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# TECHNICAL SPECIFICATIONS

Reinventing the concept of  
**HOME**



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# ABOUT US

At VIVO Sustainable Homes we offer you a way of understanding living that transforms the traditional view there has been about the home. Because your philosophy matters to us, we provide a unique experience in which comfort, sustainability and energy efficiency combine to help the planet.

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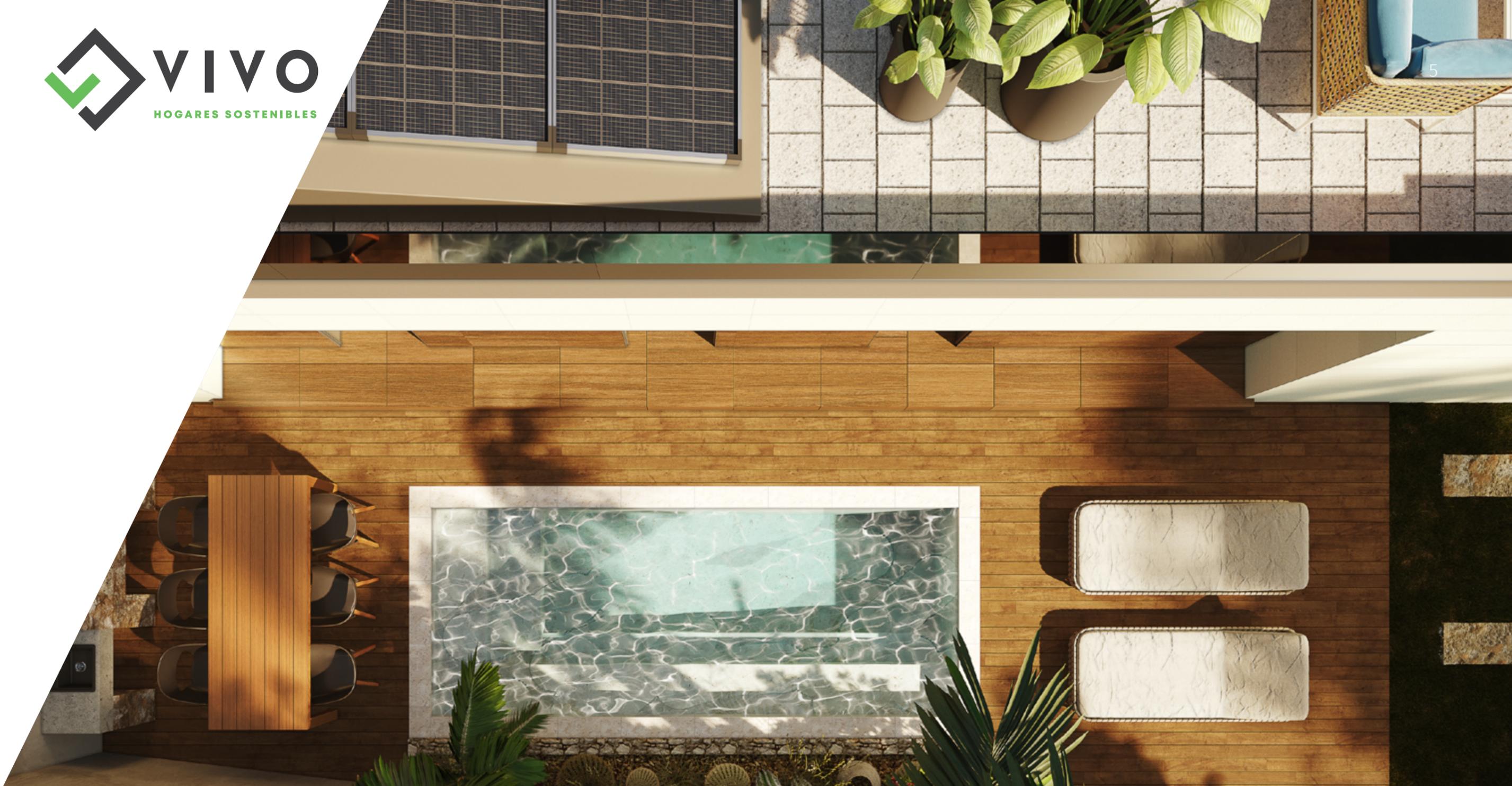
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# FOUNDATIONS AND STRUCTURE

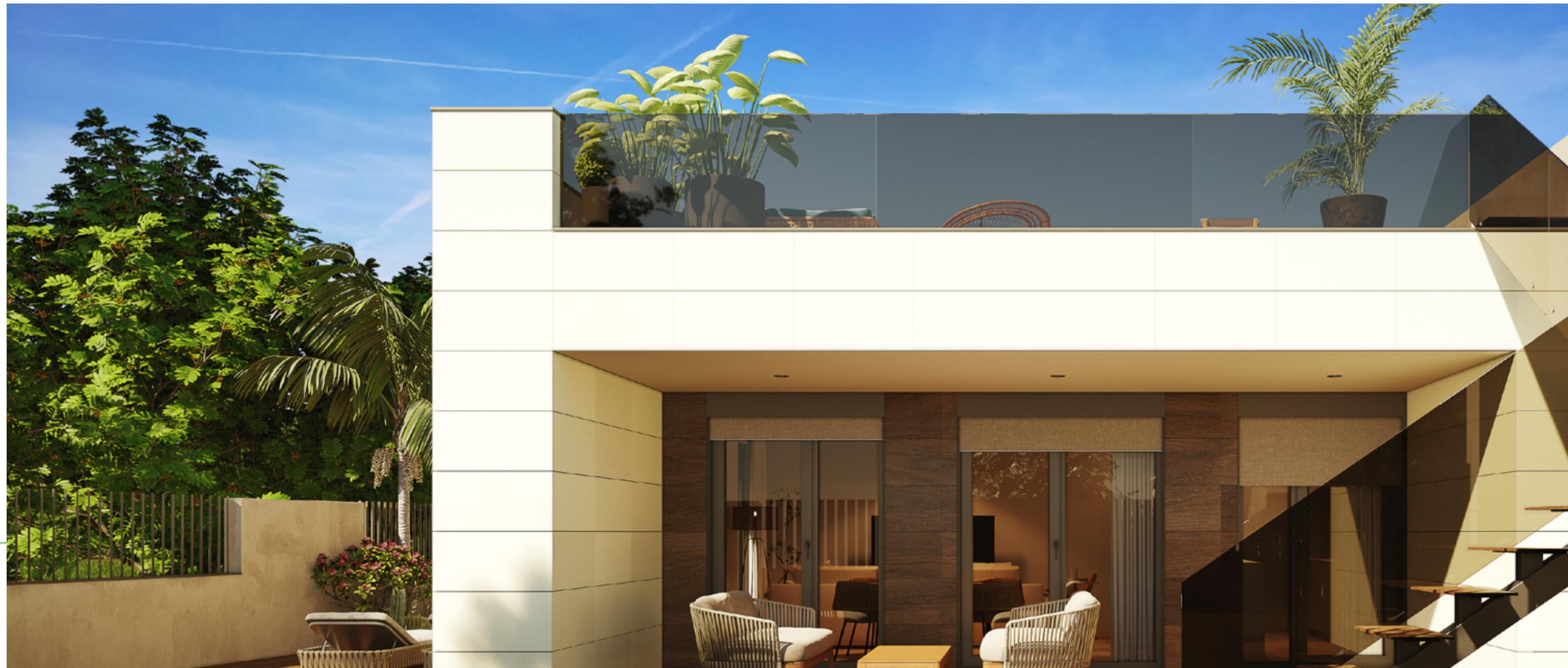
## - FOUNDATIONS

Surface foundations to be defined by studying the geotechnical characteristics of the area.

## - STRUCTURE

Reuse of a shipping container which will support a slab load of approximately 1,000 kg/m<sup>2</sup>, much higher than necessary for the property and its contents.

**DESIGN CONCEPT:**  
VIVO Hogares Sostenibles



# ENVELOPE

## - EXTERIOR

Final finish with extruded porcelain stoneware on exposed façades and silicate paint on dividing walls. Inner insulation composed of 20 cm of mineral wool-based insulation, vapor barrier and container.

## - ROOF

Flat roof finished by filtering tiles on a layer of expanded clay, 15mm-thick waterproof PVC sheet reinforced with fibreglass, 20 cm of insulation and vapor barrier.

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## - EXTERNAL JOINERY

PVC carpentry VEKA SOFTLINE 82 with triple joint system (Passivhaus certified) with SunGuard triple-pane glazing with solar factor  $g=28\%$  and thermal transmittance  $U=0.64 \text{ W/m}^2\cdot\text{K}$  of 44SE/14AR/4/14AR/44BE with low emission selective glass chamber. Exterior darkening system using a motorized exterior blind.

Entrance door is finished with a anti-humidity decorated panel and high-density water-proof extruded polystyrene hydro board.

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# INTERIOR

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## FINISHINGS

### - INTERIOR PARTITIONS

The inner side has been rendered with 15 + 15 high hardness laminated plaster boards filled with internal rock wool insulation with-in the perimeter and self-supporting partitions with 47 mm profiles with another two 15 + 15 high hardness laminated plaster boards on both sides also filled with mineral wool insulation.

### - FLOORING

Interior flooring finished with AC5 clip-on laminate flooring in 2200x243x9 mm format in oak colour, use class 23 (private rooms with intense use) and 33 (commercial room with intense use) waterproof (suitable for use in wet rooms).

**DESIGN CONCEPT:**  
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### - FALSE CEILINGS

High hardness laminated plaster board with 13mm soundproof insulation (Fonic) filled with 10cm mineral wool.

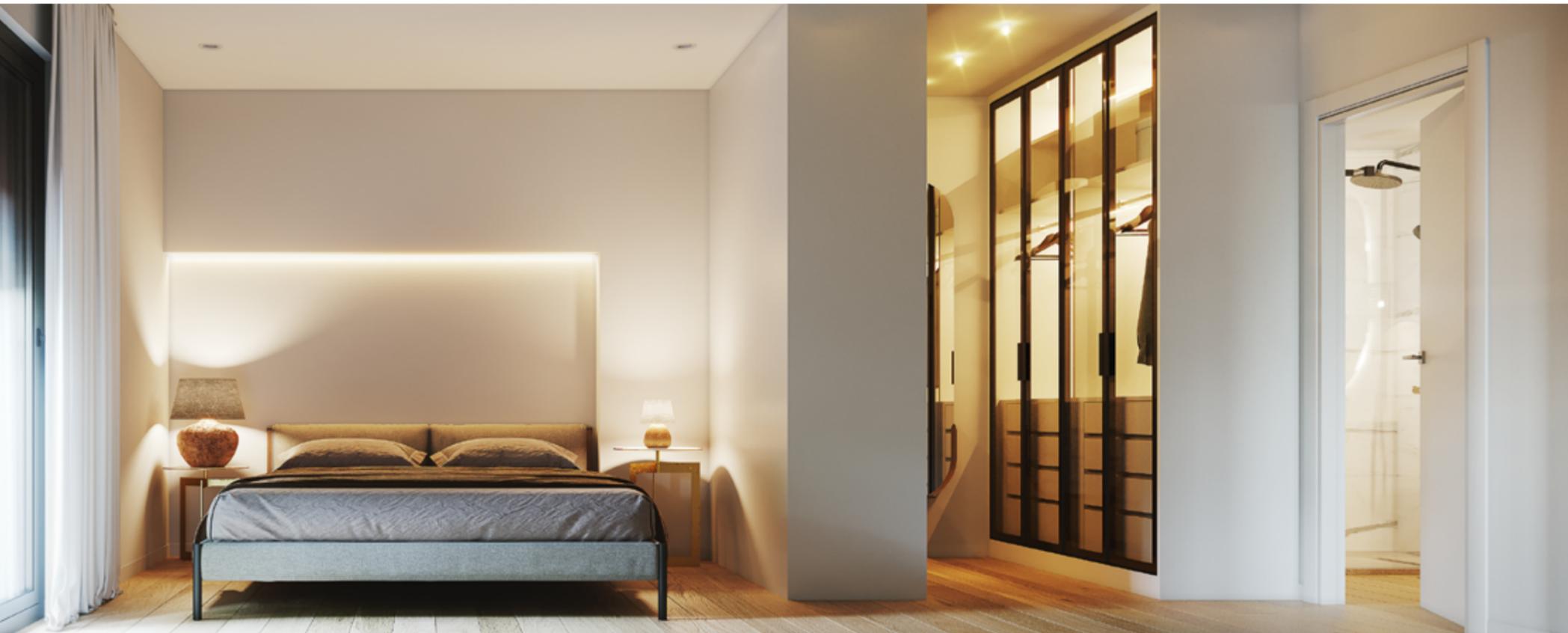
### - TILING

Self-adhesive 800x400x6.8 mm mineral core vinyl sheets with V-Bevel covering all four sides of the bathrooms.



### - PAINTWORK

White silicate paint on vertical walls and false ceilings.



### - INTERIOR JOINERY

Folding doors from floor to ceiling in VarnishMDF white with a smooth glazed 40mm with chrome handles. Folding opening system with hidden hinge and magnetic closure

### - BUILT-IN WARDROBES

Folding doors finished in a smooth white varnish and concealed hinges with brakes. The doors are from floor to ceiling in each room. Interior including drawers and hanging rails.





## - KITCHEN

MDF varnish kitchen furniture designed by VERROCHIO. Inner shell is of 19mm anthracite grey melamine. HETTICH hinges and guides. Aluminium handles tall cupboards fitted with push mechanism system and moulding on low furniture. 2.20x0.80m island with induction hob with integrated extractor fan HORIZONE of 700m<sup>3</sup>/h. All worktops are in COMPACT NEBULUS GOLD.

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# INSTALLATIONS

## - PLUMBING AND SANITARY DEVICES

Installation of multilayer plumbing insulated with 40mm-thick rubber shells. Suspended sanitary appliances in black vitrified earthenware. Resin shower trays and thermostatic taps. Stone countertop washbasins with high tap mixed controls.

## - AIR CONDITIONING, VENTILATION AND HOT WATER

Direct expansion equipment, 3.6 kW Panasonic PACi NX series.

High performance of double flow controlled by a mechanical ventilation system SIBER DF EVO 1 Enthalpy exchanger 150 m<sup>3</sup>/h flow with a Passivhaus certificate. Constant flow of ventilation, acoustic comfort, low power consumption (max 58W). Air quality optimization through filtration.

Panasonic 100L- arothermal hot water supply.



## - ELECTRICITY, TELECOMMUNICATIONS AND HOME AUTOMATION

Electrical installation complying with Low Voltage Electrotechnical Regulations. Photovoltaic panels with installation for 6.6 kW. TV and Ethernet sockets in living room and bedrooms. Video intercom. Safety Instrumented System.

YOBOT control grade 2/3 security system with intrusion detectors; perimeter barriers; smoke detectors, flood sensors in bathrooms and kitchen; 4 security cameras with 24-hour recording and connection to an Alarm Receiver Centre. Home automation system for all lighting in the home; bathroom radiators; general water inlet electric pump; control of electric blinds; air conditioning control on/off; forced ventilation control and warning in case of failure; temperature probes in living room, bedrooms and outdoors; digital video intercom and door opening control.

Remote control through PC/MAC, as well as Android and iOS mobile devices (iPhone/iPad), with automatic and manual programming.



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