

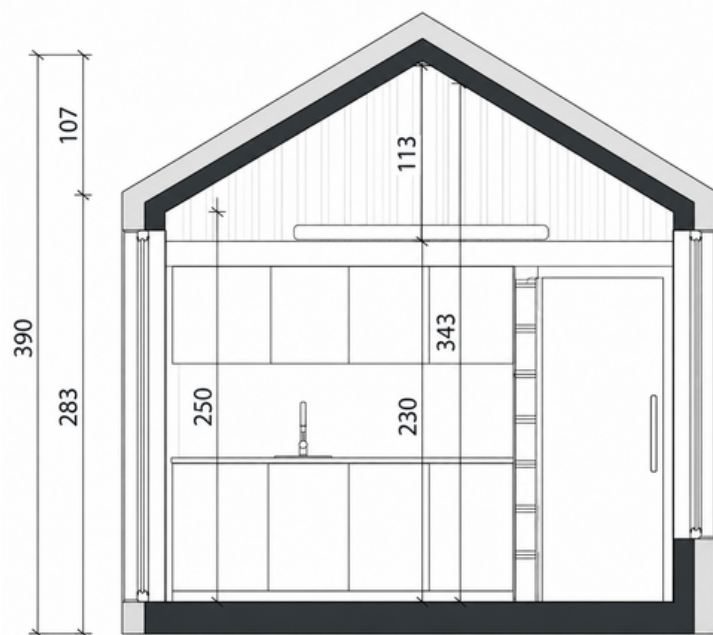
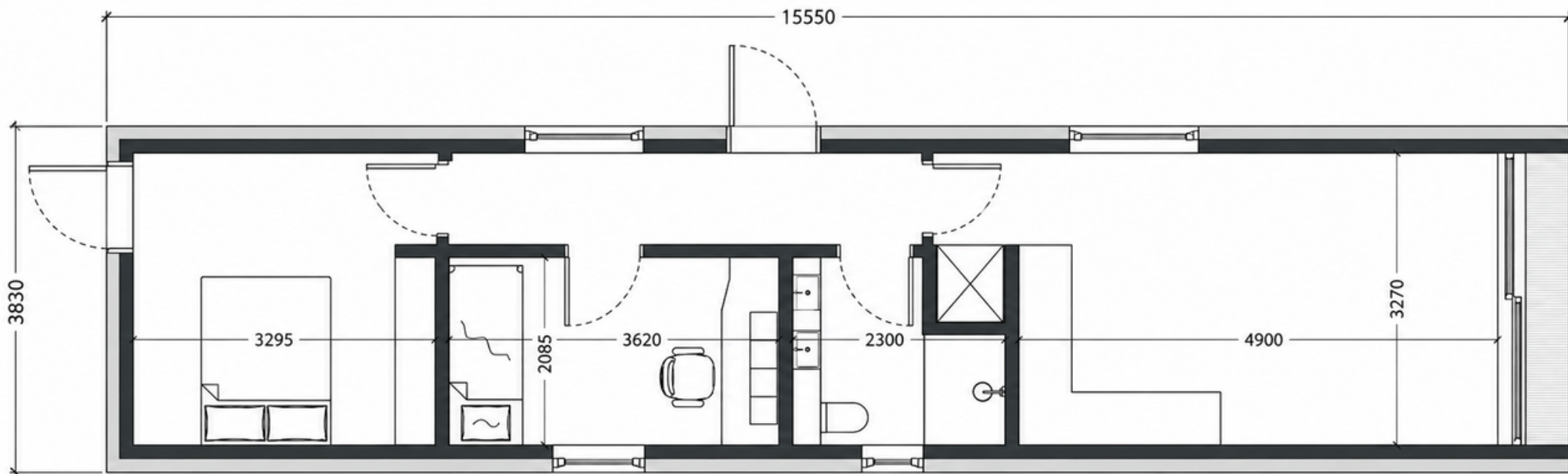


Advanced
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2- Bed Modular Home

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FUTURE HOME A60dA

Dimensions	Building area	Internal area
3.830 x 15.550 x 3.90 m	80 sq.m	45 sq.m



4



2



1



1



gable
roof



facade: -
wood -steel



year
round



2

BUILDING CONSTRUCTION	
Steel Construction	The structure of the house is a rigid steel frame, protected by anti-corrosive resin-based paint for environment C2, steel type S355 or S235 (certified steel). *For the calculations, it has been assumed that the structure will be operated with a characteristic ground snow load of up to 1.2kN/m2 (snow zones 1, 2, 3) and a characteristic wind pressure load of up to 0.3kN/m2, i.e. in climatic wind zones 1, 2 *
BUILDING STRUCTURE	
Walls	External walls: made with DMDmodular technology; inside: 2x 12.5mm plasterboard, ISOVER vapour barrier foil, steel structure with mineral wool, thermal insulation made from PIR thermal insulation panels with a high coefficient, wind insulation, substructure and façade finish made from panelled sheet metal or wood. Internal walls: partition walls - drywall system of gypsum plasterboard on 50-100mm profiles with double-layer of 12.5mm boards with an appropriate structure (waterproof hydro or standard). Internal walls filled with Isover acoustic wool. U-Value W/M2k = U=0.15 W/m2K
Floor	Floor in DMDmodular technology; finished with vinyl panels, using non-flammable and moisture-resistant cement-particle boards, mineral wool as thermal insulation. From the bottom of the floor - full protection made of trapezoidal sheet metal protection underneath. U-Value W/M2k = U=0.25 W/m2K
Roof	Roof in DMDmodular technology; with layering like the external wall, with an additional layer of waterproofing. Surface drainage of the roof. Finish: interlocking standing seam metal sheets. U-Value W/M2k = U=0.15 W/m2K
Windows	Triple-glazed PVC (2 chamber packages of warm glass with thermal insulation coefficient Ug=0.5 W/m2K); Graphite profiles on the outside, white on the inside. Acoustic insulation: approx. 34dB. U-Value W/M2k = U=0.90 W/m2K
Doors	Alusystem 70 profile, installation depth 70mm; Acoustic insulation: approx. 34dB. Aluminium handle in the colour of white or anthracite, with key cylinder insert. U-Value W/M2k = U=1.00 W/m2K
INTERNAL FINISH	
Walls/ Ceilings	Walls in the drywall system, ceilings, bevels, and window linings finished with drywall, levelled, and smoothed; painted with latex, matt, washable paints by Flügger in white. Ceiling finished with GK board, putty, smoothed; painted with white, washable, high-strength, matt latex paint by Flügger in white.
Finish Floor	Click vinyl panels, SPC Luxor contract, pattern imitating wood or imitating concrete, material resistant to abrasion, deformation. Panels with an integrated underlay with high acoustic parameters.
Internal Doors	Non-rebated PORTA PREMIUM interior door, concealed hinges, doors painted white, matt. High resistance to dirt, abrasion, scratched. Adjusted door frame, leaf with 800mm
DOMESTIC ENERGY ASSESSMENT PROCEDURE (DEAP)	
BER	A3 to A1, using renewable energy sources; Air-to-Air heat pump / Solor Panels
Ventilation	Mechanical ventilation with heat recovery for installation in a suspended ceiling / Fujitsu UTZ-BD025C recuperator with a counter-current exchanger, air capacity: 250m3/h, power consumption 128W, heat recovery efficiency: 75%.

CONTACT US



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