

**WORLD'S FIRST
LIGHTWEIGHT,
NON-CEMENTITIOUS
CALCIUM-SILICATE
CEILING TILE**



NON-CEMENTITIOUS



NON-COMBUSTIBLE



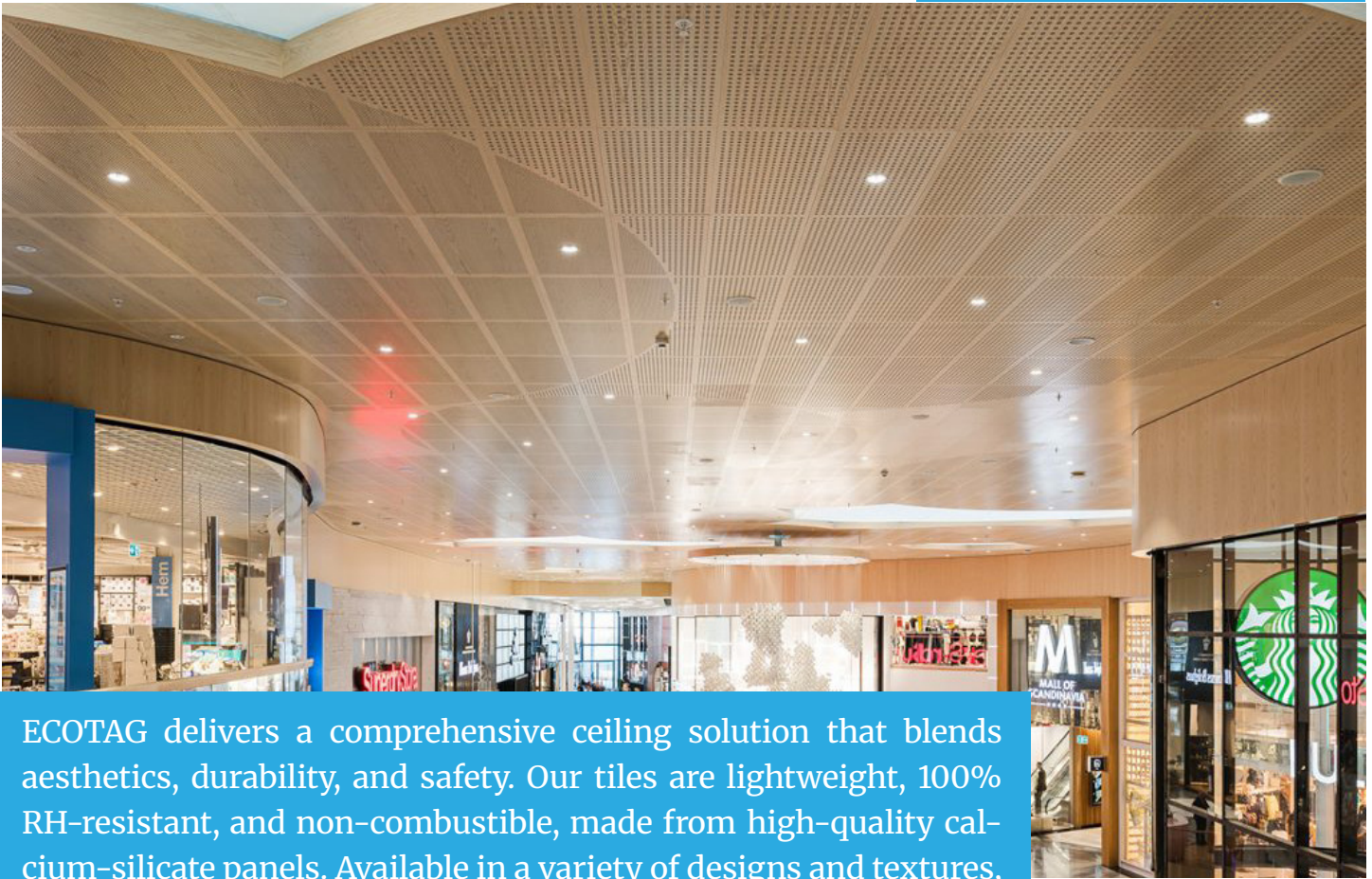
**100% RH
RESISTANCE**



**INTEGRATED
DENSIFIED EDGE**

Manufacturing Partner

Aerolite®



ECOTAG delivers a comprehensive ceiling solution that blends aesthetics, durability, and safety. Our tiles are lightweight, 100% RH-resistant, and non-combustible, made from high-quality calcium-silicate panels. Available in a variety of designs and textures, ECOTAG ceilings enhance interiors with long-lasting performance and elegant appeal.

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Why Suspended Ceilings



Aesthetics

smooth, consistent appearance.



Service Void

conceal wiring, ductwork, services.



Acoustic Control

reduce noise and reverberation.



Thermal Insulation

minimize heat gain/loss.



Fire Protection

slow flame spread.



Ventilation / Lighting

integrate ducts or luminaires easily.

Why ECOTAG

Aesthetics	wide range of textures and colours.
Humidity Resistance	100 % RH, unaffected by water or condensation.
Fire Performance	non-combustible; limits heat and smoke release.
Thermal Insulation	reduces heat transmission.
Acoustics	sound-absorbing mineral, giving 30–32 dB sound attenuation.
Durability	rigid, long-lasting boards.
Light Reflection	brightens interiors, improves energy efficiency.
Termite Resistance	inorganic material.
Bio-Safety	inherently safe, no toxic emissions.

Technical Comparison

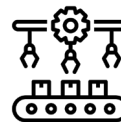
Property	Mineral Fibre	Calcium Silicate Board	Gypsum	Metal	ECOTAG Calcium Silicate
Humidity Resistance	70–90 % RH	95 % RH max	< 50 % RH	100 % RH	100 % RH
Water Resistance	In case of contact with water, the ceiling starts disintegrating	In case of contact with water, Board does not loose its physical integrity, but the painting starts peeling off	In case of contact with water, the ceiling starts disintegrating	Decolourisation, Rusting and Bad smell from the backing wood	In case of contact with water, ECOTAG does not loose its physical integrity
Non-Combustibility	Non-combustible	Non-combustible	Non-combustible	Non-combustible	As per BS 476 Part 4
Fire Resistance	Limited	Non-combustible	Combustible	Non-combustible	Non-Combustible
Smoke	Non-combustible	Non-combustible	Non-combustible	Non-combustible	Smoke Developed Index-5. Obtained Class-1/ Class-A classification for "b" & "c" as per ASTM E-84 & UL-723
Light Reflection	≤ 80 %	≤ 80 %	≤ 80 %	≤ 70 %	≥ 85%
Sound Absorption (NRC)	0.10 to 0.75 depending on product	Highly Densd product Poor acoustics	0.10 to 0.75 depending on product	0.10 to 0.90	0.10 to 0.75 depending on product
Acoustic	28–30 dB	28 dB	28 dB	<25 dB	30–32 dB
Thermal Conductivity	0.057/W/M°K	0.15/W/M°K	0.16/W/M°K Poor Insulation	High	≤0.05/W/M°K
Termite Resistance	Prone to termite attacks	Inorganic Material	Prone to termite attacks	No termite attacks	Inorganic Material
Design Ceilings	Limited range offered with 70% RH resistance	Plain tiles offered to be painted at site	Plain tiles with design paper laminations offered	Only Perforated and strip ceilings available	Full Range offered with 100% RH resistance & Noncombustible
Size	604mm x 604mm x 15mm Edges	8mm thick, 6' x 4' plain sheets are cut into 2x2' size without Tegular edge offered	600mm x 600mm x 12mm Edges	600mm x 600mm 625mm x 625mm 600mm x 1200mm 625mm x 1200mm	595 × 595 mm nominal (± edge variants)
Edge	Non Densified Square & Tegular	No Tegular edge available	Non Densified Square & Tegular	Tegular available	Integrated Densified Square & Tegular
Weight	Heavier	9–12 kg/m²	8–10 kg/m²	> 12 kg/m²	6.3–6.5 kg/m²
Installation	Neat & Quick	Neat & Quick	For partition & seem less Ceilings	Require Mineral wool or acoustic fleece backing for performance adding cost. clip in tiles are difficult and refix resulting in damages	Neat & Quick

ECOTAG Technical Data



COMPOSITION

Non-cementitious hydrated
calcium silicate + reinforcing fibres.



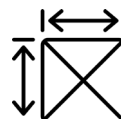
MANUFACTURE

Lime & silica autoclaved
and densified.



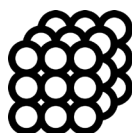
SURFACE

Painted or laminated
both sides.



SIZE

595 × 595 mm nominal
(± edge variants).



DENSITY

450 kg/m³ (± 50)



RH RESISTANCE

100 %



FIRE

Non-combustible
(AS BS 476 Pt IV Class 0)



THERMAL CONDUCTIVITY

K = 0.052 W/m·K



WEIGHT

6.3 – 6.5 kg/m² (15 mm tile)



LIGHT REFLECTANCE

≥ 85 %



SUSPENSION SYSTEM

Standard 24 mm / 15 mm T-grid

Range of Products

Texture



Humidity Resistance 100% RH



Fire Resistance Noncombustible – As per BS 476 Part IV
Class 0/ Class 1 – As per BS 476 part VI & VII



Thermal Conductivity K value $\leq 0.05 \text{ W/m}^2\text{K}$



Light Reflectance $> 85\%$



Weight 5.0 – 5.5 kgs/m²



Sound Absorption NRC 0.50

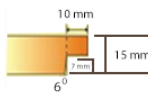
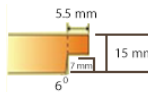
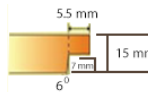


Sound Attenuation 32dB

Spectra

A plain surface with pin holes resulting in a perfect combination of acoustical performance and light reflectance.



	Board	T-24	T-15	Silhouette
Grid System	 24 mm	 24 mm	 15 mm	 15 mm
Edge Details	 15 mm	 10 mm 6°	 5.5 mm 6°	 5.5 mm 6°
Module Size	600x600 mm 600x1200 mm	600x600 mm 600x1200 mm	600x600 mm 600x1200 mm	600x600 mm 600x1200 mm

Texture



Humidity Resistance 100% RH



Fire Resistance Noncombustible – As per BS 476 Part IV
Class 0/ Class 1 – As per BS 476 part VI & VII



Thermal Conductivity K value $\leq 0.05 \text{ W/m}^2\text{K}$



Light Reflectance $> 85\%$



Weight $5.0 - 5.5 \text{ kgs/m}^2$



Sound Absorption NRC 0.50

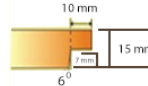
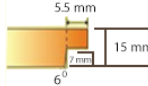
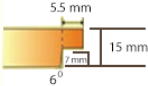


Sound Attenuation 30dB

Plain

A natural smooth surface which offers a high degree of light reflectance to maximise the effectiveness of indirect lighting fixtures.



	Board	T-24	T-15	Silhouette
Grid System	 24 mm	 24 mm	 15 mm	 15 mm
Edge Details	 15 mm	 10 mm 15 mm 6°	 5.5 mm 15 mm 6°	 5.5 mm 15 mm 6°
Module Size	600x600 mm 600x1200 mm	600x600 mm 600x1200 mm	600x600 mm 600x1200 mm	600x600 mm 600x1200 mm

Texture



Humidity Resistance 100% RH



Fire Resistance Noncombustible - As per BS 476 Part IV
Class 0/ Class 1 - As per BS 476 part VI & VII



Thermal Conductivity K value $\leq 0.05 \text{ W/m}^2\text{K}$



Light Reflectance $> 85\%$



Weight $5.0 - 5.5 \text{ kgs/m}^2$



Sound Absorption NRC 0.50

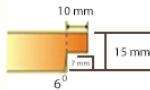
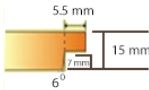
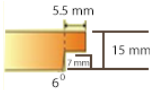


Sound Attenuation 32dB

Cosmos

A lightly textured surface with microperforations. The non-directional pattern ensures a smooth monolithic appearance ideally suited for today's contemporary interiors.



	Board	T-24	T-15	Silhouette
Grid System	 24 mm	 24 mm	 15 mm	 15 mm
Edge Details	 15 mm	 10 mm 15 mm 6 mm	 5.5 mm 15 mm 6 mm	 5.5 mm 15 mm 6 mm
Module Size	600x600 mm 600x1200 mm	600x600 mm 600x1200 mm	600x600 mm 600x1200 mm	600x600 mm 600x1200 mm

Texture



Humidity Resistance 100% RH



Fire Resistance Noncombustible - As per BS 476 Part IV
Class 0/ Class 1 - As per BS 476 part VI & VII



Thermal Conductivity K value $\leq 0.05 \text{ W/m}^2\text{K}$



Light Reflectance $> 85\%$



Weight $5.0 - 5.5 \text{ kgs/m}^2$



Sound Absorption NRC 0.50

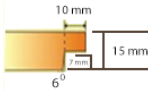
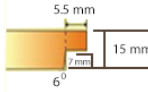
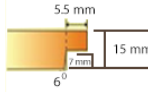


Sound Attenuation 32dB

Spintone

A crisp finely granulated surface with micro-perforations to provide distinctive elegance to your interiors.



	Board	T-24	T-15	Silhouette
Grid System	 24 mm	 24 mm	 15 mm	 15 mm
Edge Details	 15 mm	 10 mm 2 mm 6°	 5.5 mm 2 mm 6°	 5.5 mm 2 mm 6°
Module Size	600x600 mm 600x1200 mm	600x600 mm 600x1200 mm	600x600 mm 600x1200 mm	600x600 mm 600x1200 mm

Texture



Humidity Resistance 100% RH



Fire Resistance Noncombustible – As per BS 476 Part IV
Class 0/ Class 1 – As per BS 476 part VI & VII



Thermal Conductivity K value $\leq 0.05 \text{ W/m}^2\text{K}$



Light Reflectance $> 85\%$



Weight 1.9 kg/tile



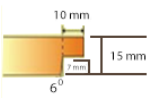
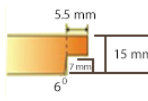
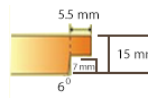
Sound Absorption NRC 0.20 – 0.55



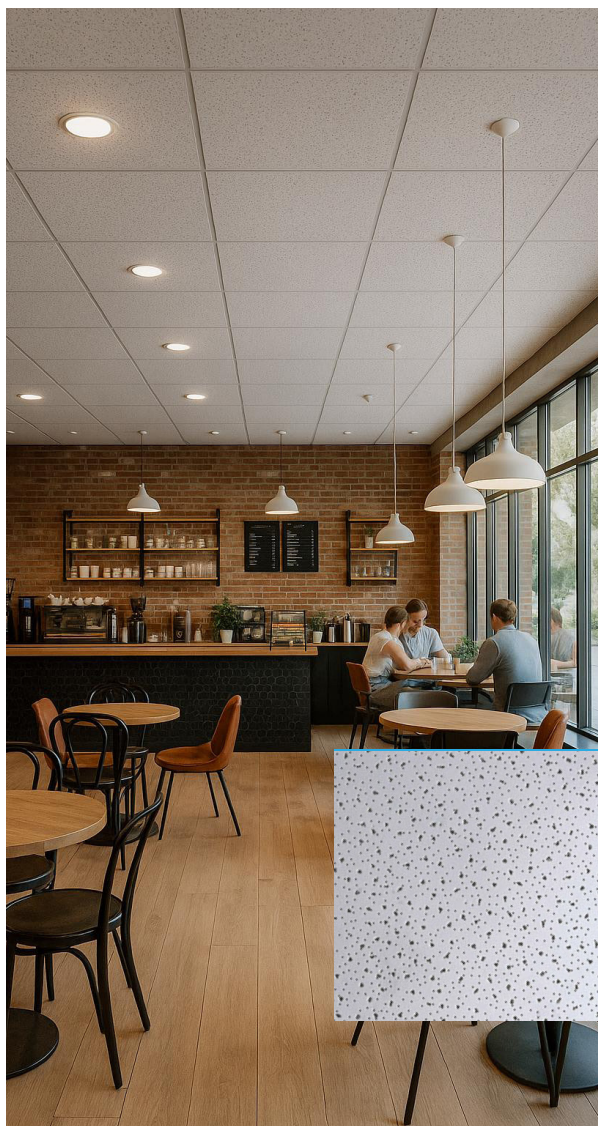
Sound Attenuation 30–32dB

Sands Stone



	Board	T-24	T-15	Silhouette
Grid System	 24 mm	 24 mm	 15 mm	 15 mm
Edge Details	 15 mm	 10 mm 6°	 5.5 mm 6°	 5.5 mm 6°
Module Size	600x600 mm	600x600 mm	600x600 mm	600x600 mm

Texture



Humidity Resistance 100% RH



Fire Resistance Noncombustible – As per BS 476 Part IV
Class 0/ Class 1 – As per BS 476 part VI & VII



Thermal Conductivity K value $\leq 0.05 \text{ W/m}^2\text{K}$



Light Reflectance $> 85\%$



Weight 5.0 – 5.5 kgs/m²



Sound Absorption NRC 0.50

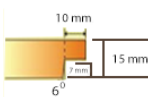
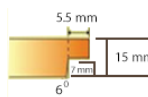
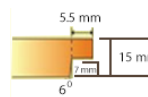


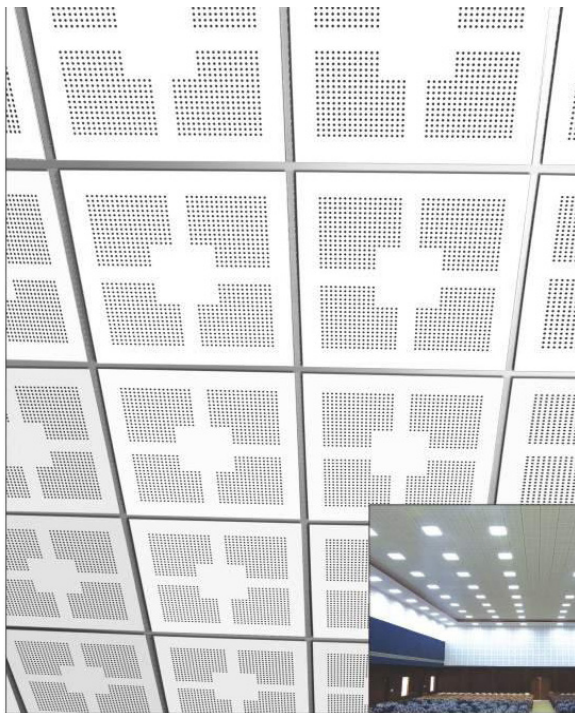
Sound Attenuation 32dB

Fine Fissured

A smooth surface with microperforations interspread with no directional fine fissures for effective sound absorption making it ideal for office software centers and commercial space.

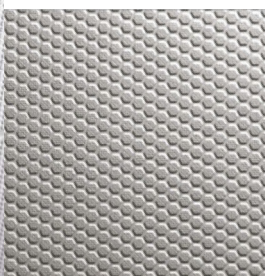
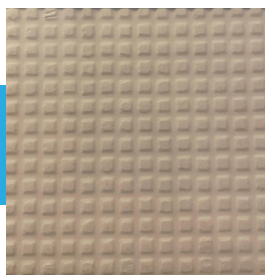


	Board	T-24	T-15	Silhouette
Grid System	 24 mm	 24 mm	 15 mm	 15 mm
Edge Details	 15 mm	 10 mm 7 mm 6° 15 mm	 5.5 mm 2 mm 6° 15 mm	 5.5 mm 2 mm 6° 15 mm
Module Size	600x600 mm	600x600 mm	600x600 mm	600x600 mm



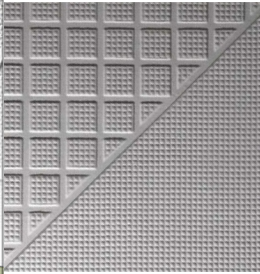
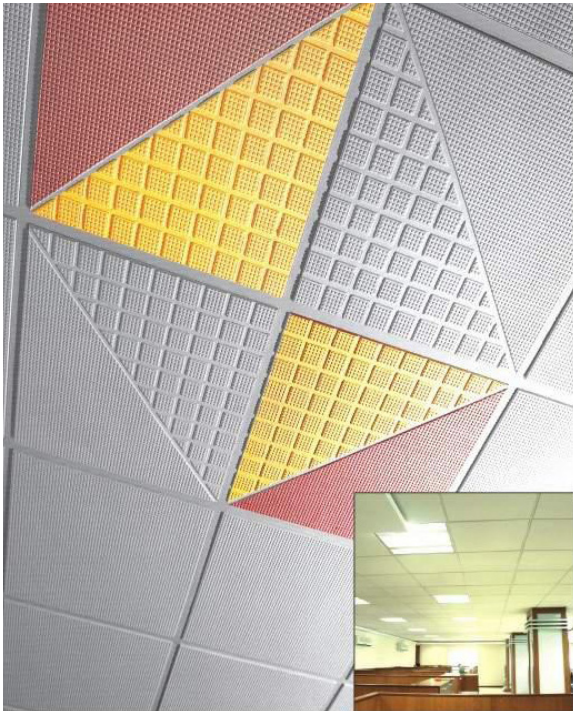
Globe

Quadra

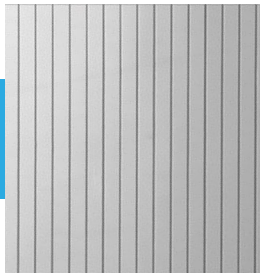


Hexa

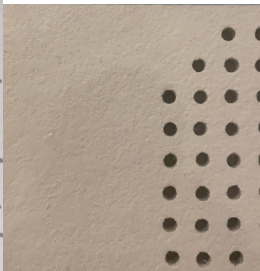




Diagonal



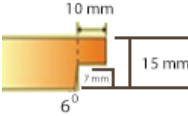
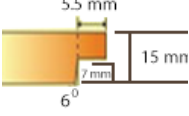
Linear



Skylite



	Humidity Resistance	100% RH
	Fire Resistance	Noncombustible – As per BS 476 Part IV Class 0/ Class 1 – As per BS 476 part VI & VII
	Thermal Conductivity	K value $\leq 0.05 \text{ W/m}^2\text{K}$
	Light Reflectance	> 85%
	Weight	5.0 – 5.5 kgs/m ²
	Sound Absorption	NRC 0.15
	Sound Attenuation	30dB

Board	T-24	T-15	Silhouette
Grid System			
Edge Details			
Module Size	600x600 mm	600x600 mm	600x600 mm

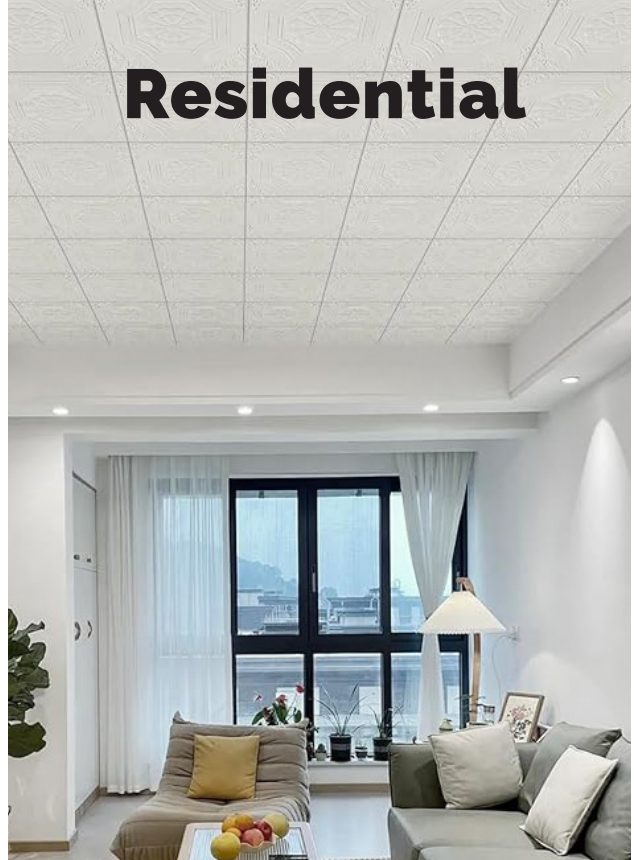


Applications

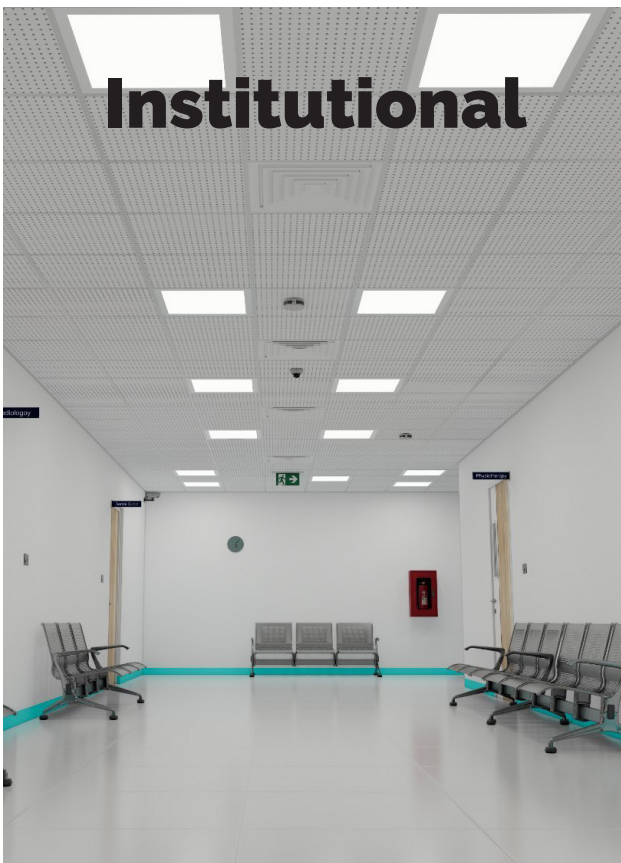
Commercial



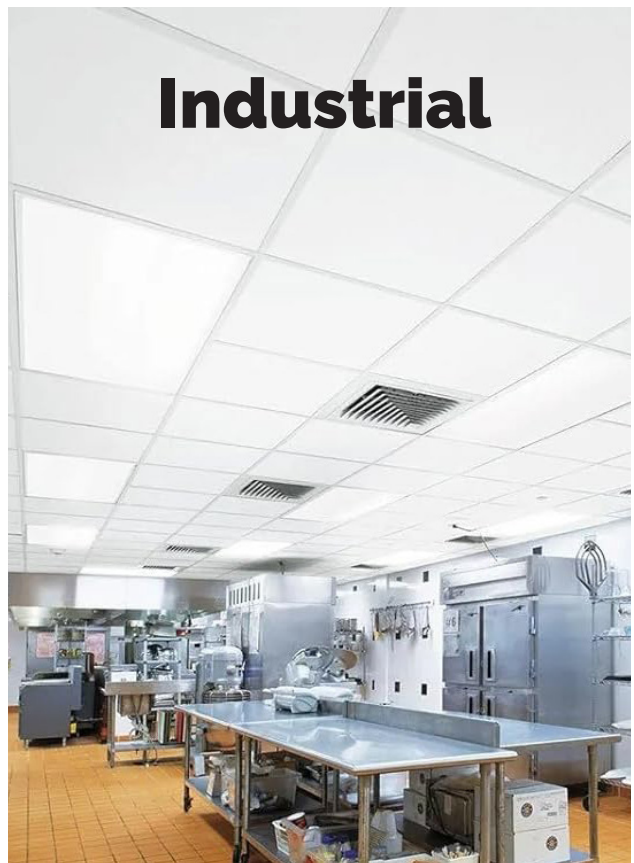
Residential



Institutional



Industrial



Installation & Handling

STORAGE & HANDLING

- ✔ Store flat on pallets in dry covered areas.
- ✔ Stack ≤ 10 boxes high.
- ✔ Avoid ground contact and dampness.

INSTALLATION GUIDELINES

- ✔ Use the specified grid system and accessories to ensure structural stability and proper fit.
- ✔ Maintain level and alignment throughout installation for a uniform ceiling appearance.
- ✔ Keep all joints clean and flush to achieve seamless aesthetics.
- ✔ Follow the recommended humidity and temperature conditions during installation to maintain product integrity.
- ✔ Install lighting fixtures, HVAC diffusers, and other services using appropriate suspension members — do not fix directly onto ceiling tiles.

REDECORATION

- ✔ May be repainted with water-based dispersion paint.

10-YEAR WARRANTY

Covers manufacturing defects, provided installation meets Aerolite specs.



ECOTAG

CEILING TILES



BRIDGING AUSSIE NEEDS

Distributed by
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