



SUNHOUSE360°

Serie COMPACT - SPECIFICATIONS

HOUSE PACK

ROTATING SYSTEM

Motorized rotating system The support metal plate + turning ring + upper ring are supported on the central reinforced concrete beam, supplied by a servomotor that enables rotation. The servo motor has an output speed of 0.80 rpm and a power of 2.20 kW. It is controlled by a mobile application developed by SUNHOUSE360

STRUCTURE

Structure of S275JR hot rolled steel metal profiles with bolted and welded joints in floor slab. Made by a framework of cold-formed galvanized steel metal profiles (according to UNE EN-1090, S280 GD type steel and Z275 hot-dip galvanized, according to EN10346) with screwed joints (DIN6923 and DIN6921 quality 8.8 zinc-plated), on the roof. Pillars in hot-rolled carbon steel, shot-blasted and painted with UPN160 S275JR profile. The entire structure, both the exterior and interior, is free of oxidation and corrosion. All the loads of the structure are transmitted to the columns and these in turn transmit them to the foundation.

FLOORS

Insulation by hydrophilic mineral wool of 200 mm. Mixed forging made of 0.8 mm galvanized steel collaborative sheet and 60 mm edge. more concrete lightened with mesh with a total thickness of 100 mm. Polyethylene underlay foam.

Floating park category AC4 / 33/23 of 8 mm. thick indicated for use in kitchens and bathrooms, Egger model Aqua +. Bathroom floors in the same parquet with sealed joints.

FACADE

Composed of an aluminum composite panel with PvdF coating (option of porcelain ceramic panels reinforced with fiberglass mesh, or cream Moka marble) structurally adhered to a lacquered galvanized steel sandwich panel with a PIR foam core (Bs1d0 reaction to fire) of 100 mm. thick, 100mm galvanized steel studs to create another layer of mineral wool insulation.

Clad in reinforced laminated plaster board (Placo model Habito) 15 mm model board, this board allows large loads to be hung and is highly resistant to impacts.

ROOF

Flat, made of EPDM sheet adhered to a 115 mm galvanized steel roof sandwich panel with PUR foam core (Bs2d0 reaction to fire), 115 mm. thick air chamber with a layer of mineral wool of 200mm. thick and 13 mm laminated plasterboard. Interior height of the house 2.5 meters.

EXTERIOR CARPENTRY

Aluminum windows with 72 mm thermal break. of section brand Itesal model 72HO-RPT. These windows combine the advantages of aluminum (smaller section seen in profile, durability, opening larger gaps, greater glass thicknesses ...) with a thermal insulation superior to that of a PVC window of the same size and section.

Tilt-and-turn (in living room, bedrooms and kitchen) with triple glazing and Guardian Sun double chamber 4 + 4mm / 18mm Argon / 4mm / 18mm Argon / 4mmClimaguardPremium.

Window formed by fixed and balcony leaf with triple GuardianSun glazing 4 + 4mm / 14mmArgon / 4mm / 14mmArgon / 4 + 4mmClimaguardPremium or as an option without extra cost Sliding window with thermal break brand Itesal series 61-EVO-RPT with 3-point lock with Guardian Sun glazing 4 + 4mm / 15mm Argon / 4mm Tempered (in this option the thermal insulation is lower)

Entrance door with thermal break, aluminum panel with phenolic plywood core and three-point security lock.

Motorized aluminum slat blinds with a high-density polyurethane core throughout the house and insulated blind box.

INTERIOR PACK

INTERIOR PARTITIONS / DOORS AND FITTED WARDROBES

Suspended ceiling in plasterboard + curtains rods

Partitions formed by reinforced laminated plasterboard brand Placo model Habito of 15 mm., Upright of 70 mm. with mineral wool of 65 mm. and the same plasterboard as on the other side. In wet areas plates treated with waterproofing.

Walls and ceilings finished with washable matt plastic paint in white. Bathrooms and kitchen fronts tiled in composite aluminum or porcelain ceramic..

35 mm laminated conglomerate swing doors. thick, with hermetic seal, opening height to the ceiling.
Suspended sliding doors with guide and frame in silver-colored aluminum and 4 + 4 laminated glass and opening and closing damping system.
Entrance door with thermal break, aluminum panel with phenolic plywood core and three-point security lock.
Sliding built-in wardrobe doors in laminated wood with aluminum rails and handles equipped with a progressive soft closing system.
Inside of cabinets equipped with bar, height-adjustable shelves and soft-closing drawers.

FINISHES

Interior wooden flooring

Interior paints

KITCHEN-BATHROOMS

Kitchen: Equipped with tall units and low units with large capacity soft-close drawers. Zimbabwe black granite countertop or similar with stainless steel sink under counter. As standard, an extractor hood integrated in Teka furniture, Integra model and ceramic hob are included. Bosch brand.

Optional refrigerator, washing machine and dishwasher, oven and microwave brand Bosch

White porcelain washbasin on furniture. Suspended furniture from drawers with mirror cabinet. Roca brand toilet (model The Gap confort) in white porcelain. Non-slip gel-coat resin shower trays flush with the floor. Screens in chrome aluminum color with safety glass. Grohe brand faucet provided with water saving system.

HEATING-VENTILATION

Heating: Air conditioning system using a Mitsubishi Electric hot and cold aerothermal heat pump with an air system channeled through soundproof ducts with adjustable nozzles in each room. This system, through a R32 refrigerant gas circuit, extracts the energy from the outside air to use it for heating or cooling the interior. It works with electricity and for every kilowatt of light consumed it offers almost 4 kilowatts of heat or cold. Operating range from -15 to 46°C. Controlled by command with multiple functions and weekly programmer, possibility of operation via internet.

Ventilation: Dynamic ventilation system using a Mitsubishi Electric brand enthalpy recuperator, which takes advantage of the building's temperature and humidity conditions to pre-condition the renewed air from the outside. This system is used in Passivehouse type homes.

Underfloor heating option with Mitsubishi Ecodan and DHW tank + € 16,600

PLUMBING

Hot and cold water circuit made of multilayer polybutylene pipe lined with Uponor Quick & Easy system insulation, with shut-off valves in each room and square keys in each appliance. Sanitary drains and downspouts made of PVC pipe.

ELECTRICITY

Protected installation with general magnetothermic switch and magnetothermic switches for each of the independent circuits. Protection against indirect contacts by means of 30mA sensitivity differential switches and pre-installation of earthing. Surge protection system. Series of mechanisms Jung brand model LS990 in alpine white color. The entire installation is carried out according to low voltage electrotechnical regulations. Lighting using 22 w Ledvance Osram brand LED downlights. Heating: Air conditioning system using a Mitsubishi Electric hot and cold aerothermal heat pump with an air system channeled through soundproofed ducts with adjustable nozzles in each room. This system, through a R32 refrigerant gas circuit, extracts the energy from the outside air to use it for heating or cooling the interior. It works with electricity and for every kilowatt of light consumed it offers almost 4 kilowatts of heat or cold. Operating range from -15 to 46°C. Controlled by command with multiple functions and weekly programmer, possibility of operation via internet.

HOT WATER

Produced by an air-heater independent of the 110-liter air conditioning system, Ariston brand. It has an operating system similar to that of an air conditioning heat pump with similar performances. Being independent from the air conditioning system it has the advantage that in the summer months the air conditioning system is fully dedicated to producing cold without having to stop to produce hot water.

GENERAL

Construction documentation

House plans (architecture, construction, structure, facilities)

Insurance during production or installation

Assembly platform and house

Construction documentation

NOT INCLUDED

DESIGN, PLANNING AND PERMISSIONS

- Work permit (Can be coordinated by SUNHOUSE360 in Spain if requested)
- Work visa (It can be coordinated by SUNHOUSE360 in Spain if requested)
- Health and Safety (Can be coordinated by SUNHOUSE360 in Spain if requested)
- Geotechnical study (Can be coordinated by SUNHOUSE360 in Spain if requested)

WORK AND SERVICES ON SITE

- Demolition (Can be coordinated by SUNHOUSE360 in Spain if requested)
- Excavation work (Can be coordinated by SUNHOUSE360 in Spain if requested)
- Waste management (Can be coordinated by SUNHOUSE360 in Spain if requested)
- Connections to the network (Can be coordinated by SUNHOUSE360 in Spain if requested)
- Landscape design (Can be coordinated by SUNHOUSE360 in Spain if requested)
- Transport

FOUNDATION- SWIMMING POOL-BASEMENT FLOOR

- Base foundation for housing
- Pool
- Basement floor