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Transformation Process



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Material Pallet

concrete walls

frames host

railings

plaster host

inner walls

polished floors

Construction Elements and Prefabrication Process

Transformation

Community

structure.

projects.

rise with many units.

unobstructed view on the harbour

and the ocean. Each apartment

has its own outdoor space in this

The idea of this transformation project is to keep the existing block and its atmosphere on the eye level and the human scale. Due to the dilapidated conditions of the host structure and the demands for the new high-rise building, all inner structures will be removed. Besides that, the smaller sheds between the two actual housing buildings will be dismantled, still preserving the historically grown block over all.

Public area

The transparent ground floors connect the busy street level with the abandoned river bed. It is already used by some pioneers but will be revitalized by creating a passage alongside the new building. This shaded area provides the necessary outdoor space for the neighbourhood-café and social gatherings. Thematically it relates to the existing highway bridge – it is basically a "bridge under a bridge". The top of it connects to the multifunctional gallery in the upper ground floors and provides garden areas for the community.

Construction

The new high-rise will be a timberthe inhabitant's identities visible in concrete hybrid, allowing fast, the facade. precise assembly on site with a sustainable ecological footprint. The more private areas of the apartments are located towards the Since Genova is a very narrow city, west side of the building. Sliding all prefabrication elements are in relatively small dimensions, allowing doors allow adjustments on the them to be transported on medium levels of privacy and therefore a sized trucks. more flexible floor plan.

The buildings circulation is within The 11th floor is a community unit, a 3.5 x 3.5m wooden grid attached which is also highlighted in the to the east facade. By this, the facade. Flexible rooms allow multiple slender footprint of the host could activities and the generous roof top terrace stunning sunsets in Genova's be preserved and yet plenty of new apartment units fit in the new skyline.

Cooling

Besides the circulation, many of the The outdoor grid provides good sun community aspects are dealt with shading for the living spaces of the in this grid. Double height spaces apartment. The extensive vegetation connect the levels vertically, improve also results in a cooling effect in the a cross-level neighbourhood and hot Italian summer. The ventilation prevent anonymous horizontal works decentralized. Each apartment housing conditions, which is often a has its own ventilation unit in the problem in other high-rise housing bathroom ceiling. Fresh air – filtered by the plants in the grid – is sucked in from the east facade, distributed in It is believed that the inhabitants the apartment and discharged on the should know who is living with them opposite site of the building. Plenty in their building, even tho it is a highof square meters could be saved by not having huge vertical ventilation The apartment sizes vary between shafts. 33m² and 96m², each with an

Adjustable shutters in the classic Italian style are attached on the bedrooms on the west facade.

Fire protection

grid, which can be used for urban gardening, social gathering or just Sprinklers across the entire building as extended living room. Different preventalargerfireoutbreak.Wooden apartment sized result in a very structures within the apartments are covered with gypsum boards. dynamic vertical connection, making CLT-concrete hybrid slabs improve the sound insulation and prevent a spread of fire across the levels. Two staircases provide vertical escape path, one of them pressurized and with a firefighter elevator. Since the circulation is outside of the buildings envelope, smoke should not be a problem in case of emergency.

Vertical Community

Advantages of the Grid

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