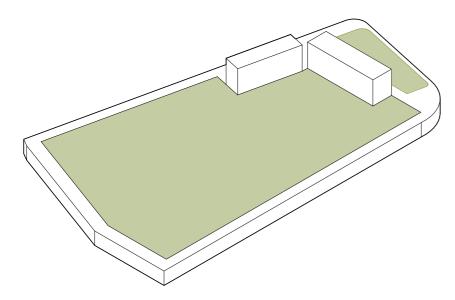
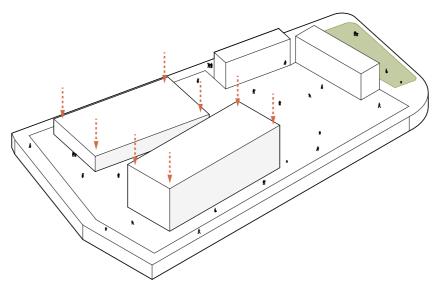
## **MASS GENERATION**



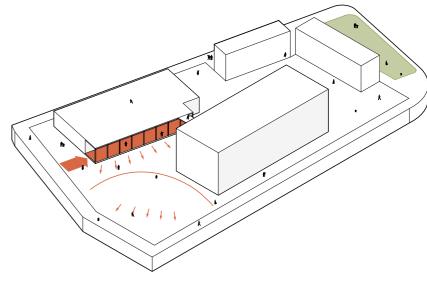
### **CHOOSE SITE**

Choose a suitable site in the community, which is close to the citizens and also close to the garbage station in the area.



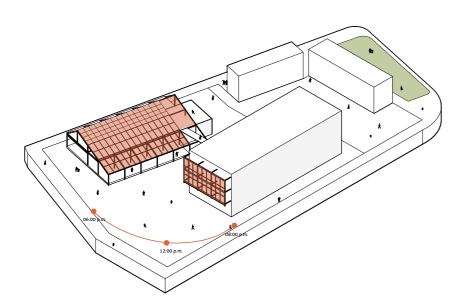
### **SEPARATE MASS**

Since the renovation of the post-war residence will end at any time, the material recycling center and the activity center are divided into two volumes.



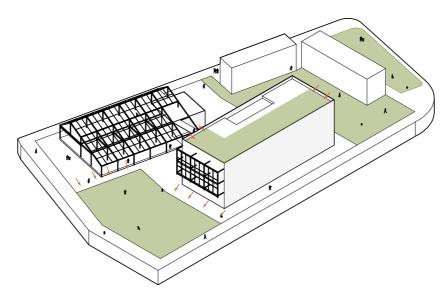
### **OUTSIDE SPACE**

What is offered to the public should not only be a good indoor space, but also a good outdoor space. So a block is set back to form an outdoor activity space.



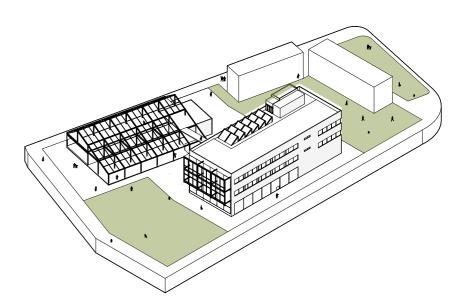
### **SECONDARY FACADE**

A second façade is placed on the south side of the building for shading. Materials collected from the post-war buildings will be placed here for shading.



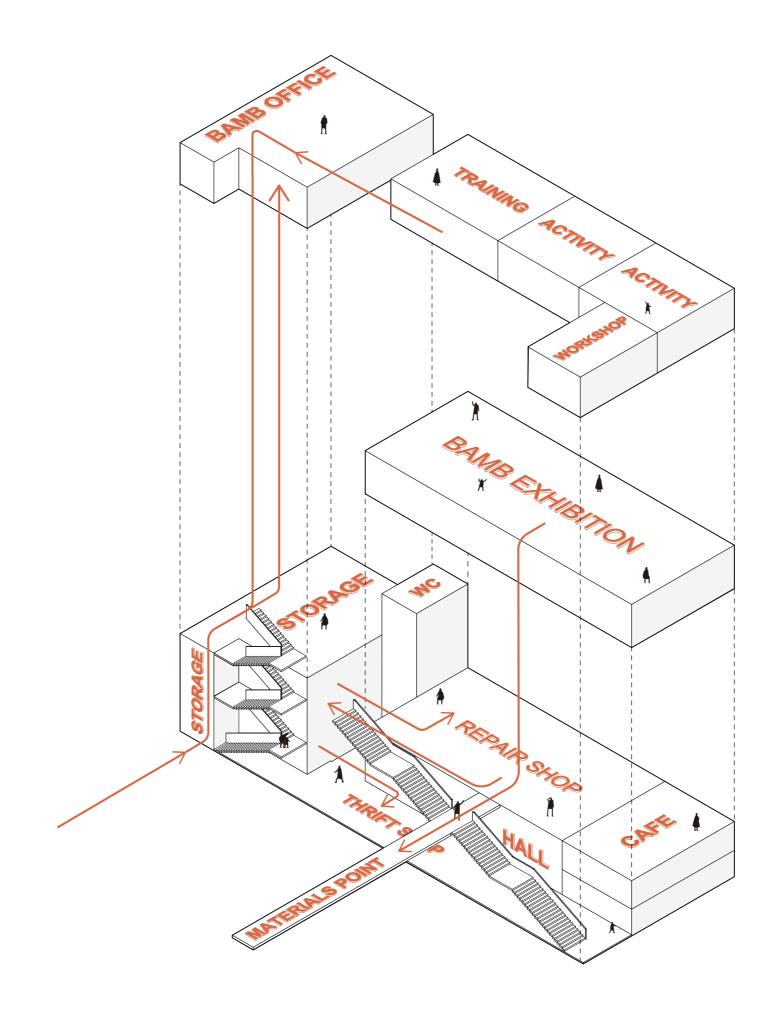
### **MORE GREENLAND**

Green space is placed in the front plaza of the building and on the roof to maximize the greenery of the site.

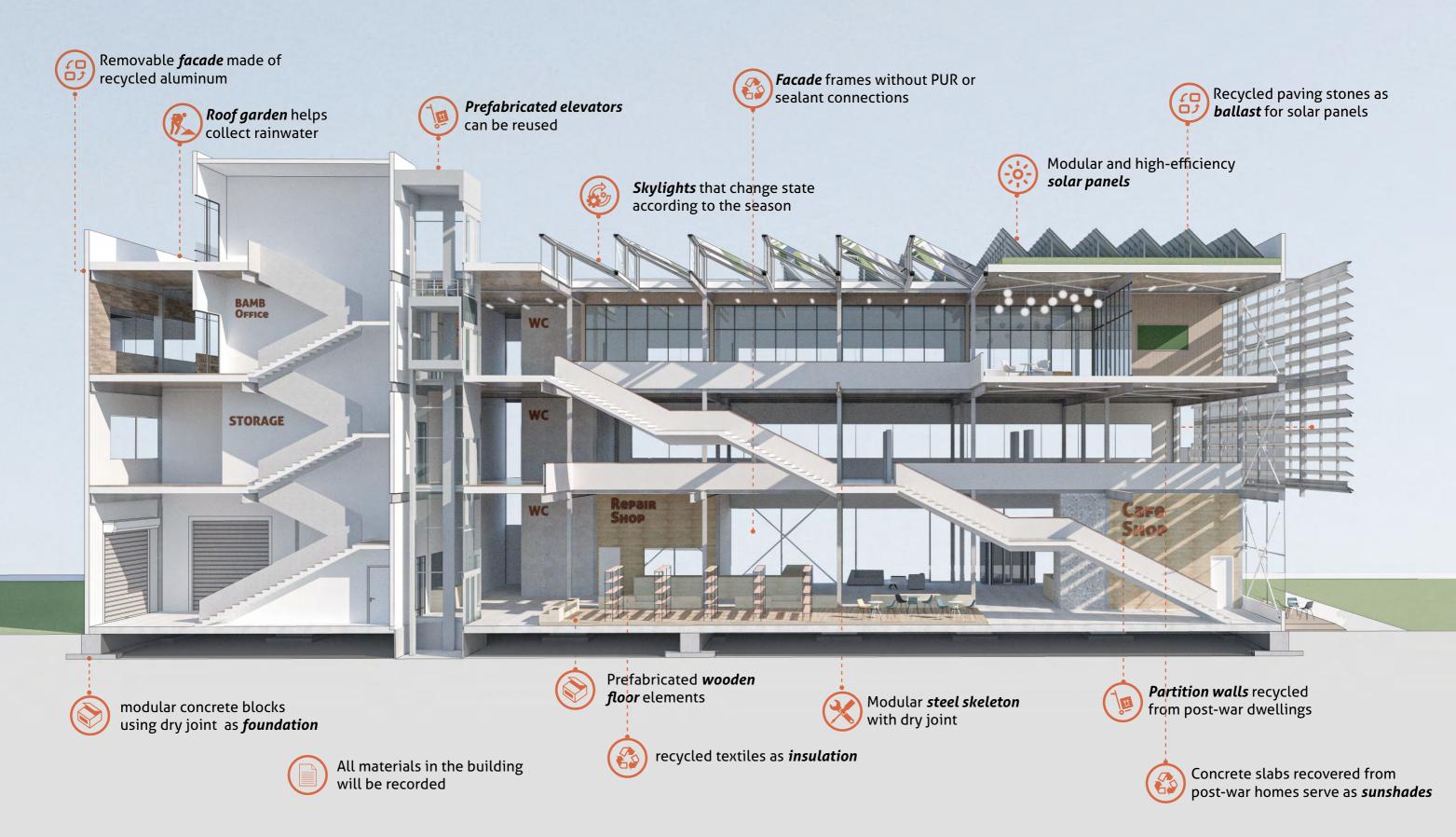


**FINISHED** 

## **PROGRAM**

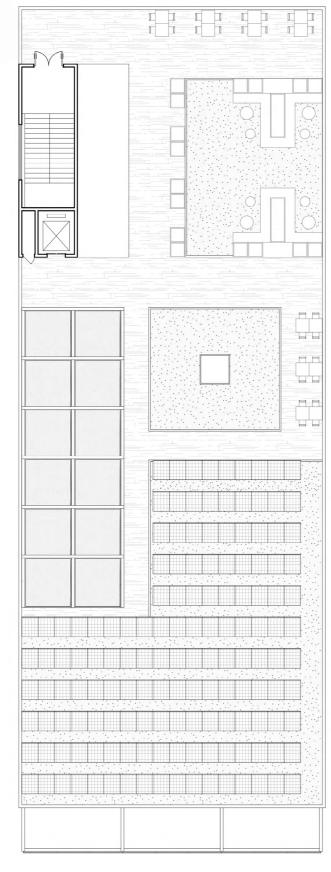


## **CIRCULARITY STATEGY**



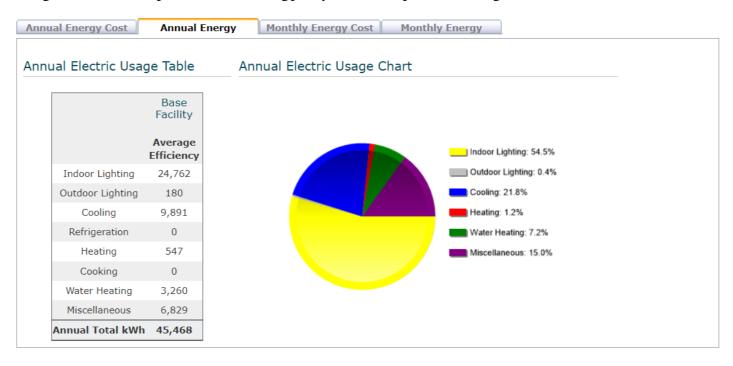
### **ENERGY CAUCULATION**





#### **ROOF GARDEN**

### Rough calculation of the annual energy requirement of the building



Calculate the number of solar panels needed based on the annual energy requirement

You need 152 modules to provide your electricity demand!

Your PV system contains 152 solar panels. This number was estimated based on your yearly electricity demand of 45468 kWh. It is calculated that there fit

187 solar panels at your location.

Installed capacity

45.5 kWp

Yearly electricity use

Not specified

Available area

340m²

17m x 20m

187 modules

Required field area	272 m <sup>2</sup>
Required ground area	176 m <sup>2</sup>
Required active area	249 m <sup>2</sup>
GCR	0.65

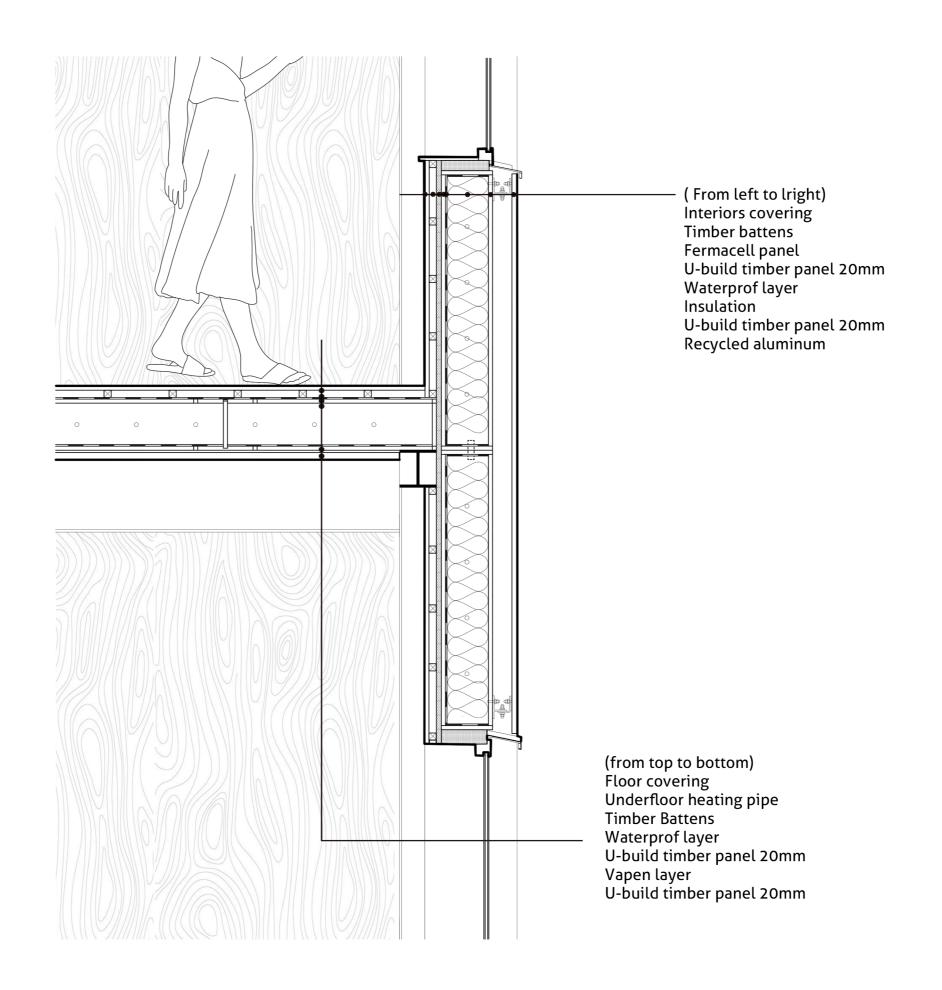
271.52m<sup>2</sup>

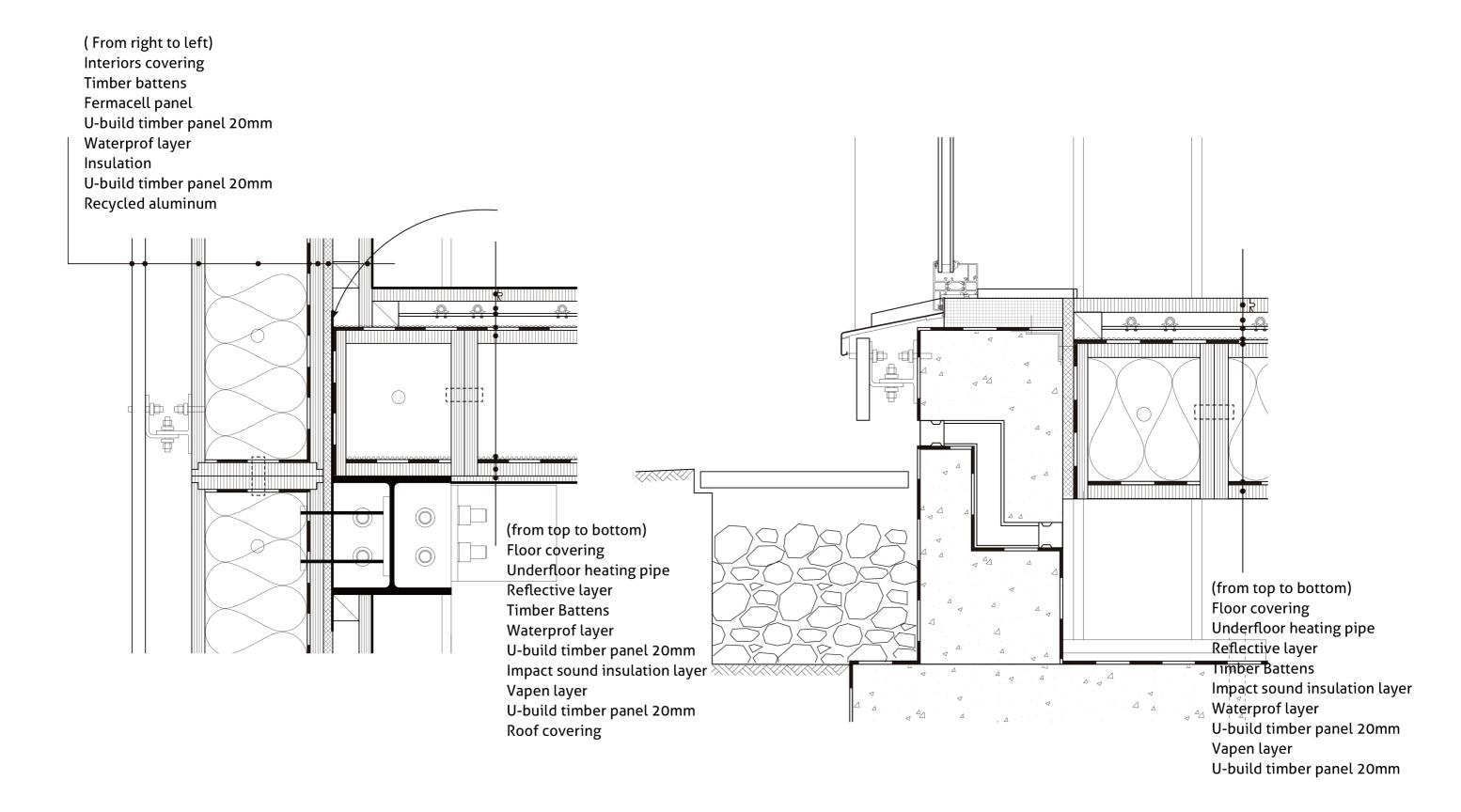
16.86m x 16.1m

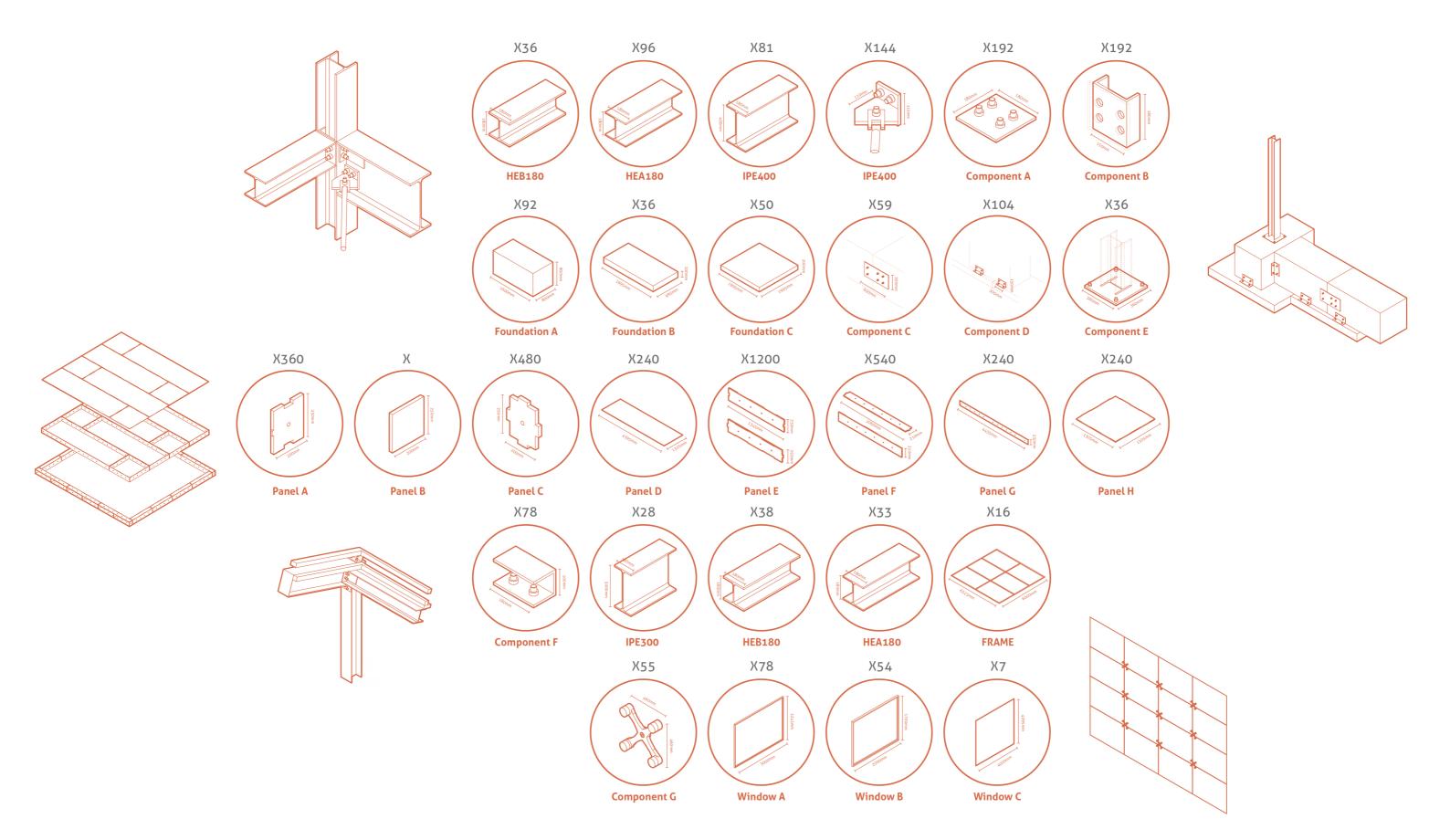
152 modules

Desired area

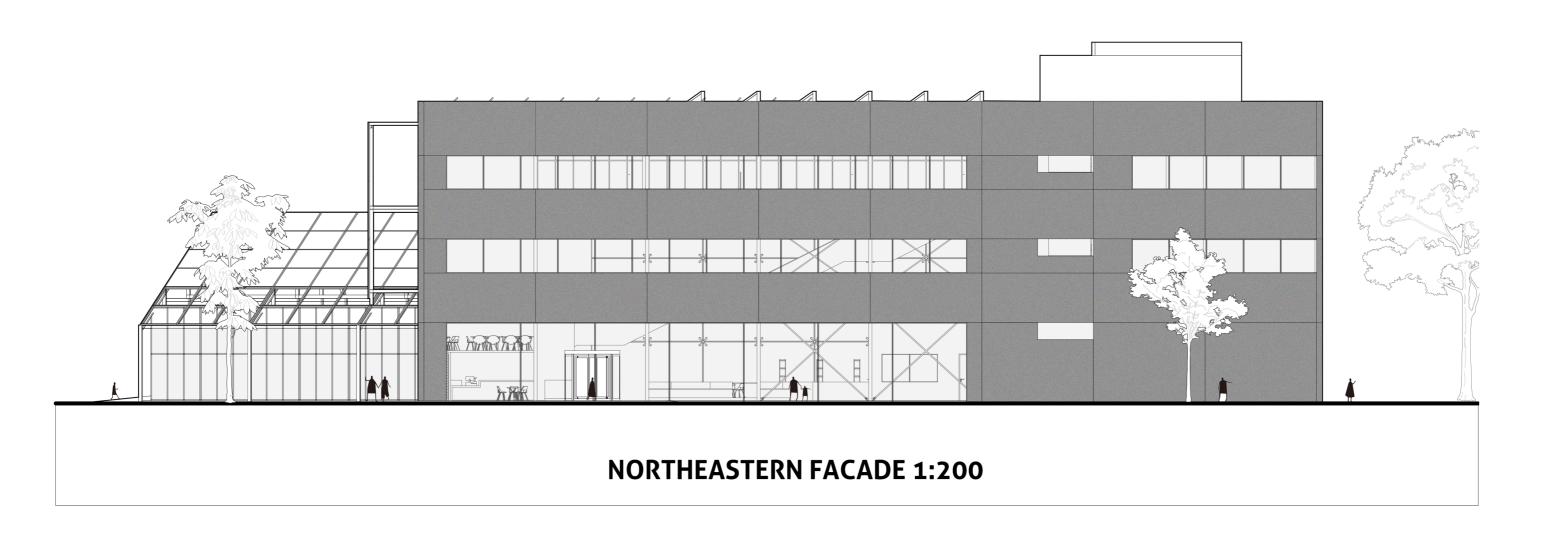
Required area (based on your electricity use)

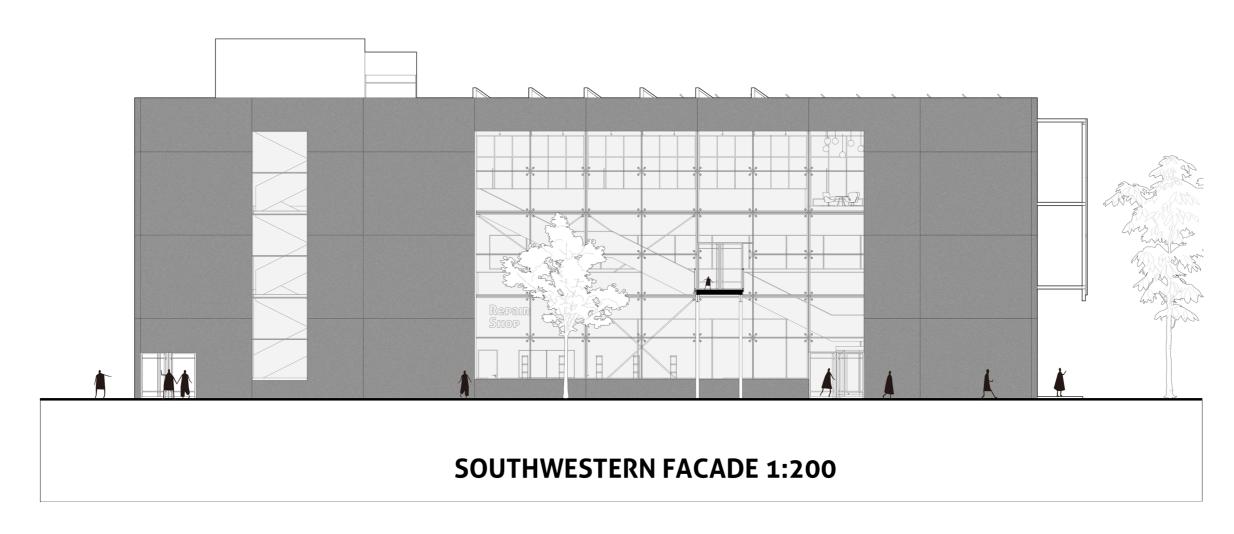




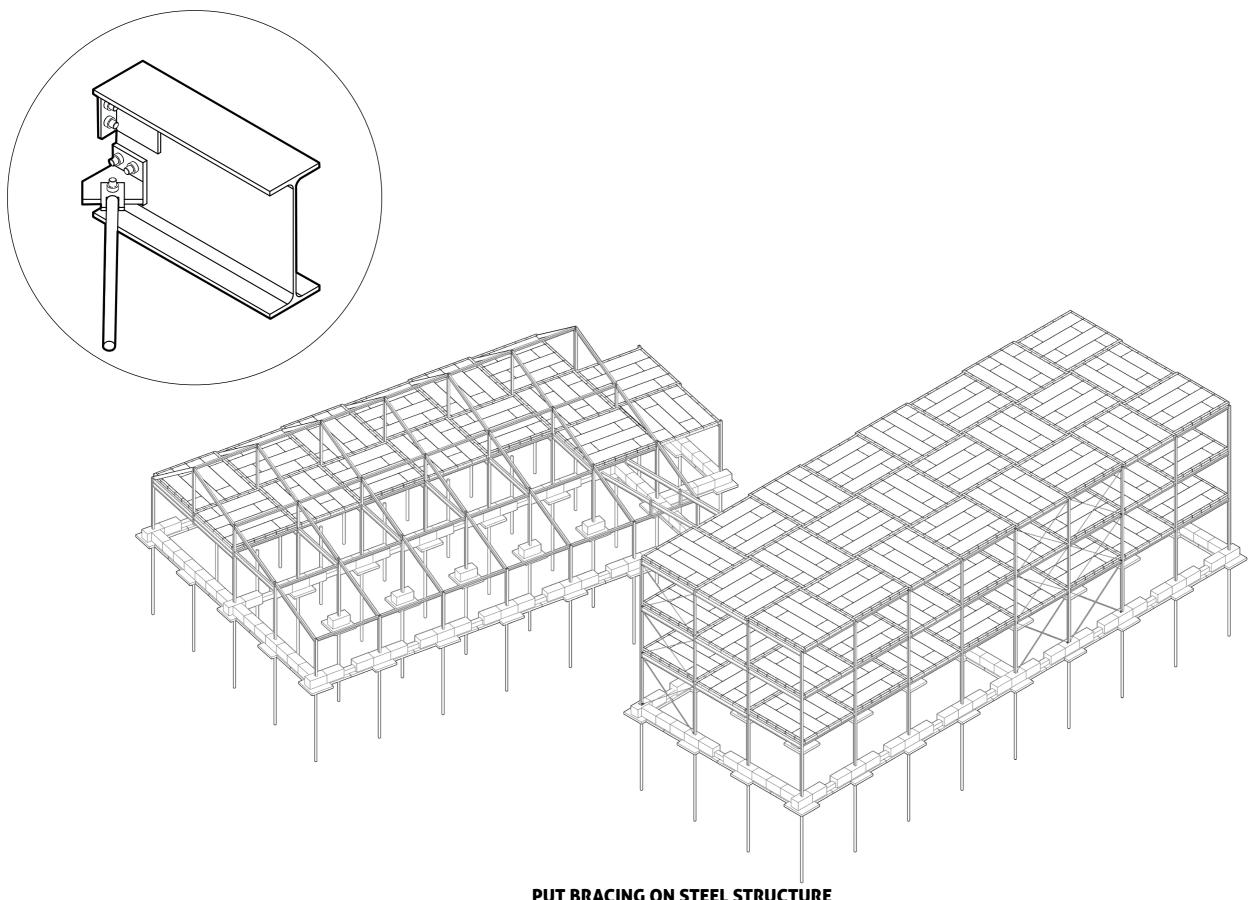


**Materials passport** 





# **STRUCTURE GENERATION**



**PUT BRACING ON STEEL STRUCTURE** 

Add diagonal bracing reinforcement on three sides of the building.