



# SUSTAINABLE CEILING SOLUTIONS

Inspiring Great Spaces®

**Armstrong®**  
CEILING SOLUTIONS



We understand that sustainability means different things to different companies and to different people



By offering a broad collection of sustainable ceiling solutions, Armstrong helps customers select products that have the environmental characteristics and documentation needed to comply with green building rating systems.

The design, manufacture and supply of innovative ceiling solutions from verified eco and health preferable materials is important to us.

Making a positive difference in the lives of people where they work, heal, learn, play and travel under our ceilings, both today and tomorrow, is fundamentally at the core of everything that we do.

That is why we operate a multi pronged approach to our sustainability efforts as outlined in this brochure.

## The Importance of Healthy Interiors

We spend on average 90% of our time in buildings. The right balance of acoustic, thermal and visual comfort together with good air quality improves health, wellbeing, workplace productivity and learning outcomes. All these challenges can be overcome with appropriate material selection.



Acoustical Comfort



Indoor Air Quality



Healthy Interiors

Cover: MetalWorks Wood Effects, Modular  
Commonwealth Bank Place, Darling Square, Sydney





MetalWorks Wood Effects, R-H215 Hook On  
Saint Ignatius' College, Riverview, Sydney





V-P500 Baffles  
Airport in Vilnius, Lithuania



# Our Sustainable Ceilings

- Contribute to Green Star and WELL building rating tools
- Our Global Green Tag Green Rate and Cradle to Cradle Certified Ceiling products are deemed to be eco-preferable
- Have Green Tag Gold Product Health Declaration, declaring products as safe and free of chemicals of concern (HPD's)
- Have very low emissions of VOC's, exceeding Green Star requirements
- Have Environmental Product Declarations (EPD's)\*
- Contain both pre-consumer and post-consumer recycled content
- Have acoustical attributes to enhance any space
- Armstrong high light reflective ceilings improve overall lighting uniformity, by reducing glare on interior surfaces and reducing lighting and energy requirements
- All Mineral and MetalWorks ceilings can be recycled through the Armstrong Recycling Program
- Our new **sustainable ceiling solutions icon** can be recognised at a glance. Whenever you see this icon you can be assured that materials have been certified to the highest third party certification, are recyclable and contribute to Green Star and WELL Building Rating Program.

*\*Ultima+ and Perla product families*



## Independent Third Party Environmental Certification

We provide documentation to support all product performance attributes and how an Armstrong Ceiling Solution contributes to Green Star and WELL Rating tools.





## Global GreenTag<sup>CERT</sup>™ Sustainability Certification

Our Global GreenTag Certifications help customers specify and purchase products that are designed and manufactured to help you create healthy, sustainable environments using health and eco-preferred ingredients and manufacturing processes and ensure ethical employment conditions.



### A Four Pronged Approach



green building council australia  
MEMBER 2018-2019

#### Material Health

- Every product must be safe to use and not be harmful to health or the environment.

#### Resource Stewardship and Reutilisation

- Rewarding products conserving all resources and made from materials that come from and can safely return to nature or industry with higher ratings to help you choose the best.

#### Renewable Energy and Carbon Management

- Encouraging and rewarding a future in which all manufacturing is powered by 100% clean renewable energy.

#### Ethical Foundation

- Conduct business responsibly, respecting the health, safety and rights of people.



# Recycling Old Ceilings and Diverting Waste From Landfill



Not only are Armstrong ceiling panels produced from recycled material, they are fully recyclable. Armstrong's "Ceiling-2-Ceiling" Recycling Program is now available for Australian customers\*.

Armstrong ceiling panels and select other mineral fibre ceiling products\* may be "taken back" (Reclaimed) at the end of their useful lifecycle, "recycled" at an Armstrong plant, thus "reducing" solid waste in landfills, preserving natural resources, energy and water.

Armstrong's "Ceiling To Ceiling" Recycling Program is a simple alternative for building owners, who in the past had no alternative but to ship old ceiling panels to landfill, which is environmentally undesirable and also becoming more expensive.














MetalWorks™ ceiling panels can be reclaimed and recycled locally via our Authorised Recycling Partners.

*\*Please contact us for further information.*



Old mineral fibre panels being recycled at an Armstrong facility

# Full Portfolio Sustainability Characteristics

Sustainability Credentials													Acoustics		
															
Sustain: High Performance Ceilings	Global Green Tag Level A	Product Health Declaration	Cradle 2 Cradle	Environmental Product Declaration	Recycled Content %	Recycling Program	Low VOC	Light Reflectance %	FSC Certified	Absorption (NRC)	Attenuation (CAC) dB	Total Acoustics (NRC + CAC)			
Green Star (D&AB v1.2): Credit	MAT: 21-D			IEQ: 13.1, 13.2 MAT: 19, 21-C	MAT: 21-B	MAN: 5.2 MAT: 21-E MAT: 22	IEQ: 13.1, 13.2	IEQ: 11.1 11.2A, 12.1	MAT: 20.2	IEQ: 10.3					
WELL Building Standard (V1): Feature	AIR: 11, 25, 26	AIR: 25, 26 MIND: 97	AIR: 25, 26				MIND: 97 AIR: 01, 04	LIGHT: 53, 55-57, 59, 61, 62		COMFORT: 75, 80 MIND: 89	COMFORT: 75, 81				
MINERAL	Fine Fissured	✓			32	✓	✓	85	N/A	0.6	33-35	✓			
	Fine Fissured Hi NRC/Hi CAC	✓			61	✓	✓	85	N/A	0.7	35	✓			
	Dune	✓			41	✓	✓	85	N/A	0.50-0.55	30-35				
	Dune Max	✓			51	✓	✓	85	N/A	0.7	38	✓			
	PERLA	✓		✓	52*	✓	✓	86	N/A	0.7	37-41	✓			
	PERLA OP	✓		✓	42*	✓	✓	85	N/A	0.9	25-27				
	PERLA dB	✓		✓	64	✓	✓	86	N/A	0.65*	42-44	✓			
	PERLA OP dB	✓		✓	21	✓	✓	85	N/A	0.85	42	✓			
	Ultima+	✓		✓	40	✓	✓	87	N/A	0.7	41	✓			
	Ultima+ OP	✓		✓	22	✓	✓	87	N/A	0.95	26				
GLASSWOOL	Ultima+ dB	✓		✓	52*	✓	✓	87	N/A	0.65*	42-44	✓			
	Bioguard Acoustic	✓			40	✓	✓	87	N/A	0.7	41	✓			
	Optra Open Plan				88	✓	✓	85	N/A	0.9					
	SOUNDSCAPES Optra Capz				88	✓	✓	85	N/A	0.95*					
	SoundScapes Baffles				88	✓	✓	85	N/A	0.95*					
METALWORKS	SoundScapes Shapes				88	✓	✓	85	N/A	0.95*					
	Baffles					✓	✓	83#	N/A						
	Clip In	✓	✓	✓	30	✓	✓	83#	N/A	0.75**	16-18				
	F-Plank					✓	✓	83#	N/A	0.75**	16-18				
	Lay-in	✓	✓	✓	30	✓	✓	83#	N/A	0.75**	16-18				
	Mesh					✓	✓	83#	N/A	0.75**					
	Modular	✓	✓	✓	30	✓	✓	83#	N/A	0.75**	16-18				
	One Way Hook-on	✓	✓	✓	30	✓	✓	83#	N/A	0.75**	16-18				
	Open Cell					✓	✓	83#	N/A	0.75**					
	R-H215 Hook-on	✓	✓	✓	30	✓	✓	83#	N/A	0.75**	16-18				
	V-P500 Acoustic Baffles	✓	✓	✓	30	✓	✓	83#	N/A	0.75**					
	Vector	✓	✓	✓	30	✓	✓	83#	N/A	0.75**					
	MetalWorks with B15 Infill	✓	✓		30	✓	✓	83#	N/A	0.6	38	✓			
	MetalWorks with OP15 Infill	✓	✓		30	✓	✓	83#	N/A	0.9	16-18				
	MetalWorks with B19 Infill	✓	✓		30	✓	✓	83#	N/A	0.7	40	✓			
WOODWORKS	Linear Planks						✓		✓	0.5#					
	Square Edge						✓		✓	0.5#					
	Tegular						✓		✓	0.5#					
	Vector						✓		✓	0.5#					
	WoodWorks with OP15 Infill						✓		✓	0.8#					
	WoodWorks with B19 Infill						✓		✓	0.7#	44	✓			

✱ "Sustain" products have the highest 3rd Party certification, are Recyclable and contribute to Green Star & WELL Building Rating programs.

Testing of Armstrong products have been conducted in a independantly certified laboratory in accordance with international standards

\* Std Panel Items

# Non Perf with Satin White

\*\* Value with Soundtex fleece only

## Value dependant on Open Area

o Combined certification of MetalWorks and Mineral product

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