

## SUSTAINABLE BUILDINGS

This edition of OnBoard explains how Knauf's products, systems and services contribute towards the sustainable building program Green Star.



Created by the Green Building Council of Australia (GBCA) to evaluate the environmental design and construction of buildings, Green Star ratings are awarded for the entire project, taking into account site selection, design, construction and maintenance.

A project is assessed using a "rating tool" and approved by the GBCA depending on the type of building. Rating tools for the commercial construction market sector include offices, retail, healthcare and education. Each rating tool has been developed to measure the different environmental factors in the specific construction type. For example, operation and plans for waste management and recycling are considered as more important in retail developments, than when compared to education and office fit-outs. Green Star rating tools are completed by a Green Star Accredited Professional.

### Green Star Ratings

Green Star ratings are awarded by the GBCA in an independent process. Only the GBCA can certify a project for a Green Star rating. There are currently two Green Star ratings - "Design" for buildings certified for their design and "As Built" for buildings certified for their actual construction after completion of the project. A new rating system "Performance" is under development to assess the operational performance of existing buildings.

Overall, there are nine categories in each Green Star calculator: Management, Indoor Environment Quality, Energy, Transport, Water, Materials, Land Use & Ecology, Emissions, and Innovation. These categories are divided into credits, with points awarded within the credit for various criteria. Once all credits are assessed, a percentage score is calculated and Green Star environmental weighting factors are applied. Environmental weighting factors vary across states and territories to reflect the local environmental concerns.

Figure 1.

### Green Star certification process



## Knauf's role in your Green Star projects

There are nine Green Star rating tools covering commercial and multi-residential construction, and four rating tools in pilot mode (Communities, Convention Centre, Interiors and Public Building). The Performance and Custom Tools are under development. Within each rating tool there are three categories where Knauf products and services contribute to Green Star points: Materials, Indoor Environment Quality and Management. The maximum points contribution depends on the project type.

PROJECT TYPE		Schools Universities	Shopping Centres	Hospitals Medical Centres	Office Fit Outs	New Offices	Apartments	
Green Star Rating Tool	Total Points	Education v1	Retail Centre v1	Healthcare v1	Office Interiors v1.1	Office v3 Design v2 As Built v2	Multi-Unit Residential v1	
GREEN STAR CATEGORY	Materials (MAT) 22 - 30	n/a	n/a	2 points	3 points	n/a	2 points	
	Indoor Environment Quality (IEQ) 14 - 34	Internal Noise Levels	2 points	1 point	1 point	1 point	2 points	2 points
		VOCs	2 points	1 point	1 point	4 points	1 point	1 point
	Management (MAN) 12 - 18	2 points	2 points	2 points	3 points	2 points	2 points	

v = version. Industrial v1, PILOT rating tools not shown.

### Materials (MAT)

The Materials Category is applicable for our products for any rating tools using the Assemblies calculators.



Maximise points for your project by using one of Knauf's products certified by Global GreenTag to GreenRate Level A.

- Volatile Organic Compounds (VOCs): Knauf adhesives and compounds are third party certified as low in VOC content and under the required levels for Green Star projects, achieving 100% for plasterboard related products towards the total.

### Management (MAN)

We can contribute towards points achieved in the project's waste management category:

### Indoor Environment Quality (IEQ)

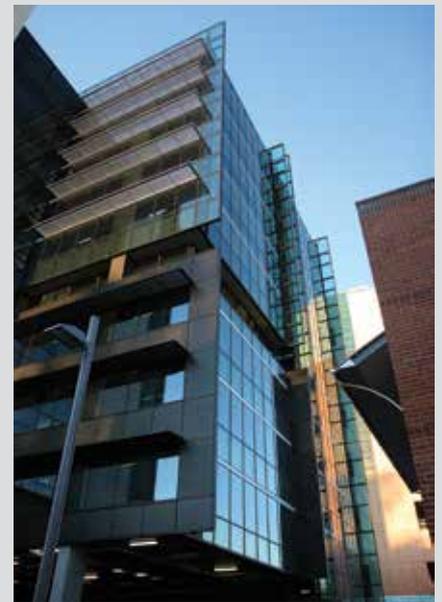
We contribute to your project's Green Star points in two sub-categories:

- Internal noise levels: noise reduction systems for reverberation and sound insulation using SoundShield, Designpanel and Cleaneo plasterboards will achieve 100% for plasterboard systems towards the total.

- Supporting contractors by providing access to plasterboard waste collection, re-use and recycling services.



4 Star  
**Best Practice**  
45 – 59 Points  
Innovation Place  
North Sydney, NSW



5 Star  
**Australian Excellence**  
60 – 74 Points  
Parramatta Justice Building  
Sydney, NSW



6 Star  
**World Leadership**  
75 – 100 Points  
VS1, SA Water  
Adelaide SA

**Knauf's support for your Green Star projects**

For information on supporting documentation and assistance in completion of your project submission, contact your local PlastaMasta or Knauf sales manager.

Our sustainability documents, for example our GreenTag GreenRate Level A Certification documents, Sustainability Policy, VOC Certificates, and 10 Year Product Warranty, as well as Green Star Guide are available to download from our website:

[knaufplasterboard.com.au/sustainability-documents](http://knaufplasterboard.com.au/sustainability-documents)

For more information on GBCA and Green Star visit [gbca.org.au](http://gbca.org.au)



green building council australia  
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**KNAUF**

For further information on Knauf products or systems, contact

**AU 1300 724 505**

or visit our website at

**[knaufplasterboard.com.au](http://knaufplasterboard.com.au)**

**NZ 0800 884 326**

or visit our website at

**[knaufplasterboard.co.nz](http://knaufplasterboard.co.nz)**

