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- Knowledge & Inspiration
- Selection Tools
- Products
- Specs & Technical
- Contacts

## Mineral Fiber

- [Ceramaguard](#)
- [Cirrus](#)
- [Dune](#)
- [Endura](#)
- [Fine Fissured](#)
- [Mesa](#)
- [School Zone Fine Fissured](#)
- [Ultima](#)
- [Ultima Vector](#)

## Fiberglass

- [Optima Custom Sizes](#)
- [Optima Open Plan](#)
- [Optima Plank](#)
- [Optima Vector](#)
- [TechZone](#)
- [View all Mineral Fiber & Fiberglass](#)

## Ultima

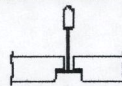
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Description	Performance	Toolbox
<p>Ultima combines the exceptionally impact and scratch-resistant DuraBrite surface and excellent sound absorption in a smooth, nondirectional visual that fits a wide variety of grid options. HumiGuard Plus no sag performance and BioBlock paint to inhibit surface growth of mold and mildew. Coordinates with Optima for mixed (open/closed plan) applications. Now available as a TechZone™ Ceiling System. <a href="#">Click here for more details and product availability.</a></p>	<p>Warranty (PDF) CAD Drawings Calculate Reverberation Time</p> <p> Recycling Program</p> <p> <b>30 Year Guarantee</b> Against Visible Sag Against Mold/Mildew &amp; Bacteria</p>	<p></p> <p><a href="#">View Room Scene</a></p>

**Chat LIVE Online**  
Ceiling Techline  
Expert On-line

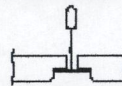
or call 1-877-ARMSTRONG

### Beveled Tegular 9/16 IN



Item #	Dimensions	Color	Acoustics	Fire Resist	Light Reflect	Sag Resist	Anti-microbial	VOC Formaldehyde
<a href="#">1905</a>	30 X 30 X 3/4 IN 	White	NRC:0.70 CAC: 35 AC: N/A	Class A (UL)	0.90	Standard	BioBlock+	Low
<a href="#">1912</a>	24 X 24 X 3/4 IN 	White	NRC:0.70 CAC: 35 AC: N/A	Class A (UL)	0.90	HumiGuard Plus	BioBlock+	No Added
<a href="#">1915</a>	24 X 48 X 3/4 IN 	White	NRC:0.70 CAC: 35 AC: N/A	Class A (UL)	0.90	HumiGuard Plus	BioBlock+	No Added
<a href="#">1916</a>	12 X 24 X 3/4 IN 	White	NRC:N/A CAC:N/A AC:N/A	Class A (UL)	0.90	HumiGuard Plus	BioBlock+	No Added

### Beveled Tegular 15/16 IN



Item #	Dimensions	Color	Acoustics	Fire Resist	Light Reflect	Sag Resist	Anti-microbial	VOC Formaldehyde
<a href="#">1911</a>	24 X 24 X 3/4 IN 	White	NRC:0.70 CAC: 35 AC: N/A	Class A (UL)	0.90	HumiGuard Plus	BioBlock+	No Added
<a href="#">1914</a>	24 X 48 X 3/4 IN 	White	NRC:0.70 CAC: 35 AC: N/A	Class A (UL)	0.90	HumiGuard Plus	BioBlock+	No Added

# CORTEGA®

## Square Lay-In & Tegular

medium texture

Recycled Content: 23-49%, Fire Guard 31-40%  
 Contact TechLine™ for LEED Information: 1-877-ARMSTRONG

LEED Credits						
Energy	Waste Mgmt	Recycled Content	Local Materials	Renewable Materials	Low-Emitting Materials	Daylight & Views
	✓	✓	✓	✓	✓	

### Key Selection Attributes

- Economical
- Washable vinyl latex paint (Item 761)

### Typical Applications

- Utility rooms
- Discount stores



### Color

See front of sheet

### Visual Selection

### Performance Selection

Dots represent highest level of performance.

Grid Face	Edge Profile	Item Number	Dimensions	UL Classified Acoustics		Fire Resist	Light Reflect	Sag Resist	Anti-Microbial	VOC Formaldehyde	Recycling Program	Durable	
				NRC	CAC								
<b>CORTEGA Square Lay-In</b>													
15/16"	Square lay-in	770	2' x 2' x 5/8"		0.55	33	Class A	0.82	Standard	-	Low	Yes	Standard
		824	2' x 2' x 5/8"		0.55	35	Fire Guard	0.82	Standard	-	Low	Yes	Standard
		747	2' x 4' x 5/8"		0.55	40	Class A	0.82	Standard	-	Low	Yes	Standard
		761*	2' x 4' x 5/8"		0.55	35	Class A	0.82	Standard	-	Low	Yes	Washable
		769	2' x 4' x 5/8"		0.55	35	Class A	0.82	Standard	-	Low	Yes	Standard
		769NF	2' x 4' x 5/8"		0.55	35	Class A	0.82	Standard	-	No Added	Yes	Standard
		823	2' x 4' x 5/8"		0.55	35	Fire Guard	0.82	Standard	-	Low	Yes	Standard
		773	20" x 5' x 5/8"		0.55	35	Class A	0.82	Standard	-	Low	Yes	Standard
		772	2' x 5' x 5/8"		0.55	35	Class A	0.82	Standard	-	Low	Yes	Standard
<b>CORTEGA Tegular</b>													
9/16"	Beveled Tegular	2195	2' x 2' x 5/8"		0.55	35*	Class A	0.82	Standard	-	Low	Yes	Standard
15/16"	Angled Tegular	704	2' x 2' x 5/8"		0.55	33	Class A	0.82	Standard	-	Low	Yes	Standard
		704NF	2' x 2' x 5/8"		0.55	33	Class A	0.82	Standard	-	No Added	Yes	Standard
		816	2' x 2' x 5/8"		0.55	35	Fire Guard	0.82	Standard	-	Low	Yes	Standard
		703	2' x 4' x 5/8"		0.55	35	Class A	0.82	Standard	-	Low	Yes	Standard

\* Washable vinyl latex paint

\* Installations in Healthcare facilities need to meet HIPAA oral privacy requirements

### Physical Data

#### Material

Wet-formed mineral fiber

#### Surface Finish

Factory-applied latex paint  
 761 - Factory-applied vinyl latex paint

#### Fire Performance

Class A: Flame Spread 25 or under (UL Labeled) per ASTM E 1264  
 Fire Guard: A fire resistive ceiling when used in applicable UL assemblies

#### ASTM E 1264 Classification

Type III, Form 2, Pattern C D  
 761 - Type IX, Form 2, Pattern C D

#### No Added/Low Formaldehyde

No Added Formaldehyde - free of formaldehyde-based resins.  
 Outperform CHPS Section 1350 requirements. (Independent test reports available upon request).

Low Formaldehyde - contributing less than 13.5 ppb in typical conditions per ASHRAE Standard 62, "Ventilation for Acceptable Indoor Air Quality," California Code Title 24, and other building types in CHPS Section 1350.

#### Insulation Value

2195, 704, 816, 703 -  
 R Factor - 1.6 (BTU units)  
 R Factor - 0.28 (Watts units)  
 747, 770, 772, 761, 769, 773, 823, 824 -  
 R Factor - 1.5 (BTU units)  
 R Factor - 0.26 (Watts units)

#### Backloading Recommendation

Contact TechLine for specific information

#### Weight; Square Feet/Carion

See product details at [armstrong.com/ceilings](http://armstrong.com/ceilings)

### 30-Year Performance Guarantee & Warranty Information

See warranty details at [armstrong.com/ceilings](http://armstrong.com/ceilings)

#### Application Considerations

Tech Black products should be handled with gloves to prevent marking with fingerprints. Objectionable surface dust may occur with frequent handling of Tech Black products. In these situations, Tech Black products are not recommended for bright open spaces.

#### Recommended Suspension System

Items	Suspension System
770, 747, 761, 769, 773, 772	15/16" PRELUDE
823, 824	15/16" PRELUDE XL Fire Guard
2195	9/16" TRIMLOK® Screw-Slot 9/16" SILHOUETTE® Bolt-Slot
703, 704	15/16" PRELUDE
816	15/16" PRELUDE XL Fire Guard

#### Also Compatible With

2195 ♦ 9/16" SUPRAFINE™  
 CAC 33 9/16" INTERLUDE®  
 9/16" SONATA™

TechLine™ / 1 877 ARMSTRONG  
 1 877 276 7876

[armstrong.com/ceilings](http://armstrong.com/ceilings) (search: cortega)

CS-3017-207

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# GEORGIAN™

Square Lay-in & Tegular  
medium texture

Recycled Content: 39-46%, Fire Guard 49%

Contact TechLine™ for LEED Information. 1-877-ARMSTRONG

### LEED Credits

Energy	Waste Mgmt	Recycled Content	Local Materials	Renewable Materials	Low-Emitting Materials	Daylight & Views
✓	✓	✓	✓	✓	✓	✓

### Key Selection Attributes



- Unique painted visual
- Durable
  - Washable
  - Impact-resistant
  - Scratch-resistant

### 30-Year System Performance Guarantee

Against Visible Sag  
**HumiGuard® Plus**  
(excludes item 791)



Against Mold/Mildew & Bacterial Growth  
**BioBlock™ Plus**  
(excludes item 791)

- Economical
- Good sound absorption

### Typical Applications

- Offices
- Schools closed for summer
- Classrooms
- Corridors
- Auditoriums
- Many types of commercial interiors

### Color



White (WH)

GEORGIAN Beveled Tegular with PRELUDE 15/16" Exposed Tee grid

### Visual Selection

### Performance Selection



Dots represent highest level of performance.

Grid Face	Edge Profile	Item Number	Dimensions	UL Classified Acoustics		Fire Resist	Light Reflect	Sag Resist	Anti-Microbial	VOC Formaldehyde	Recycling Program	Durable		
				NRC	CAC							Wash	Impact	Scratch
<b>GEORGIAN</b>														
9/16"	Beveled Tegular	1753	2' x 2' x 5/8"	0.55	35♦	Class A	0.86	HumiGuard+	BioBlock+	Low	Yes	Wash	Impact	Scratch
15/16"	Square Lay-in	764	2' x 2' x 5/8"	0.55	33	Class A	0.86	HumiGuard+	BioBlock+	Low	Yes	Wash	Impact	Scratch
		763	2' x 4' x 5/8"	0.55	33	Class A	0.86	HumiGuard+	BioBlock+	Low	Yes	Wash	Impact	Scratch
		898	2' x 4' x 5/8"	0.55	35	Fire Guard	0.86	HumiGuard+	BioBlock+	Low	Yes	Wash	Impact	Scratch
		791	30" x 5' x 3/4"	0.55	33	Class A	0.86	Standard	-	Low	Yes	Wash	Impact	Scratch
	Beveled Tegular	1752	2' x 2' x 5/8"	0.55	35	Class A	0.86	HumiGuard+	BioBlock+	Low	Yes	Wash	Impact	Scratch

### Physical Data

#### Material

Wet-formed mineral fiber

#### Surface Finish

Factory-applied latex paint

#### Fire Performance

Class A: Flame Spread 25 or under (UL Labeled) per ASTM E 1264  
Fire Guard: A fire resistive ceiling when used in applicable UL assemblies

#### ASTM E 1264 Classification

Type III, Form 2, Pattern C E

#### Sag Resistance

HumiGuard Plus – superior resistance to sagging in high humidity conditions up to, but not including, standing water and outdoor applications.

#### Low Formaldehyde

Low Formaldehyde – contributing less than 13.5 ppb in typical conditions per ASHRAE Standard 62, "Ventilation for Acceptable Indoor Air Quality," California Code Title 24, and other building types in CHPS Section 1350.

#### Anti Mold/Mildew & Bacteria

BioBlock Plus contains an anti-microbial treatment and provides guaranteed resistance against growth of mold/mildew and Gram-positive and Gram-negative odor/stain-causing bacteria for 30 years.

#### Insulation Value

R Factor - 1.6 (BTU units)  
R Factor - 0.28 (Watts units)

#### Backloading Recommendation

Contact TechLine for specific information

#### Weight; Square Feet/Carion

See product details at [armstrong.com/ceilings](http://armstrong.com/ceilings)

#### 30-Year Performance Guarantee and Warranty Information

See warranty details at [armstrong.com/ceilings](http://armstrong.com/ceilings)

#### Recommended Suspension System

Items	Suspension System
1753	9/16" TRIMLOK® Screw-Slot 9/16" SILHOUETTE® Bolt-Slot
763, 764, 791	15/16" PRELUDE®
1752	15/16" PRELUDE
898	15/16" PRELUDE XL Fire Guard

#### Also Compatible With

1753♦ 9/16" SUPRAFINE™  
CAC 33 9/16" SONATA™  
9/16" INTERLUDE® XL

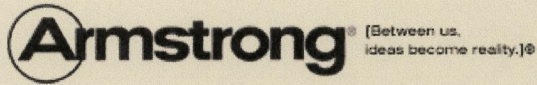
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1 877 276 7876

[armstrong.com/ceilings](http://armstrong.com/ceilings) (search: georgian)

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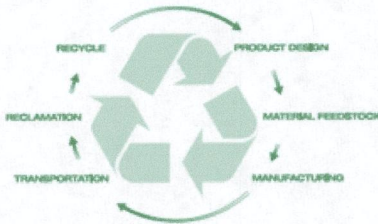
- Indoor environmental quality
- Recycling
- Energy
- Acoustics

Programs > Recycling

## RECYCLING PROGRAMS

Even as early as 1860, Armstrong has pioneered "green practices", first in North America and moving worldwide. Our quality and process-driven culture are the seeds that drive innovation in all areas of our business. In 1999, as evidence of this commitment, we introduced the first commercial ceilings recycling program in the industry.

Our commitment continues to our products and services designed to be environmentally preferable. In your careful selection of products that meet various sustainable attributes, we have the solutions to fit your specifications.



**Find a Certified Recycling Contractor in your Region:**

- [Mid-Atlantic and Northeast Regions](#)
- [Chicago Metro Region](#)

**For all other locations in the US and Canada:**

Contract Armstrong Techline for assistance with your next Recycling Project 1-877-276-7876 or email [bpotechline@armstrong.com](mailto:bpotechline@armstrong.com).

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**RENOVATIONS AT SUN LIFE PLAZA IN CALGARY  
FEATURE FIRST CEILING RECYCLING IN CANADA**

*As Part of Recent Renovations, Sun Life Financial Reclaimed 250,000  
Square Feet of Old Ceiling Tiles Rather Than Dumping Them in Landfills*

Nearly 250,000 square feet of old ceiling tiles from the Sun Life Plaza office towers in Calgary are finding new life.

The reason: Sun Life Financial, the towers' owner and manager, is the first building owner in Canada to take advantage of a unique, recently introduced ceiling recycling program.

As a result of the program, more than 160,000 pounds of old acoustical ceiling tiles, or enough tiles to fill 62 large 20-cubic-yard construction containers, have now been diverted from landfills, helping Sun Life Financial fulfill its corporate commitment to protect the environment.

Located in downtown Calgary, Sun Life Plaza was constructed in 1982 and consists of three 28-floor towers housing a total of approximately 1.3 million square feet, much of which is devoted to office space for oil and gas companies.

Nearly 250,000 square feet of that office space was recently renovated for the purpose of updating it, not just for new tenants, but existing tenants as well. As part of the renovation, the 20-year-old acoustical ceiling panels were removed and replaced with new panels.

**Program Offers Alternative to Landfill Disposal**

In a renovation project of this type, the old suspended ceiling panels would normally have been removed, thrown into a roll-off container, and eventually hauled to a landfill for disposal. In the case of Sun Life Plaza, however, the old panels are finding new life as a result of a unique ceiling recycling program offered by Armstrong Ceiling Systems, the world's largest manufacturer of acoustical ceilings.

The program, which is the only one of its kind, enables building owners to ship old ceilings from renovation projects to an Armstrong ceiling plant as an earth-friendly alternative to landfill disposal. As part of the program, the company even pays freight costs for shipping the old ceilings, which it uses as raw materials in the manufacture of new acoustical ceilings. Over 16,000,000 square feet, or 10,700,000 pounds, of discarded ceiling tiles have been recycled since Armstrong began the program.

Scott Perron, Operations Manager at Sun Life Plaza, explains that he learned about the opportunity to recycle the old ceiling tiles during the purchasing process. "The local Armstrong representative informed us that the Ceiling Recycling Program, which has been in operation in the U.S. for a number of years, was now being offered in Canada as well.

"Sun Life is very proactive when it comes to the environment," he continues. "The ability to recycle old ceilings is much more environmentally responsible compared to the traditional dumping process, and was very attractive to us."



The Sun Life Plaza office towers in Calgary are the site of the first Armstrong ceiling recycling project in Canada. Nearly 250,000 square feet of old tiles were reclaimed.



# case study

## Ceiling Recycling Program Requires Three Steps

The program involves three steps. First, the building owner or contractor needs to verify with Armstrong that the old ceiling tiles can be recycled. The old ceilings do not have to be Armstrong products to qualify for the program. In the case of Sun Life Plaza, the old 20"x 60" ceiling panels were found to be recyclable and thereby eligible for the program. They were replaced with new Cortega™ ceiling panels from Armstrong.

Following verification, the owner or contractor must then stack the old ceiling panels on pallets and package them for pick-up. Perron notes that at Sun Life Plaza, the removal, stacking and palletizing of the old tiles is part of the demolition contractor's job scope.

"We included the work involved in removing and preparing the ceiling tiles for recycling in the contract," he says. "However, we supplied the pallets and also taught the demolition crews how to stack the tiles according to the Armstrong specifications. The crews quickly bought into it, and accepted the process very well."

Once there is a full trailer load, or 30,000 square feet of old ceilings, the owner or contractor simply needs to contact Armstrong, which will then arrange for a truck to pick up the material and transfer it to its nearest manufacturing facility. The ceiling panels from Sun Life Plaza were shipped to the Armstrong plant in St. Helens, Oregon.

## Ceiling Recycling Less Costly Than Dumping

Perron notes that the process for recycling old ceilings proved to be nearly as fast as dumping them. "It does take a little longer because there is some additional handling involved, but not enough to have any adverse impact on the demolition or renovation schedule," he states. He also notes that the crews preferred to metal band the stacked panels rather than shrink wrap them. "This worked better for us, and helped make the entire process pretty much worry free."

When it comes to cost, Perron points out that recycling the ceilings turned out to be less costly than dumping them. "Compared to the total cost of handling, transport, container fees and landfill fees, we were actually able to save some money by recycling," he states. "However, that was a bonus, because the cost savings were not the driving force that drew us to the program...it was the environmental benefits."

Sun Life Plaza in Calgary is the first Sun Life Financial property to recycle old ceiling tiles. However, Perron feels it won't be the last. "I believe other Sun Life buildings around the country will soon follow," he states. "And," he adds, "as long as a renovation project is large enough, we'll continue to recycle ceiling tiles here in Calgary."



Pallets of old, discarded ceiling tiles at Sun Life Plaza await pick-up by Armstrong, which will use them in the manufacture of new acoustical ceilings.