Large-size concealed panels offer a monolithic visual with 100% downward accessibility.

KEY SELECTION ATTRIBUTES
- Now, transform your images onto custom perforated MetalWorks™ Create!™ ceiling and wall panels for a unique aesthetic plus acoustical performance
- Six Wood Looks Effects™ finishes as well as Reflections™ laminates
- MetalWorks Torsion Spring is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today*
- Choose from a variety of standard panel sizes that install with pre-slotted standard 15/16” suspension system
- 48” x 48” panels are available as a premium option
- Interior panels feature swing-down accessibility
- For exterior applications, choose from 24 x 24 x 1-1/2” and 24 x 48 x 1-1/2” standard panel sizes
- Reflections™ laminate finishes provide superior wood-look visual with printed vinyl bonded to aluminum; visuals other than the ones shown are also available
- NRC values up to 0.90 with fiberglass infill panels (select perforation patterns)

COLOR SELECTION
Due to printing limitations, shade may vary from actual product.

MetalWorks™ – Interior and Exterior
- Whitelum (WLA)
- Silvertone (SA)
- Gun Metal (MA)
- Lacquer Mill (LMA)
- Brushalum (BAA)

MetalWorks – Interior Only
- Satin Anodized (SAA)
- Lacquer Mill (LMA)
- Brushalum (BAA)

Custom Colors Available

Reflections™ Laminate Finishes – Interior and Exterior
- Natural Maple (LMN)
- Natural Oak (LNO)
- Arctic Maple (LAM)
- Rock Maple (LRM)
- Light Cherry (LCO)
- Mineral Forest (LMF)
- Walnut (LWN)

Reflections Laminate Finishes – Interior Only
- M1 (Unperforated)
- M14 (Rg 3205)
- M15 (Rd 1612)
- M16 (Rd 1607)
- M17 (Rv 3223)
- M18 (Rd 3219)
- M19 (Rg 3220)

Effects™ Wood Looks Finishes – Interior Only
- Effects Maple (FXMP)
- Effects Cherry (FXCH)
- Effects Dark Cherry (FXDC)
- Effects Walnut (FXWN)
- Effects Oak (FXOK)
- Effects Walnut Espresso (FXWE)

PERFORATION OPTIONS (1:2 scale shown)
- Create!™ Custom Perforations
- See more photos at: armstrongceilings.com/photogallery
- Custom Perforations Available
- Plus capabilities
- Art and acoustics blend with MetalWorks™ Create!™ custom perforated panels. More at: armstrongceilings.com/metalworkscreate

MetalWorks™ Torsion Spring panels with custom perforations in Silvertone with Prelude™ XL® 15/16” suspension system (Pgs. 458-459)
## PHYSICAL DATA

### Material
- **Aluminum** – thickness 0.040”
- **Aluminum** – thickness 0.060” (item 7226 only)

### Surface Finish
- Reflections™ laminates: Vinyl-faced membrane
- Painted finishes: Factory-applied polyester paint.
- Effects™ Wood Looks powder-coated, post-production finishes.

### Fire Performance
- Painted aluminum finishes tested per ASTM E84.
- Flame Spread Index 25 or less: Smoke Developed Index 50 or less
- Laminate finishes tested per ASTM E84.
- Flame Spread Index 75 or less: Smoke Developed Index 450 or less.

### ASTM E1264 Classification
- Fire Class A – Painted
- Fire Class B – Laminates

### Acoustical Options
- Perforated panels are supplied with a black fiberglass fleece to absorb sound.

### Recycled Content
- Minimum 25%. Up to 80% recycled content available.

### Code Considerations
The International Mechanical Code requires that materials used in or forming part of an air plenum, have a Flame Spread Rating 25 or less and a Smoke Developed Index 50 or less on all surfaces of the material including those surfaces that may be exposed by cutting the material. Exception: The IBC states, “Materials having a thickness less than 0.036 inches (0.9mm) applied directly to the surface of walls or ceilings shall not be required to be tested.” Panels finished with Reflections laminates and painted finishes typically have a thickness less than 0.038 inches (0.9mm). These finishes are applied directly to the Class A aluminum substrate.

### Design Considerations
- Anodized and Lacquer Mill finishes may vary in shade between production runs as well as over time. Sizes can be mixed and matched on non-perforated panels only. 30” x 30” panels have a directional finish that is perpendicular to the main beams.
- MetalWorks™ steel and aluminum panels are made at different manufacturing facilities that use different paint systems. Because of this, similar colors, i.e., White and Whitelume, are not exact color matches. Please consider this when designing adjacent spaces with multiple MetalWorks products.

### Wind Uplift Performance
- 24” x 24” and 24” x 48” panels noted for exterior flat applications tested for wind uplift Classes 30, 60, and 90. Specific installation instructions to meet these classes are available.

### Warranty
- One (1) year limited warranty.
- Details at armstrongceilings.com

## TECHNICAL INFORMATION

### ACOUSTICAL INFORMATION

<table>
<thead>
<tr>
<th>Perforation</th>
<th>NRC with acoustical fleece</th>
<th>NRC with 1st fiberglass infill panel††</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1†</td>
<td>Rg 3205</td>
<td>-</td>
</tr>
<tr>
<td>M14†</td>
<td>Rg 3205</td>
<td>0.55 *</td>
</tr>
<tr>
<td>M15†</td>
<td>Rd 1612</td>
<td>0.70 *</td>
</tr>
<tr>
<td>M16†</td>
<td>Rd 3007</td>
<td>0.70 *</td>
</tr>
<tr>
<td>M17†</td>
<td>Rd 3023</td>
<td>0.70 *</td>
</tr>
<tr>
<td>M18†</td>
<td>Rd 3210</td>
<td>0.65 *</td>
</tr>
<tr>
<td>M19†</td>
<td>Rd 3220</td>
<td>0.75 *</td>
</tr>
</tbody>
</table>

†† Available for exterior applications

For more information, visit armstrongceilings.com or contact TechLine customer support at 1 877 276-7876.

### PERFORMANCE

<table>
<thead>
<tr>
<th>Light Reflect*</th>
<th>Springs per Panel</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## VISUAL SELECTION

### METALWORKS™ Torsion Spring Square with Acoustical Fleece

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Dimensions (Inches) W x L x D</th>
<th>Light Reflect*</th>
<th>Springs per Panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>7209</td>
<td>24 x 24 x 1-1/2”</td>
<td>0.77</td>
<td>4</td>
</tr>
<tr>
<td>7210</td>
<td>24 x 48 x 1-1/2”</td>
<td>0.77</td>
<td>4</td>
</tr>
<tr>
<td>7211</td>
<td>24 x 72 x 1-1/2”</td>
<td>0.77</td>
<td>6</td>
</tr>
<tr>
<td>7212</td>
<td>24 x 96 x 1-1/2”</td>
<td>0.77</td>
<td>6</td>
</tr>
<tr>
<td>7213</td>
<td>30 x 30 x 1-1/2”</td>
<td>0.77</td>
<td>4</td>
</tr>
</tbody>
</table>

### Exterior Panels

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Dimensions (Inches) W x L x D</th>
<th>Light Reflect*</th>
<th>Springs per Panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>7225</td>
<td>24 x 24 x 1-1/2”</td>
<td>0.77**</td>
<td>4</td>
</tr>
<tr>
<td>7226</td>
<td>24 x 48 x 1-1/2”</td>
<td>0.77**</td>
<td>4</td>
</tr>
</tbody>
</table>

**Unperforated Whitelume light reflectance

***Perforated Whitelume light reflectance

NOTE: 48” x 48” panels are available as a premium option.

◆ When specifying or ordering, include the appropriate perforation and color suffix with the item number (e.g., 7209 M 1 4 L M A).

For in-fill panel information, refer to Pg. 156.
METALWORKS™ Torsion Spring/Torsion Spring Exterior
Installation Details

HOW TO INSTALL PANELS

Step 1

Step 2

Step 3

INTERIOR INSTALLATION DETAILS – For exterior details, consult the MetalWorks™ Exterior Torsion Spring installation instructions, BPLA-297922, on our web site.
METALWORKS™ Torsion Spring/ Torsion Spring Exterior
Perimeter Details

INTERIOR WALL PERIMETER DETAILS – For exterior details, consult the MetalWorks™ Exterior Torsion Spring installation instructions, BPLA-297922, on our web site.

Installation Detail – Wall Perimeter

Installation Detail – Perimeter Trim
(Formed Trim #7131)

Installation Detail – Perimeter Trim
(Extruded Trim #7147)

Full Panels

Cut Panels

MW Standard Torsion Spring Perimeter Bulkhead Detail for Full Size Panels

4.000
.750
.945
.808
1.500
7301TS (Main Beam Slotted 6” O.C.)
7210 (24” x 48” Standard Torsion Spring Panel)
7126 (1.5” Spreader Hold Down)
FXTBC with bottom tab cut off at line (screws for attachment by others)

MW Standard Torsion Spring Perimeter Bulkhead Detail for Field Cut Panels

159
1.500
4.000
.750
.945
.808
1.500
7301TS (Main Beam Slotted 6” O.C.)
7210 (24” x 48” Standard Torsion Spring Panel)
7126 (1.5” Spreader Hold Down)
FXTBC with bottom tab cut off at line (screws for attachment by others)
## METALWORKS™ Torsion Spring/Torsion Spring Exterior
### Accessories & Suspension Systems

### ACCESSORIES

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Dimensions (Inches) Nominal W x L x H</th>
<th>Color</th>
<th>Pieces/ Carton</th>
</tr>
</thead>
<tbody>
<tr>
<td>7125</td>
<td>Box Molding (for Laminates, Black is recommended)</td>
<td>2 x 96 x 1 1/2&quot;</td>
<td>WHA, SIA, MYA, SAA, LMA, BAA, BL</td>
<td>10</td>
</tr>
<tr>
<td>7147</td>
<td>Torsion Spring Perimeter Trim (Extruded) (for Laminates, Black is recommended)</td>
<td>1 x 120 x 4&quot;</td>
<td>WH, SG, MY, Bl*</td>
<td>6</td>
</tr>
<tr>
<td>7131</td>
<td>Torsion Spring Perimeter Trim (Formed)</td>
<td>1 x 96 x 4 1/4&quot;</td>
<td>LMA, BAA, SAA</td>
<td>6</td>
</tr>
<tr>
<td>7126</td>
<td>Spreader Hold Down</td>
<td>1 x 10-5/8 x 1 1/2&quot;</td>
<td>N/A</td>
<td>10</td>
</tr>
<tr>
<td>5823</td>
<td>BioAcoustic™ Infill Panel</td>
<td>24 x 24 x 5/8&quot;</td>
<td>Black</td>
<td>12</td>
</tr>
<tr>
<td>8200T10</td>
<td>1&quot; Fiberglass Infill Bag</td>
<td>24 x 24 x 1&quot;</td>
<td>Black (Gloss)</td>
<td>12</td>
</tr>
<tr>
<td>7129</td>
<td>Torsion Spring Hook Access Tool</td>
<td>N/A</td>
<td>N/A</td>
<td>1</td>
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<tr>
<td>7130</td>
<td>Torsion Spring Suction Access Tool</td>
<td>N/A</td>
<td>N/A</td>
<td>1</td>
</tr>
</tbody>
</table>

* When specifying or ordering, include the appropriate color code with the item number (e.g. 7131 K MA)

* Coordinates with WHA, SIA, MYA Torsion Spring Panel finish

### SUSPENSION SYSTEMS

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Dimensions (Inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7301TS</td>
<td>Prelude XL 12' HD Main Beam – slotted for Torsion Spring</td>
<td>144 x 15/16 x 1 11/16&quot;</td>
</tr>
<tr>
<td>XL7341TS</td>
<td>Prelude XL 4' Cross Tee – slotted for Torsion Spring</td>
<td>48 x 15/16 x 1 11/16&quot;</td>
</tr>
<tr>
<td>XL7390TS</td>
<td>Prelude XL 6' Cross Tee – slotted for Torsion Spring</td>
<td>72 x 15/16 x 1 11/16&quot;</td>
</tr>
<tr>
<td>XL7378</td>
<td>Prelude XL 30° Cross Tee</td>
<td>30 x 15/16 x 1 11/16&quot;</td>
</tr>
<tr>
<td>XL8320</td>
<td>Prelude XL 2' Cross Tee</td>
<td>24 x 15/16 x 1 11/16&quot;</td>
</tr>
<tr>
<td>XL7341</td>
<td>Prelude XL 4' Cross Tee</td>
<td>48 x 15/16 x 1 11/16&quot;</td>
</tr>
</tbody>
</table>

### Exterior Suspension System

15/16" Prelude XL – Some items slotted for Torsion Spring. See below.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Dimensions (Inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7301G90ATS</td>
<td>Prelude XL 12' HD Exterior Main Beam – slotted for Torsion Spring</td>
<td>144 x 15/16 x 1 11/16&quot;</td>
</tr>
<tr>
<td>XL7341G90ATS</td>
<td>Prelude XL 4' Exterior Cross Tee – slotted for Torsion Spring</td>
<td>48 x 15/16 x 1 11/16&quot;</td>
</tr>
<tr>
<td>XL7321G90A</td>
<td>Prelude XL 2' Exterior Cross Tee</td>
<td>24 x 15/16 x 1 11/16&quot;</td>
</tr>
</tbody>
</table>