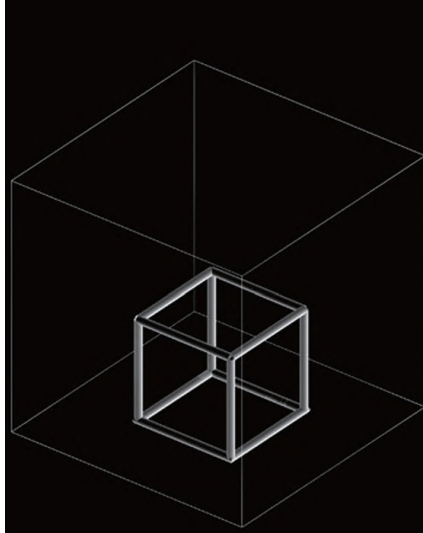


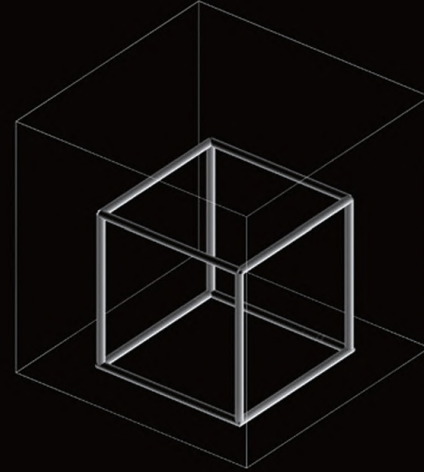
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Jennifer Rozo

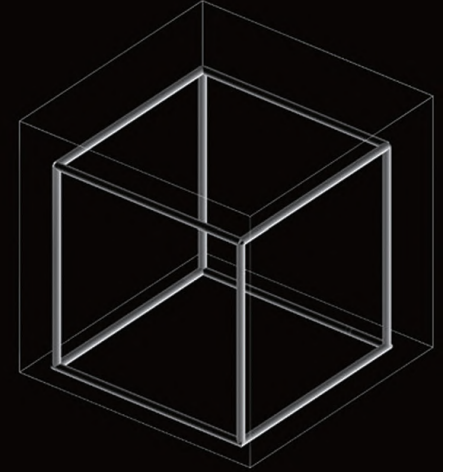
Frankfurt University of Applied Sciences
Master Advanced Architecture
WS | 2021 - 22



SIZE: 4CM*4CM*4CM
CUBE SIZE: 10CM*10CM*10CM
SPIDER TYPE: ASIAN FAWN



SIZE: 6CM*6CM*6CM
CUBE SIZE: 10CM*10CM*10CM
SPIDER TYPE: ASIAN FAWN



SIZE: 6CM*6CM*6CM
CUBE SIZE: 10CM*10CM*10CM
SPIDER TYPE: ASIAN FAWN



TIME: 64 HOURS
NUMBER OF TUBES: 1
LEG SPAN OF SPIDER: 7CM



TIME: 64 HOURS
NUMBER OF TUBES: 5
LEG SPAN OF SPIDER: 7CM



TIME: 64 HOURS
NUMBER OF TUBES: 4
LEG SPAN OF SPIDER: 7CM

Urban Morphogenesis Lab

The Spider

Extended spatio-temporalities of silk-based tube web 2017/2018

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Research - Inspiration



Numen / ForUse

Tape Melbourne
Federation Square 13. - 24.09.2011

Source: <http://www.numen.eu/installations/tape/melbourne/>

DIGITAL | ANALOG
Research - Inspiration



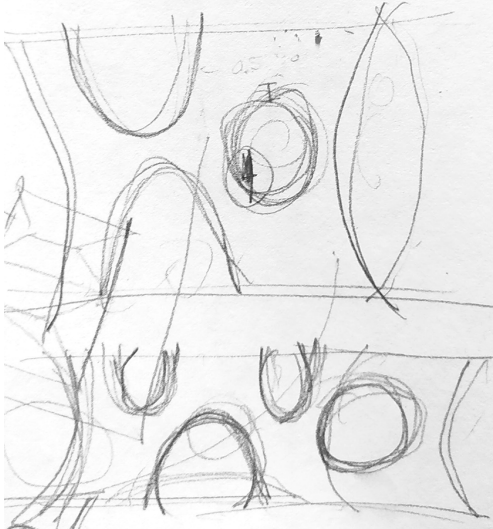
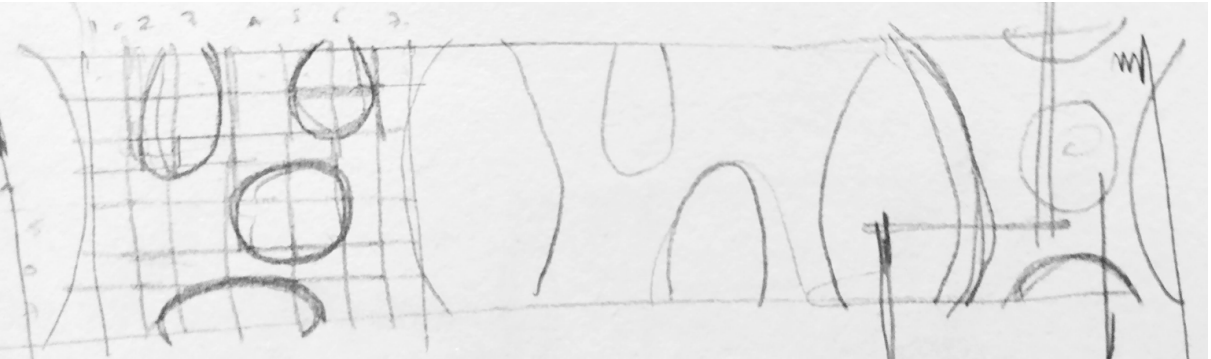
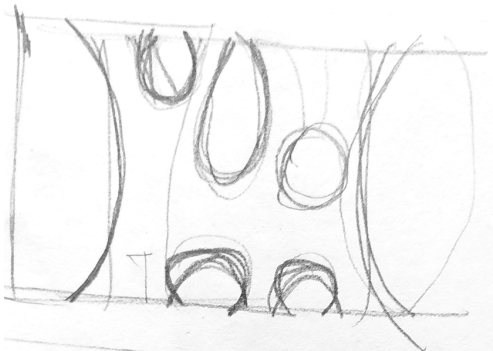
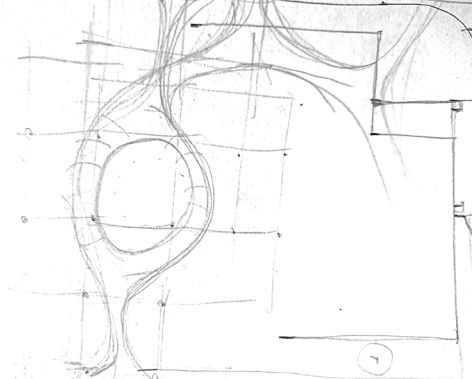
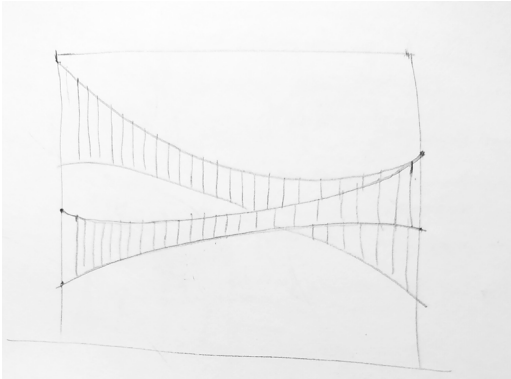
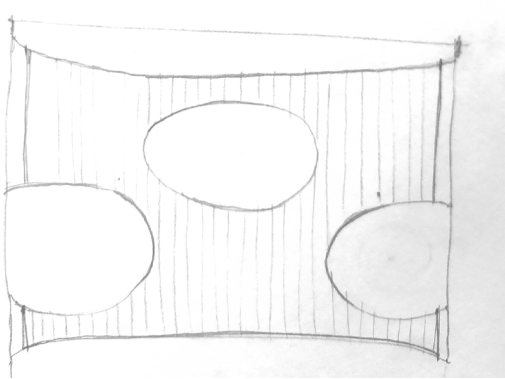
Numen / ForUse

Tube Merano
Art & Nature, Walking with Senses 24.03. – 05.06.2016.,
South Tyrol, Italy

Source: <http://www.numen.eu/installations/tube/merano/>

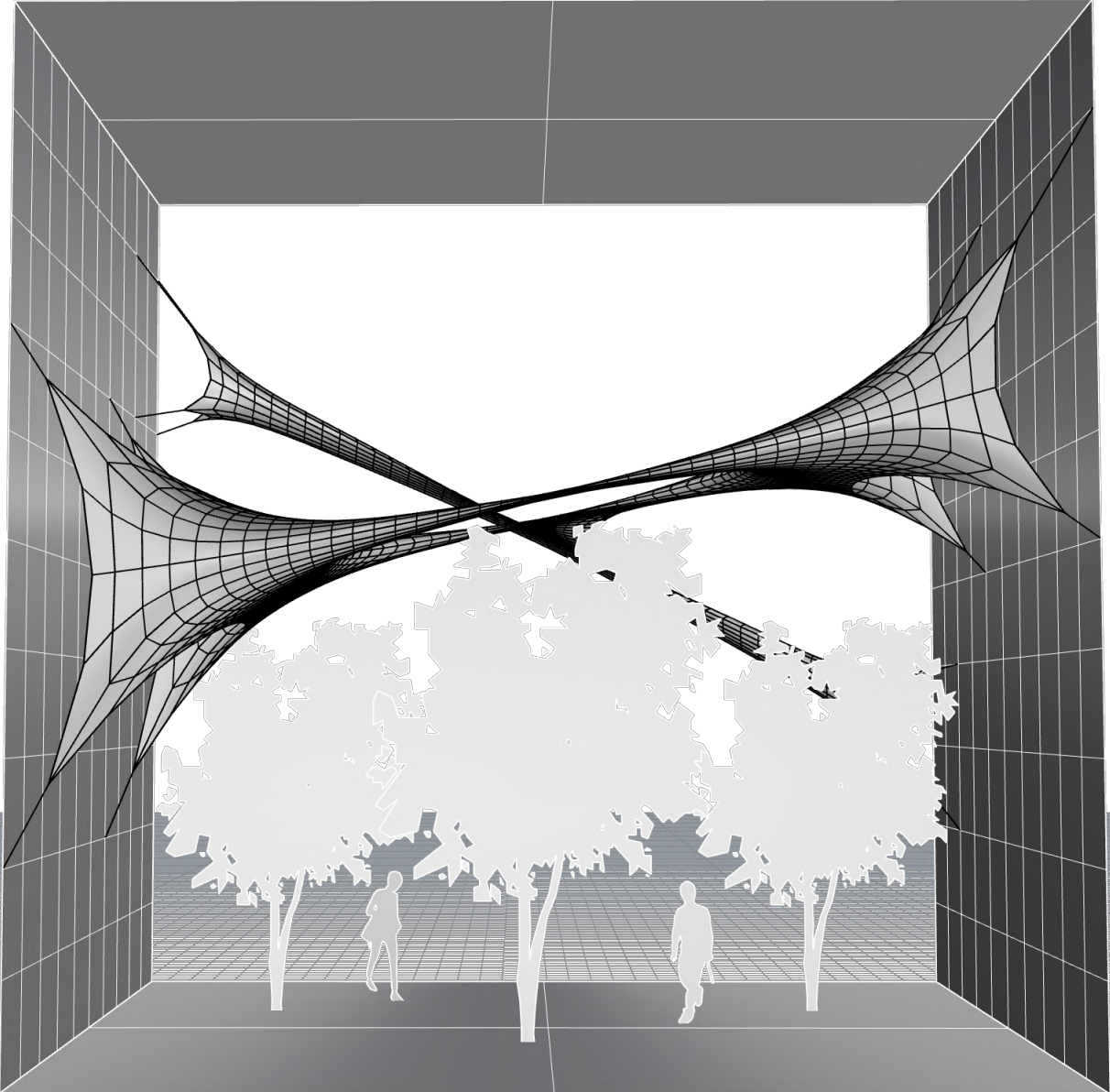
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Research - Sketches



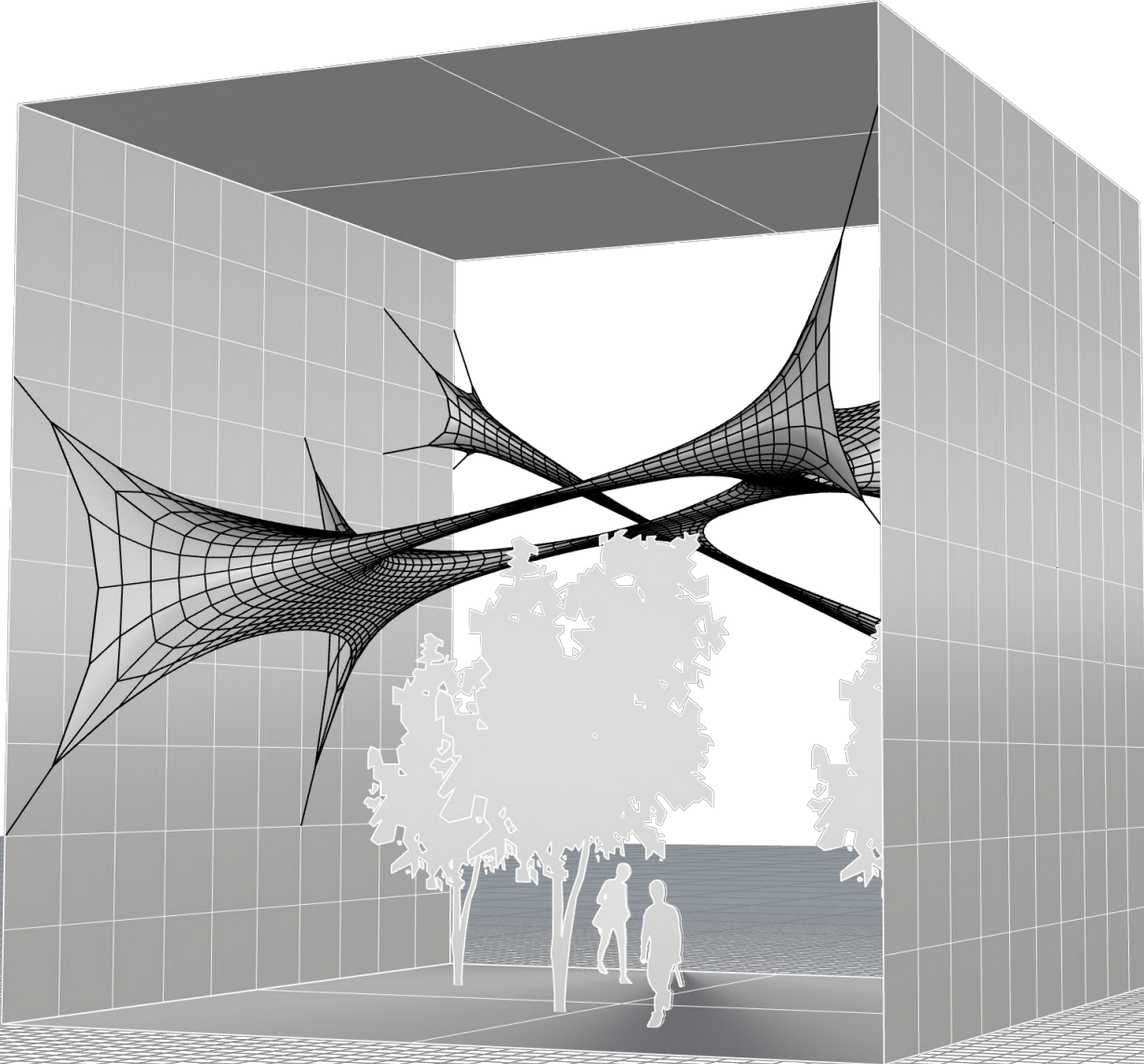
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Digital Model



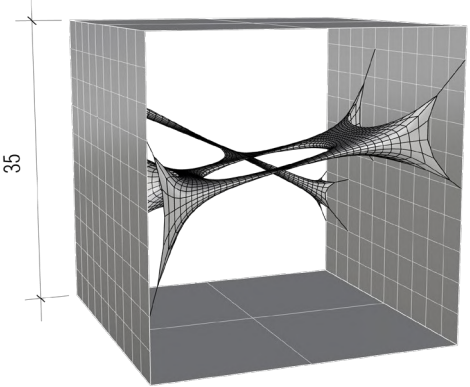
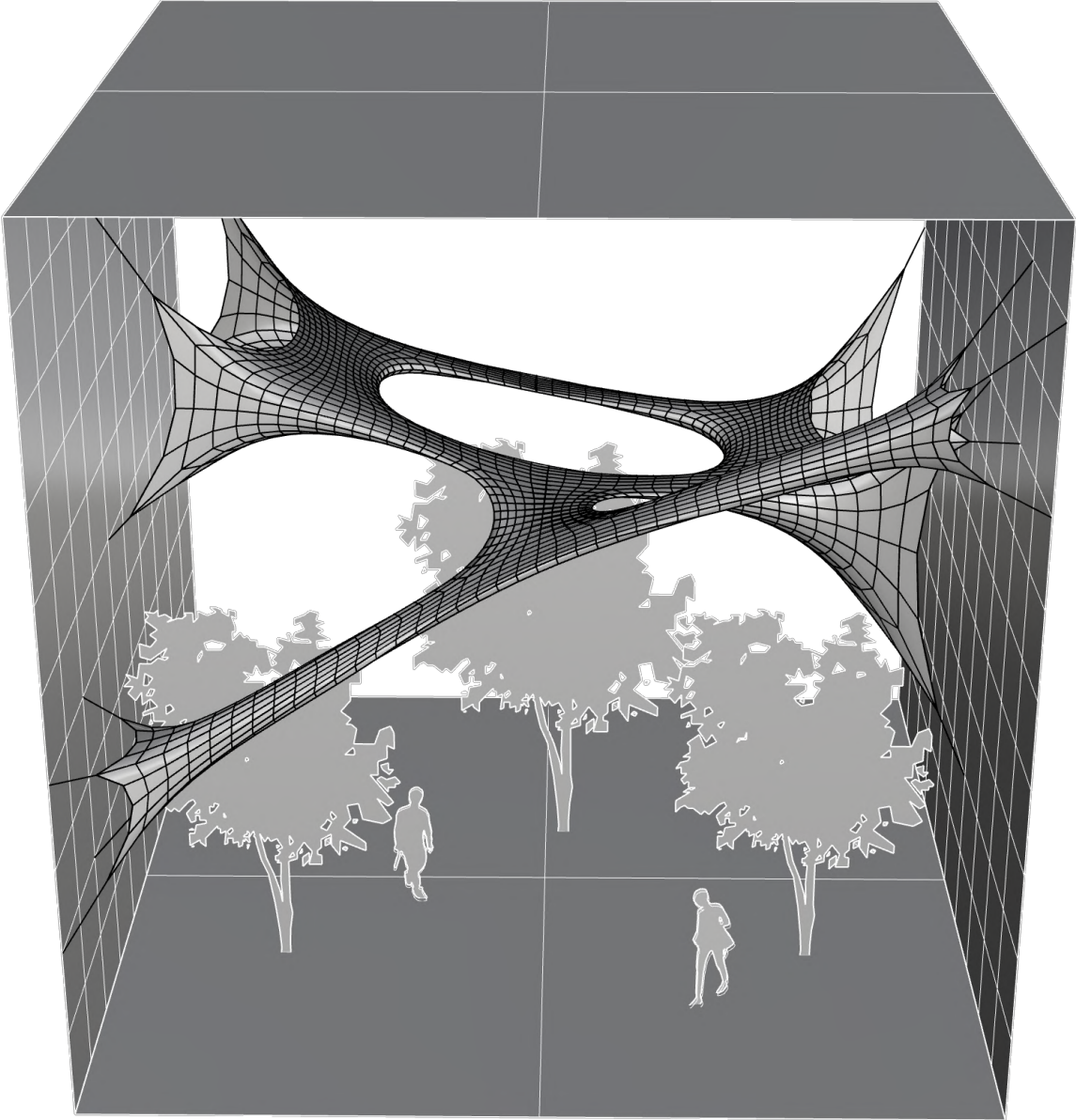
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Digital Model



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Digital Model



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Physical Model



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Physical Model



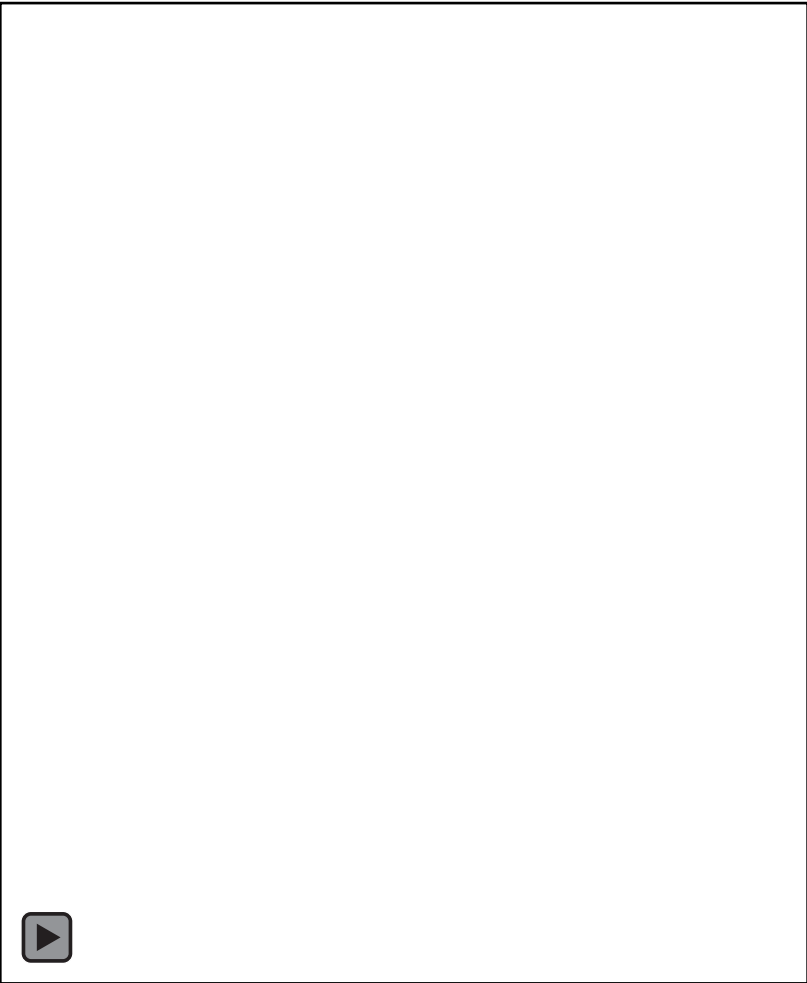
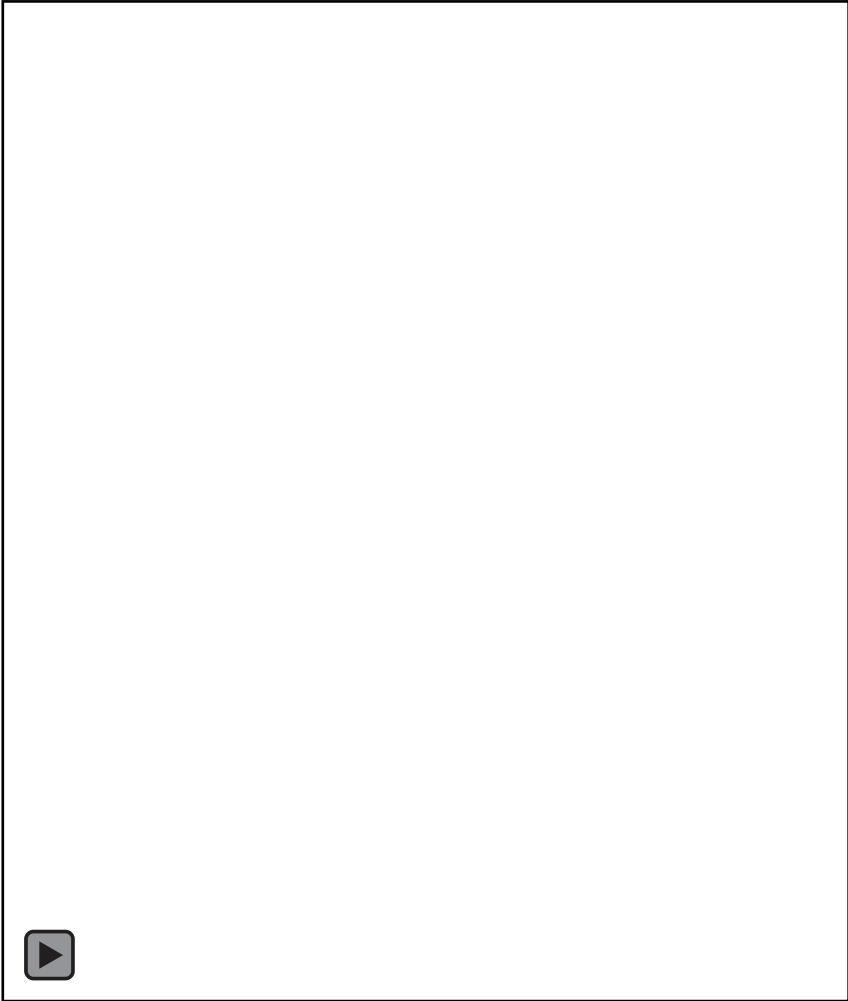
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Physical Model



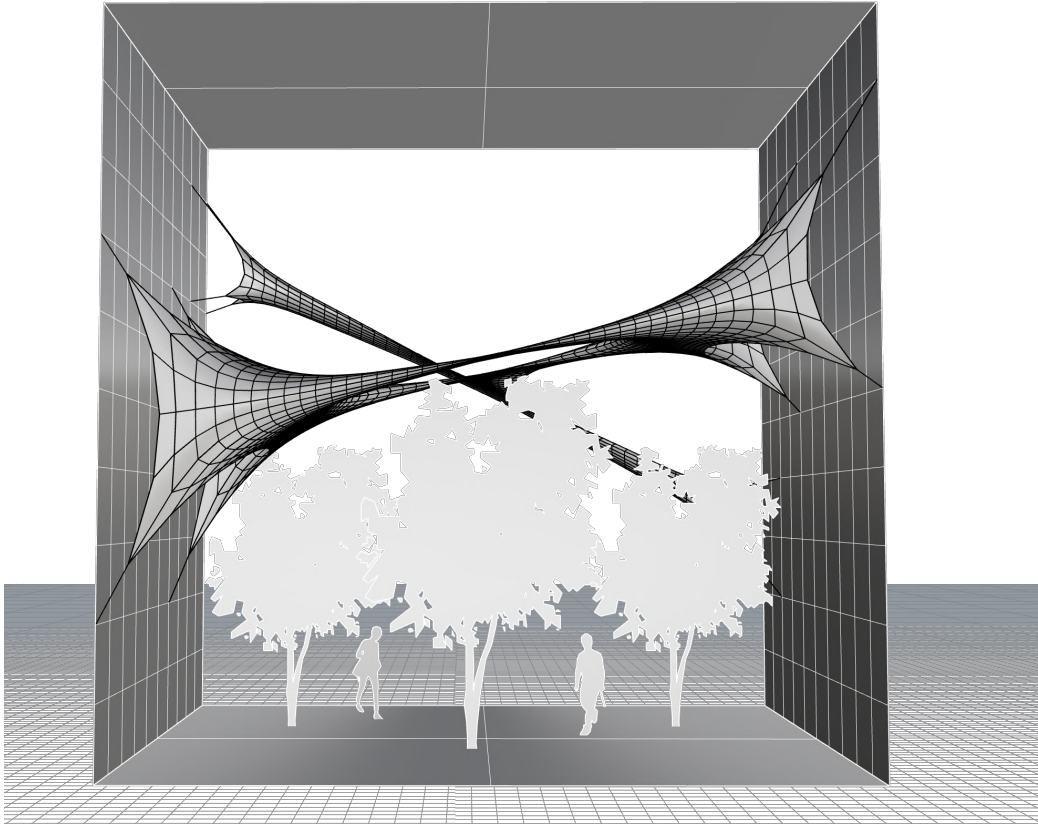
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Physical Model



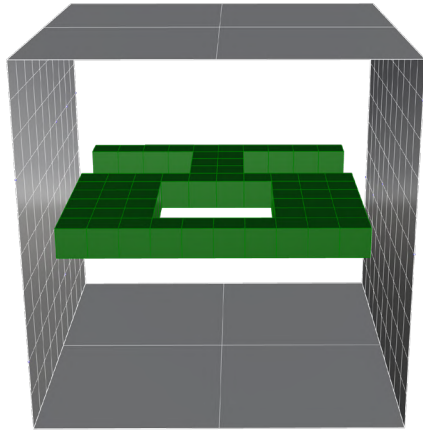
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Model Comparison

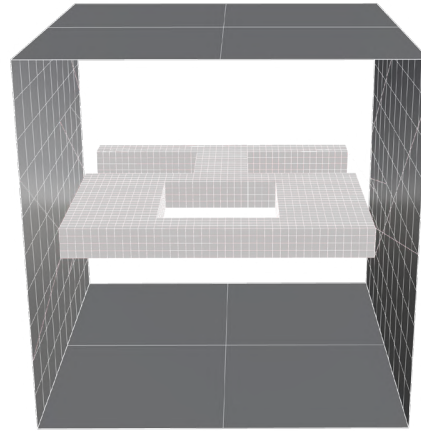


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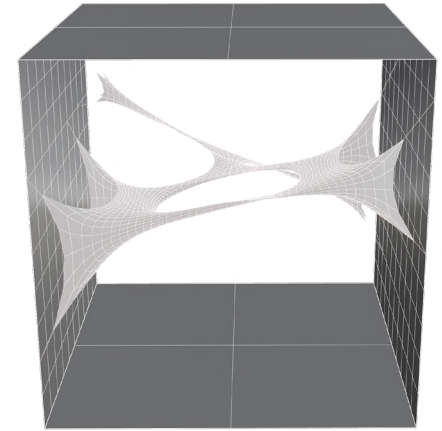
Digital model process



Rhino volume to mesh



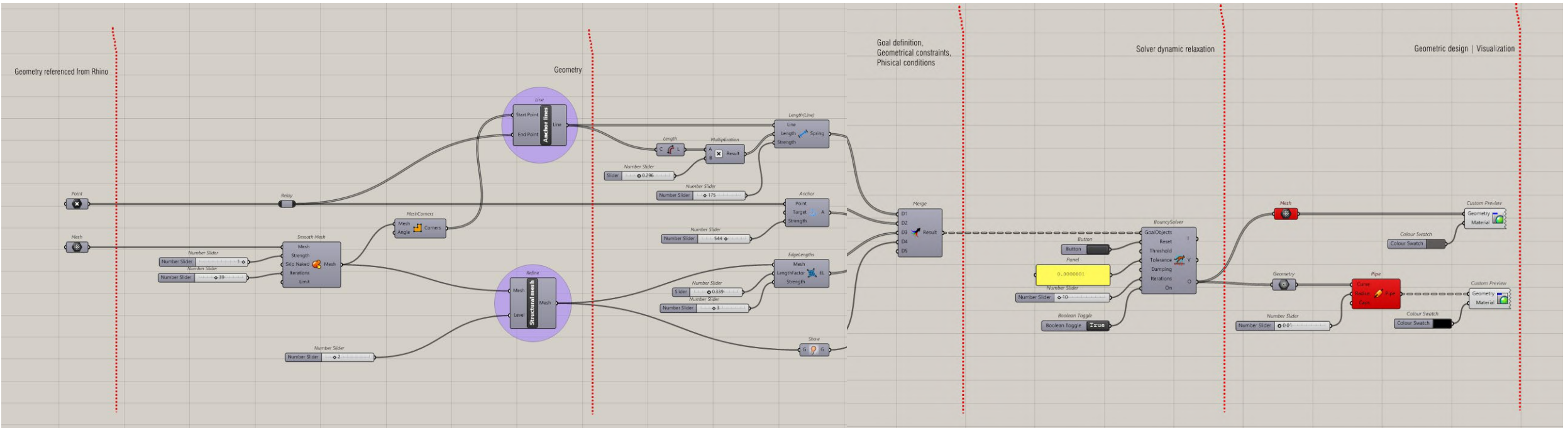
Anchor point to base geometry



Kangaroo solver simulation

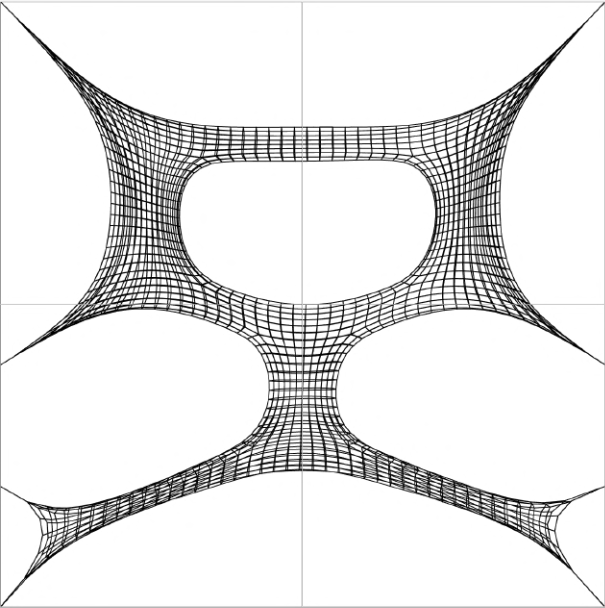
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Grasshopper definition

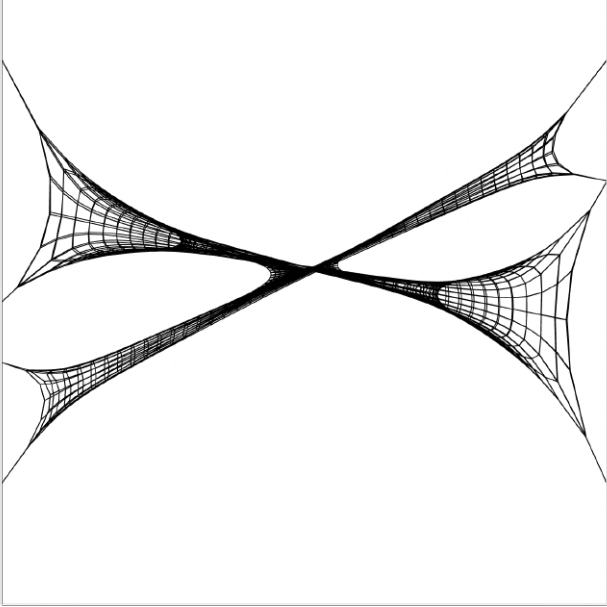


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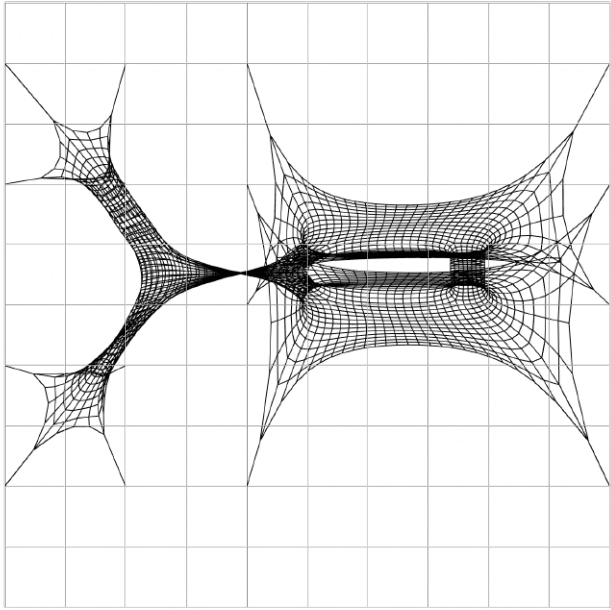
Digital model process



Top view



Front view



Side view