

PYTHON

Pavilion

Final Presentation

Dessau 1st February 2018

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Studio X

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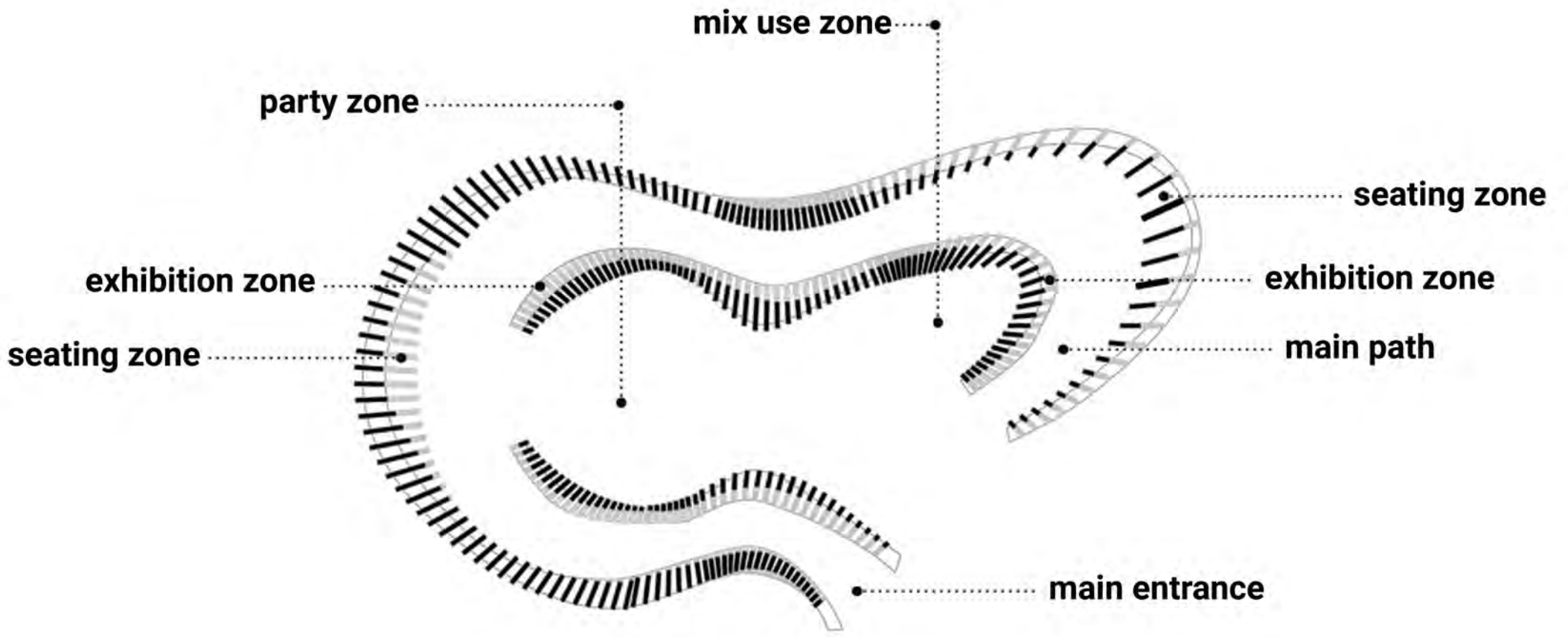


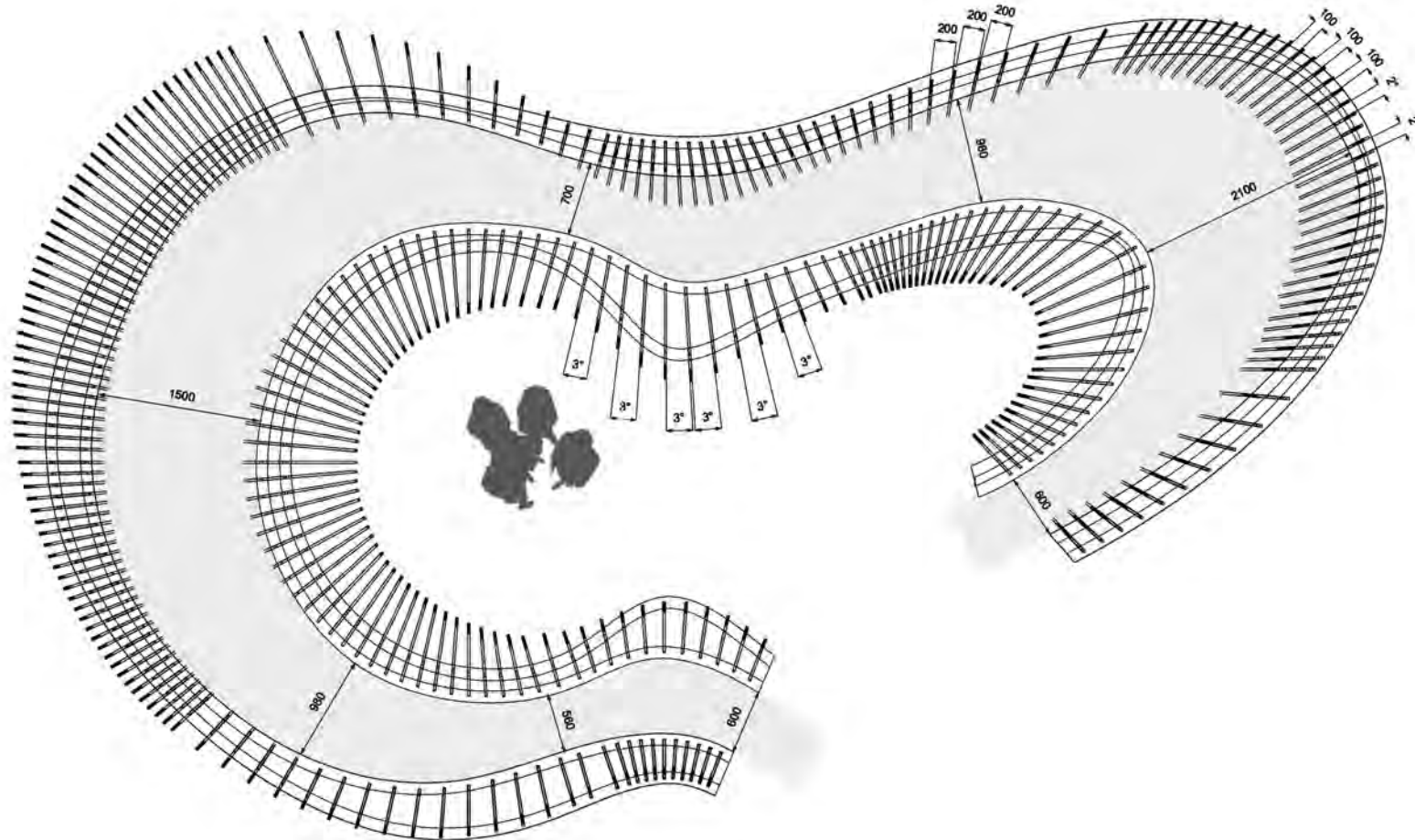
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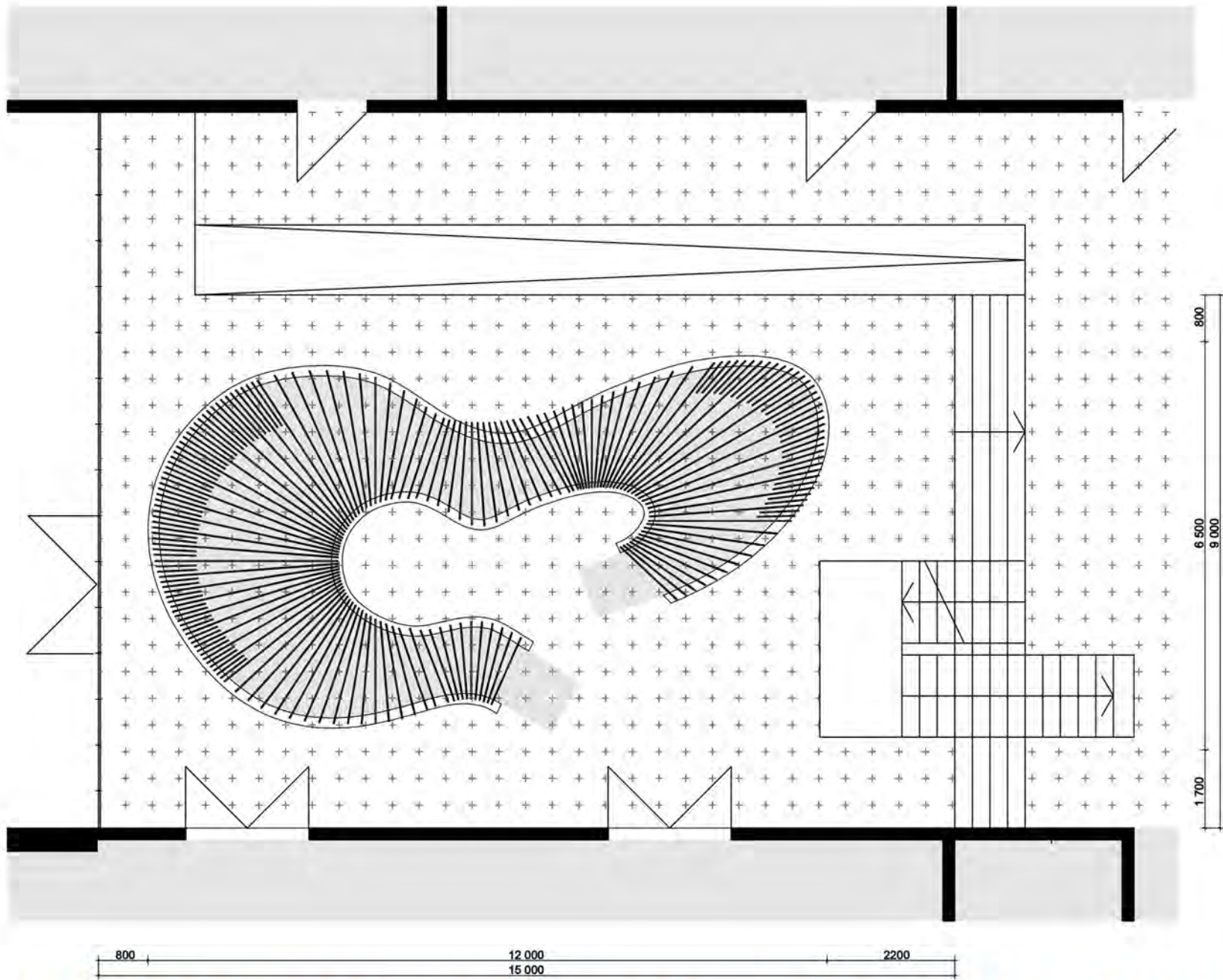
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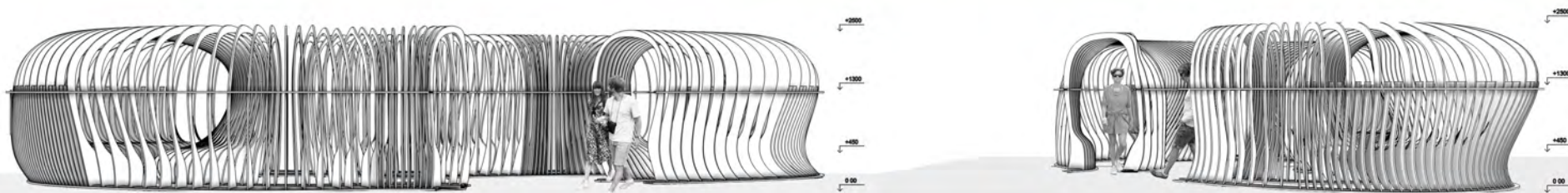
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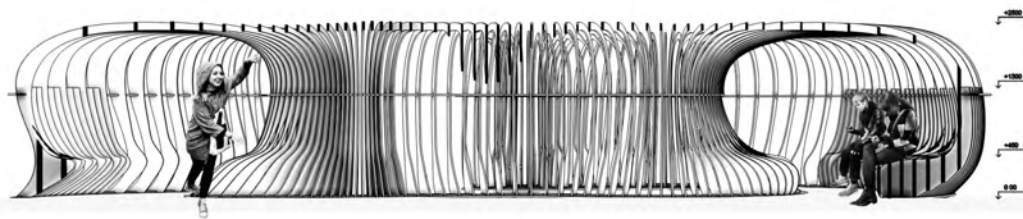


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create 7 curves defines the structure outline



divide each curves to equal number of small parts of curves



define the curvature center for each small curves in the curve



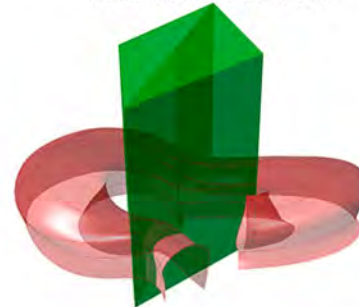
define the average centers for each part for the overall curves



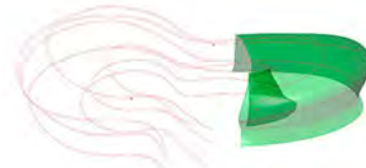
connect between each center to breack every curves to 4 parts



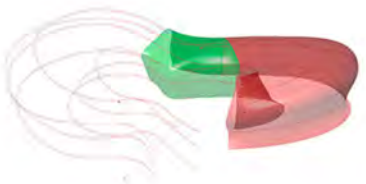
after rebuilding the curves, we loft them



extruding center's volume to divide the original surface



divide the surface to 4 parts to cut it separately by it's own center



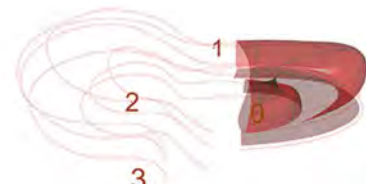
second part



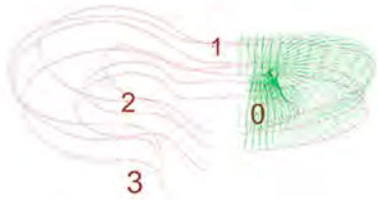
third part



fourth part

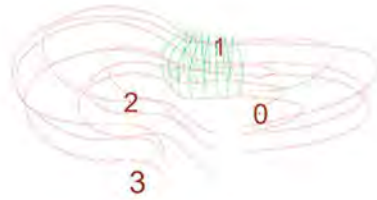


start to making sections in every part from it's own center



making interior and exterior surface for part 01

+



making interior and exterior surface for part 02

+

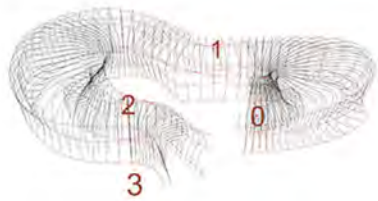


making interior and exterior surface for part 03

+



making interior and exterior surface for part 04



joining every part section to generate all the surface sections

+



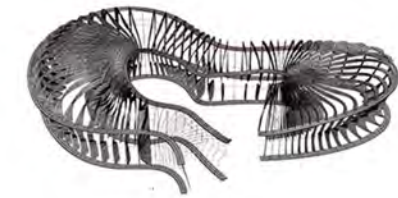
extruding horizontal ground section to fixing vertical sections

+

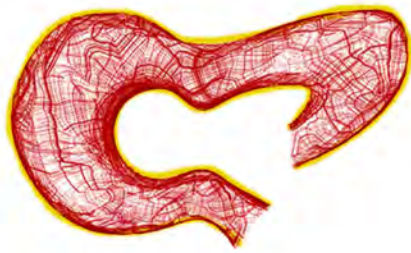


extruding horizontal upper section to fixing vertical sections

+



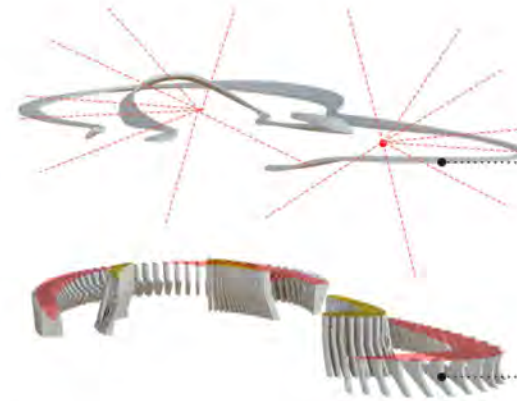
making difference between vertical and horizontal sections



distribution of loads in plan



distribution of loads in sections



upper horizontal section



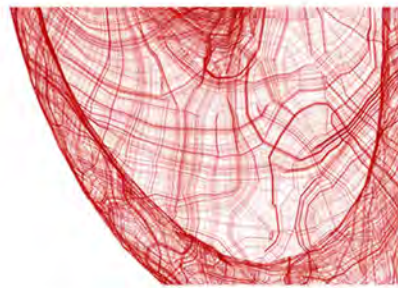
distribution of loads for upper sections



distribution of loads for front side



seating and exhibition



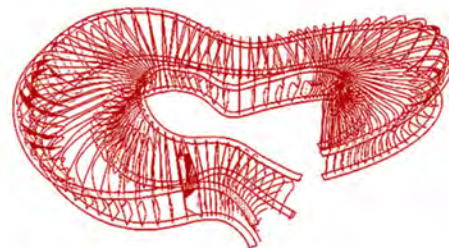
loads distribution on the inner surface



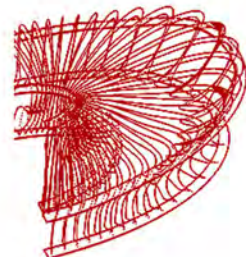
loads distribution on outer surface



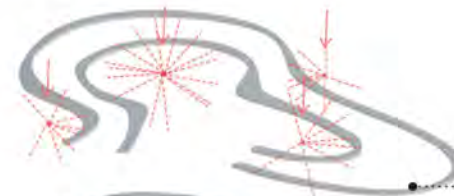
vertical sections



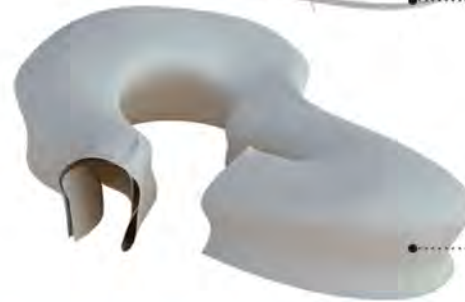
loads distribution on sections



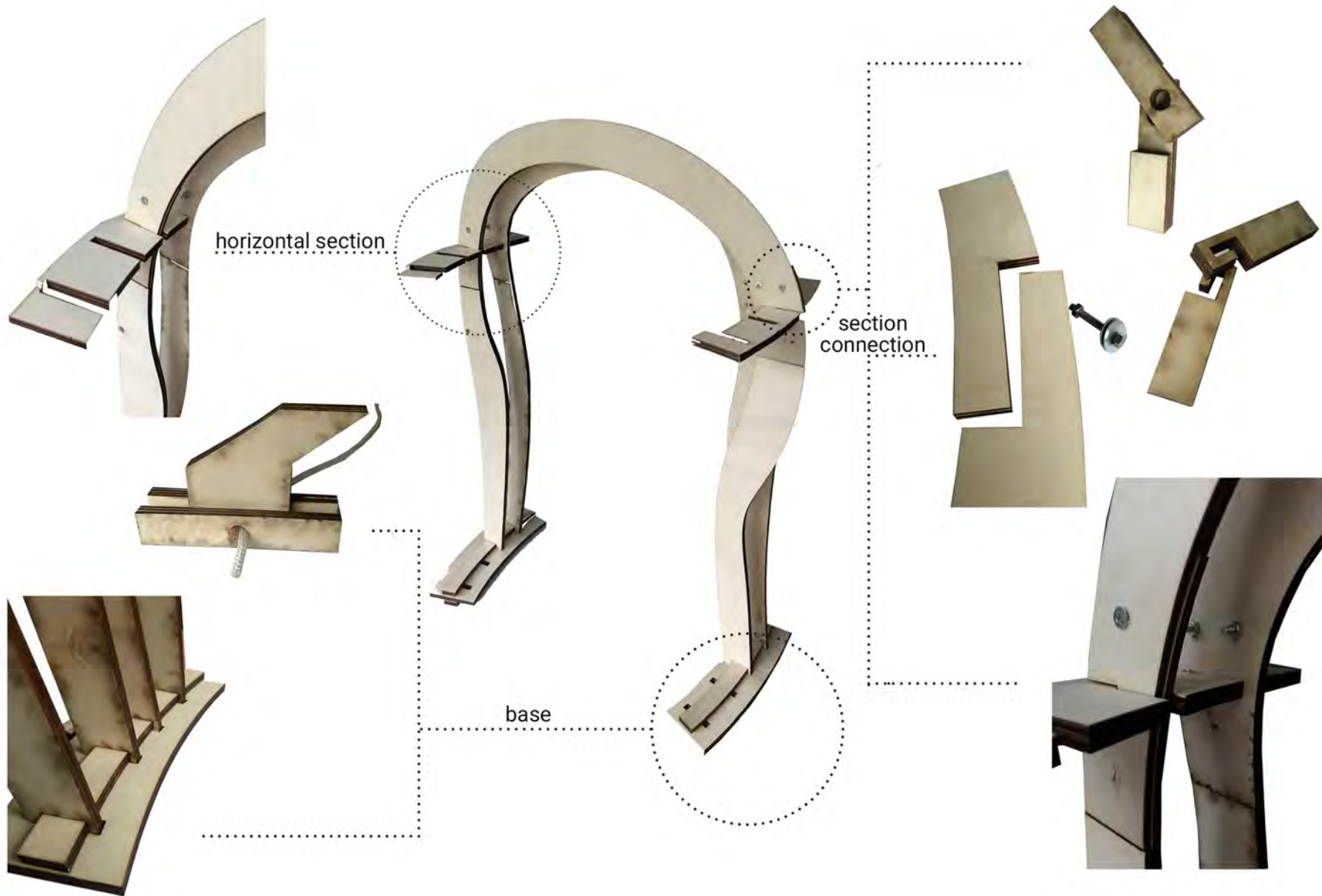
loads distribution on outer sections



main horizontal sections



main surface





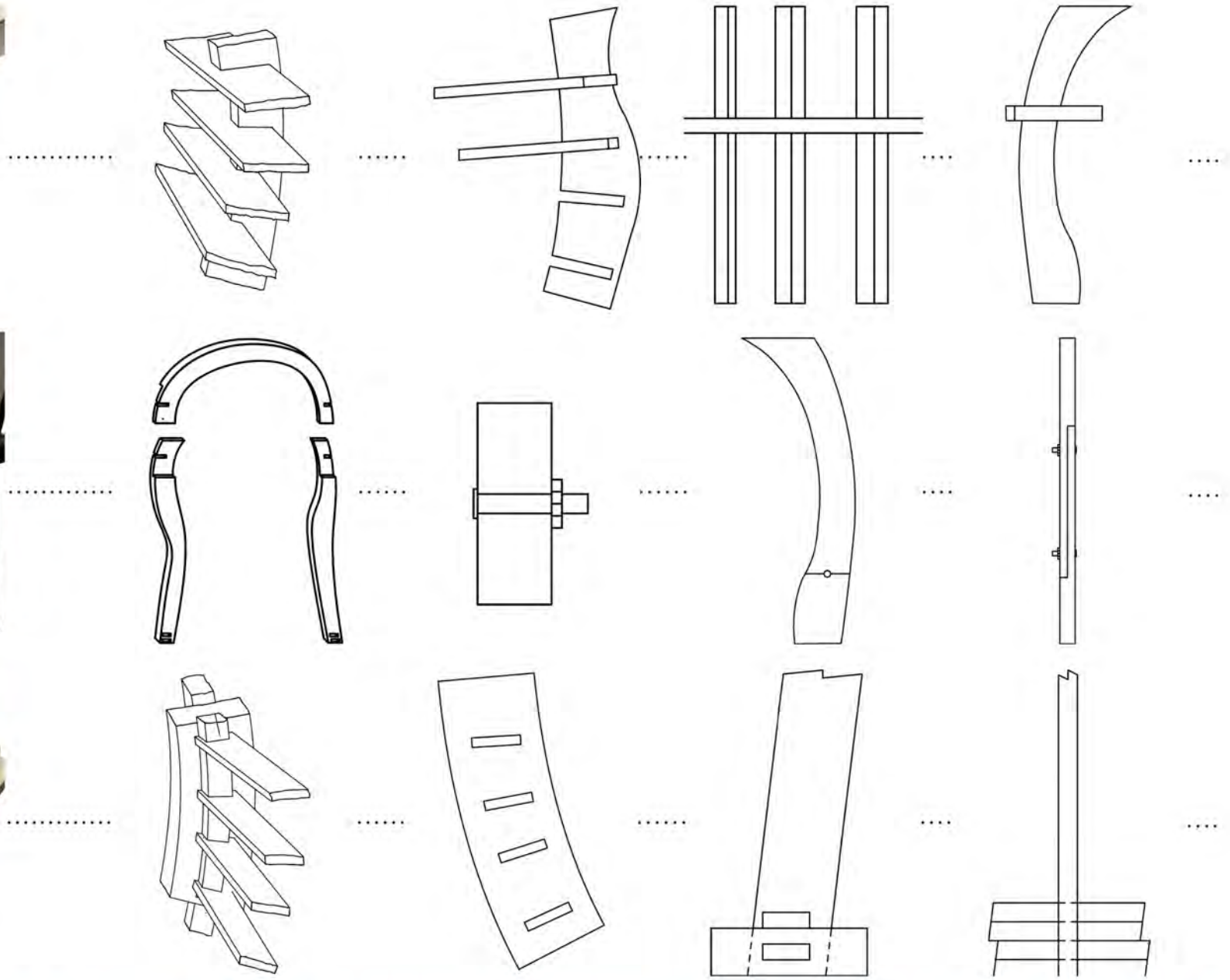
horizontal section



section connection



base



THANKS FOR WATCHING