**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

---

**Ultima**

**Description**
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. Click here for more details and product availability.

**Toolbox**
- Warranty (PDF)
- CAD Drawings
- Calculate Reverberation Time
- Recycling Program

---

**Beveled Tegular 9/16 IN**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Dimensions</th>
<th>Color</th>
<th>Acoustics</th>
<th>Fire Resist</th>
<th>Light Reflect</th>
<th>Sag Resist</th>
<th>Anti-microbial</th>
<th>VOC Formaldehyde</th>
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<tbody>
<tr>
<td>1905</td>
<td>30 X 30 X 3/4 IN</td>
<td>White</td>
<td>NRC:0.70  CAC: 35 AC: N/A</td>
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<td>Standard</td>
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<td>Class A (UL)</td>
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<td>HumiGuard Plus</td>
<td>BioBlock+</td>
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<tr>
<td>Sample</td>
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**Beveled Tegular 15/16 IN**

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<td>HumiGuard Plus</td>
<td>BioBlock+</td>
<td>No Added</td>
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<tr>
<td>Sample</td>
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Key Selection Attributes
- Economical
- Washable vinyl latex paint
  (Item 761)

Typical Applications
- Utility rooms
- Discount stores

Color
See front of sheet

Visual Selection

<table>
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<tr>
<th>Grid</th>
<th>Edge Profile</th>
<th>Item Number</th>
<th>Dimensions</th>
<th>NRC</th>
<th>CAC</th>
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<th>Light Reflect</th>
<th>Sag Resist</th>
<th>Anti-Microbial</th>
<th>VOC</th>
<th>Formaldehyde</th>
<th>Recycling Program</th>
<th>Durable</th>
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| CORTEGA Teqular 9/16” | Beveled Teqular | 2195 | 2” x 2” x 5/8” | 0.55 | 35 | Class A | 0.82 | Standard | Low | Yes | Standard |
| | | 15/16” | Angled Teqular | 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
Factory classification 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

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 - 0.20 (Watts units)

2195, 704, 816, 703, 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/Carton
See product details at armstrong.com/ceilings

30-Year Performance Guarantee & Warranty Information
See warranty details at armstrong.com/ceilings

Application Considerations
Tech Black products should be handled with gloves to prevent marking with fingerprints. Objectable 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

<table>
<thead>
<tr>
<th>Item</th>
<th>Suspension System</th>
</tr>
</thead>
<tbody>
<tr>
<td>2195</td>
<td>9/16” SUPRAFINE™</td>
</tr>
<tr>
<td>816</td>
<td>9/16” INTERLUDE™</td>
</tr>
</tbody>
</table>

Also Compatible With

2195* 9/16” SUPRAFINE™
CPC 33 9/16” INTERLUDE™
9/16” SONATA™
**GEORGIAN™**
Square Lay-in & Tegular
medium texture

**Recycled Content:** 39-46%, Fire Guard 49%
Contact TechLine™ for LEED information: 1-877-ARMSTRONG

<table>
<thead>
<tr>
<th>LEED Credits</th>
<th>Energy</th>
<th>Waste Mgmt</th>
<th>Recycled Content</th>
<th>Local Materials</th>
<th>Renewable Materials</th>
<th>Low-Emitting Materials</th>
<th>Daylight &amp; Views</th>
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<td>✔</td>
<td>✔</td>
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</table>

**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 (W1)

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

### Visual Selection

<table>
<thead>
<tr>
<th>Grid</th>
<th>Edge</th>
<th>Item Number</th>
<th>Dimensions</th>
<th>Fire Resist</th>
<th>Light Reflect</th>
<th>Sag Resist</th>
<th>Anti-Microbial</th>
<th>VOC</th>
<th>Formaldehyde</th>
<th>Recycling Program</th>
<th>Durable</th>
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</thead>
<tbody>
<tr>
<td>GEORGIAN</td>
<td>Beveled Tegular</td>
<td>1753</td>
<td>2&quot; x 2&quot; x 5/8&quot;</td>
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<td>Wash</td>
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<tr>
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<td>763</td>
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<td>Wash</td>
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### 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 resistant 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)

**Weight:** Square Feet/Carton
- See product details at armstrong.com/ceilings

**30-Year Performance Guarantee and Warranty Information**
- See warranty details at armstrong.com/ceilings

**Recommended Suspension System**

<table>
<thead>
<tr>
<th>Items</th>
<th>Suspension System</th>
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</thead>
<tbody>
<tr>
<td>1753</td>
<td>9/16&quot; TRIMLOR® Screw-Slot</td>
</tr>
<tr>
<td>763, 764, 791</td>
<td>15/16&quot; PRELUDE®</td>
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<tr>
<td>1752</td>
<td>15/16&quot; PRELUDE®</td>
</tr>
<tr>
<td>898</td>
<td>15/16&quot; PRELUDE® Fire Guard</td>
</tr>
</tbody>
</table>

**Also Compatible With**
- 9/16" SUPERFINE™
- 9/16" SONATA™
- 9/16" INTERLUDE® XL

**TechLine™ / 1 877 ARMSTRONG**
1-877-276-7676
armstrong.com/ceilings (search: georgian)
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Printed in the United States of America • 10% post consumer waste. Printed with vegetable inks. 🌱 Recyclable.
RECYCLING PROGRAMS

Even as early as 1960, 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.

Downloads
- Food Lion (PDF - 50K)
- Penn State (PDF - 184K)
- AE Smith Building (PDF - 46K)
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."
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."