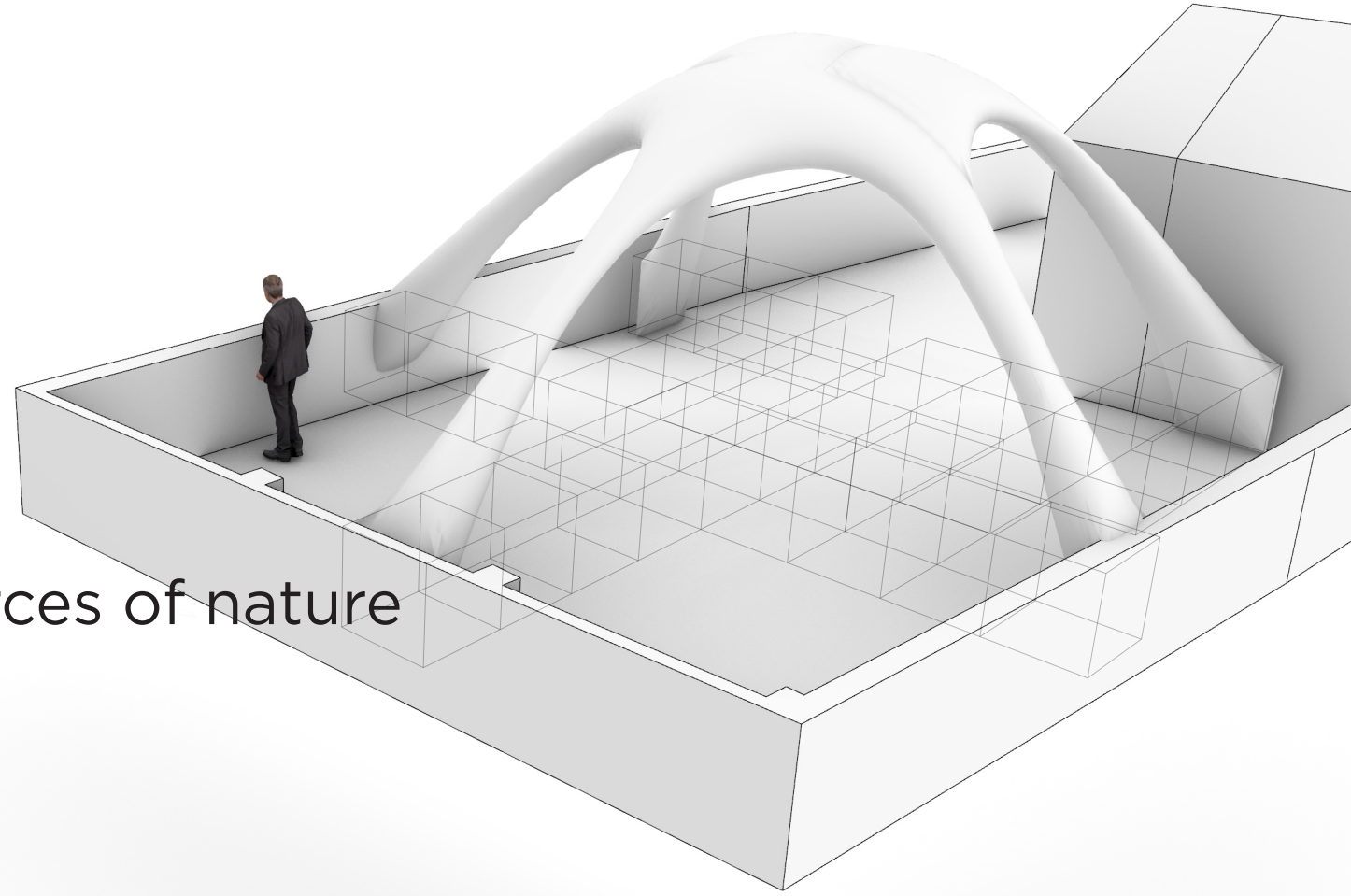
Institute for advanced architecture of Catalonia

MASTER IN ADVANCED ARCHITECTURE
SO.3 COMPUTATIONAL DESIGN
2017/2018

TUTORS: RODRIGO AGUIRRE, ALDO SOLLAZZO



ASSIGNMENT 4: Forces of nature

M.Amin / Ziaie Bigdeli

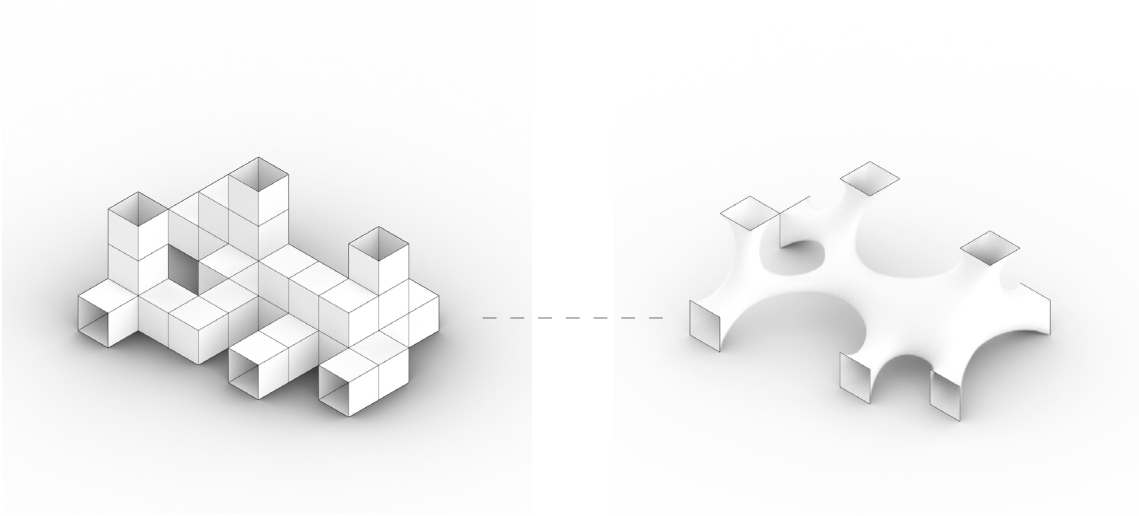
*The aim of this project is to create a tensile structure on rooftop of iaac. The aim is to **create a game** that by putting boxes in rhino model you can create a variety of models . the aim is to create tensile **connections to each opening.***

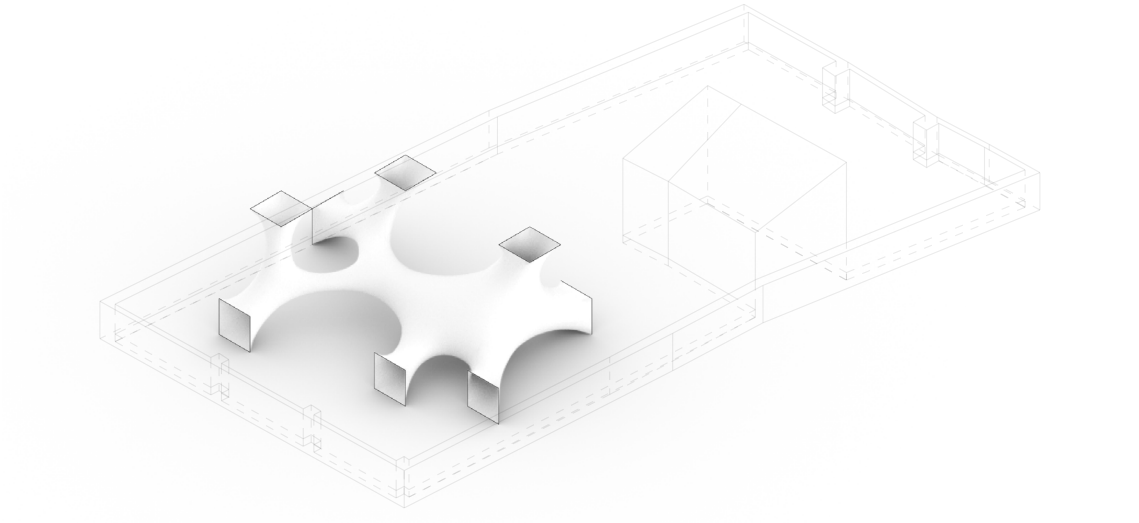


Zaha Hadid Plastika at Moore building,Miami

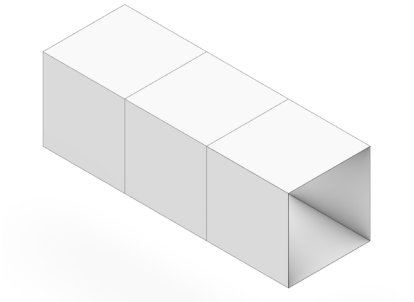


Theverymany Under Stress, France, 2014





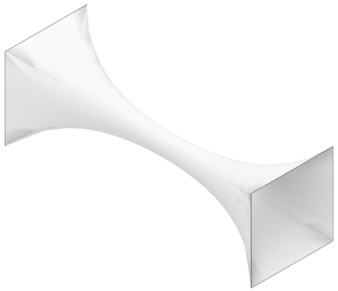
Catalouge of Experiments with change of morphology and rules



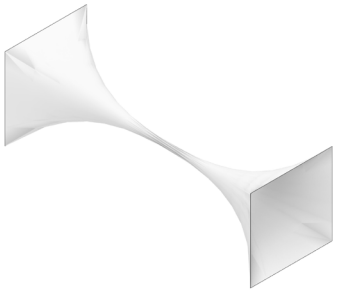
3 Boxes with 2 oppnings



3 Boxes with 2 oppning
Mesh edge Length Factor= 0.7



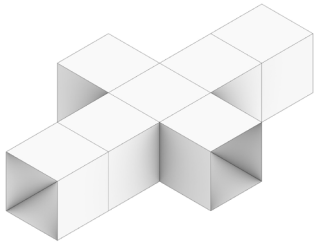
3 Boxes with 2 oppning
Mesh edge Length Factor = 0



3 Boxes with 2 oppning
Mesh edge Length Factor = 0
Soap Film



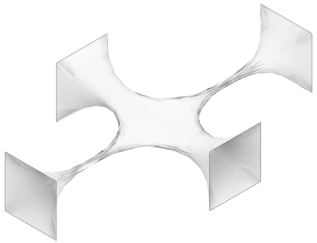
3 Boxes with 2 oppning
Mesh edge Length Factor = 0
Pressure = 17



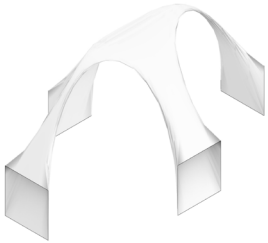
7 Boxes with 4 oppnings



7 Boxes with 4 oppning
Mesh edge Length Factor= 0.7



7 Boxes with 4 oppning
Mesh edge Length Factor= 0.7
Soap Film



7 Boxes with 4 oppning
Mesh edge Length Factor= 0
Point Load = 0.7

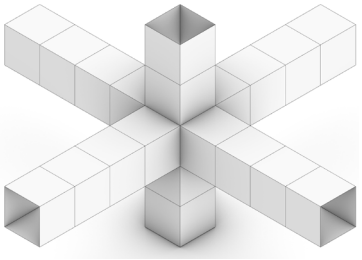


7 Boxes with 4 oppning
Mesh edge Length Factor= 0
Point Load = 0.7
Pressure=16

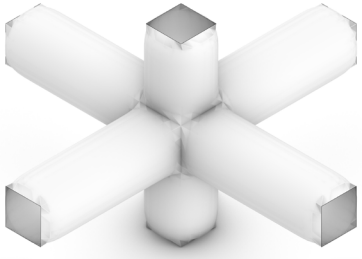


7 Boxes with 4 oppning
Mesh edge Length Factor= 0
Point Load = 0.7
Pressure=16
X&Y Wind = 36

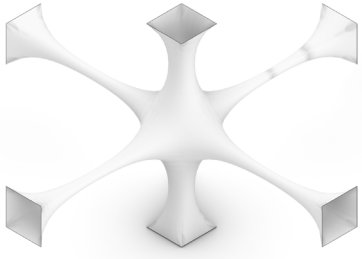
Catalouge of Experiments with change of morphology and rules



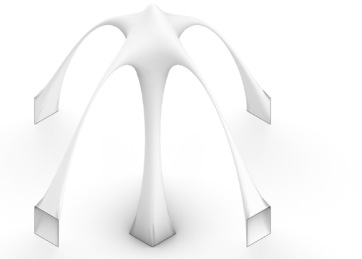
21 Boxes with 6 oppnings



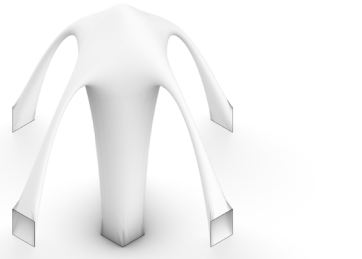
21 Boxes with 6 oppnings
Mesh edge Length Factor= 1
Pressure=3



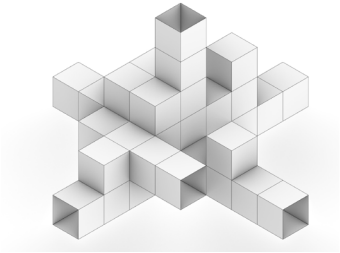
21 Boxes with 6 oppnings
Mesh edge Length Factor=0
Pont Load =



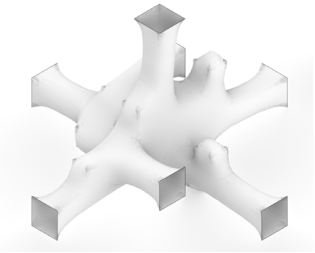
21 Boxes with ***5*** oppnings
Mesh edge Length Factor= 1
Pressure=3



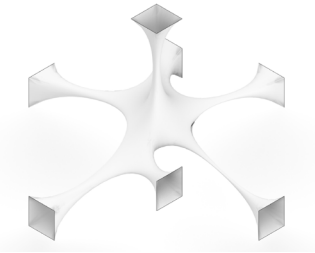
3 Boxes with 2 oppning
Mesh edge Length Factor = 0
Pressure = 17



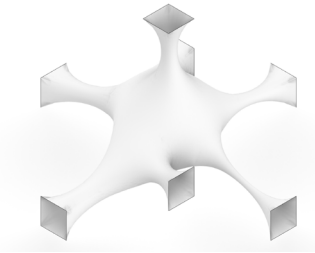
7 Boxes with 4 oppnings



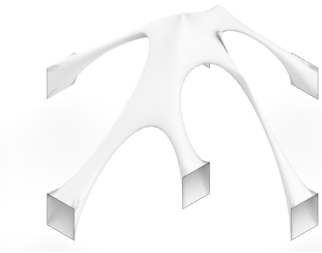
7 Boxes with 4 oppning
Mesh edge Length Factor= 0.7



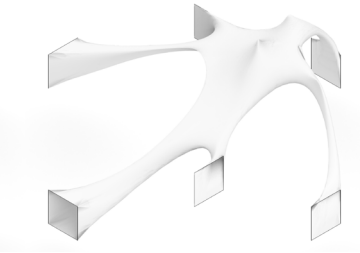
7 Boxes with 4 oppning
Mesh edge Length Factor= 0.7
Soap Film



7 Boxes with 4 oppning
Mesh edge Length Factor= 0
Point Load = 0.7

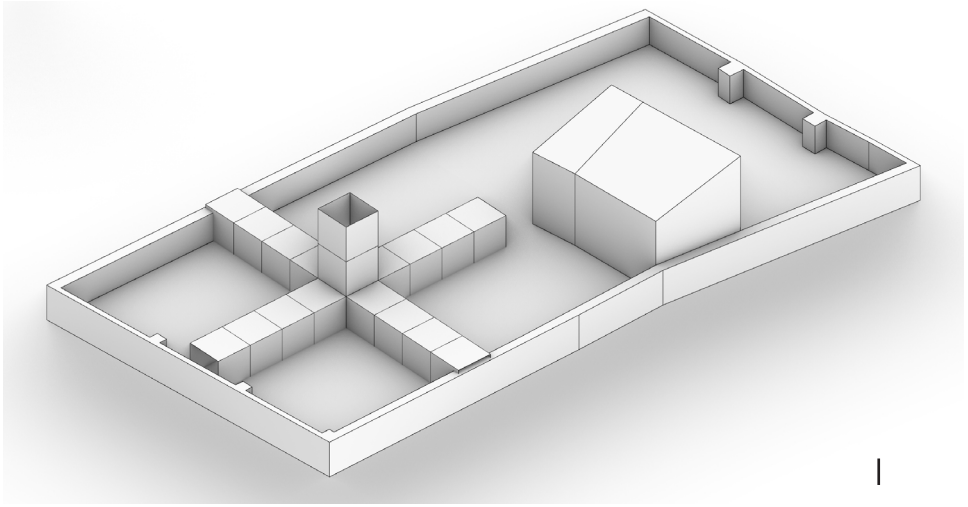


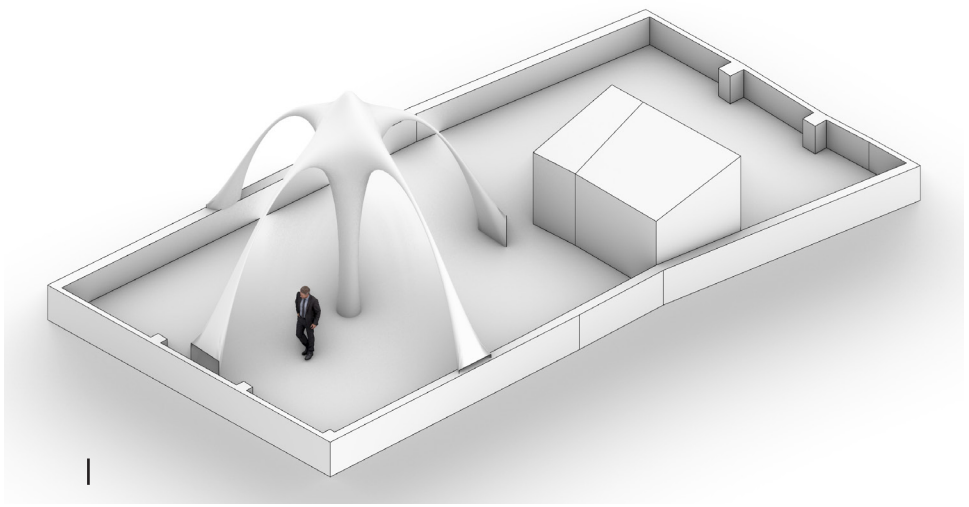
7 Boxes with 4 oppning
Mesh edge Length Factor= 0
Point Load = 0.7
Pressure=16



7 Boxes with 4 oppning
Mesh edge Length Factor= 0
Point Load = 0.7
Pressure=16
X&Y Wind = 36

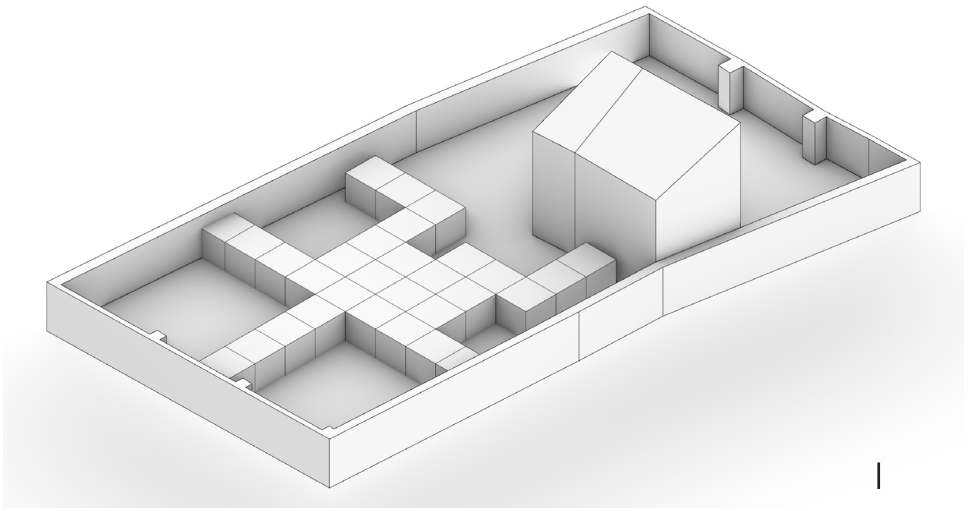
Further Experiments on Rooftop of Iaac

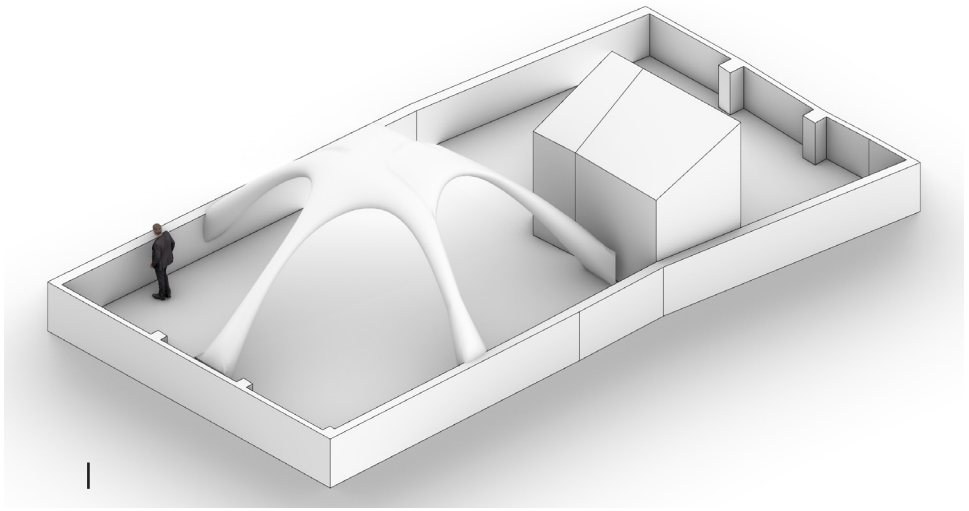




Mesh edge Length Factor= 0
Point Load = 0.7
Pressure=0
Mesh smooth
Soap Film

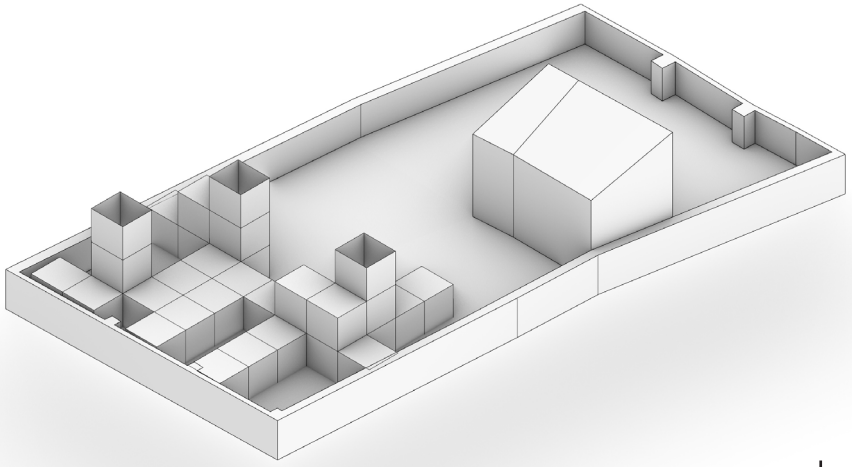
Further Experiments on Rooftop of Iaac

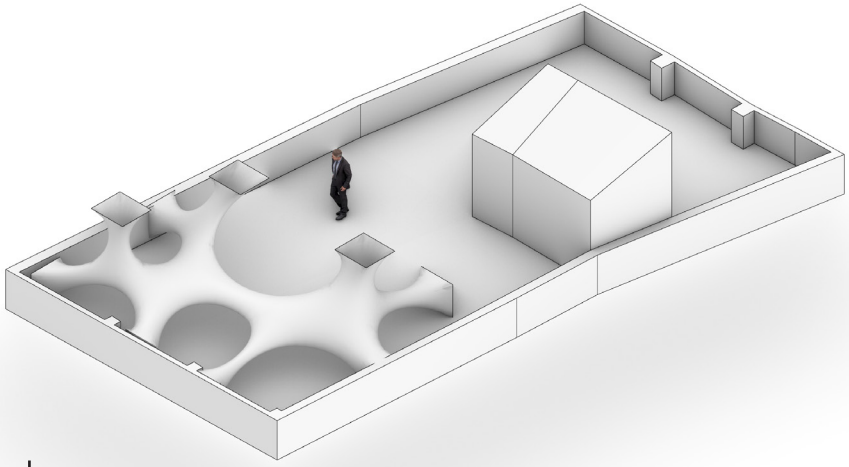




Mesh edge Length Factor= 0
Point Load = 0.7
Pressure=16
Mesh smooth
Soap Film

Further Experiments on Rooftop of Iaac





Mesh edge Length Factor= 0
Point Load = 0
Pressure=16
Mesh smooth
Soap Film