



Bradford™
for smarter
environments



Insulation + Ventilation

A Smarter Comfort Solution

Plus
Save more
on energy
costs

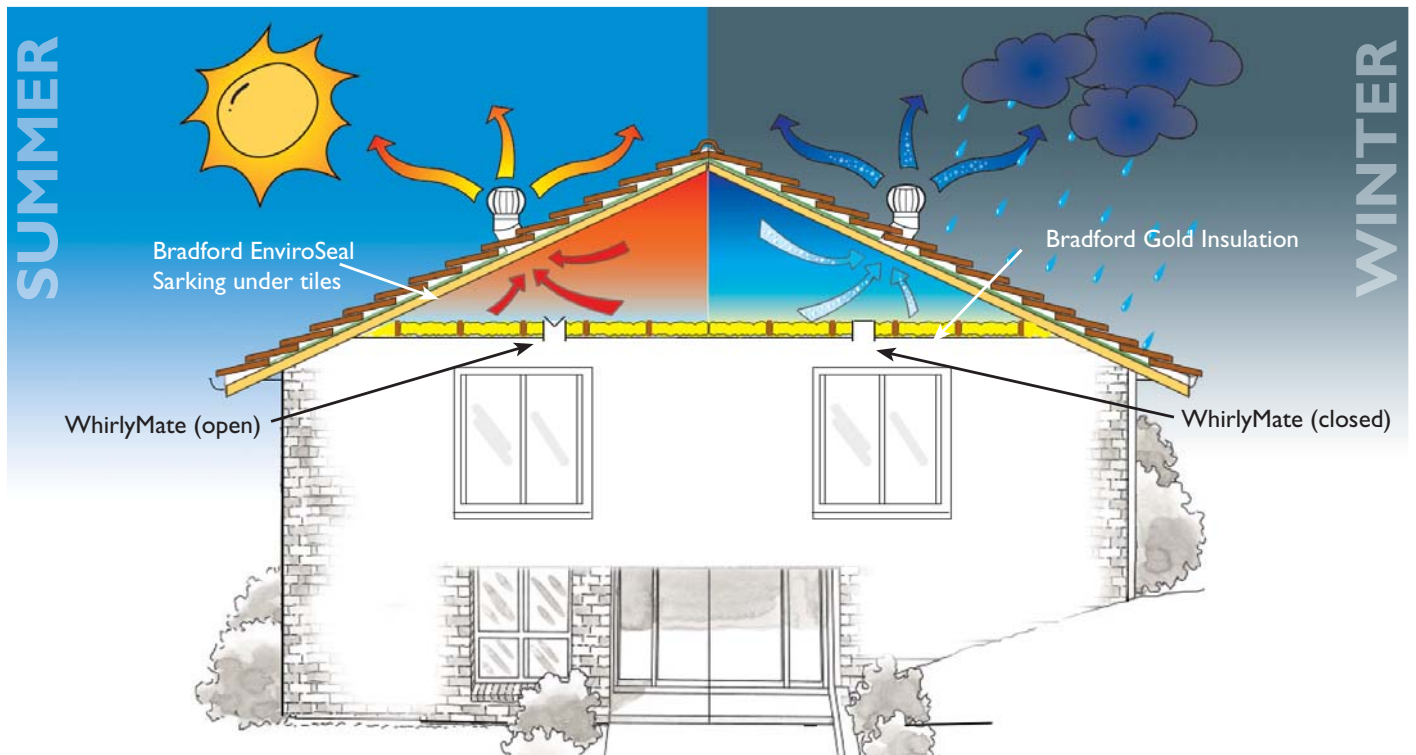


SUPERCHARGE YOUR INSULATION

Insulation does a great job of slowing the transfer of heat between the roof space and the living space in your home. But on hot days, heat can still build up over time.

When you consider that the heat inside your roof can reach over 70°C you can understand the tough job that insulation has to do.

Edmonds roof ventilators reduce the roofspace heat buildup by expelling hot air which enables it to be replaced with ambient temperature air from outside. This makes your insulation work far more effectively.



INSULATION + VENTILATION

Bradford Gold ceiling insulation - absolutely essential

- Stops up to 70% of heat transfer through your ceiling
- Keeps your home cooler in summer, warmer in winter
- Saves on heating and cooling energy costs
- Lifetime guarantee
- A cost effective way to improve your home's comfort

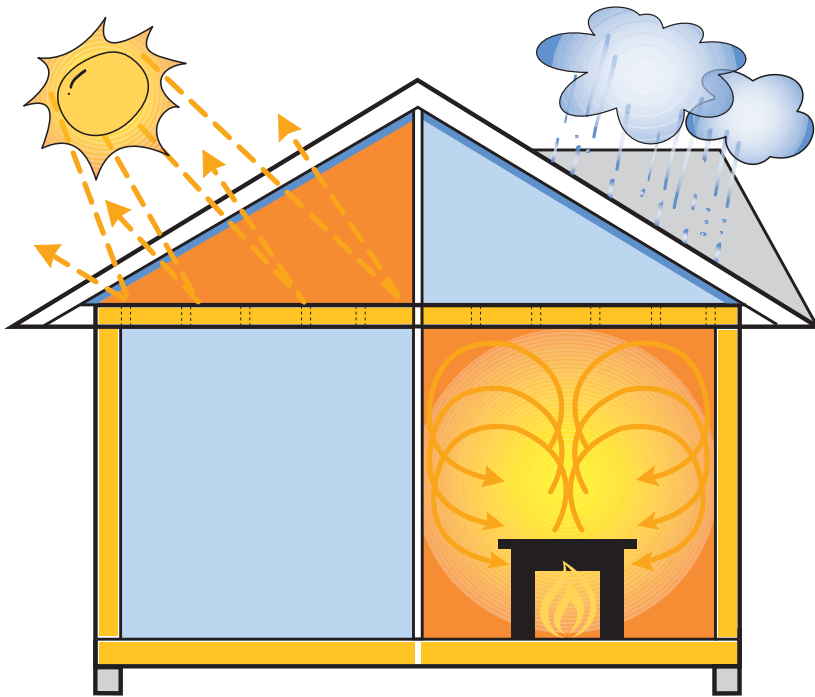
Edmonds ventilation - improving insulation effectiveness

- Gets rid of the hot air in your roof space in summer to help your insulation work far more effectively
- Expels damp air in winter which can affect building structures and the effectiveness of insulation
- Decreases the heat load on ceiling ducted air conditioning
- Increases your energy cost savings
- An inexpensive way to further improve your home's comfort

HOW DOES IT WORK?

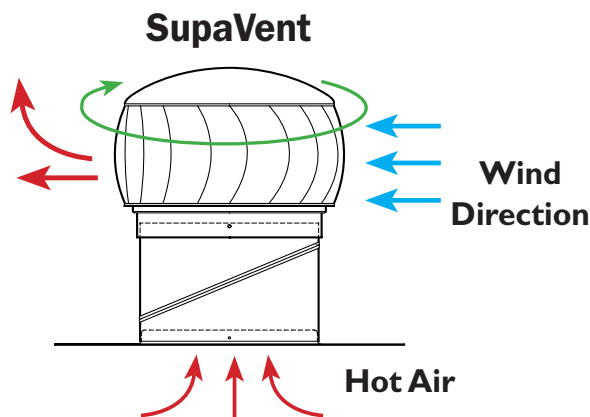
Bradford Gold Insulation

- Without insulation, even the best designed and constructed home will allow heat to pass through external surfaces - as much as 42% of a home's heat can transfer through the ceiling alone.
- This means that in summer, your home will get hotter faster and in winter it will be harder to keep warm
- The millions of tiny air cells in Bradford Gold Insulation slow the transfer of heat through your ceiling to keep the temperature inside your home more even all year round.

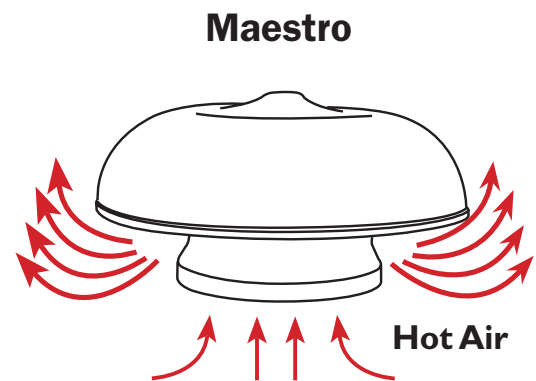


Edmonds Ventilation

While insulation slows the transfer of heat into your home in summer, ventilation works actively to reduce temperatures by replacing trapped hot air with cooler, ambient temperature air from outside.



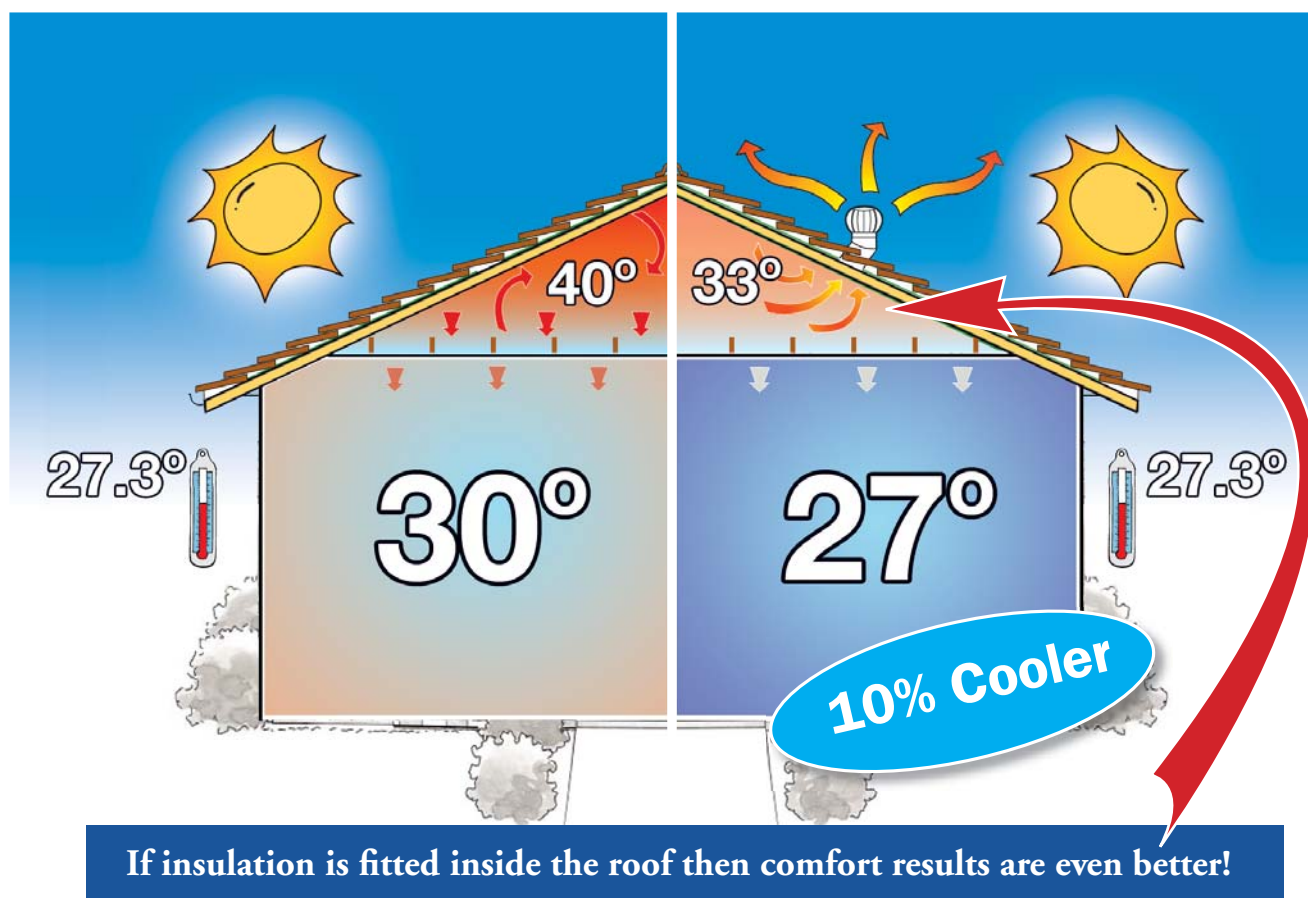
A wind powered ventilator such as Edmonds SupaVent works by the exhaust forces created by the turning turbine.



A mechanical ventilator such as Edmonds Maestro is electrically or solar powered and provides a predictable flow rate at a low operating cost (less than \$10 per year)

WE PUT VENTILATION TO THE TEST

In a controlled test in an uninsulated, Sydney suburban home during summer, we found that the roofspace temperature was **20% hotter without ventilation**. But importantly, the inside of the home was **10% cooler with ventilation**.



Note: Test were carried out by Edmonds in the hallway of a sample house in Hornsby during summer - 4 bedroom, 2 storey, brick veneer, tiled, sarked roof, separate lounge and dining, double garage, approx 35 squares.

Living space ventilation

By installing an Edmonds WhirlyMate ceiling grille in conjunction with roof ventilation, you can have more control over the interior temperature of your home.

WhirlyMate grilles are openable to allow warm air to escape from the living space. In cooler periods the WhirlyMate can be closed to retain warm air in the living space.

An ideal companion for air conditioning

Because Edmonds ventilation keeps your home cooler in summer, your air conditioning won't need to work as hard. So you'll be just as comfortable but spending less on energy.

If you have air conditioning ducts in your roof space, Edmonds ventilation helps even more by reducing the heat load on the ducts.

Enjoy the benefits of energy savings

The CSIRO helped to develop AccuRate software which is used to rate the energy efficiency of residential dwellings. The software recognises ventilation as a factor in reducing household heating and cooling energy loads, over and above the benefits that insulation provides. Results for a brick veneer, concrete slab, tiled roof house, with Building Code of Australia (BCA) 2006 energy efficiency provisions 'deemed to comply' levels of ceiling insulation, show that savings of around 4% - 5% can be achieved. This translates into real \$ savings, year after year.

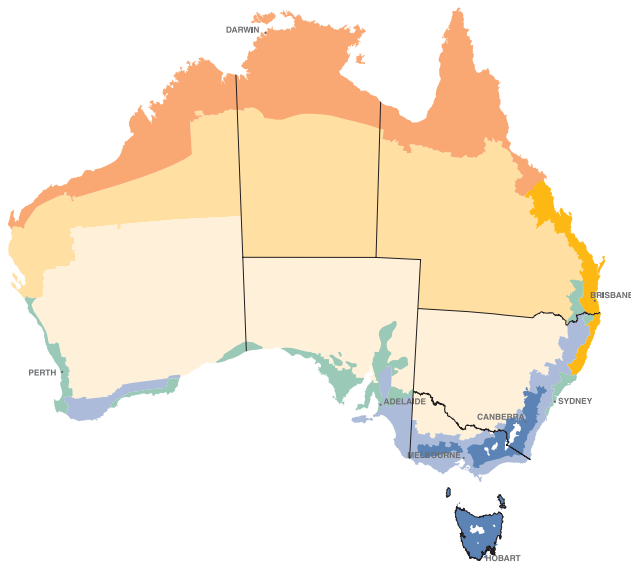
WHAT'S RIGHT FOR YOUR HOME?

Knowing the best combination of insulation + ventilation for your home is dependent on a number of factors including location, aspect, windows and much more. Your Bradford Approved Distributor will be able to assess your particular situation and advise you of what's best for you.

Minimum levels

As a rule, you can use the 'deemed to comply' insulation levels in the BCA to establish the minimum level of insulation which would be required for a new home to comply. Then, add the right amount of wind powered vents for your size and shape home.

Minimum levels of Bradford Insulation products to meet the BCA provisions



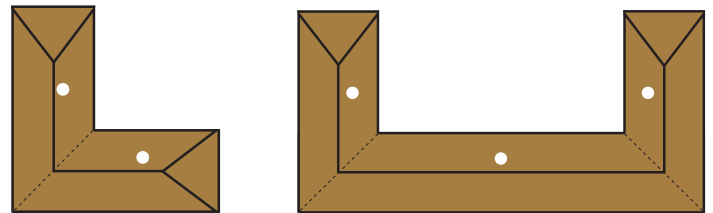
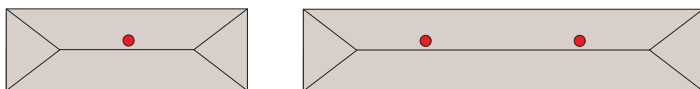
Climate Zone	Direction of Heatflow	Tile Roof without Foil	Tile Roof with Enviroseal Roof	Metal pitched roof with flat ceiling
Zone 1	Downwards	R2.0	R1.5	Anticon 95
Zone 2 <300m	Downwards	R2.0	R1.5	Anticon 95
Zone 2 >300m	Upwards & downwards	R3.0	R2.5	Anticon 55 + R1.5 Batts
Zone 3	Upwards	R2.5	R2.0	Anticon 95
Zone 4	Upwards	R3.5	R3.0	Anticon 55 + R1.5 Batts
Zone 5	Upwards	R3.0	R2.5	Anticon 55 + R1.5 Batts
Zone 6	Upwards	R3.5	R3.0	Anticon 55 + R2.0 Batts
Zone 7	Upwards	R4.5	R4.0	Anticon 55 + R2.5 Batts
Zone 8	Upwards	R5.0	R4.5	Anticon 55 + R3.0 Batts

Building Squares	m ²	No. of Vents
<10	<90	1
11 - 20	91 - 180	2
21 - 30	181 - 270	3
30+	270+	4+

Recommended ventilation levels



If your roof is a regular shape, one vent is sufficient for around 10 squares (90m²).

Suggested placement



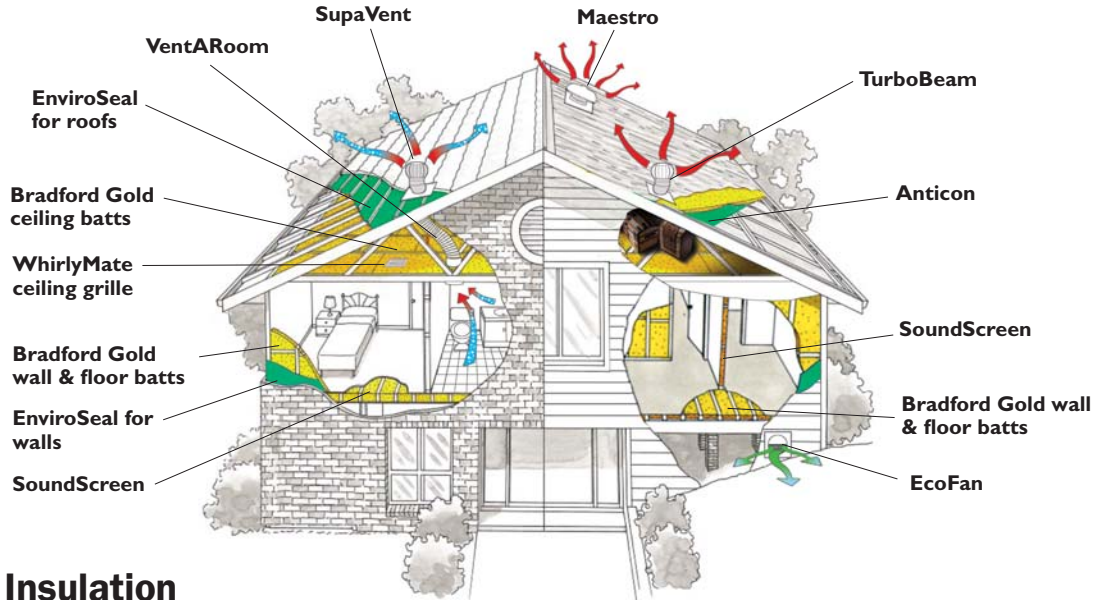
Improve your comfort even more

You can achieve higher levels of comfort in your home by increasing the level of insulation & upgrading the ventilation you choose.

	← Minimum Better Best →			
INSULATION	BCA R-Value	Minimum + R1.0	Minimum + R2.0	
	Wind Powered	Living Space	Mechanical	Ceiling Grilles
VENTILATION	SupaVent	VentARoom	Maestro	WhirlyMate
				
			+	

INSULATION + VENTILATION FOR EVERYWHERE IT'S NEEDED

Insulation and roof space ventilation is the smartest way to improve your home's comfort. Bradford Insulation and Edmonds Ventilation have products for all your insulation and ventilation needs.



Bradford Insulation

Bradford Gold	SoundScreen	Anticon	EnviroSeal
The most cost effective solution for walls, ceilings and floors with a full range of R-Values to suit all climates	High performance insulation with increased noise control. For use in internal and external walls, ceilings and between floors in 2 storey homes.	Foil faced blanket insulation specifically developed as thermal and acoustic insulation and condensation control under metal deck roofs.	Foil insulation that reflects radiant heat and provides additional protection against weather and dust when installed in walls and roofs.

Edmonds Ventilation

Windmaster	SupraVent	TurboBeam	VentARoom	Maestro	EcoFan
300mm aluminium ventilator available in a choice of 26 colours, the largest choice of any ventilator in Australia.	Made from hail resistant polymer, vertical blade design and stainless steel bearing. 15 year warranty.	Adds light to attics and sheds. Made from sturdy acrylic with lubricated bearings for long life and performance.	Removes trapped heat, directly from the room, to help maintain comfort levels.	A high efficiency power ventilator that does the job of up to four wind powered ventilators. 12v or solar.	Low voltage powered fan to remove stale damp air from sub floors.

Bradford™
for smarter environments

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