



## Insulation and R-value

Vinyl Cladding, when combined with additional insulation solutions, can significantly boost energy efficiency, increasing a building's r-value.

### Foam insulation

Polystyrene foam is a lightweight, cost effective form of insulation. When installed with vinyl cladding, in accordance with the Australian Standards, it can provide significant energy cost savings. Using Standard, Premium or **SuperFoam™** backing increases insulation, greatly reducing the range of temperature variation inside. The building becomes naturally cooler in summer and warmer in winter. This can lead to a less power required to control inside temperature and a reduced carbon footprint. The result is lower energy bills and a more consistently comfortable home.

### Insulation wrap

Trapped air is an excellent insulator, as long as the air is not moving. This principal is used in double glazed windows and the Thermos® flask – two good examples of trapped air working as a successful insulator. Correct installation of insulated vinyl cladding over existing timber or fibre cement (fibro) walls – or on a new framework with an underlay, creates an air gap inside the wall, acting as an excellent insulator. Use of in-wall insulation such as fibreglass batts and a wall wrap underlay such as **Sisalation** or Tyvek will improve insulation even further.

### R-value

The recommended installation of foam backed vinyl cladding over framework with an underlay of plywood or fibre cement sheeting with an air gap created by 90mm framework achieves an R-value of approximately 1.5. This R-value can be increased with the use of in-wall insulation such as fibreglass batts and a sisalation wrap. An R-value of 3.0 should easily be achieved if these principles are adhered and installed to Australian Standards.

### Environmental

The great advantage of foam-backed insulated vinyl cladding is the ability to add a layer of insulation to the entire home without any demolition or reconstruction, resulting in higher insulation levels and energy savings year after year. Good news for the homeowner and the planet.

Find out more about [vinyl cladding insulation and r-value](#).



### Products

**Cambridge Vinyl Cladding**  
**Cedarline Vinyl Cladding**  
**Duratuff Vinyl Cladding**  
**Vertical Vinyl Cladding**

### Brands



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