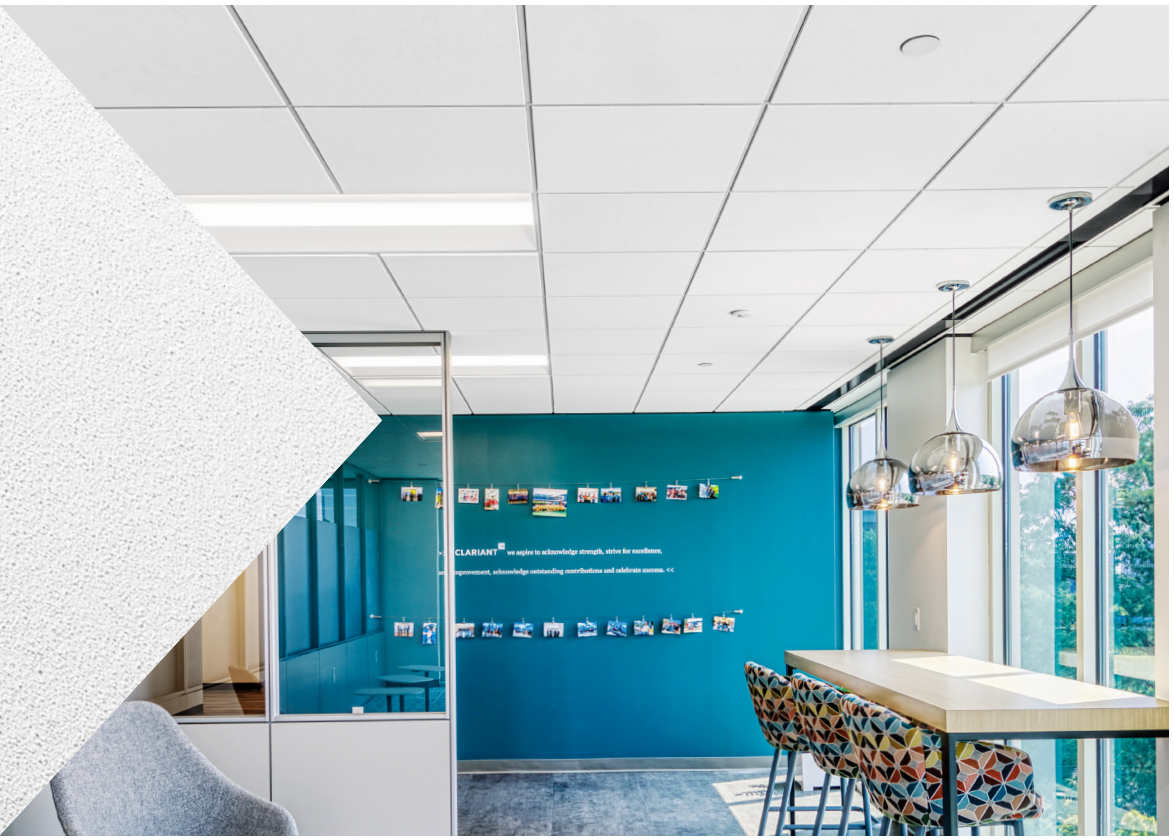
ULTIMA® Low Embodied Carbon

Square Lay-in & Tegular
fine texture

TOTAL ACOUSTICS®
Sound Absorption (NRC)
+ Sound Blocking (CAC)

SUSTAIN®
High Performance
Sustainable
Ceiling Systems

CAD/Revit® drawings at:
armstrong.com/cadrevit



Find solutions for reducing carbon in the built environment.
armstrong.com/carbonreduction



Ultima Low Embodied Carbon Beveled Tegular panels with Suprafine XL 9/16" suspension system

Help reduce the carbon footprint of the built environment with the lowest embodied carbon mineral fiber acoustical ceiling panels available*.

KEY SELECTION ATTRIBUTES

- Get total noise control and floor plan versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics performance
- Ultima® panels are part of the Sustain® portfolio, and meet the most stringent industry sustainability compliance standards today
- CleanAssure™ family of products – includes disinfectable panels, suspension systems, and trim
- Mold- and mildew-resistant surface
- Made with sustainably produced carbon sequestering biochar
- Product can be recycled through the Armstrong Ceilings Recycling Program
- Smooth, clean, durable finish – Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- USDA-Certified Biobased Product – 100%
- Made in the U.S.A. of domestic and global content
- Build America, Buy America (BABA) Act compliant
- Non-directional visual reduces scrap and installation time
- 30-Year Limited System Warranty against visible sag

* Per EC3 tool data available 2/1/24. Ultima Low Embodied Carbon Ceiling Panels (A1-A3) 0.187 Global Warming Potential, including biogenic carbon [kg CO_2 eq./ft^2]

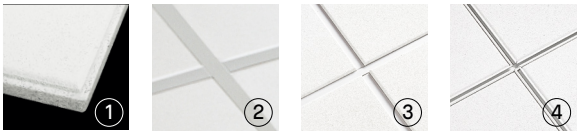
TYPICAL APPLICATIONS

- Offices – closed spaces for privacy and confidentiality; open spaces for focus, collaboration, and teaming
- Healthcare – assists in addressing HIPAA, HCAHPS, and FGI acoustical requirements
- Classrooms
- Corridors
- Lobbies/reception areas
- Department stores/retail

COLOR

White
(WH)

DETAILS



1. Ultima® Low Embodied Carbon
2. Ultima® Low Embodied Carbon with Prelude® XL® 15/16" suspension system
3. Ultima® Low Embodied Carbon with Suprafine® 9/16" suspension system
4. Ultima® Low Embodied Carbon with Silhouette® XL® 9/16" suspension system with 1/4" reveal

TechLine 877 276-7876
armstrong.com/ultimalec

Armstrong®
World Industries

ULTIMA® Low Embodied Carbon

Square Lay-in & Tegular
fine texture

SUSTAIN®
High Performance
Sustainable Ceiling Systems

Declare.

RECYCLED CONTENT
UP TO
55%

LEED V5
Ecomedes Data

COMMON MATERIALS FRAMEWORK

Human Health	Declare Label	Climate Health	EPD
	HPD	Ecosystem Health	EPD
	3rd Party CDPH	Circular Economy	✓
OCCUPANT EXPERIENCE		Acoustics	✓

UNDERSTANDING ULTIMA® LOW EMBODIED CARBON CEILING PANELS

What is Biochar?
Biochar is a byproduct of a process called pyrolysis, where organic material is heated in a low-oxygen environment. It is a highly stable form of carbon with a lifespan measured in hundreds to thousands of years. The biochar used in Ultima® Low Embodied Carbon ceiling panels locks carbon away, delivering a durable climate benefit.

What is embodied carbon?
While there is no single industry-standard definition, embodied carbon generally refers to the global warming potential (GWP) associated with a product or material throughout its lifecycle. In basic terms, it reflects the total greenhouse gas emissions generated to produce that product.

Why is biogenic carbon reporting important?
Standards such as ISO 21930 encourage transparent reporting of carbon flows from natural sources. Including biogenic carbon provides a more complete and accurate picture of a product's environmental impact, enabling informed decision-making.

How do I know if a product accounts for sequestered carbon?
When reviewing a Life Cycle Assessment (LCA) or Environmental Product Declaration (EPD), examine the Global Warming Potential (GWP) metric:

- If listed as "Fossil GWP" or GWP excluding biogenic carbon, biogenic carbon is not included.
- If GWP including biogenic carbon is reported, the analysis accounts for both emissions and sequestration from bio-based sources.

Why choose Ultima Low Embodied Carbon?
Ultima Low Embodied Carbon Ceiling Panels deliver a 43% reduction in embodied carbon compared to standard Ultima Ceiling Panels to help reduce the carbon footprint of the built environment.

View Third-Party Verified EPD Optimization Summary.



Ultima Low Embodied Carbon Beveled Tegular panels with Suprafine XL 9/16" suspension system

ENVIRONMENTAL IMPACT REDUCTION

	Global Warming Potential, incl. biogenic carbon [kg CO_2 eq./ft²]
Ultima® Ceiling Panels (A1-A3)	0.327
Ultima® Low Embodied Carbon Ceiling Panels (A1-A3)	0.187
Global Warming Potential Reduction	-43%

MINERAL FIBER – Standard

new ULTIMA® Low Embodied Carbon

Square Lay-in & Tegular
fine texture

SUSTAIN®
High Performance
Sustainable Ceiling Systems

Declare.

RECYCLED CONTENT
UP TO **55%**

LEED V5 Ecomedes Data

COMMON MATERIALS FRAMEWORK

Human Health	Declare Label	Climate Health	EPD
	HPD	Ecosystem Health	EPD
	3rd Party CDPH	Circular Economy	✓
OCCUPANT EXPERIENCE		Acoustics	✓

VISUAL SELECTION

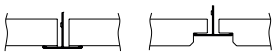
PERFORMANCE SELECTION
Dots represent high level of performance. $$$$

armstrongceilings.com/suspdwgs	Susp. Dwg.	Item No.	Dimensions (Inches)	UL Classified Acoustics NRC + CAC =	Total Acoustics[1]	Fire Performance	Light Reflect	Bio-Block Anti-Mold/ Mildew	Humi-Guard+ Sag Resistant	Certified Low VOC Emissions	CleanAssure™ Disinfectable Panels: Fog	Wash	DURABILITY: Impact	Scratch	Soil	Recycle Program	30-Yr Warranty
ULTIMA® Low Embodied Carbon 15/16" Square Lay-in	1	**1910LEC**	24 × 24 × 3/4"	0.75 • 35 •	BETTER	Class A	0.87 •	•	•	•	•	•	•	•	•	•	•
		1913LEC	24 × 48 × 3/4"	0.75 • 35 •	BETTER	Class A	0.87 •	•	•	•	•	•	•	•	•	•	•
15/16" Beveled Tegular	15	**1911LEC**	24 × 24 × 3/4"	0.75 • 35 •	BETTER	Class A	0.87 •	•	•	•	•	•	•	•	•	•	•
		1914LEC	24 × 48 × 3/4"	0.75 • 35 •	BETTER	Class A	0.87 •	•	•	•	•	•	•	•	•	•	•
9/16" Beveled Tegular	29, 44, 48, 52, 56	**1912LEC**	24 × 24 × 3/4"	0.75 • 35 •	BETTER	Class A	0.87 •	•	•	•	•	•	•	•	•	•	•
		1915LEC	24 × 48 × 3/4"	0.75 • 35 •	BETTER	Class A	0.87 •	•	•	•	•	•	•	•	•	•	•

[1] Total Acoustics® ceiling panels have an ideal combination of sound absorption and sound blocking in one product.
GOOD (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

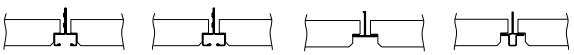
SUSPENSION SYSTEMS

15/16"



Prelude® XL®

9/16"



Silhouette® 1/4" Reveal | Silhouette 1/8" Reveal | Suprafine® | Interlude® XL® HRC

Blizzard White – Suspension System Finish
A color and texture coordinated suspension system to complement Ultima® ceiling panels for a monolithic look and feel.

PHYSICAL DATA

Material
Wet-formed mineral fiber and biochar with DuraBrite® acoustically transparent membrane

Surface Finish
DuraBrite scrim with factory-applied latex paint

Fire Performance
Class A: ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index of 25 or less. Smoke Developed Index of 50 or less (UL® labeled).

ASTM E1264 Classification
Type A, Form A2.2, Pattern E; Fire Class A

Humidity/Sag Resistance
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Anti-Mold/Mildew
Ceiling tiles with BioBlock® performance resist the growth of mold and mildew on the tile surface.

VOC Emissions
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.2, 2017. This standard is the guideline for low emissions in LEED®, WELL Building Standard™, Living Building Challenge® (LBC), CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Acoustical Performance
CAC testing conducted using Prelude® XL® suspension system.

Embodied Carbon
(A1-A3) 0.187 Global Warming Potential, including biogenic carbon [kg CO_2 eq./ft^2] See EPD & EPD Optimization summary for complete details.

Installation Consideration
When installing Low Embodied Carbon (LEC) panels, be cautious during cutting. The substrate may result in dust transferring to the tile's surface during installation.

Take care when cutting the tiles and ensure that you only touch the panel face with clean gloves.

Insulation Value
R Factor – 2.2 (BTU units)
R Factor – 0.39 (Watts units)

Cleaning and Disinfecting
Cleaning and CDC-recommended disinfecting options available on armstrong.com/cleaning

30-Year Performance Guarantee & Warranty
When installed with Armstrong® Suspension System. Details at armstrong.com/warranty

Weight; Square Feet/Carton
1.05 LBS/SF; 48 SF/CTN

Minimum Order Quantity
1 carton

MINERAL FIBER – Standard

TechLine / 877 276-7876
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BPCS-7136-1026

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