



Specification Guide for Prime prefabricated houses of Easy Green October 2018

The **Prime** Efficient Houses of Easy Green are made of wooden frame and they are completely anti-seismic, extremely compact and fully waterproof with the ideal thermal and sound insulation conditions.

Prime exterior wall construction system with facade of Expanded polystyrene EPS

The Easy Green has developed the following exterior wall construction system (from exterior to interior) :

- ✓ Flexible, colored, acrylic and breathable coating. (color selection up to customer choice).
- ✓ Base coat reinforcing plaster reinforced with fiberglass.
- ✓ Facade of expanded polystyrene EPS 50 mm. with $\lambda = 0,032$ W/mK, mounted by mechanical fastening.
- ✓ OSB oriented standard board. 15mm
- ✓ Wooden frame 50 * 100mm per 600mm for ground floor residences.
- ✓ Wooden frame 50 * 150mm per 600mm for two-storeys residences.
- ✓ Mineral wool insulation 100 mm with $\lambda = 0,040$ W/mK.
- ✓ Polyethylene film as a vapor barrier 0,2mm.
- ✓ Fire resistant gypsum board 12, 5 mm. (fire and waterproof resistant gypsum board 12, 5 mm on the inside wall of the bathrooms).
- ✓ Total thickness 245 for two storeys or 180 mm for ground floor residences .
- ✓ Average weight 57.50 kg/m² for two storeys or 41.90 kg/m² for ground floor residences.
- ✓ Sound insulation 42 db .
- ✓ Thermal coefficient $U = 0,22$ W/m²k for two storeys, $U = 0,23$ W/m²k for ground floor residences.
- ✓ Fire resistant REI 30.

Prime exterior wall construction system with wood lining

The Easy Green has developed the following exterior wall construction system (from exterior to interior) :

- ✓ Wood lining of white wood 14 * 90mm.
- ✓ Wooden frame 50*50mm for ventilation
- ✓ Breathable waterproof membrane.
- ✓ OSB oriented standard board. 15mm
- ✓ Wooden frame 50 * 100mm per 600mm for ground floor residences
- ✓ Wooden frame 50 * 100mm per 600mm for ground floor residences
- ✓ Mineral wool insulation 100 mm with $\lambda = 0,040$ W/mK.
- ✓ Polyethylene film as a vapor barrier 0,2mm.
- ✓ Fire resistant gypsum board 12, 5 mm. (fire and waterproof resistant gypsum board 12, 5 mm on the inside wall of the bathrooms).
- ✓ Total thickness 245 for two storeys or 180 mm for ground floor residences .
- ✓ Average weight 38,6 kg/M² for two storeys , 36,7 kg/m² for ground floor residences.
- ✓ Sound insulation 42db.
- ✓ Thermal coefficient $U = 0,36$ W/m²k
- ✓ Fire resistant REI 30.



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Interior wall construction system

All the interior walls are designed such as:

- ✓ Wooden frame 50*100mm per 600mm.
- ✓ Mineral wool insulation 50 mm with $\lambda = 0,040$ W/mK.
- ✓ Bilateral fire resistant gypsum board 12,5mm. (fire and waterproof resistant gypsum board 12,5 mm on the inside wall of the bathrooms).
- ✓ Room height 2,65m.
- ✓ Total thickness 125mm.
- ✓ Sound insulation R_w 39 db.
- ✓ Fire resistant REI 30.
- ✓ Average weight 31.10 kg/m².

Mezzanine and attic floor

The mezzanine floor are designed from below to top:

- ✓ Fire resistant gypsum board 12,5mm.
 - ✓ Polyethylene film as a vapor barrier 0,2mm.
 - ✓ Wooden lath for plasterboard installation 15 * 70mm.
 - ✓ Wooden floor beams 80 * 200 mm.
 - ✓ Mineral wool insulation 50mm between the beams.
 - ✓ Mineral wool insulation between the beams (only under a loose attic) 150mm.
 - ✓ OSB oriented standard board 15mm.
 - ✓ Polyethylene film as a vapor barrier 0,2mm.
 - ✓ Filling with expanded polystyrene and lightweight screed with total thickness 180 mm in case of ceramic tiles
 - ✓ Drywall filling consisting of wooden beams and OSB 15mm in case of wooden or laminate floor
 - ✓ Total thickness 433mm.*.
 - ✓ Sound insulation R_w 42 db*.
 - ✓ Fire resistant REI 30.
 - ✓ Average weight 135.55 kg/m² *.
- * (with the floor filling)

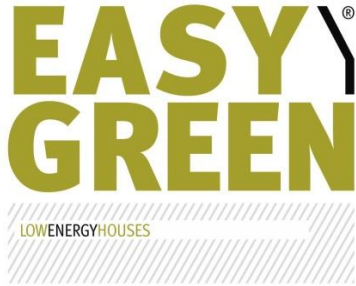
Roof construction

The roof construction model consists of the following elements:

Easy Green roofs offer a guaranteed lasting protection and durability. All exposed structural timber surfaces are properly coated and protected. All the visible parts of the ceiling are made of planed timber which impregnated with color. Maximum loading (snow load) 100kg / m².

Four or two pitched roofs are constructed as follows (inside to outside layers):

- ✓ Fire resistant gypsum board KNAUF 12,5 mm. (only when underneath lies an accessible room)
- ✓ Polyethylene film as a vapor barrier 0,2mm. (only when underneath lies an accessible room).
- ✓ Wooden lath for plasterboard installation 15 * 70mm. (only when underneath lies an accessible room)
- ✓ Wooden roof beams 40 * 200mm for downside open roofs. (high ceiling)
- ✓ Wooden grids 50 *150mm connected with bolted plates for downside closed roofs. (flat ceiling)
- ✓ Mineral wool insulation 150 mm with $\lambda = 0,040$ W/mK (only when underneath lies an accessible room).
- ✓ Breathable ventilation membrane.
- ✓ Vertical flags 35*45 in order to create a ventilation gap.
- ✓ OSB oriented standard board 15mm.
- ✓ Bituminous waterproofing breathable membrane (common type).
- ✓ Bitumen roof tiles, in the color of choice.
- ✓ Overall thickness 295 mm .
- ✓ Average weight 59.09 kg / m²
- ✓ Soundproofing 42 db



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- ✓ Thermal coefficient $U = 0,25 \text{ W/m}^2\text{k}$
- ✓ Fire resistant REI 30.

Flat terrace construction

Non-accessible terraces are constructed as follows (lower to upper layers):

- ✓ Fire resistant gypsum board KNAUF 12,5 mm.
- ✓ Wooden lath for plasterboard installation 15 * 70mm
- ✓ Polyethylene film as a vapor barrier 0,2mm
- ✓ Wooden floor beams 200 mm.
- ✓ Mineral wool insulation between the beams 100mm
- ✓ OSB oriented standard board 15mm.
- ✓ Polyethylene film as a vapor barrier 0,2mm
- ✓ 30-100mm expanded polystyrene foam chunks cut to create 2% slopes
- ✓ Waterproofing durable membrane FPO Sarnafil TG 66-15 1,5mm by SIKA.
- ✓ Overall thickness 308 mm .
- ✓ Average weight 62.75 kg/m².
- ✓ Soundproofing R_w 42 db.
- ✓ Thermal coefficient $U = 0,16 \text{ W/m}^2\text{k}$
- ✓ Fire resistant REI 30.

Windows and balcony doors

- ✓ White PVC .
- ✓ Frames designed for tilt-and-turn (in double windows only one sheet can be tilted).
- ✓ Argon gas double glazing with low emissivity film (low-e).
- ✓ Thermal coefficient $U_g = 1,0 \text{ W/m}^2\text{k}$ $U_f = 1,1 \text{ W/m}^2\text{k}$.
- ✓ Metal knobs (white electrostatic paint)
- ✓ White marble threshold.

Entrance doors

- ✓ Single shielded security door (without side panel).
- ✓ Single shielding, 14 locking points.
- ✓ Adjustable hinges.
- ✓ Security lock, handles, 180 degrees panoramic peephole.
- ✓ External white aluminum lining.

Electrical installation

- ✓ Entire electrical installation in accordance with Greek law and european standards
- ✓ The positions of the lights, switches and sockets are selected according to customer's wishes.
- ✓ Cables used depending on the task: 3*1,5mm NYL & NYA, 3*2,5mm NYL NYA, 3*6mm NYL , 5*10+1.5mm NYL & NYY, UTP KAT6, TV cable.
- ✓ Main panel with 3-lines HAGER automatic electric fuses and Circuit Breaker separated per floor.
- ✓ Modular DIN Rail (fuses, switches, Circuit Breaker) SCHNEIDER.
- ✓ VALENA plugs and switches of LEGRAND house series (Neutral white or Classic crème color).
- ✓ All connections are instated inside junction boxes and are accessible in any case of damage or modification necessity.



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The electrical installation includes:

Entrance

- ✓ Line for entrance external light, 3*1.5 cable.
- ✓ Line for entrance internal light, 3*1.5 cable.
- ✓ Internal and external light simple switches, 3*1.5 cable.

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- ✓ Simple switch with one lighting line, 3*1.5 cable.
- ✓ Socket next to mirror, 3*2.5 cable.

Bathroom

- ✓ Simple switch with one lighting line, 3*1.5 cable
- ✓ Socket next to mirror, 3*2.5 cable.

Storage room

- ✓ Simple switch with one lighting line, 3*1.5 cable.

Entrance hall

- ✓ Simple switch with one lighting line, 3*1.5 cable.
- ✓ One socket, 3*1,5 cable.

Kitchen

- ✓ Simple switch with one lighting line, 3*1.5 cable.
- ✓ 1 supply line for the oven, 3*6 cable.
- ✓ 1 supply line/socket for dishwasher, 3*2.5 cable.
- ✓ 1 supply lines for 2 sockets for other kitchen electrical appliances, 3*2.5 cable.

Lounge / dining room

- ✓ Simple switch with one lighting line, 3*1.5 cable.
- ✓ 1 supply line for 2 sockets, 3*1.5 cable.

Bedrooms

- ✓ Simple switch with one lighting line, 3*1.5 cable.
- ✓ 1 supply line for 2 sockets, 3*1.5 cable.

Exterior

- ✓ Simple switch with one lighting line, 3*1.5 cable. (for balconies or ground floor terrace)

Stairs

- ✓ Simple switch with one lighting line, 3*1.5 cable.

Plumbing installation

- ✓ Pipes for hot and cold water with 20mm thermo welding from INTERPLUST.
- ✓ Drainage systems for sanitary equipment with tube 40mm and 57mm SPIRAL SOLIDRAIN.
- ✓ Main drains fitted with FASO PLAST 6 atm pipe (100mm and 63mm).



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Residential plumbing installations included:

- ✓ Kitchen: including supply plumbing of hot-cold water, wash basin and dishwasher drain.
- ✓ Bathroom: including supply plumbing of hot-cold water and drainage pans, wash basin, tub.
- ✓ WC typical: including supply plumbing of hot-cold water and drainage pans, wash basin.
- ✓ WC with shower: including supply plumbing of hot-cold water and drainage pan, wash basin, shower
- ✓ Balcony: Supply plumbing of one cold water faucet.
- ✓ All drains and supplies included are set inside the residence and over the surface of the basement/foundation slab. Not included: links to the external wastewater network reception, holding tank and plumbing work outside the contour of floors.

**one washing machine plumbing per residence*

Sanitary Equipment

- ✓ Basin with flush and toilet seat lids, market price 125 € + VAT
- ✓ Wash basin for the bathroom, market price 70 € + VAT.
- ✓ Wash basin for WC, market price 35 € + VAT.
- ✓ Bathtub, market price 233 € + VAT.
- ✓ Shower where applicable 70X70cm, market price 55€ + VAT..
- ✓ Tub faucet, market price 90 € + VAT.
- ✓ Washbasin faucet, market price 65 € + VAT.
- ✓ Mirror inox 20s, market price 80 € + VAT.
- ✓ Bathroom accessories wash basin towel rail, tub's towel rail, cases for toothbrushes, soap, sponge and toilet paper, market price 65 € + VAT

Sanitary Equipment included:

- ✓ Bathroom: bathtub, lavatory pans with toilet flush, wash basin, mirror and bathroom accessories.
- ✓ WC with shower: basin with flush, shower, wash basin, mirror and bathroom accessories.
- ✓ WC typical: basin with flush, wash basin, mirror and WC accessories.

Screed

Ground floor above the basement or foundation slabs

- ✓ Filling composed of 30 mm expanded polystyrene, and 65 mm lightweight screed topped with cement mortar.

Upper floor

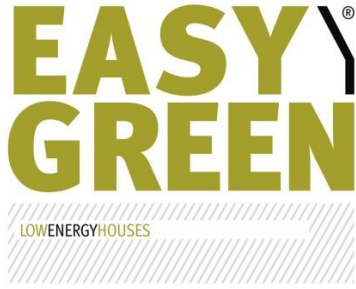
- ✓ Filling with expanded polystyrene and lightweight screed with total thickness 180 mm. (in case of ceramic tiles)
- ✓ Drywall filling consisting of wooden beams and OSB 15mm. (in case of wood or laminate floor)

Tile lining

Wall tiles (bathrooms - kitchen)

- ✓ Maximum cover in height from the floor in bathrooms and WC: 2,10m.
- ✓ Maximum cover in total area in kitchen: 4 m² *.
- ✓ Maximum tile value selection 12, 00 € + VAT.
- ✓ The tile installation has been tallied parallel-vertical to the walls and tile dimensions have been considered smaller than 40*40 cm. Diagonal placement or parquet type installation, installation without seams, designs, edging as listello, torelli, webbings and elaborated motifs, larger tiles, mosaic, and bevel cutting of the corners are extra charged. Tile coverings less than 0.60 m are calculated in current measure value no less than 60% of the price of 1 m².

** All the offers are not calculated on the kitchen plan but rather on the maximum expected kitchen area.*



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Ceramic floor Tiles (Rooms: kitchen, bathroom, WC, living room, storeroom, corridor, entrance)

- ✓ Maximum selection tile value included in overall cost quotation: 9,00 € + VAT. .
- ✓ Skirting floor included.
- ✓ The tile installation has been tallied parallel-vertical to the walls and tile dimensions have been considered smaller than 40*40 cm. Diagonal placement or parquet type installation, installation without seams, designs, edging as listello, torelli, webbings and elaborated motifs, larger tiles, mosaic, and bevel cutting of the corners are extra charged.

Floor linings with synthetic parquet (laminated)

Rooms: Bedrooms and upstairs corridor, hallway

- ✓ Produced by Kronotex (made in Germany) thickness 7mm and 8 mm.
- ✓ Series Basic, Smart, Dynamic. .
- ✓ Substrate 3mm of polyethylene foam
- ✓ Skirting floor included.

Coloring – decoration

- ✓ Plastic color (ecology) on the walls according to customer's wishes.
- ✓ Exterior colors for walls with colored elastic plaster facade according to customer's wishes.

Internal doors

- ✓ Internal hinged laminate doors*, without a special design, with a curved laminated frame, door sill with rubber, inox hinge, double barrel type, inox handle

** All offers are calculated with hinged doors - sliding option comes with additional charge*

Kitchen cabinets

Kitchen cabinets made of white melamine boxes 18mm and melamine shutters (soft form).

Included :

- ✓ Kitchen bench 4cm waterproof.
- ✓ Upper cabinets 72 cm.
- ✓ Plastic adjustable legs.
- ✓ Aluminium baseboards .
- ✓ Hinges with brakes from Blum.
- ✓ Rails with brake from Blum.
- ✓ Plate racks.
- ✓ Cutlery case.
- ✓ Plastic waste basket.
- ✓ Single inox handles 9.6cm
- ✓ Double sink Pyramis, market price 50 € + VAT .
- ✓ Calculated total kitchen length* (top and bottom) for 'Prime' houses: 4m.

** All the offers are not calculated on the kitchen plan but rather on the maximum expected kitchen area.*



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Wardrobes

Wardrobes are made of white melamine 16mm and melamine doors (soft form).

Included:

- ✓ Plastic adjustable legs .
- ✓ Aluminium baseboard.
- ✓ 1 hanging bar and 1 shelf per wardrobe.
- ✓ One independent internal drawer.
- ✓ Single inox handles.

For each room : Dimension of the wardrobe 265*120cm.

** All the offers are not calculated based on the floor plan instead based on the rooms as above.*

Staircases

Upper floor staircase (where needed):

- ✓ Hanging staircase with central metal frame and wooden stairs, with internal staircase enclosure made of straight metal railings and a wooden handrail . The wooden stairs and the wooden railings are made of a solid beech wood painted with two layers of non-toxic varnish. The steel parts are colored and dried in oven with epoxy resins.
Coloring :
Steel parts: silver-grey.
Walnut tree or Natural.

Remarks

Easy Green reserves the right to change the options of supplying companies, materials and methods of construction, for any reason and without prior notice. All work refers to the construction of the house inside the building's contour and above the foundation slab or plate basement.