

» SUSTAINABLE ROOFING

INSULATION, VENTILATION AND SARKING



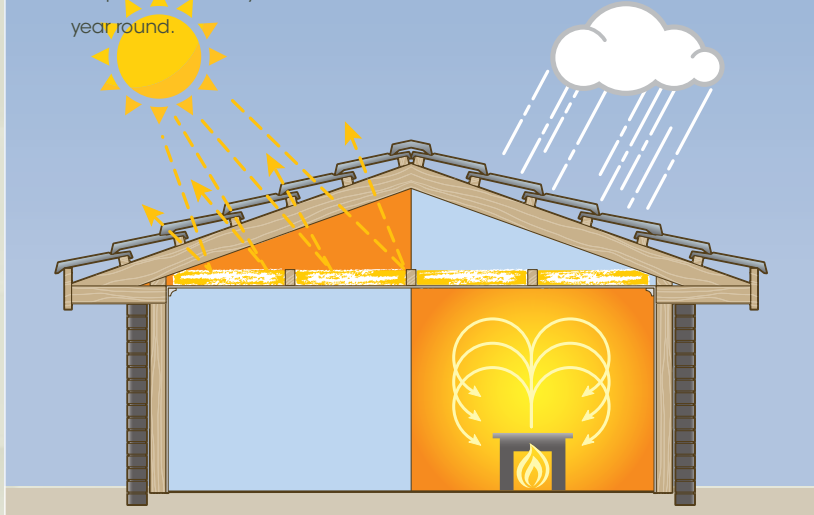
People look up to Bristile

BRADFORD GOLD INSULATION

BENEFITS OF BULK INSULATION

- Increased thermal comfort
- Lower heating and cooling costs
- A quieter home
- The millions of tiny air cells in Bradford Gold Insulation slow the transfer of heat through your ceiling and helps regulate the temperature inside your home all year round.

- 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 hot faster and in winter it will be harder to keep warm.



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 insulation and ventilation as factors in reducing household heating and cooling energy loads.

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 additional savings of around 4% - 5% can be achieved by including roof ventilation. This translates into substantial savings, year after year.

INSULATION SAVES

Bulk insulation in your ceiling is a cost efficient means of achieving a more consistent temperature inside your home. By lowering the reliance on heating and cooling appliances, substantial savings in your home's energy costs can be achieved.

Bristle Roofing recommends Bradford Gold Insulation, a trusted Australian insulation brand.



IDEAL COMPANIONS FOR AIR CONDITIONING

If your home is air conditioned, the inclusion of Bradford Gold Insulation and EnviroSeal™ Roof Tile Plus will help keep your home cooler in summer so that your air conditioning won't need to work as hard and as a result you won't spend as much 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.



ENVIROSEAL™ ROOF TILE PLUS

ROOF SARKING

Roof Sarking under tiles provides a reflective barrier which reduces the amount of heat transfer into and out of your home. It also acts as a weatherproof barrier to stop moisture entering your home in extreme weather conditions. Bristle Roofing recommends the installation of sarking (an impermeable reflective foil sarking) regardless of roof pitch or the location of your home.



ENERGY EFFICIENCY

All new homes in Australia are now required to meet minimum standards of energy efficiency. Installing sarking in your ceiling space will help minimise the loss of precious heat during the winter, keep your home cool during the summer and help reduce your energy use. When installed under roof tiles, sarking will reflect up to 95% of radiant heat away from the roof space and

can add up to R1.3 to the thermal resistance of the roof system.

PROTECTING YOUR HOME

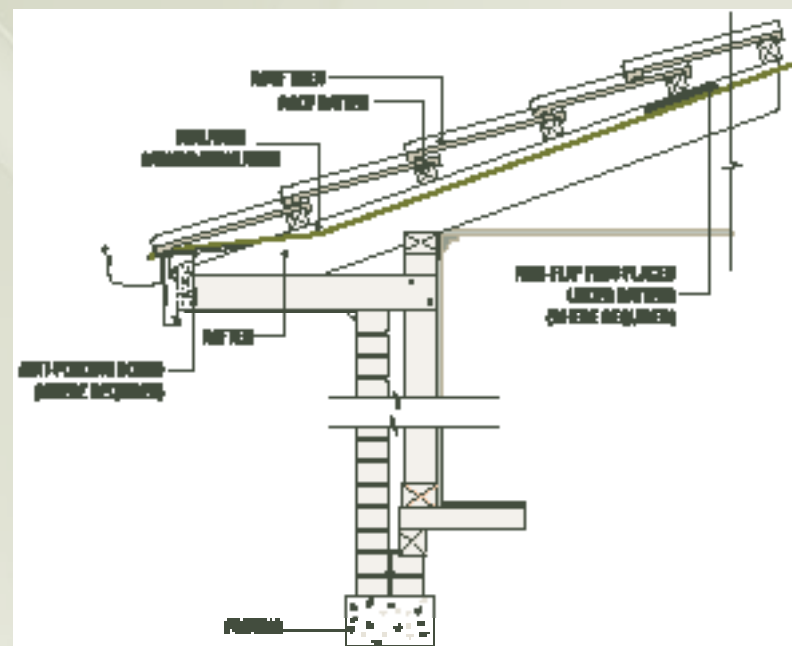
Including sarking in your roof offers a number of key benefits:

- **Dust barrier** – In an unsarked roof, airborne dust can enter and collect in the ceiling space, bringing potentially harmful contaminants into your home. Sarking will significantly reduce the build up of dust in your roof space, giving you a more comfortable living environment.
- **Bushfire protection** – Sarking is mandatory in bushfire prone areas. Sarking helps protect your home from flying embers entering the ceiling space through the roof in the event of a bushfire.
- **Storm protection** – In extreme weather conditions, hail or flying debris can damage the

roof. Sarking can assist channel moisture away into the gutters and protecting the interior of your home from potential water damage.

NOW'S YOUR CHANCE

As sarking can only be fitted during initial roof installation, this is your only opportunity to ensure you enjoy the additional comfort, security and savings of a sarked Bristle Roofing roof.



SAVE ON
ENERGY
COSTS

HIA GreenSmart®
LEADER

WE TEST VENTILATION

SARKING

Sarking is installed under roof tiles reflecting as much as 95% of radiant heat away from the home.

BENEFITS OF SARKING

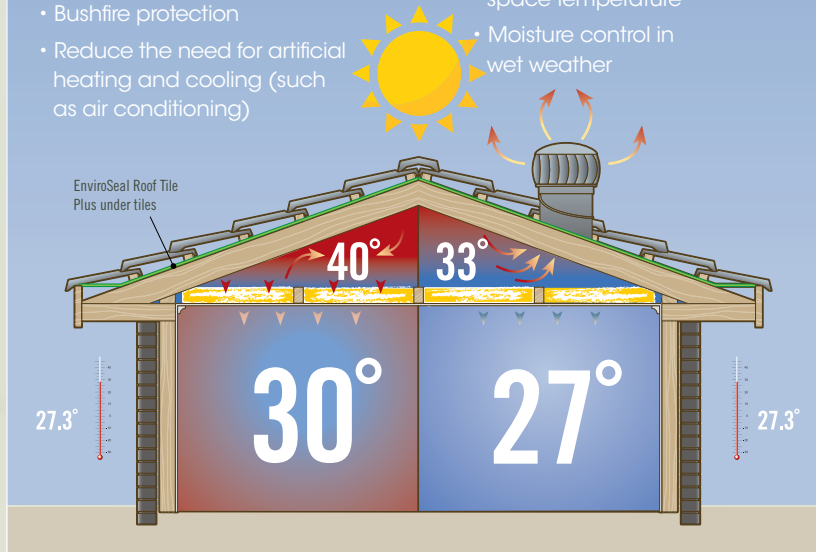
- Weather protection
- Dust reduction
- Increased energy efficiency
- Bushfire protection
- Reduce the need for artificial heating and cooling (such as air conditioning)

VENTILATION

Heat is extracted from the roof cavity through ventilation systems.

BENEFITS OF VENTILATION

- Reduced roof space temperature
- More pleasant living space temperature
- Moisture control in wet weather



ROOF VENTILATION

When you consider that in summer, the heat inside your roof can reach over 70°C you can understand the tough job that insulation and ventilation have to do. Ventilation reduces the buildup of heat in your roof space and allows your insulation to work far more effectively.

10% COOLER

In a controlled test in an uninsulated, Sydney suburban home during summer, the roofspace temperature was 17.5% hotter without ventilation. But importantly, the inside of the home was 10% cooler with ventilation.

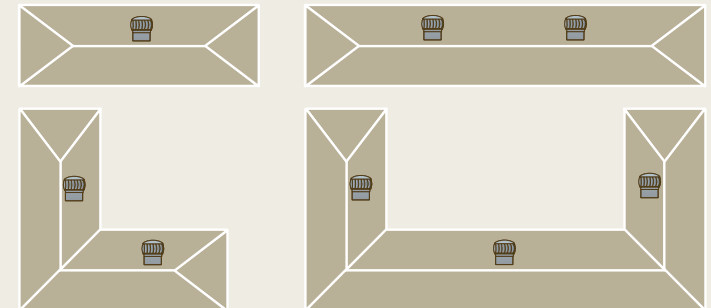
Note: Tests were carried out by Edmonds in the hallway of a sample house in Hornsby during summer

- 4 bedroom, 2 storey, brick veneer, tiled, sarked roof, separate lounge and dining, double garage, approximately 35 squares.

HOW DOES VENTILATION WORK?

Ventilation works actively to reduce temperature build up by replacing trapped hot air with cooler, ambient air from outside. A wind powered ventilator works through the exhaust forces created by the turning turbine.

SUGGESTED VENTILATION PLACEMENT



EDMONDS VENTILATION



RECOMMENDED VENTILATION LEVELS

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

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



EDMONDS COLOUR



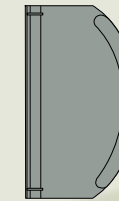
NIGHT SKY™



WOODLAND GREY™



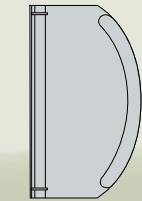
JASPER



BUSHLAND



DUNE



SHALE GREY™



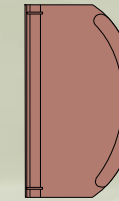
BROWN



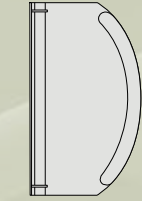
MANOR RED™



CLAY POT



PAPER BARK™



SURFMIST™



IRONSTONE



DEEP OCEAN®



COTTAGE GREEN™



PALE EUCALYPT™

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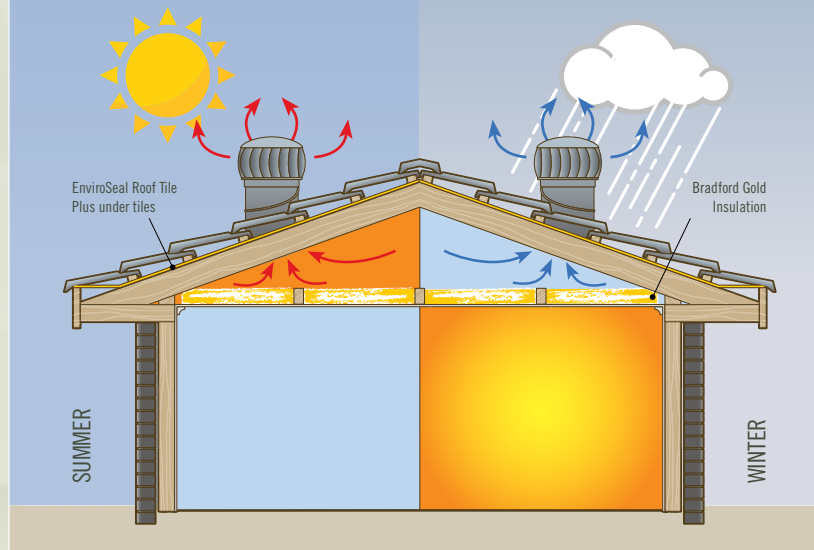
SAVE ON ENERGY COSTS

HIA GreenSmart® LEADER

A SMART IDEA, ALL YEAR ROUND

The roof of any home plays a critical role in determining how comfortable that home will be to live in. To ensure you get the maximum benefit from your roof, we'd like to take a moment of your time to talk about the benefits of roof insulation (bulk

insulation and sarking) and roof ventilation. With Bradford Gold Insulation, Enviroseal™ Roof Tile Plus and Edmonds Ventilation, your home can be much cooler in summer, warmer in winter and more energy efficient all year round.



ROOF SARKING BENEFITS

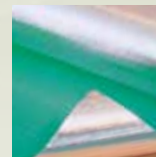
- Reflects as much as 95% of heat away from the home
- Acts as a barrier to dust
- Provides bush fire protection
- Is a secondary barrier to water run off
- Reduces the need for heating and cooling devices
- Provides additional storm protection

EDMONDS VENTILATION

- Eliminates the hot air from the 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
- Reduced energy costs
- An inexpensive way to further improve your home's comfort

BRADFORD GOLD INSULATION & ENVIROSEAL™ ROOF TILE PLUS

- Significantly reduces heat transfer through the ceiling
- Keeps your home cooler in summer and warmer in winter
- Saves on heating and cooling energy costs
- Lifetime guarantee
- A cost effective way to improve your home's comfort



SARKING



VENTILATION



INSULATION

WHAT'S RIGHT FOR YOUR HOME

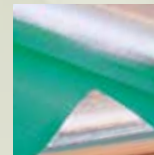


SARKING

WHAT'S RIGHT FOR YOUR HOME?

The best combination of insulation and ventilation for your home is dependent on a number of factors including location, aspect, windows and much more. A Building Designer or Architect will be able to assess your particular situation and advise what's best for you.

BETTER

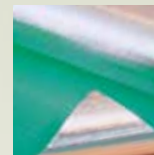


SARKING



VENTILATION

BEST



SARKING



VENTILATION



INSULATION



SAVE ON
ENERGY
COSTS

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