



ICF (INSULATED CONCRETE FRAMEWORK)

WHAT IS ICF?

ICF (Insulated Concrete Framework) is based on hollow lightweight insulated block components that can be locked together without the requirement for mortar to form a construction formwork frame.

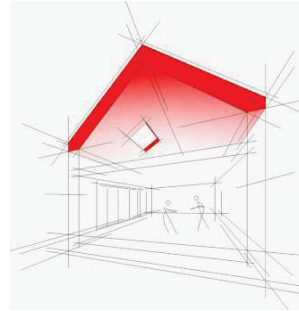
The space within the framework is then poured with concrete, creating a structurally strong concrete property with exceptionally high thermal properties. Webbing within the blocks tie the sides of the blocks together as well as allowing for reinforcement bars to be installed.

WHAT ARE THE ADVANTAGES?

- Reduced energy consumption
- Fire resistance
- Faster installation
- Sound reduction
- Lower fuel bills
- Reduced flood damage
- Reduced ancillary costs
- Overall cost saving
- Healthier living climate
- Storm/Earthquake resistant
- Easily adapted
- Excellent durability

THE BENEFITS OF USING JUB HOME:

- Unique 'through the wall' concept
- One manufacturer of the insulation and finishes
- One warranty for ICF and finishes
- 120 Minute fire rating
- U Value from 0.20W/m²k=K to 0.084W/m²K
- No need for cutting on site, therefore less wastage
- Insulated raft foundation
- JUB roof insulated system
- Passive house standard available
- ICF design service
- Reduced project management
- A manufacturer with over 140 years experience
- European technical approval and passive house certified
- Approved and monitored installers
- Approved by BLP insurance with a minimum 60 year durability



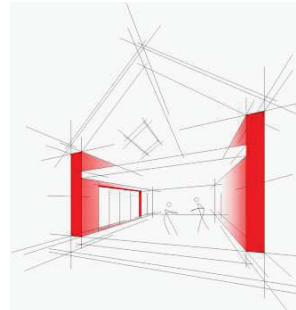
JUB HOME ROOF

Interlocking tongue and grooved EPS system for timber roof structures.

350mm thickness - U Value 0.093W/m²K

410mm thickness - U Value 0.080W/m²K

450mm thickness - U Value 0.073W/m²K



JUB HOME WALL

77 Standard wall elements.

300mm thickness - U Value 0.204W/m²K

390mm thickness - U Value 0.130W/m²K

465mm thickness - U Value 0.099W/m²K

525mm thickness - U Value 0.084W/m²K

Note. The 525mm wall element is not available until 2020.



DESIGNING THE ULTIMATE ENERGY EFFICIENT HOUSE WITH JUB HOME

Using the JUB Home ICF system is not only a highly efficient, economical method of building, but also the exceptional thermal levels achieved with the wall blocks, JUB Home is the ideal choice for achieving Passive House standards and reducing energy consumption costs.

The Jub Home system can also consist of future insulated raft system and JUB Home roof which provides not only high thermal performance, but also produces and airtight shell.

When designing and building a high thermal performance property, care and consideration should be undertaken with elements such as windows and doors as well as heat recovery and underfloor heating.

Thermal efficiency is not the only requirement for your property, you also require the building to impress and you never get a second chance to make a first impression. JUB has been a manufacturer of renders and paints for over 140 years and provide the highest quality rendering systems to ensure your property has the appearance it deserves as well as reducing ongoing maintenance. With our range of washable paints and the highly decorative polished plasters, designing the ultimate house has become much easier and with greater peace of mind as you are dealing with a single company for so many of your requirements.



- ① Future insulated raft system
- ② JUB Home wall
- ③ JUB Home roof
- ④ Airtight windows
- ⑤ Underfloor heating
- ⑥ Heat pump
- ⑦ MVHR Unit
- ⑧ Solar panels



BUILDING THE ULTIMATE ENERGY EFFICIENT HOUSE WITH JUB HOME

The JUB Home system is installed by approved contractors, such as Carbon System Homes Ltd, to ensure that the build process is as efficient and cost effective as possible.

JUB Home is also partnered with BLP Insurance for the building warranty scheme which also ensures less delays and problems with the administration of the build process.

Future insulated foundation is assembled upon a layer of lean concrete with a bituminous waterproof membrane. All services are brought through the base before the JUB base components are laid down. The blocks are cut to allow for the services and all openings sealed.

Reinforcement is installed across the foundation before the casting of the foundation takes place. Once the casting has been completed and levelled then the next stage can begin.

The JUB WALL components are all identified and installed in accordance with JUB Home site building plan. All closure plates will be fitted to seal off areas such as the windows and doors and prevent concrete leakage. Lintel and building dimensional blocks are installed where required ready for the first concrete pour at the top of the ground floor level. The structure is based prior to the concrete pour, the JUB Home specification for the concrete has a higher slump level than other ICF systems which means the pour rate is quicker. This is achieved due to the excellent strength qualities of an uncut system.

Once the JUB WALL has been constructed to roof level, then the space for the services on the internal walls can be cut out. It is recommended that a hot wire cutter is used for this to cut the channels out cleanly.

When the services have been installed and the roof is complete the internal plastering/rendering can commence.

JUB Home recommends it's base coat with glass fibre reinforcing mesh for added strength before using the Jubolin plaster finish internally.

The external render system used should be compatible with ICF blocks and JUB Home recommends it's base coat with reinforcing mesh (6mm) and one of the many topcoat renders. If the blocks have been exposed to sunlight for one month prior to the rendering taking place then it is recommended that the surface is rasped to remove the UV film which can affect the adhesion of the render.

Design your own home with Evolved.

