

GREENBOARD™

INSULATED WALL CLADDING

Greenboard™ is an Insulated Wall Panel that combines exterior cladding with insulation so designers can achieve the 6 star energy ratings that have been introduced into the building code. **Greenboard™**'s insulated core of high quality expanded polystyrene puts the **Greenboard™** insulated panel in the best place of the building, as far towards the outer side as possible.

Greenboard™ Insulated Wall Panel is a lightweight, energy efficient product and once coated the system provides a weather resistant, seam free rendered finish.

Greenboard™ Advantages

CodeMark Certification

All building products must comply with the BCA (Building Code of Australia). NRG Building Systems has achieved CodeMark on **Greenboard™** Insulated Wall Cladding meaning **Greenboard™** complies to the BCA.

Insulation Qualities

All insulation materials are rated for their performance in restricting heat transfer. This rating is expressed as an R-value which is a measure of the material's resistance to heat transfer (thermal resistance). The higher the R-value the greater insulating effect.

Total Wall R-value for using Greenboard™				
Thickness (mm)	40mm	60mm	75mm	100mm
R-value on total wall	1.92 R	2.44 R	2.83 R	3.48 R

Sound Rating

NRG Building Systems has tested 60mm **Greenboard™** total wall system and the acoustic performance result was Rw35,Ctr-6. Please refer to NRG test results. The **Greenboard™** walling system can be further enhanced by using a "sound rated" insulation batt. Please refer to insulation manufacture's specifications.

Fire Retardant

Greenboard™ contains a flame retardant additive and will not support fire, it has a spread of flame index of zero. If in a fire situation the toxic fumes are no greater than that of timber and other building materials.

Grooved Panel

The surface of the **Greenboard™** panel is Grooved both sides allowing the inside surface to breathe and channel any possible condensation away through the Grooves, downwards to the base of the wall. This is particularly important where “insulation” or “breather sarking” is used. The additional advantage being that when the Grooved face of **Greenboard™** is rendered the system becomes stronger as the render gets into the Groove to form a core shape for better adhesion and a stronger more rigid **Greenboard™** system.

Easy to Use

Greenboard™'s lightweight panel size is 2500 x 1200 allowing installers to cover the external walls quicker and easier. For the builder and their client, **Greenboard™** gets the project to lock up stage quicker allowing other trades to start and complete their tasks.

Environmentally Friendly

Greenboard™ requires less energy to produce than other traditional building materials and contains no CFC's nor HCFC's. **Greenboard™** does not contain ozone depleting substances and none are used in the manufacturing of this product. **Greenboard™** can be recycled or NRG recommends left over **Greenboard™** can be placed in the walls as extra insulation.

Termite Retardant

Greenboard™ contains a termite retardant (Bifenthrin) and NRG uses 62% more in their product than the minimum required.

Render Levels of Finish

Reinforced render is applied to the **Greenboard™** substrate at approximately 4-8mm in thickness which allows qualified applicators to screed out usual imperfections and form a seam free level 5 finish. NRG recommends render over **Greenboard™** should be specified by a coating manufacturer.

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