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 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

<table>
<thead>
<tr>
<th>Color Type</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whitelume</td>
<td>Natural Maple (LMM)</td>
</tr>
<tr>
<td>Silverlume</td>
<td>Natural Oak (LNO)</td>
</tr>
<tr>
<td>Gun Metal</td>
<td>Arctic Maple (LAM)</td>
</tr>
<tr>
<td>Lacquer Mill</td>
<td>Rock Maple (LRM)</td>
</tr>
<tr>
<td>Brushlume</td>
<td>Light Cherry (LCC)</td>
</tr>
<tr>
<td>Satin Anodized</td>
<td>Mineral Forest (LMF)</td>
</tr>
<tr>
<td>(SAA)</td>
<td>Walnut (LWN)</td>
</tr>
</tbody>
</table>

* Part of the Sustain™ portfolio, meeting sustainability compliance standards (MI = unperforated panels only).

### MetalWorks – Interior Only

<table>
<thead>
<tr>
<th>Color Type</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Satin Anodized</td>
<td>Maple (LMP)</td>
</tr>
<tr>
<td>(SAA)</td>
<td>Light Cherry (LCC)</td>
</tr>
<tr>
<td>Lacquer Mill</td>
<td>Dark Cherry (LDC)</td>
</tr>
<tr>
<td>(LMA)</td>
<td></td>
</tr>
</tbody>
</table>

**PERFORATION OPTIONS**

(1:2 scale shown)

- Painted and Laminate Perforations
- PureWood Perforation Options

See more photos at: armstrongceilings.com/photogallery
### VISUAL SELECTION

<table>
<thead>
<tr>
<th>Edge Profile</th>
<th>Item No.</th>
<th>Dimensions (Inches) W x L x D</th>
<th>Light Reflectance**</th>
<th>Springs per Panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>METALWORKS™ Torsion Spring Square with Acoustical Fleece</td>
<td>Torsion Spring Square 15/16&quot;</td>
<td>7209, 0.77</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>7210, 0.77</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>7211, 0.77</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>7212, 0.77</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>7213, 0.77</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

### PERFORMANCE

- Light reflectance: Dots represent high level of performance.

### ACOUSTICAL INFORMATION

- Perforation: Unperforated - Unperforated
- NRC with acrylic fleece: -
- NRC with 1" fiberglass infill panel:

#### 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 and PureWood™ finishes tested per ASTM E84. Flame Spread Index 75 or less. Smoke Developed Index 450 or less.

#### 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 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.

#### 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; all other panel sizes have a directional finish that is parallel to the main beams.

#### 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.

#### Recycled Content

- Minimum 25%. Up to 80% recycled content available.

#### 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.

#### Design Support

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

#### Seismic Restraint

- 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

#### TechLine

- 877 276-7876
- armstrongceilings.com/metalworks
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.

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

XL7341 (Standard 4' Cross Tee)

XL7301TS (Main Beam Slotted 6" O.C.)

7210M1 (24" x 48" Standard Torsion Spring Panel) 4 Spring Locations

XL7390TS (6' Cross Tee Slotted at 3 Locations)

XL7341 (Standard 4' Cross Tee)

XL7378 (Standard 30" Cross Tee)

2x6 Grid Layout (Scale - 1:25)

7301TS (Main Beam Slotted 6" O.C.)

7301TS (Main Beam Slotted 6" O.C.)

7301TS (Main Beam Slotted 6" O.C.)

XL7341 (Standard 4' Cross Tee)

XL7378 (Standard 30" Cross Tee)

2x8 Grid Layout (Scale - 1:25)

7301TS (Main Beam Slotted 6" O.C.)

7301TS (Main Beam Slotted 6" O.C.)

7301TS (Main Beam Slotted 6" O.C.)

XL7390TS (6' Cross Tee Slotted at 3 Locations)

XL7328 (Standard 2' Cross Tee)

2x8 Grid Layout (Scale - 1:25)

30.00

30.00

7301TS (Main Beam Slotted 6" O.C.)

7301TS (Main Beam Slotted 6" O.C.)

XL7341 (Standard 4' Cross Tee)

XL7378 (Standard 30" Cross Tee)

2x8 Grid Layout (Scale - 1:25)

24.00

24.00

24.00

24.00

7301TS (Main Beam Slotted 6" O.C.)

7301TS (Main Beam Slotted 6" O.C.)

7301TS (Main Beam Slotted 6" O.C.)

XL7390TS (6' Cross Tee Slotted at 3 Locations)

XL7328 (Standard 2' Cross Tee)
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

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)</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”</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”</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”</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”</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”</td>
<td>Black</td>
<td>12</td>
</tr>
<tr>
<td>8200T10</td>
<td>1” Fiberglass Infill Bag</td>
<td>24 x 24 x 1”</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>
</tr>
<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 BAA).

* 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” Prelude® XL® Suspension System – Some items slotted for Torsion Spring. See below.</td>
<td>Prelude XL 12’ HD Main Beam – slotted for Torsion Spring</td>
<td>144 x 15/16 x 1-11/16”</td>
</tr>
<tr>
<td>7301TS</td>
<td>Prelude XL 4” Cross Tee – slotted for Torsion Spring</td>
<td>48 x 15/16 x 1-11/16”</td>
</tr>
<tr>
<td>XL7341TS</td>
<td>Prelude XL 6” Cross Tee – slotted for Torsion Spring</td>
<td>72 x 15/16 x 1-11/16”</td>
</tr>
<tr>
<td>XL7390TS</td>
<td>Prelude XL 30” Cross Tee</td>
<td>30 x 15/16 x 1-11/16”</td>
</tr>
<tr>
<td>XL8320</td>
<td>Prelude XL 2” Cross Tee</td>
<td>24 x 15/16 x 1-11/16”</td>
</tr>
<tr>
<td>XL7341</td>
<td>Prelude XL 4” Cross Tee</td>
<td>48 x 15/16 x 1-11/16”</td>
</tr>
</tbody>
</table>

Exterior Suspension System

| 15/16” Prelude XL – Some items slotted for Torsion Spring. See below. | Prelude XL 12’ HD Exterior Main Beam – slotted for Torsion Spring | 144 x 15/16 x 1-11/16” |
| 7301G90ATS | Prelude XL 4” Exterior Cross Tee – slotted for Torsion Spring | 48 x 15/16 x 1-11/16” |
| XL7341G90ATS | Prelude XL 2” Exterior Cross Tee | 24 x 15/16 x 1-11/16” |