

# Steel Frames

**IMPACT**  
STEEL FRAMES

■ WALLS

■ ROOFS

■ JOISTS



For simply superior frames

■ **Impact Steel Frames**

STRONG STABLE DURABLE

Steel frames are ideal for new homes, multi-unit developments, apartments, storage units and commercial applications.

Impact has used steel frames since the mid 1990's. Internationally steel frames have been used for over 50 years and are common in countries such as the USA and Australia. Using the same dimensions as traditional timber framing, Impact steel frames and timber frames can be used interchangeably.

## The Benefits of Impact Frames

### Strong

Steel has one of the highest weight to strength ratios of all construction materials. This strength advantage means better design flexibility, wider spans, larger open spaces and better material usage.

Steel's strength offers you more cost effective design options, for example high stud walls in high wind zone to create a spacious atmosphere in your new home, greater joist spans to create more open spaces, etc. (Architects and designers can contact Impact Frames for all span tables).

Steel's high yield strength and fire-resistant qualities also enable steel framed structures to resist fire, earthquakes and high wind loads far better than wood framed structures.

### Stable & Straight

Steel is a totally stable material that provides a consistent product not subject to the variations of nature. Your walls, roof and ceilings are straight and true for the lifetime of your home.

Steel frames will not move after installation, twist, warp or 'settle' as is common with timber, especially treated timber. Impact Frames offer

a stable frame for your home and eliminates many common maintenance problems!

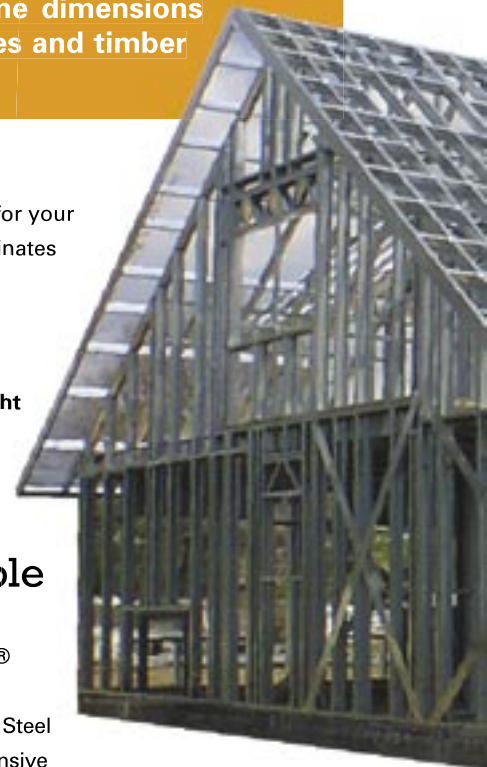
**Stable & Straight for the lifetime of your home**

### Durable

The Galvsteel™ or ZINCALUME® coated products supplied by N Z Steel Ltd has an extensive lifespan - it is corrosive resistant, it will not rot or absorb moisture or grow toxic mold, and will not be affected by insects like the borer moth and termites.

**Impact Steel Frames' are backed by a 50 year durability statement from NZ Steel Ltd.**

Impact frames have an equivalent or better durability than compared to H3.1 treated timber which ensures the longevity of your home. These durable frames are also used right throughout your whole home; from the bottom plate, to the midfloor joist, through to the roof; all the frames in your home are supplied in durable, stable and fire resistant steel.



# a superior building material”

## ■ Eco Friendly

Steel is non-toxic, recyclable and reduces your home's fire risk.

Steel requires no preservatives. Steel framed homes do not require pesticides or other toxic substances to protect them from rot, termites, vermin, or mold. Several countries have completely banned the toxic CCA treated timber for homes.

The American Lung Association also encourages the use of steel framing with it's Healthy House program.



Steel is 100% recyclable and can be recycled an infinite number of times without degradation. Worldwide, during the last decade more than 1 billion tons of steel scrap have been recycled, more than any other material, keeping this valuable commodity out of the nation's dwindling landfills.

## ■ Pre-designed

Impact's steel frames are manufactured from a computer controlled programme. We can directly import your architect's drawing or load-up your printed copies into our frame design software



which converts the design into precisely detailed frame components. This computer controlled manufacturing process eliminates job site cutting and sorting material waste, speeds-up pre-fabrication of roof and wall assemblies and thus reduce labour expense in the factory and on-site.

Each house is specifically designed and engineered to meet all your local Council's specifications. We provide construction plans and details to help the builder to correctly and quickly assemble the frames.

## ■ Fast Construction

Impact steel frames are easy to work with. They are delivered pre-assembled and weigh about 30% less than timber frames.

Because the frames are easy to handle on-site, they are quick to install and there is also no delays waiting for frames to dry.

Impact can also install the frames and thus by coordinating manufacture, delivery and installation with experienced installers, we can provide a fast construction time. We can even recommend sub-trades to again make your building process easier and faster.

During our installation process we also have regular quality inspection checks as well as a final sign-off and supply a completion Producer Statement to ensure your installed frames meet our strict quality standards.

## ■ Cost Effective

Steel framing is competitively priced in today's construction market. Compared to the price of wood, steel prices have remained very stable over the past decade. While the price of traditional wood framing materials has been erratic and growing at a rate much faster than inflation, steel prices have only experienced small adjustments over the last few years.

Because Impact Steel Frames are the same dimension as timber frames we can quote on your plans drawn in timber.

**Simply send us your plans and we'll give you a free quote.**

## Questions & Answers

### ■ What about the electrician & plumber?

Impact Steel Frames already have holes prepunched in the frames ready for the plumber and electrician.

### ■ Will the steel frame interfere with radios, phones, or TV reception?

No. Waves pass through the space between studs allowing the use of all of the radios, phones and television sets in your home.

### ■ What about lightning?

The steel frame offers the home occupants better protection than any other construction system. Scientists recommend seeking shelter in steel frame structures during lightning storms, because the steel frame provides a path to the ground reducing the likelihood of explosions, secondary fires or personal injury.

### ■ Can I convert my plan from wood to steel?

Plans for wood can easily be converted to Impact Steel Frames. Typically pricing on your plans can be completed within one week.

### ■ Does a steel frame house look any different?

Absolutely not. You can apply the same interior and exterior finishing materials as a wood frame home. However, you get a superior product. And yes, you can hang pictures in Gib board or anchor into a steel stud using standard fine point screws.

Steel frames provide you with **peace of mind. No more** worries about walls buckling or cracks appearing with changes in temperature or moisture. **No more** nails popping, toxic chemicals, timber rotting, mould growing, or insects damaging your home's frame. **No more** waiting for treated timber frames to dry during your construction process. Reduce the risk of fire. **Use steel frames in your home.**



### Strong

- offering more design options

### Stable

- during the complete lifetime of your home

### Durable

- backed by NZ Steel Ltd for at least 50 years

Impact Steel Frames offer a superior steel frame at a competitive price.

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