




# Australian Sustainability Table

## Relationship between Green Star Credits and USG Products

Green Star AU Credits		Indoor Environmental Quality (IEQ)			Energy (EN)	Material (MAT)	USG ESD Advantages	IEQ				Material					
		Daylight	Electric Lighting levels	Internal Noise levels	Office Lighting	Shell & Core		Volatile Organic Compounds (Including Formaldehyde)	Mould Prevention	Recycled Content	Reused Products & Materials	PVC Min	Ceilings Wall & Partitions	Design for Disassembly			
Office Design & As Built v3		IEQ-4	IEQ-7	IEQ-12	Ene-3	Mat-4											
Office Interiors v1.1		IEQ-3	IEQ-6	IEQ-10	N / A	N / A											
Education v1		IEQ-4	IEQ-13	IEQ-7	N / A	Mat-8											
Retail Centre v1		IEQ-4	N / A	IEQ-7	Ene-1	Mat-3											
Substrate	Product Family: Acoustical Ceiling Tiles*	LR	NRC	CAC	LR	Can contribute to points		VOC			Anti-Mold & Mildew	Post Ind.	Post Cons.	Can be re-used	PVC Content	Can contribute to points	Can be disassembled for re-use
								Emission Levels	ppb	mg/m <sup>3</sup>							
Cast Mineral Fiber	FROST <i>ClimaPlus</i>	0.85	0.70	35 / 40	0.85	✓	✓	Free	1.6ppb	0.002	●	71%	0%	✓	0%	✓	✓
	SANDRIFT <i>ClimaPlus</i>	0.83	0.70	38	0.83	✓	✓	Free	1.6ppb	0.002	●	71%	0%	✓	0%	✓	✓
	BRIO <i>ClimaPlus</i>	0.81	0.70	35	0.81	✓	✓	Free	1.6ppb	0.002	●	71%	0%	✓	0%	✓	✓
	FRESCO <i>ClimaPlus</i>	0.83	0.70	35	0.83	✓	✓	Free	1.6ppb	0.002	●	71%	0%	✓	0%	✓	✓
X-Technology-Mineral Fibre	ECLIPSE <i>ClimaPlus</i>	0.84	0.70	35	0.84	✓	✓	Low	13.5ppb	0.017	●	77%	0%	-	0%	✓	-
	MARS <i>ClimaPlus</i>	0.89	0.75/0.80	35	0.89	✓		Low	13.5ppb	0.017	●	76%	0%	✓	0%	✓	✓
	MILLENNIA <i>ClimaPlus</i>	0.87	0.70	35	0.87	✓	✓	Low	13.5ppb	0.017	●	75%	0%	-	0%	✓	-
Water-Felted Mineral Fibre	IMPRESSIONS <i>ClimaPlus</i>	0.84	0.55	33 / 35	0.84	✓		Low	13.5ppb	0.017	●	31%	13%	-	0%	✓	-
	RADAR <i>ClimaPlus</i>	0.84	0.55	33 / 35	0.84	✓		Low	13.5ppb	0.017	●	31%	13%	-	0%	✓	-
	RADAR <i>ClimaPlus</i> High NRC	0.84	0.70	35	0.84	✓	✓	Low	13.5ppb	0.017	●	57%	1%	-	0%	✓	-
	RADAR <i>ClimaPlus</i> High CAC	0.84	0.55	40	0.84	✓	✓	Low	13.5ppb	0.017	●	57%	1%	-	0%	✓	-
	RADAR Ceramic <i>ClimaPlus</i>	0.82	0.50	40	0.82	✓		Low	13.5ppb	0.017	●	45%	0%	✓	0%	✓	✓
	OLYMPIA Micro <i>ClimaPlus</i>	0.87	0.50	30 / 35	0.87	✓	✓	Low	13.5ppb	0.017	●	39%	13%	-	0%	✓	-
	ROCK FACE <i>ClimaPlus</i>	0.86	0.55	35	0.86	✓		Low	13.5ppb	0.017	●	43%	6%	✓	0%	✓	✓
Suspension System	USG Donn Brand DX and DXT Centricitee	N/A	N/A	N/A	N/A	✓		N/A	N/A	N/A	N/A	12%	0%	✓	N/A	N/A	✓

### USG Ceiling Systems

Many USG acoustical ceiling panels contain mineral wool derived from slag, a byproduct of steel-making, which reduces the need to mine and process raw materials and minimizes landfill waste. Many panels also contain recycled paper. Binders are derived from corn and wheat starch, renewable agricultural resources. USG acoustical ceiling panels contain low VOCs. Non-directional ceiling panels such as RADAR™ allow more efficient use of material, reducing waste during installation. The steel in several of our metal ceiling and drywall suspension systems includes recycled content. Steel offers additional benefits in that it can be fully re-purposed by re-melting and salvaging the metal.

### VOC Emissions and USG Ceiling Panels:

Zero-emitting is defined as having less than 1.6ppb  
 Classified as zero or low-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.  
 Low-emitting is defined as having less than 13.5ppb  
 Total Volatile Organic Compound (TVOC) emission from USG Ceiling tile follow ASTM D 5116 protocol

\* Please check with your local USG representative on availability and lead times for products

● **CLIMAPLUS Superior Performance:** Features a lifetime-warranted, high-performance antimicrobial treatment and achieves "no growth" 10 rating per ASTM mold/mildew tests.

Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew.

### Good Environmental Choice Australia

Tiles indicated have independent ESD Certification by Good Environmental Choice Australia as Eco preferred products



USG-2-2008  
 GECA 28-2006-  
 Furniture and Fittings



# Australian Sustainability Table

Relationship between Green Star Credits and USG Powerscape Fiberock

Green Star AU Credits		Management	Indoor Environmental Quality (IEQ)					Material (MAT)			Energy (EN)	USG ESD Advantages	IEQ	Material		
		Waste Management	Internal Noise levels	Thermal Comfort	Volatile Organic Compounds (including Formaldehyde)			Recycled Content & Re-used Products and Materials		Ceilings Wall & Partitions	Greenhouse Gas Emissions		Mould Prevention	Design for Disassembly	Reused Products & Materials	
Office Design & As Built v3		Man-7	IEQ-12	IEQ-9	IEQ-13*			Mat-3		N/A	Ene-1					
Office Interiors v1.1		Man-6	IEQ-10	N/A	IEQ-11			N/A		Mat-3	Ene-2					
Education v1		Man-7	IEQ-7	IEQ-5	IEQ-8			Mat-3		N/A	Ene-1					
Retail Centre v1		Man-7	IEQ-7	IEQ-5	IEQ-8			Mat-3		N/A	Ene-1					
Substrate	Product Family: <b>Powerscape Gypsum Panels</b>	Off-cuts reusable	Rw	Thermal Mass	VOC			Recycled Content		Eco Preferred Content (GECA cert)	Thermal Mass	♦ ASTM D3273 rating	Can be disassembled for re-use	Can be re-used		
					Emission Levels	ppb	mg/m <sup>3</sup>	Post Ind.	Post Cons.							
Fiberock Gypsum Panel	POWERSCAPE HEALTH®	✓	*45 - 71	1.1 kJ/kg	Free	1.6ppb	0.002	85%	10%		1.1 kJ/kg	10	✓	✓		
	POWERSCAPE HEALTH® Ultra-Mesh	✓	*45 - 71	1.1 kJ/kg	Free	1.6ppb	0.002	85%	10%	-	1.1 kJ/kg	10	✓	✓		
	POWERSCAPE HEALTH® Go-Between	✓	*45 - 71	1.1 kJ/kg	Free	1.6ppb	0.002	85%	10%		1.1 kJ/kg	10	✓	✓		

\* IEQ-13 is Applicable when 10mm Powerscape Health is used as a tile underlay

**Notes**

**POWERSCAPE HEALTH® Panels**

Made of gypsum and post-consumer recycled cellulose fibers, these high-performance panels are in multiple applications including interior walls and floor underlays. Engineered for strength and resistance to water and mold, these panels offer an excellent sustainable alternative to wood-based products, most notably lauan, which is harvested from endangered, old-growth forests. POWERSCAPE HEALTH Panels contain no VOCs.

**POWERSCAPE HEALTH® Panels Recycled Content**

95% of the raw materials for USG POWERSCAPE HEALTH® linings come from external waste systems.

- 85% is post industrial gypsum, a waste product obtained from an electricity generator. No open cast or underground mining of gypsum is needed for the manufacture of USG HEALTH® linings.
- 10% is post consumer cellulose, meaning no trees are harvested for the manufacture of USG HEALTH® linings.

**POWERSCAPE HEALTH® Panels and Internal Noise levels**

\* Dependent on wall systems specified. An Rw of 48 can be achieved with a single layer of 13mm Powerscape Health on both sides of a 92mm steel stud partition (partition to include thermal insulation).

Re the USG Powerscape Health® booklet USGH-FS-AU-0707-1-31208 for more information.

♦ **ASTM D3273-00(2005) Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber**

A "0" rating on D3273 means excessive disfigurement due to mold growth on gypsum wall or ceiling panel surfaces, while a "10" rating indicates that no mold grew on the panel. This grade is determined by inspecting the panel with a microscope and comparing the findings with standardized photographs of allowable growth for each score level. With this stringent method, a panel may not receive the top "10" rating even if mold growth is invisible to the naked eye.



green building council australia  
MEMBER