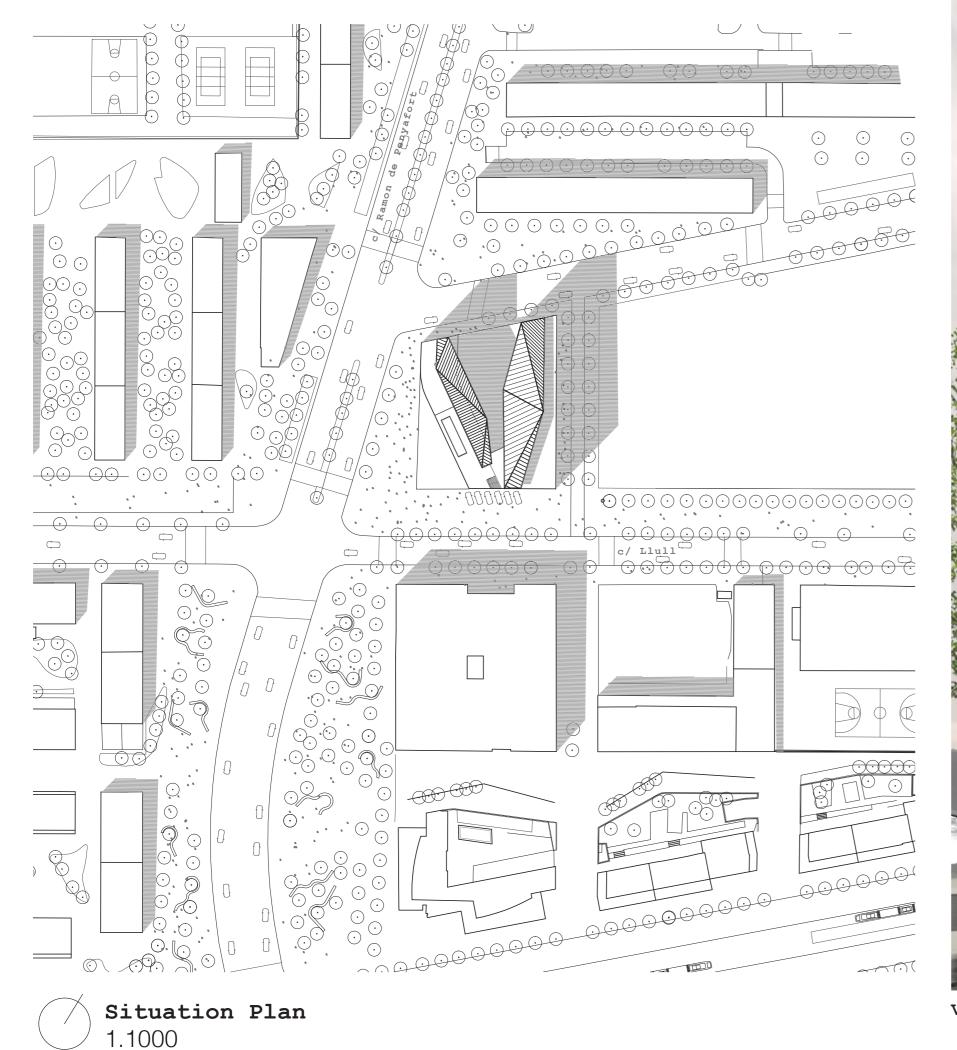


Aerial view





View from Ramon Penyafort street



View from Llull street



View of the atrium from Lola Anglada



View from Lola Anglada passageway

The spaces of a hotel are environments prepared for the other paces and speeds of time. Entering a hotel/aparthotel as guests makes the sand-clock turn around and different time paces and speeds become visible and tangible.

"SandCLOCK" proposes, builds and houses a possible transcription of this experiences in Barcelona.

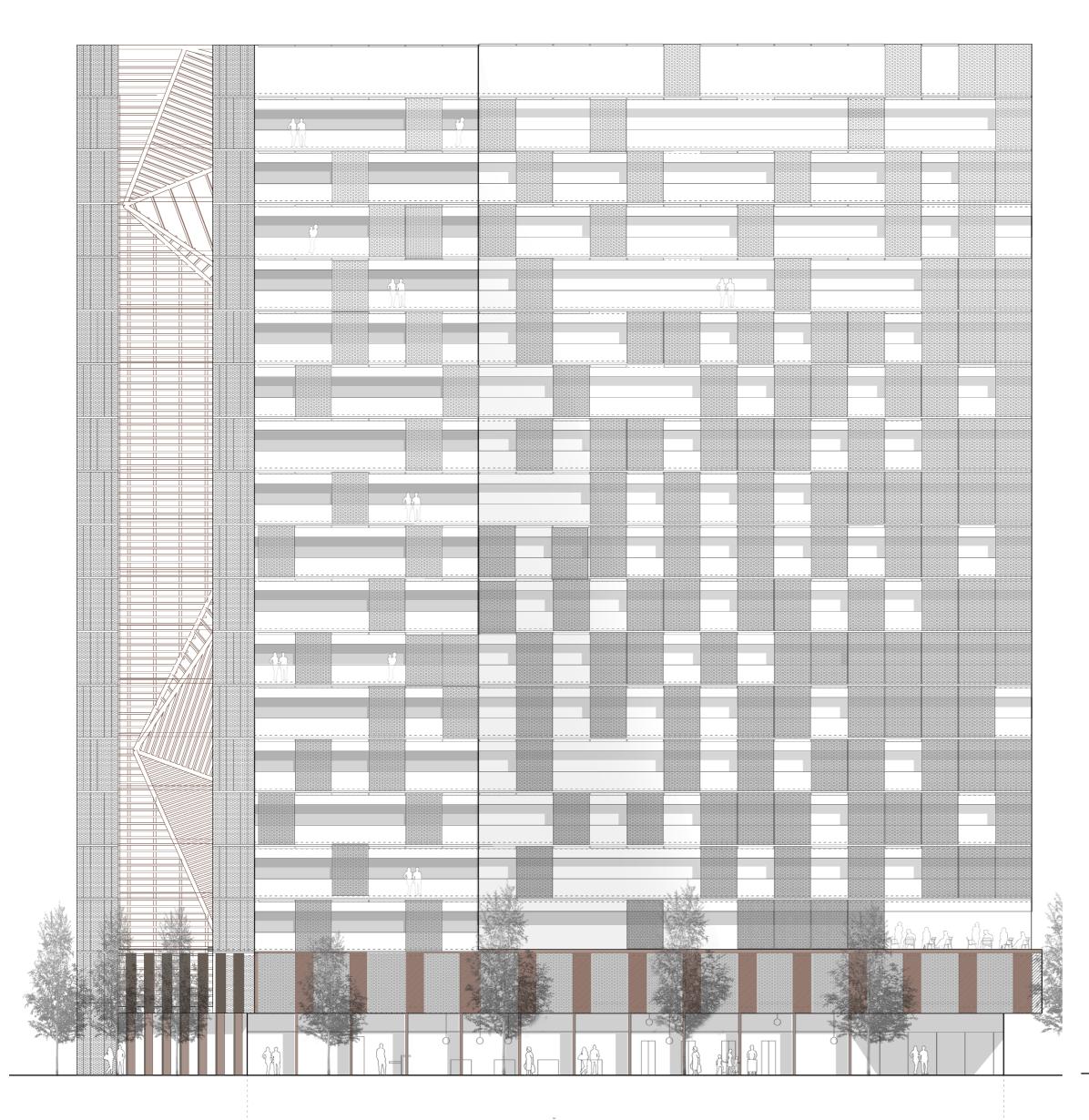
Both local and global conditions of Sant Adrian are to complement one to the other. Not only a hotel but a place to live periodically. An architectural economy not ignoring where it is and how things happen at East of Barcelona, near the FORUM 2004 area, overlooking the see.

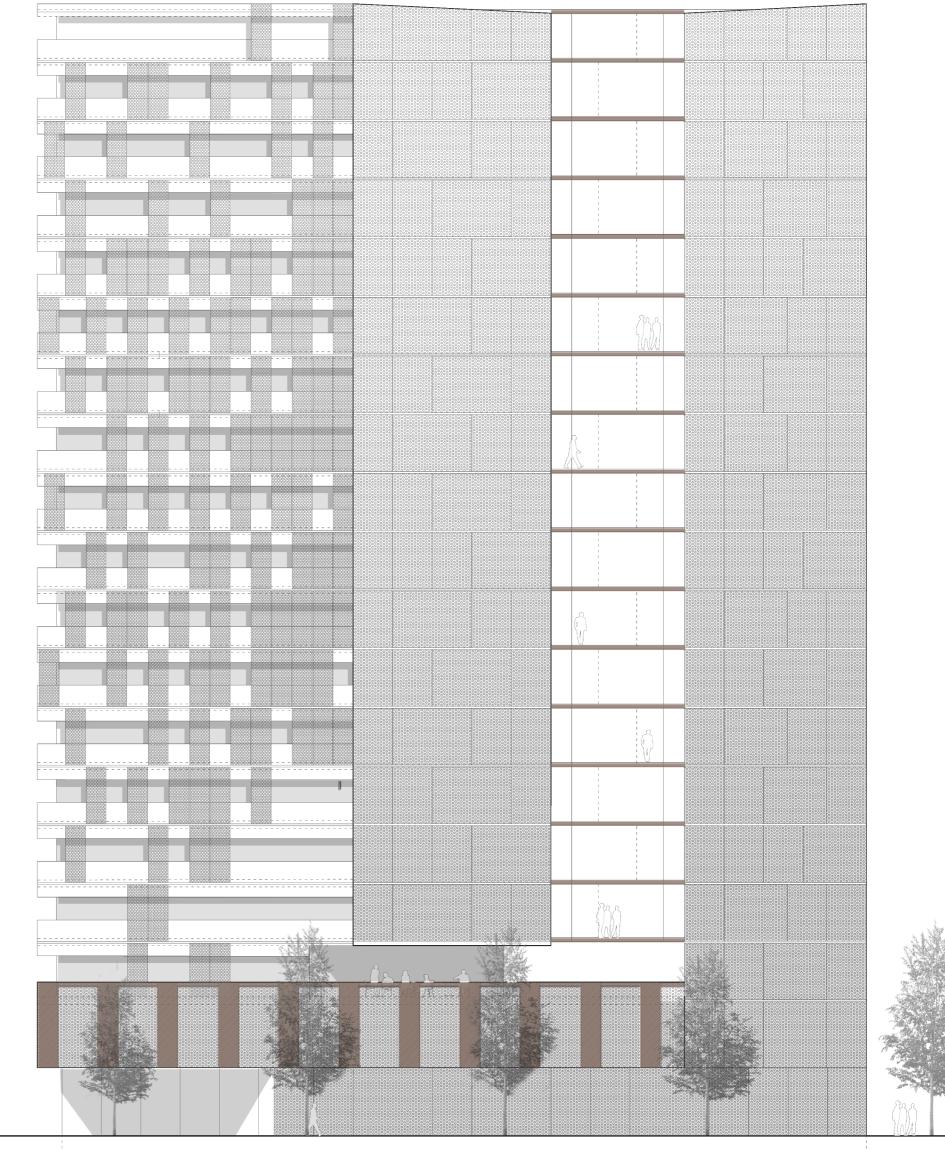
When arriving from C/Llull to the main entry, a soft canopy will signal the entry to the main lobby. All spaces mainly built in timber, wood natural textures. Once inside, the atrio facing the city, also built in timber, organizes the two volumes for all units. All units face and enjoy the see views.

When arriving from C/Raimond de Penyafort, the main commercial space faces the street and the slender volume bents slightly to fully open the views south.

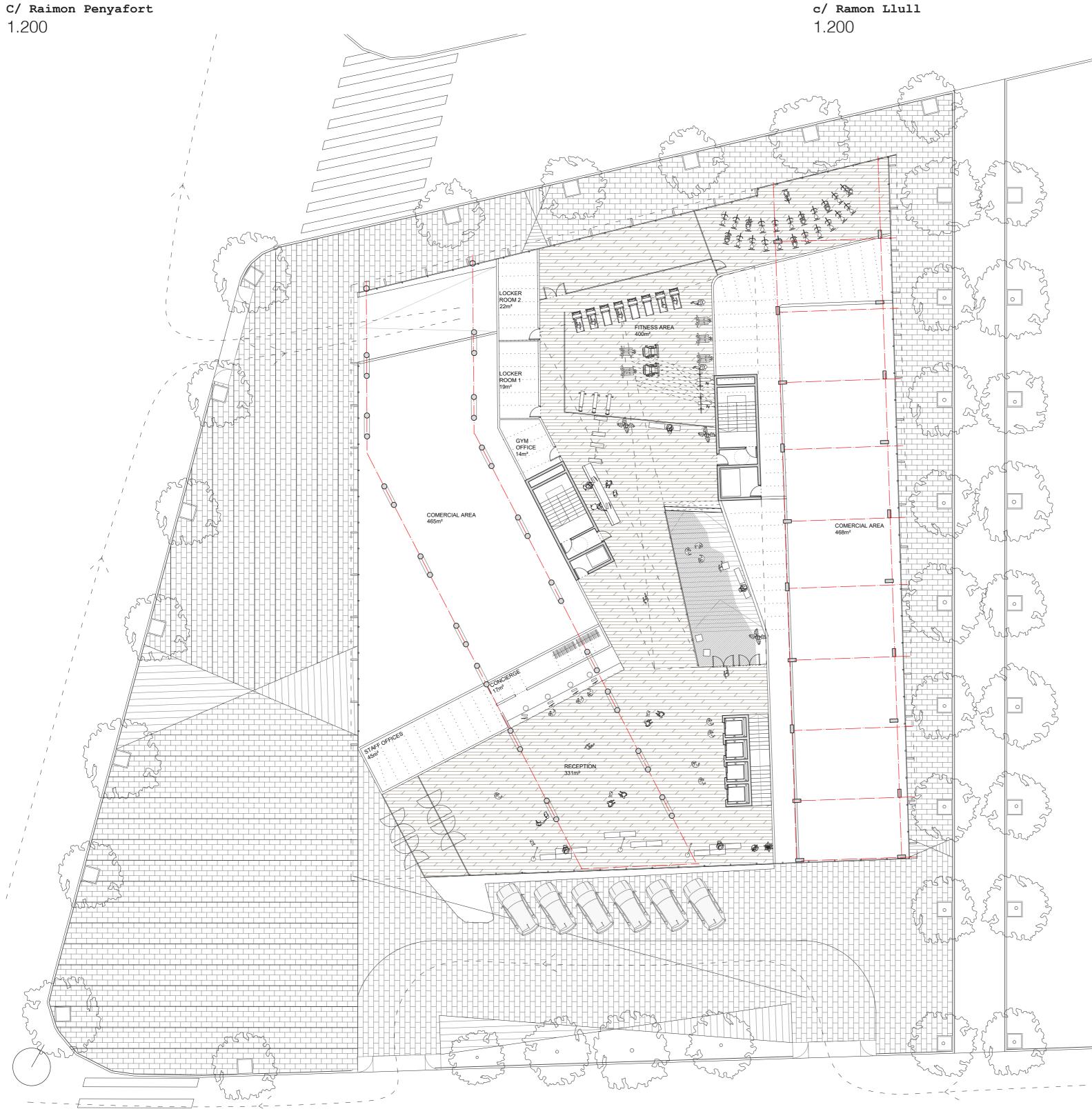
When coming from the MINA neighborhood or when walking through, the Planning requisites are completed with the other slender volume of units facing the East and the Maresme bay with its geography and shore arching inland when looking south east towards el Maresme and completing its continuity along the south west urban beaches of Barcelona

Two spatial and constructive logics make the proposal: one for the "Assigned" spaces, rooms/apartments/units another for the "Unassigned" spaces and program. One built in concrete able for a variation and adaptions in the location, distribution and mechanical systems optimization. The other building operates as a cartilage. It houses all the "Unassigned" program, from the lobby, to restaurants, bars, convention areas, fitness and corridors. It makes the open atrium.



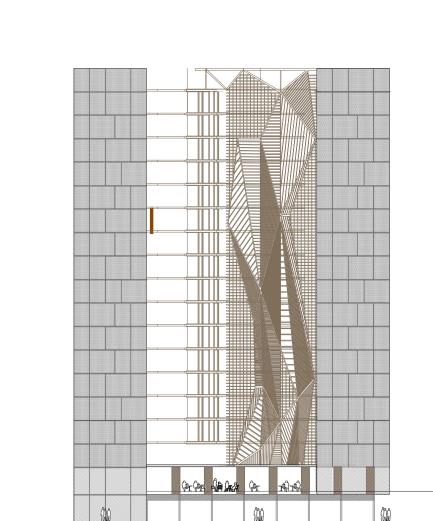


South-Est Elevation

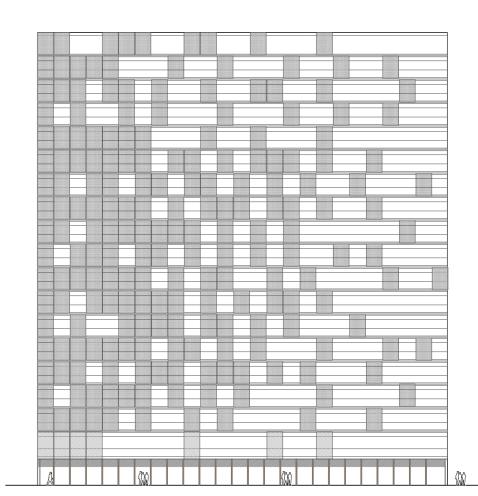


Ground Floor 1.200

South-West Elevation



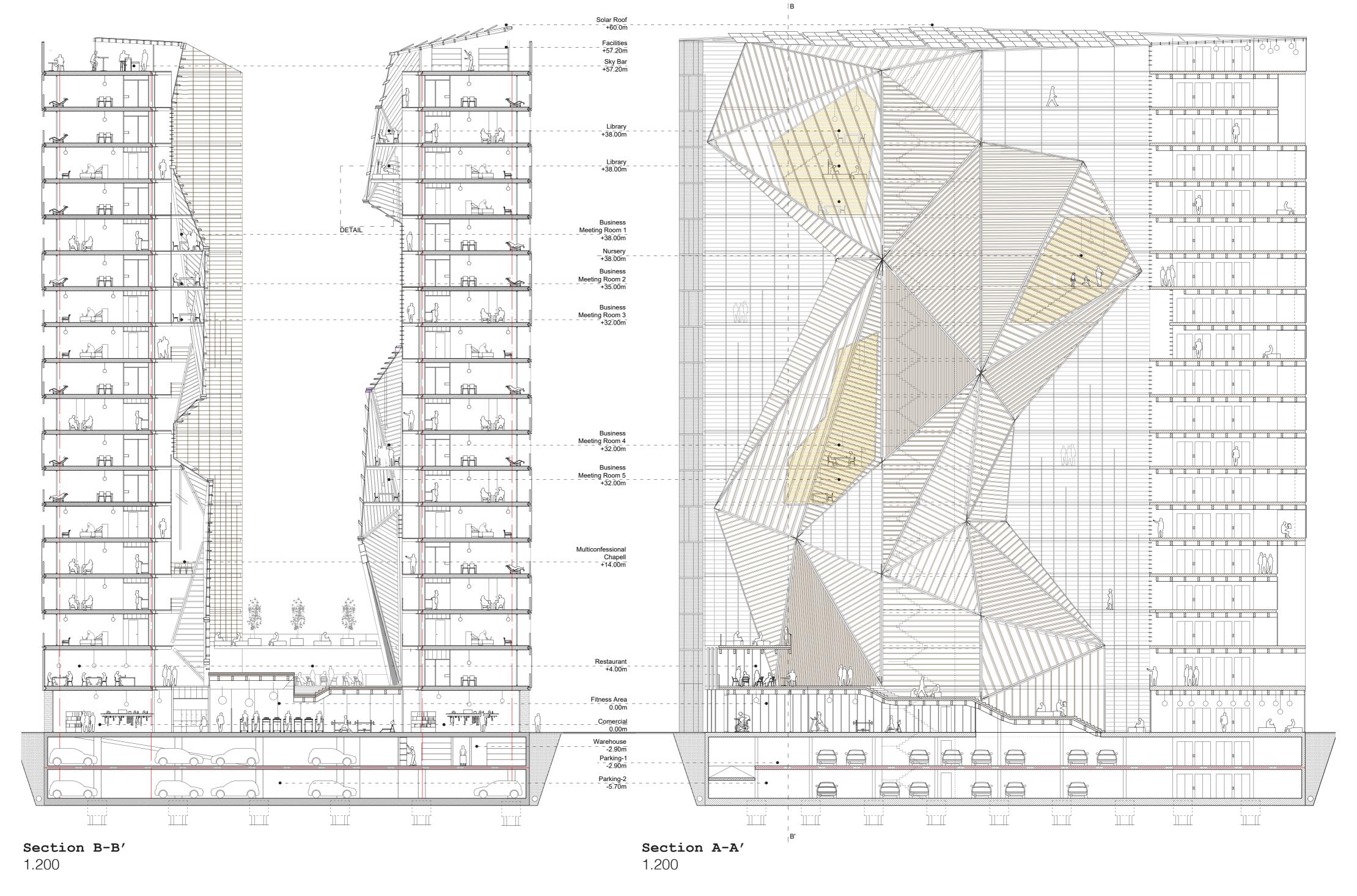
North-West Elevation 1.500



North-Est Elevation 1.500

It is between flesh and bone. Neither hard and slick nor soft. Is a timber building. Contemporary developments in timber construction guaranty its qualities and feasibility. In other words, as a client one will enter a hotel/apartment building through spaces made in timber and different finishes of wood panels and floors. All with almost cero maintenance, easy to replace and with the highest parameters in sustainability. The corridors, as part of the "Un assigned" spaces are not fully enclosed spaces, they precondition, both in summer, though ventilation and in winter by capturing and keeping the sun radiation.

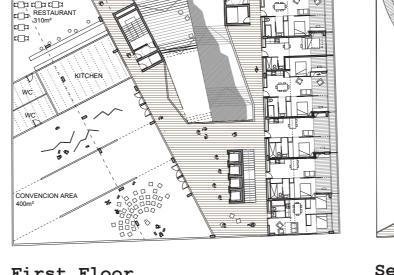
Barcelona enjoys a mild weather throughout the year. The temperature values, the sunny versus rainy days, the winds in summer and winter, the levels of humidity are part of the equation considered for an investment such as this one. These two "constructions" are placed as a "V" scheme in plan.

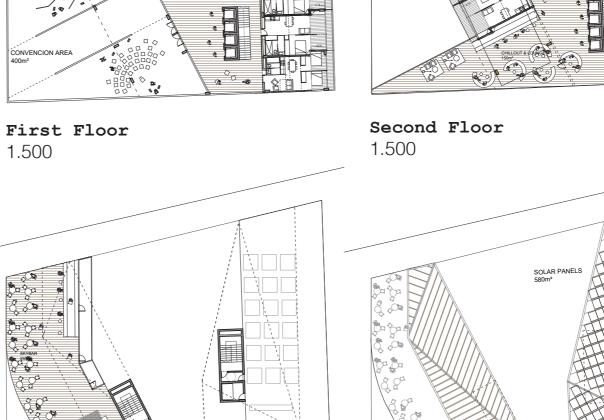


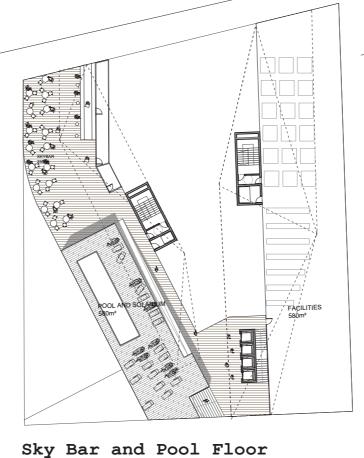
Standard Floor 1.200

В В C

Rooms typologies A+C=B+B1.100

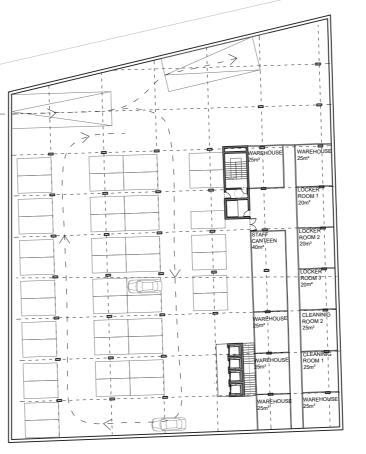


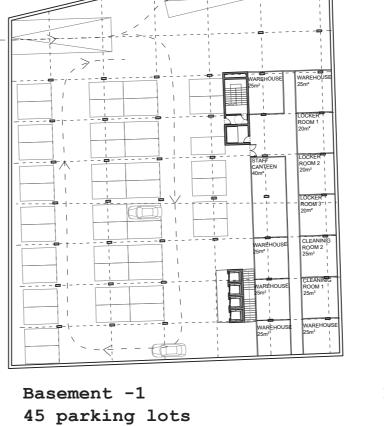




1.500

1.500





Basement -2 75 parking lots 1.500

Rooftop Floor

1.500

sandCLOCK proposes other "Unassigned spaces" to make and achieve a co-living experience rich and possible: a Small library, a Kindergarten, a Library, Spaces for meetings and business and a Pluri-Confessional space grow from the corridors and reconfigure the timber and louvers atrium surfaces.

Its final size and specific conditions are to be stablished in subsequent

project phases.

The apartments/units are designed and organized as a system of several systems and thresholds, some are technical other are spatial and others are energy based components and devices. The sequence of layers and thresholds is the following:

a Semi exterior space of the corridors (self-conditioned) (1,5m to 5,0m). b Timber interior façade to corridors (0,06m).

c_Services, mechanical active system distribution walls (0,65m) d Entry, kitchen and bathroom band

(2,80m)e.Cavinets, closets and conditioning interior distribution

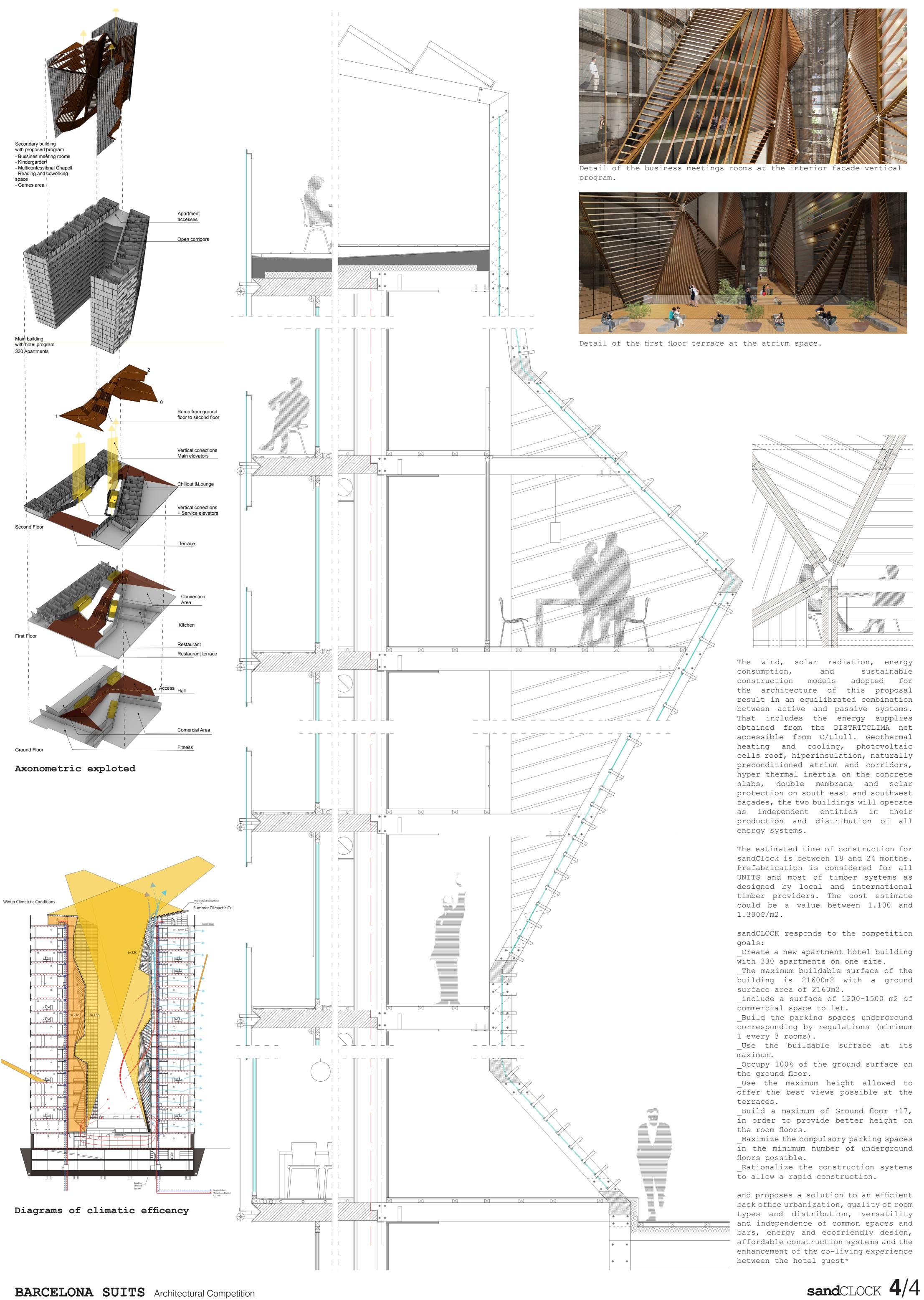
(80cm). e Sleeping areas (3m)

f_Living space and terrace (3m)

They are all parallel and systematic bands that are then subdivided according to the required widths of the 1, 2, and 3 bedroom units dimensions. They remain open to further adjustments derived from development and management criteria and needs.

The two buildings shelving all the units are thus bracketed by two different membranes. One, facing the see landscapes, is where all terraces are. Made of glass, held by stainless steel framings, sliding doors and a roll-able metal screen also sliding. This builds the terrace space and extends it inside of the unit. A timber pavement makes the surface both outside and inside.

The other membrane is a timber construction, holding the corridors and the special Unassigned spaces. Is a semi-exterior space that preconditions the climate parameters of Barcelona, both in summer and in winter by closing or opening the louvers to allow natural ventilation similar to an "UMBRACULO" or capture the solar heat when closed as a winter house.



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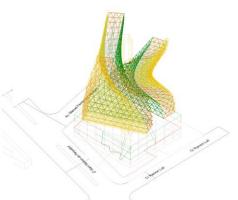
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This "V" scheme in plan, contains the capacity to become, in a future stage of project development, some of the properties of the other three initial schemes drawn and considered:



 $_$ A **Twisting building** from the "V" in the lower levels to a "V" in the higher levels facing a different orientation. The structural and technical challenge is obvious. The guaranty of all units always looking a to the Mediterranean is evident.



_A **Courtyard based** scheme with four sides in different heights is also efficient but suffers from a too diverse orientation for the Units and eventually places a good number of them towards de north



A construction made of two halfs: One half, the first 8 floors, built following the "V" scheme with the units orientated south east and South west always with views to the Mediterranean and the other floors, from 9 to 16 as a "V" over the lower one but placed along the lot diagonal. The intermediate floor (8th) recover the full size of the lot and solves structural, services, ... transition. The core of stair and elevators remains the same and vertical. Two atriums result. One oriented north east, fresh in the summer and the other orientated towards de city and the evening light and thermal conditions. The Sagrada Familia is part of the Barcelona skyline on sight and completing or embracing the Atrium space.

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The wind, solar radiation, energy consumption, and sustainable construction models adopted for the architecture of this proposal result in an equilibrated combination between active and passive systems. That includes the energy supplies obtained from the DISTRITCLIMA net accessible from C/Llull. Geothermal heating and cooling, photovoltaic cells roof, hiperinsulation, naturally preconditioned atrium covered spaces and corridors, hyper thermal inertia on the concrete slabs, double membrane and solar protection on south east and southwest façades, cooling with District CLIMA hot water, photovoltaic cells provide power to all areas, radiant floor heating in both rooms and public areas. The ecofriendly criteria derive from wind, solar, radiation, sound, and synergy between passive and active building systems. Both towers operate as independent entities in their production and distribution of all energy systems.

The estimated time of construction for sandClock is between 18 and 24 months. Prefabrication is considered for both, the inside and the outside components of all UNITS and most of timber systems fully prefabricated by local and international timber providers. The cost estimate could be a value between 1.100 and $1.300 \ensuremath{\in}$ /m2.

sandCLOCK responds to the competition goals:

- _Create a new apartment hotel building with 310-340 **** apartments on one site.
- ___The maximum buildable surface of the building is 21600m2 with a ground surface area of 2160m2.
- _include a surface of 1200-1500 m2 of commercial space to let.
- _Build the parking spaces underground corresponding by regulations (minimum 1 every 3 rooms).
- _Use the buildable surface at its maximum.
- Occupy 100% of the ground surface on the ground floor.
- Use the maximum height allowed to offer the best views possible at the terraces.
- _Build a maximum of Ground floor +17, inorder to provide better height on the room floors.
- _Maximize the compulsory parking spaces in the minimum number of underground floors possible.
- _Rationalize the construction systems to allow a rapid construction.

and proposes a solution to an efficient back office urbanization, quality of room types and distribution, versatility and independence of common spaces and bars, energy and ecofriendly design, affordable construction systems and the enhancement of the co-living experience between the hotel guest*

sandCLOCK

credits

Architects: HiBRIDaSZ

Antonio Sanmartín - Elena Canovas (aSZ arquitectes)

Silvia Felipe - Jordi Truco (HyBRIDA)

Collaborators:

_Ferran Iglesias, architec _ShaShak Shvilinvha, architec. _Carlos Perez, 3D model _Guayente Garcia Sanmartin, architect _Frank Dadfar, 3D and Energy Managment

Energy Consultant: Hongxi Yin, PhD
Structures Consultant: Manuel Arguijo

Cost Estimate and Cosntruction Managenment Consultant: Vicenç Tolosa

Other Consultants: Kocher Minder Arquiteceten, Thun, Bern.