

ICF Crete Product Information



Ronez have developed sustainable ready-mixed concrete mixes for Insulated Concrete Formwork (ICF) applications.

Widely used in the USA, Canada and Continental Europe, ICF is a relatively new UK building technique which involves a series of hollow expanded polystyrene blocks into which ICF Crete is poured. The system combines the inherent strength of concrete with the excellent thermal insulation properties of polystyrene to produce cost-effective and durable structures. In addition ICF systems provide some of the inherent benefits of concrete construction, namely, sound insulation, air tightness, fire resistance, long-term performance and robustness.

- ICF formwork with ICF Crete provides a sustainable walling element with green guide ratings of A+ and A dependent on walling thickness and internal and external finishes
- Enables quick build of watertight shells

- ICF systems are highly air tight which improves comfort and less heat loss compared with leaky walls thermally bridged
- Acoustic performance easily exceeds the requirements of building regulations offering peace and quiet in multi dwelling construction
- Structural integrity for better resistance to forces of nature compared with framed walls
- Reduces HVAC operating costs by 30% - 70%
- No vertical heat loss through ICF party walls
- ICF structures offer a more comfortable, quiet, and energy – efficient environment than those built with traditional construction methods
- Designing and building with ICF's can help your construction project attain Ecohomes excellent, and high levels in the Code For Sustainable homes
- Insulation Concrete Formwork creates a monolithic concrete wall that is many times stronger than timber framing

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Product Information

COSHH data

Full COSHH data is available on request.

Applications

Interior and exterior walls using an ICF system in residential commercial and institutional applications. ICF systems are eminently suitable for basement construction

Finishes

The insulated structure may be clad internally and externally with a range of finishes, including plaster, plasterboard masonry, brick slips and renders.

Manufacturing standard

ICF Crete conforms with the requirement of European standard BS EN 206-1 concrete Part 1: Specification, performance, production and conformity with the requirements of BS8500-1 and BS 8500-2.

ICF Crete is manufactured under independently monitored third party assurance schemes in accordance with ISO 9001 and with factory environmental compliance to ISO 14001.

Performance

Walls up to 3m high can be poured usually by concrete pump into the empty core of the formwork.

It is good practice to fill the complete wall in lifts of approximately 1m and vibrate the concrete.

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