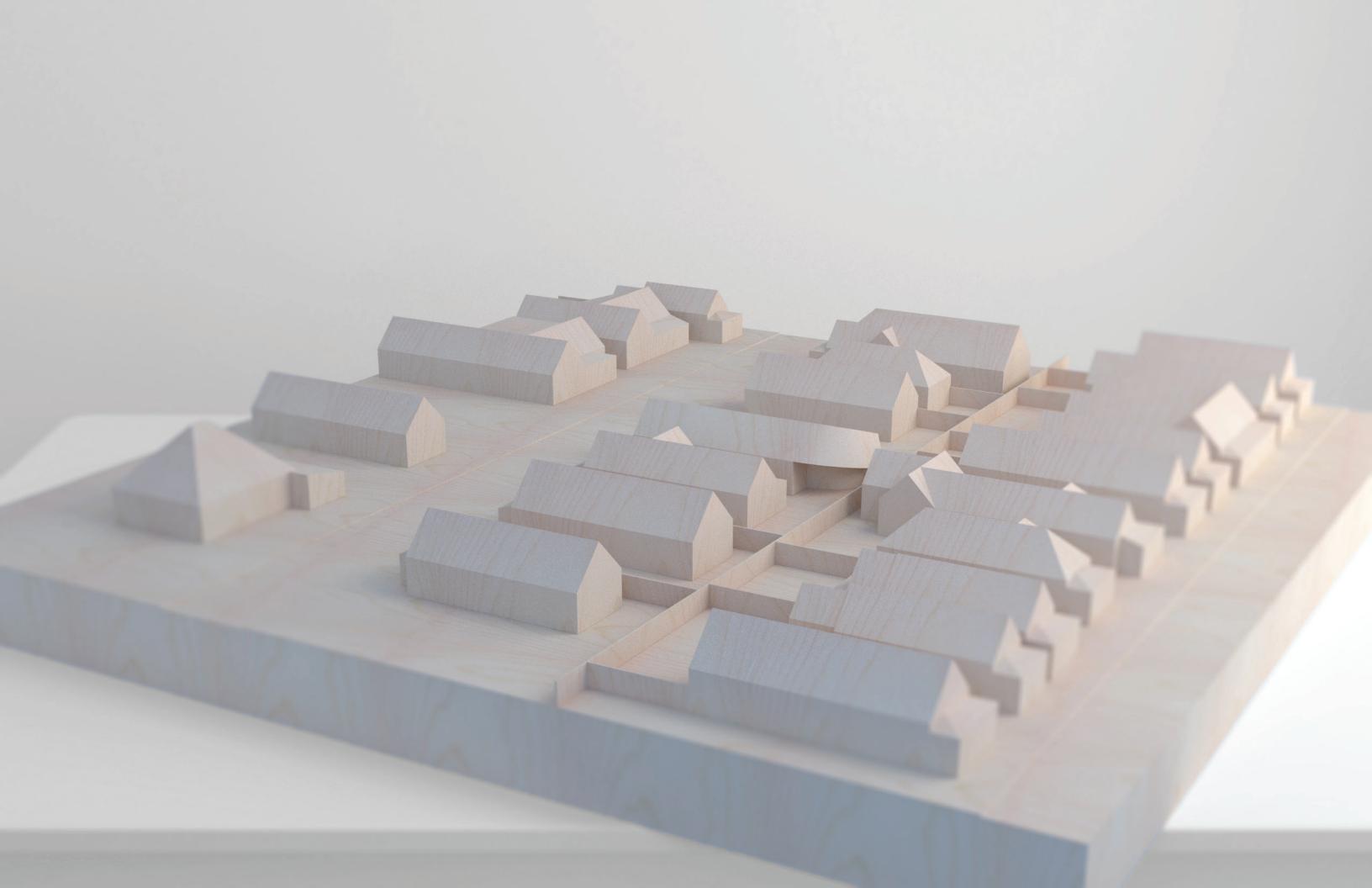






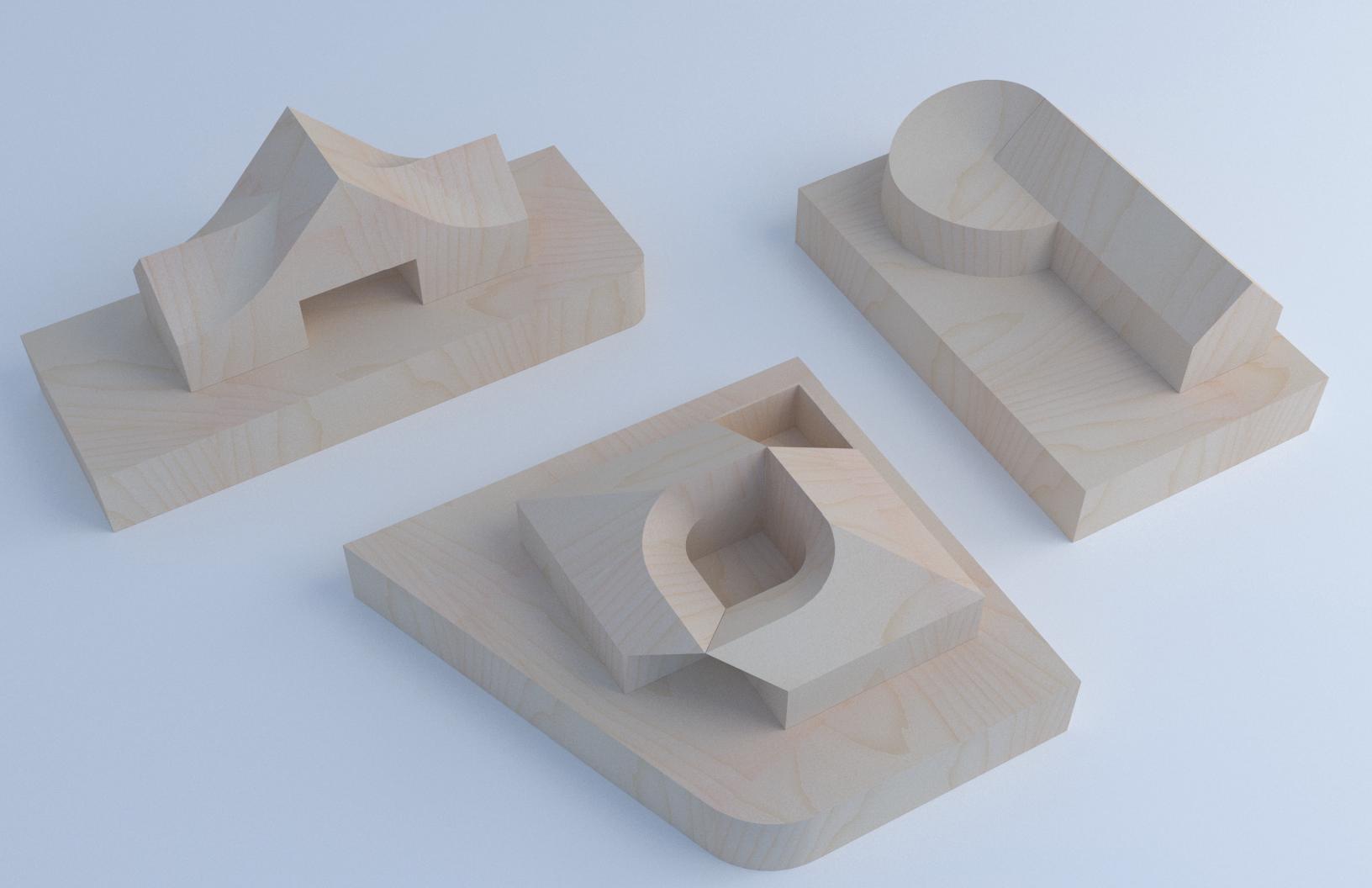


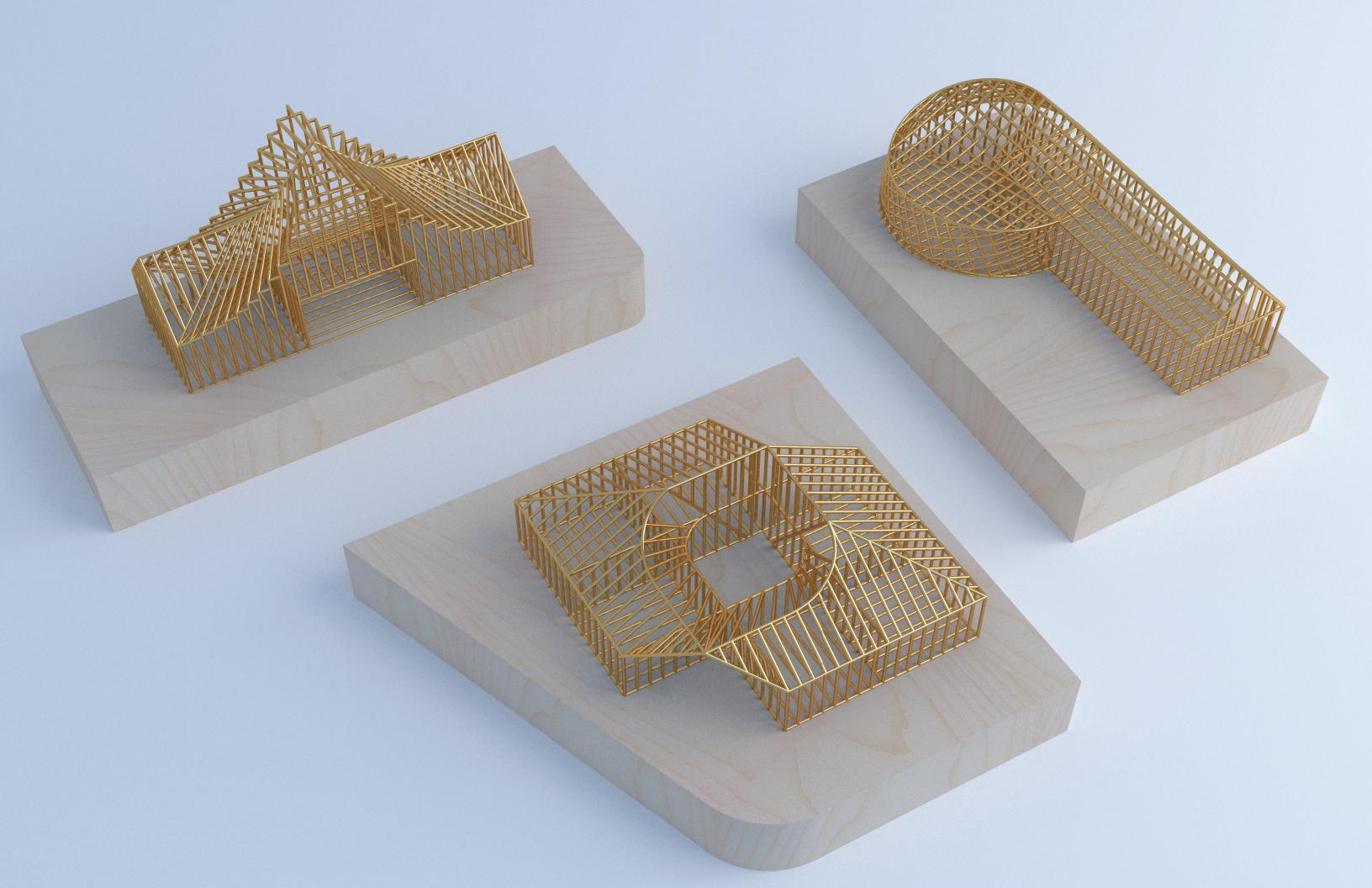












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Image of trompe take from Evans, Robin. 1995. The projective cast: architecture and its three geometries. Cambridge, Mass: MIT Press.

Images of wood framing take from US Pavilion at the 17th International Architecture Exhibition la Biennale di Venezia. American Framing. Accessed May 13, 2021. http://americanframing.org/.

Quote on confluence take from an essay by Nader Tehrani. Tehrani, Nader. 2020. Probable Architectures of Improbable Reason. http://www.nadaaa.com/blog/nader-on-confluence-in-the-work-of-eladio-dieste/

Labor: