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
- Available with PureWood™ real wood veneers in three standard 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 3/16" [0.187"], 5/16" [0.325"], 1/2" [0.500"], 1 1/32" [0.354"], 5/32" [0.250"], or 7/32" [0.210"], printed or sandblasted
- 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
  - Whitelume (WHA)
  - Silvertone (SA)
  - Gun Metal (MWA)
  - Satin Anodized (SAA)
  - Lacquer Mill (LMA)
  - Brushalume (BAA)

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

- **Reflections™** Laminate Finishes – Interior Only
  - Light Cherry (LCC)
  - Dark Cherry (NDC)
  - Maple (LMP)

- **PureWood Veneer Finishes – Interior Only**
  - Maple (LMP)
  - Light Cherry (LNC)
  - Dark Cherry (NDC)

**PERFORATION OPTIONS** *(1:2 scale shown)*

- Painted and Laminate Perforations
  - M17 (Unperforated) [Rg 3223]
  - M18 (Rd 3219)
  - M19 (Rg 3220)
  - M14 (Rg 3205)
  - M15 (Rd 1612)
  - M16 (Rd 1607)

- PureWood Perforation Options
  - M1 (Unperforated)
  - M14 (Rg 3205)
  - M18 (Rd 3219)

See more photos at: armstrongceilings.com/photogallery

* Part of the Sustain™ portfolio, meeting sustainability compliance standards (M1 – unperforated panels only)
**VISUAL SELECTION**

<table>
<thead>
<tr>
<th>Edge Profile</th>
<th>Item No.</th>
<th>Dimensions (Inches) W x L x D</th>
<th>Custom Sizes Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>METALWORKS™ Torsion Spring Square with Acoustical Fleece</td>
<td>7209_*</td>
<td>24 x 24 x 1-1/2&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7210_*</td>
<td>24 x 48 x 1-1/2&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7211_*</td>
<td>24 x 72 x 1-1/2&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7212_*</td>
<td>24 x 96 x 1-1/2&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7213_*</td>
<td>30 x 30 x 1-1/2&quot;</td>
<td></td>
</tr>
<tr>
<td>Exterior Panels</td>
<td>7225_*</td>
<td>24 x 24 x 1-1/2&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7226_*</td>
<td>24 x 48 x 1-1/2&quot;</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** 48" x 48" panels are available as a premium option

* Light reflectance is for unperforated Whitelume.
** Unperforated Whitelume light reflectance
*** Perforated Whitelume light reflectance

**PERFORMANCE** Dots represent high level of performance.

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</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&quot;</td>
<td>0.77</td>
<td>4</td>
</tr>
<tr>
<td>7210</td>
<td>24 x 48 x 1-1/2&quot;</td>
<td>0.77</td>
<td>4</td>
</tr>
<tr>
<td>7211</td>
<td>24 x 72 x 1-1/2&quot;</td>
<td>0.77</td>
<td>6</td>
</tr>
<tr>
<td>7212</td>
<td>24 x 96 x 1-1/2&quot;</td>
<td>0.77</td>
<td>6</td>
</tr>
<tr>
<td>7213</td>
<td>30 x 30 x 1-1/2&quot;</td>
<td>0.77</td>
<td>4</td>
</tr>
</tbody>
</table>

**ACOUSTICAL INFORMATION**

<table>
<thead>
<tr>
<th>Perforation</th>
<th>NRC with acoustical fleece</th>
<th>NRC with 1&quot; fiberglass infill panel††</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>M14</td>
<td>0.55</td>
<td>0.85</td>
</tr>
<tr>
<td>M15</td>
<td>0.70</td>
<td>0.90</td>
</tr>
<tr>
<td>M16</td>
<td>0.70</td>
<td>0.80</td>
</tr>
<tr>
<td>M17</td>
<td>0.70</td>
<td>0.90</td>
</tr>
<tr>
<td>M18</td>
<td>0.70</td>
<td>0.90</td>
</tr>
<tr>
<td>M19</td>
<td>0.75</td>
<td>0.90</td>
</tr>
</tbody>
</table>

†† Available for exterior applications

† Maximum NRC achieved with acoustical infill panel

For infill panel information, refer to Pg. 156.

**EXAMPLE:** 7209 M14 LMA

**METALWORKS™ Torsion Spring/ Torsion Spring Interior**

**smooth texture**

**Declare™**

**Leadership in Energy and Environmental Design (LEED)**

**SUSTAIN™**

**High Performance Sustainable Ceiling Systems Unperforated (M1)**

**UP TO 80% RECYCLED CONTENT**

**For LEED contribution contact TechLine**

**877 276-7876**

armstrongceilings.com/metalworks

**PHYSICAL DATA**

**Material**

- Aluminum – thickness 0.040" (item 7226 only)
- Surface Finish
  - Reflections™ laminates: Vinyl-faced membrane
  - Painted finishes: Factory-applied polyester paint
  - Custom colors and finishes available.

**Fire Performance**

- Painted aluminum finishes tested per ASTM E84.
- Flame Spread Index 25 or less. Smoke Developed Index 50 or less.
- Laminates tested per ASTM E84.

**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. 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 PureWood veneers, Reflections laminates, and paint finishes typically have a thickness less than 0.036 inches (0.9mm). These finishes are applied directly to the Class A aluminum substrate.

**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.

**Technical Support**

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

**Design Support**

- Project management assistance is available by calling TechLine customer support at 1 877 276-7876.

**Seismic Restriction**

- MetalWorks™ Torsion Spring panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings Installation instructions.

**Warranty**

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

**Weight**

- 0.69 lbs/SF
- 0.86 lbs/SF (item 7226)

**Design Considerations**

- Acoustics 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; all other panel sizes have a directional finish that is parallel 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.**

- For PureWood finishes, variation among panels may occur due to the natural characteristics of the wood and grain.
METALWORKS™ Torsion Spring/Exterior Torsion Spring 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.

24" x 48" Standard Panel Layout with Main Beams 4" O.C., Standard 4’ Prelude® XL® Cross Tees, 4’ Slotted Cross Tees

2x6 Grid Layout (Scale - 1:25)

2x8 Grid Layout (Scale - 1:25)

Suspension System Layout for 30” x 30” Panels
Suspension System Layout for 24” x 72” Panels
Suspension System Layout for 24” x 96” Panels
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 Field Cut Panels

MW Standard Torsion Spring Perimeter Bulkhead Detail for Full Size Panels
METALWORKS™ Torsion Spring/ Torsion Spring Exterior
Accessories & Suspension Systems

### ACCESSORIES

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Dimensions (Inches)</th>
<th>Color</th>
<th>Pieces/Carton</th>
</tr>
</thead>
<tbody>
<tr>
<td>7125</td>
<td>Box Molding (for Laminates and PureWood™, Black is recommended)</td>
<td>2 x 96 x 1.5&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 and PureWood™, 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 4.25&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>8200100</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 M A)

* 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>15/16&quot;</td>
<td>Prelude® XL® Suspension System – Some items slotted for Torsion Spring. See below.</td>
<td></td>
</tr>
<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&quot; Cross Tee</td>
<td>30 x 15/16 x 1-11/16&quot;</td>
</tr>
<tr>
<td>XL8320</td>
<td>Prelude XL 2&quot; 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

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Dimensions (Inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15/16&quot;</td>
<td>Prelude XL – Some items slotted for Torsion Spring. See below.</td>
<td></td>
</tr>
<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&quot; Exterior Cross Tee</td>
<td>24 x 15/16 x 1-11/16&quot;</td>
</tr>
</tbody>
</table>