



EXCALIBUR
STEEL STRUCTURES

"Providing Tomorrow's Home . . . Today"

STRUCTURAL STABILITY

Steel possesses the highest strength-to-weight ratio of any building material being utilized today. Steel construction offers clear span capabilities which virtually eliminate load bearing interior walls and allows for more open spaces, high ceilings and more flexibility for custom floor plans.

Excalibur Steel Structures'



homes are built with a "red iron" steel frame that replaces the typical stud or block walls of conventional construction. The frame totally supports the structure, so there are no load bearing walls inside. The structure is pre-engineered with all "red iron" components factory finished and ready to



The roof is installed on the load bearing, "red iron" frames leaving wall, floor and ceiling construction in the "dry."

bolt together at your house site.

Galvanized steel studs, joists, roof purlins and ceiling furring strips are then screwed in place to complete the framing.

Over the past decade, thousands of steel framed homes have been built. You haven't noticed them because they look just like conventionally built homes.



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Excalibur Steel Structures specializes in providing pre-engineered custom steel frame home packages and conversions of your home plans to our steel framing system.

Excalibur takes your ideas and designs a steel frame home package that meets your needs without restricting you to standard plans that may not fit your lifestyle or community.

WEATHER RESISTANT

Excalibur Steel Structures' "anchored to the foundation" design provides you a house that is much more resistant to damage from high winds seen in tornados and hurricanes. Houses can be easily designed to withstand up to 155 mph wind load and earthquake ratings of Seismic 4, the highest residential rating.

An Excalibur home offers better protection from lightning since the all-steel frame is well grounded and electrically continuous. Not only is it less likely to be struck by lightning, but should a strike occur, the energy is dissipated with little or no damage to the structure.



Excalibur's "anchored to the foundation" design provides exceptional structural strength against high winds, as well as being grounded to provide protection against damage from lightning.

FIRE PROOF FRAMING

Excalibur Steel Structures' homes provide greater protection from fire. The steel frame is non-combustible and will not contribute fuel to a fire. This helps prevent a fire from starting and will prevent any fire that should start from spreading through the framing members. This gives you and your family more time to escape and will reduce the damage a fire could cause.

Steel is commonly used in commercial construction to help meet fire codes. An Excalibur home can help make your home as safe for your family as the stores and offices they visit.



LOW MAINTENANCE

An Excalibur Steel Structures' home has lower maintenance requirements and a longer overall life due to steel's superior qualities as a framing material. Steel won't rot, crack, split, warp, sag or creep and does not change with humidity or weather. Squared corners stay square. Windows and doors open and close as they should. Straight walls stay straight. Floors don't buck and squeak.

Steel is termite proof and cannot be damaged by carpenter ants, mice or other vermin, eliminating the need for chemical extermination.



**Excalibur homes
are built with
high strength bolts and
self-tapping screws
instead of nails.**

***It's simply a better
way to build!***

The structure of an Excalibur home provides low maintenance. Unaffected by climactic changes, corners stay squared, windows and doors operate properly, walls stay straight and floors won't buck.



ENERGY EFFICIENT

Excalibur Steel Structures' homes can be up to 50% more energy efficient than a wood framed home. Because of the 8" thick exterior walls, an Excalibur home uses R-30 insulation instead of the standard R-11 insulation used in conventional construction. Air leakage caused by expansion cracks is greatly reduced because steel framing doesn't warp or expand and contract as the humidity changes.

In addition to lowering energy bills, the thickly insulated walls also block noise – making your Excalibur home quiet.

FLEXIBLE DESIGNS – EASIER REMODELING

Steel framing allows tremendous flexibility during design, construction and remodeling and can easily adapt to a family's changing needs. Additions or renovations are simpler because you can unscrew rather than rip walls apart. Due to the structural strength of steel framing, rooms can be larger and have more open space.

An Excalibur Steel Structures' home uses standard interior and exterior finish materials.



RECYCLED STEEL

Building an Excalibur Steel Structures' home instead of a wood framed home eliminates the need for timber from native old growth forests. With 66% recycled content, steel is the most recycled material in the world – and all steel is recyclable. Those old crushed cars go into the production of new high quality steel with no loss of strength. Since the majority of the steel framing is pre-cut, the amount of scrap from an Excalibur home is much less than from a conventional home and it can all be recycled.

CONSISTENT MATERIAL QUALITY

Steel building products are engineered to strict standards of strength and consistency. This allows the same high quality material to be supplied with each Excalibur Steel Structures' home. Framing crews don't spend time grading material to remove, or worse yet, to "work in" defective material.



Make your dream a reality.
Excalibur makes it simple –
no distributorship fees,
free estimates and
custom design services.

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