

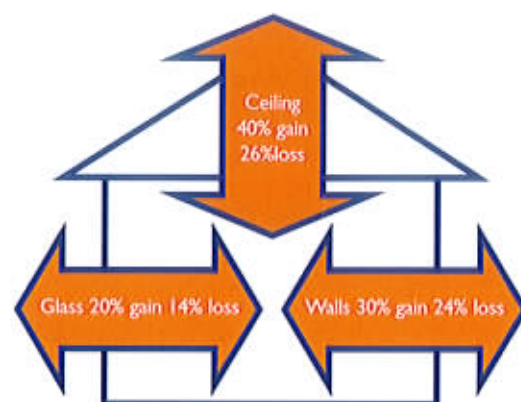
Insulation and your home

Sometimes your home can be your own worst enemy when it comes to feeling comfortable.

Our **summer** sun for example, can heat a roof to temperatures as hot as **65 degrees celsius**. Even light coloured walls can be heated to temperatures as high as **55 degrees celsius**. In an uninsulated house, as much as **40% of this heat** can penetrate through the ceiling alone.

And in winter the reverse is true. A home can lose as much as **26% of its warmth** through the ceiling and as much as **24% through the walls**.

It therefore makes great sense to insulate your home and feel comfortable all year round – and just think of the savings on those energy bills! Your insulation will pay for itself in less than five years.



Some Frequently Asked Questions

How does insulation work?

Insulation in its many forms, reduce heat transfer. In the summer it keeps the outside heat out and in winter, it keeps the inside heat in.

What types of insulation is there?

There are basically two types of insulation – bulk insulation and reflective insulation. Bulk insulation absorbs heat and reflective insulation reflects heat. QIS Solarwise can supply and install all forms of insulation below.

Bulk				Reflective	Both	
Glasswool	Cellulose	Polyester	Wool/Polyester Mix	Reflective Batts	Glasswool with Foil	Polyester with Foil
✓ Care in handling	✓ Loose fill	✓ Safe to handle	✓ Australian wool	✓ Safe to handle	✓ Care in handling	✓ Stops 95% radiant heat
✓ Low cost	✓ Safe to handle	✓ Hypo-allergenic	✓ Safe to handle	✓ Hypo-allergenic	✓ Stops 95% radiant heat	✓ Bulk to protect against convection heat
✓ Fire Safe	✓ 75% Recycled	✓ Fire Retardant	✓ Hypo-allergenic	✓ Blocks 95% radiant heat	✓ Bulk also protects against convection heat	✓ Fire retardant
✓ Noise Reduction	✓ Low cost	✓ Noise reduction	✓ Fire Retardant	✓ Fire resistant	✓ Fire retardant	✓ R2.5 - R3.5
✓ R1.5 - R3.5	✓ Fire Retardant	✓ R1.5 to R3.0	✓ Noise reduction	✓ Cost-effective	✓ Cost effective	✓ Primarily ceilings
✓ Walls and ceilings	✓ R1.5 - R3.0	✓ Walls and ceilings	✓ R1.5 to R3.5	✓ Ext. walls & roofing	✓ R2.5 - R3.5	
	✓ Generally recommended for flat ceilings only			✓ Barrier to dirt, dust and drafts	✓ Primarily under roofs	
				✓ R4.0 and R6.0 Summer		
				✓ Up to R2.7 Winter		

What insulation does my home need?

Ideally a home should be insulated in the ceiling as well as the external and internal walls. Most people start with insulating their ceiling as most heat is transferred through this area.

How much will it cost?

As a guide, allow \$8 to \$18 per square metre. **Prices will be cheaper for D.I.Y.**

Is insulation a fire hazard?

No. All insulation must meet Fire Safety Standards. Some forms actually help retard the spread of fire.

What about summer heat through west and east facing windows?

As an enormous amount of heat radiates through unprotected windows, it is advisable to protect them with solar film.

What about ventilators?

Ventilators are effective in taking the load off your bulk insulation to enhance its cooling performance – particularly at night. Ventilators are not an alternative to insulating your home.

How do I select an insulation company to deal with?

A proven track record is important. Make sure you deal with a company that has been around for a while and is well regarded in the industry.

How To Get The Most Out Of Your Insulation

In Summer

- The house should be kept closed on hot days to maintain a cooler pocket of air in the home and fans should be used to circulate the air.
- The house should then be opened in the evening to allow the house to cool down quickly.

In Winter

- Open the house and blinds/curtains to warm the house during the day.
- Close the house up in the evening to keep the warmth in.

Remember: Insulation is not air conditioning!

Note: In times of high humidity and little breeze, insulation may appear to provide little or no relief. This is where the most effective answer is air-conditioning. However, to ensure your air-conditioning works effectively and to reduce running costs, insulation should be installed.



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