



# Thermawise

## H O M E S

## Structural Insulated Panel (SIPS) Construction

SIPS is a rapidly growing building construction system particularly in Europe and the USA.

It is a result of the need to produce more sustainable homes, with;

- Lower heating and cooling requirements due to higher insulation levels
- Healthier inside air quality due to better sealing and air control
- Shorter build times to reduce exposure to the weather
- Higher levels of recyclability
- Greater resistance to extreme weather events.
- Reduced building costs.
- No wall cavity to allow 'leaky home' problems and wet insulation.

The SIPS system used by Thermawise uses panels composed of two sheets of .6mm colorsteel with a factory-bonded core of insulating foam.

The steel sheets give immense strength to the structure when bonded together on site, with a specialised polyurethane sealant adhesive, originally designed for the automotive industry.

The foam core provides continuous insulation that will never "pack down" and isn't bridged with studs and dwangs as in standard timber construction.

A range of foam cores is available to meet specific requirements, but the most commonly used both in NZ and elsewhere, is expanded polystyrene EPS.

The Thermawise panels are factory produced to carefully controlled specifications and are erected on site with a minimum of labour and very quickly. A typical house is closed in ready for services and interior finishes in between 3 and 7 days from the floor slab being completed.

Thermawise will design and build to suit your individual site and requirements or we have a range of designs for you to choose from.

Every Thermawise home has its own engineering certification. The designs can meet the world's highest hurricane code requirements.



Phone: 06 368 5293 Fax: 06 368 5294

Cell: 027 443 5964 Email: [grant@thermawise.co.nz](mailto:grant@thermawise.co.nz)



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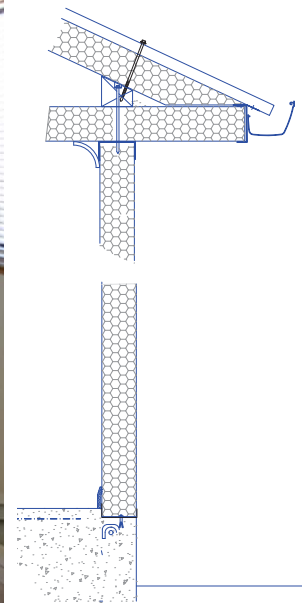
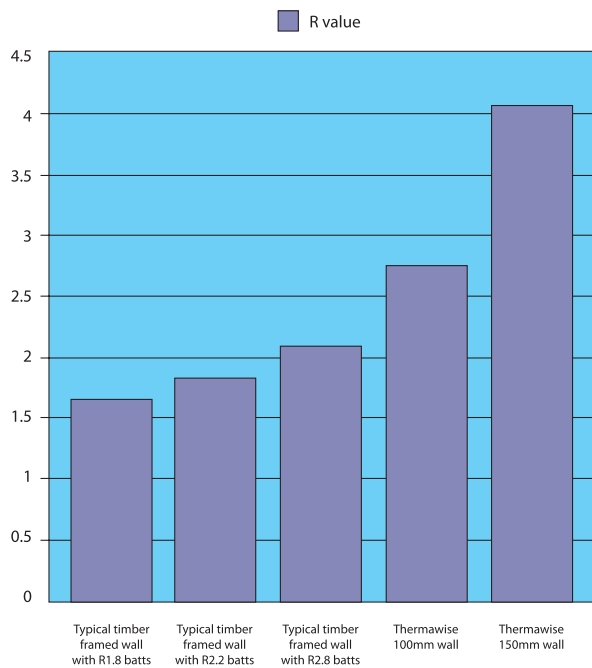
## H O M E S

• Faster • Affordable • Better insulated

### Insulation

Conventional timber framed walls with standard batts insulation will have an R value of R1.64. With the most costly fibreglass insulation the value will rise to R2.075.

Thermawise std 100mm wall, roof and ceiling panels have an R value of R2.75. In addition, because the panels are sealed against air movement their performance is further enhanced.



Free phone: 0800 BUILD WARM  
[www.thermawise.co.nz](http://www.thermawise.co.nz)