response to site

This site is located in California, the United States. The mass timber is stable and low cost, which is just suitable for construction in California as an earthquake zone, and is more stable.

The North Bay area of San Francisco is facing the sea on the east side. There are many high-rise buildings on the south side of the site, such as the Pan American Pyramid, while the north side of the site is a low traditional block form.

In view of the tight demand for housing in San Francisco, this is a very suitable place to build a complex of housing and public space. Carry out urban weaving to reduce the sense of fragmentation of the site itself.

concept

more urban activity
living space/LUT residence
more natural activity

step1: Create a mixed high-rise residence
step2: Add some public space on both sides
step3: Increase the street in front of the loft
step4: Rotate each part - 10° to 10°

use of mass timber

The main body of the building is mass timber, and some curved boards are hung outside. During the construction, the large wooden structure will be completed first, then the modular housing will be implanted, and finally the prefabricated curved plank will be hung outside.

CLT is used in the mass timber. Each plate is made of 4 planks. The application of CLT material can greatly save the waste of the structure in the living space, and has the advantage of energy saving.

The design of curved beech wood boards mostly adopts steam hot bending technology, and a few use growing bending technology. The load-bearing part is reinforced with steel bars.