

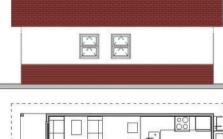
steel frame 65n 2

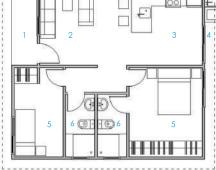
65 m² housing, Steel Frame construction system, with structure of cold formed lightened galvanized profiles.



HOUSE ELEVATIONS







FUNCTIONAL DISTRIBUTION:

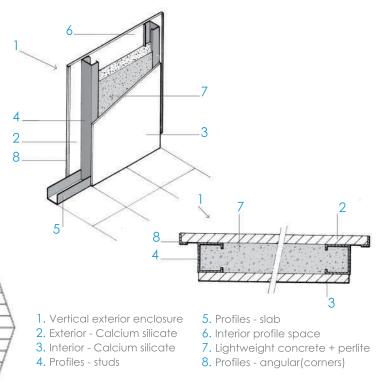
- 1. Access porch
- 2. dining room and living room
- 3. Kitchen
- 4. Exterior laundry

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- 5. Bedroom 6. Bathroom



SYSTEM COMPONENTS:



URBAN SYSTEM (fits on request)



COMPONENT DESCRIPTION SYSTEM GENERAL FEATURES

Steel frame is a constructive system whose main feature is a structure which consists in cold-formed profiles of galvanized steel. This system is basically formed by upright-profiles in C form (installed in vertical position separated 40-60 centimeters). On the borders, the profiles are screwed down to the track profiles (U form). These U form-profiles form the inferior and superior border of the whole grid.

The profiles are used to form structural and non-structural panels, secondary beams, ground beams, rafters and other components. These profile grids are later covered by different layers of panels. That is why we can talk about a Dry Construction system.

The profiles present reduced thickness and have drillings to let the electric and plumbing installation system go though them.

CONSTRUCTIVE PROCESS





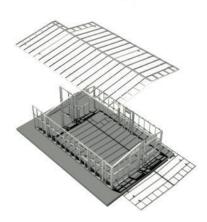






FINISHED HOUSE MODEL (exterior)





SYSTEM ADVANTAGES

Main advantages: Faster (almost 80% faster than traditional systems) lower construction costs (around 40% cheaper) Easier to handle

We can also emphasize and group the system advantages into 3 types:

1. ADVANTAGES OF THE CONSTRUCTIVE SYSTEM ITSELF:

Earthquake-proof system Fire proof system Light system Reciclable and environmental system Modular and panel based system adequacy and benefits not only in big but also in small projects Durability (profile sheet galvanization) Easy transport everywhere Investment in plants or models not needed Flexible to all kinds of design

2. ON SITE ADVANTAGES:

More cost-effective Faster Easier (easier assembly) Better thermic and acoustic insulation Dry system Cleaner construction site The system does not need high qualified workers Increases the usable floor area regarding to traditional systems Avoids overrun and setting-out on site Eliminates heavy machinery and reduces auxiliar construction elements Reduces the number of trades on site Simplification of the electrical and plumbing installations.

3. ADVANTAGES POST - WORK

Flexibility and simplicity in building extensions and renovations Easier, cleaner, faster and cheaper manteinance and repair works



