



## Steel Framing for ICF Construction since 2000

REPCo has been designing, engineering and supplying steel frame roof, interior wall and floor packages for ICF wall construction since the year 2000. Since then, we have optimized our system for ICF, allowing for vertical and horizontal adjustment to ease the construction process.

Roof truss clear spans are available to 100'. Floor truss clear spans in excess of 40 feet can be done with the REPCo System and the floors will be stable and have minimum deflection. REPCo can offer ICF users the ultimate in flexibility to meet any architectural and code requirements.

We have designed homes from 300 square feet to the largest steel frame home in the world, a 68,000 sq.ft. Castle, as well as commercial projects as large as 120,000 sq.ft. We thrive on designs that most other companies refuse to do.

REPCo will meet and exceed any code in the world. Our homes and buildings have survived major hurricanes and seismic events.

Some of the interesting ICF projects include:



This 9000 sq.ft. Home was built in Conyers, Georgia. Large spans, concrete covered decks and ICF exterior walls set this apart from the rest. It's architecture is Mediterranean. It is magnificent! Steel floor and roof trusses were included as well as interior walls.



This 6,000+ sq.ft. Contemporary home was built in Ballground, Georgia. It features a large cantilevered roof over floor to ceiling mitered glass window walls. Minimal bearing points necessitated large girder trusses and tube steel columns. All engineering by REPCo.



This home was built by the owner, his family and friends. It illustrates that if you want something enough, you can make it happen. It features a large open floor plan that suits today's life style. Some of the roof trusses are over 50' long. He assembled all the floor and roof trusses on site. The house came out Great!



This home has 4500 sq. ft. plus a basement, complete with an in-law suite. It incorporates steel frame floor and roof trusses as well as interior walls. An open floor plan is accented by a large Great Room. The roof trusses are 40'+ clear span.



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This 3300 sq. Ft. home was built in the Pensacola, Florida area. It features 12/12 vaulted scissor trusses above the great room. With the REPco roof system, you can have those high pitches in high wind and seismic areas. We have designed some of the most sophisticated roof designs with steel.



The REPco roof system for ICF has been designed to allow adjustability to set the roof trusses at the proper elevation in spite of the typical irregularities on the top of the ICF concrete wall. Anchor bolts are installed at each truss locations along with a high strength anchor clip. All connections from the anchor to the peak are in shear, which yields maximum strength.



Floor joist and truss systems are fastened to the ICF walls with ledger clips or anchor bolts. Thanks to the high strength rim track, the anchor clips can be located between the trusses or joists eliminating interference at the truss locations. Floor trusses are top bearing, making layout and installation a snap.

At REPco, we believe that building homes with ICF walls is one of the best construction techniques available today. For longevity, energy efficiency and strength it is hard to beat. REPco Industries Inc. Has spent the time and energy to develop the best approach for structural framing with ICF walls. We are committed to support this industry.

One of the main reasons that one chooses ICF is energy efficiency. Unlike other wood or steel systems, we utilize thermal breaks between the bottom chord of the roof truss and the sheetrock. This area is then filled with your choice of insulation, giving the most effective insulation properties. This is accomplished with our hat channel furring below the bottom chord. Over the years, we have used almost every type of insulation in our homes. We will be happy to pass on our experience.

We will start with a sketch, a full set of drawings or anything in between and complete them to your or your client's approval. We will supply engineered, sealed drawings for any state in the US. If some of your walls cannot be designed with ICF, we will supply steel framed walls with thermal breaks on both sides of the steel stud for thermal efficiency.

REPco has designed framing systems for a wide variety of ICF manufacturer's systems and will do so for your system of choice. All quotations are furnished at no cost to you or your customer.

For the ultimate in framing efficiency, strength and termite resistance, choose REPco. We will ship internationally as well as domestically.

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