**Satin Anodized MetalWorks – interior and exterior**

**Key Selection Attributes**
- Now available with PureWood™ real wood veneers in three standard finishes.
- 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 two standard panel sizes that install with 15/16" G90 suspension system.
- 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**
- MetalWorks – Interior and Exterior
  - Part of the Sustain™ portfolio, meeting sustainability compliance standards.
  - Whiteframe (WFA), Silverlume (SLA), Gun Metal (GMA)

- MetalWorks – Interior Only
  - Satin Anodized (SAI), Lacquer Mill (LMI), Brushframe (BFA)

- Custom Colors Available

**Reflections Laminate Finishes – Interior and Exterior**
- Natural Maple (LMPE), Natural Oak (LNOE)
- Arctic Maple (LAMP), Rock Maple (LMRP), Light Cherry (LCL), Pecan (LPC)
- Wild Cherry (LWCH), Mineral Forest (LMFR), Walnut (LWNT)

**Reflections Laminate Finishes – Interior Only**
- Maple (LMP), Light Cherry (SLC), Dark Cherry (SDC)

**Perforation Options**
- Painted and Laminate Perforations
  - STD-002D 12% Open Area
  - STD-003D 7% Open Area
  - STD-004G 20% Open Area
  - STD-005D 39% Open Area
  - STD-006S 5% Open Area

- PureWood Perforation Options
  - STD-007P 12% Open Area
  - STD-008P 7% Open Area
  - STD-009P 20% Open Area
  - STD-010P 39% Open Area
  - STD-011P 5% Open Area

**CAD/Revit® drawings at:**
armstrongceilings.com/details

**plus...**

See more photos at:
armstrongceilings.com/photogallery

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

**To do more...**

TechLine 877 ARMSTRONG
armstrongceilings.com/technote
METALWORKS™ Torsion Spring Interior

**Visual Selection**

<table>
<thead>
<tr>
<th>Edge Profile</th>
<th>Item Number*</th>
<th>Dimensions (Inches)</th>
<th>Custom Sizes Available</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>METALWORKS™ Torsion Spring Square with Acoustical Fleece</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Torsion Spring Square 15/16&quot;</td>
<td>7209 _ _ _ _ _ _</td>
<td>24 x 48&quot;</td>
<td>Unperforated</td>
</tr>
<tr>
<td></td>
<td>7210 _ _ _ _ _ _</td>
<td>24 x 48&quot;</td>
<td>Unperforated</td>
</tr>
<tr>
<td></td>
<td>7211 _ _ _ _ _ _</td>
<td>24 x 72&quot;</td>
<td>Unperforated</td>
</tr>
<tr>
<td></td>
<td>7212 _ _ _ _ _ _</td>
<td>24 x 96&quot;</td>
<td>Unperforated</td>
</tr>
<tr>
<td></td>
<td>7213 _ _ _ _ _ _</td>
<td>30 x 30&quot;</td>
<td>Unperforated</td>
</tr>
<tr>
<td><strong>Exterior Panels</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7225 _ _ _ _ _ _</td>
<td>24 x 24&quot;</td>
<td>Unperforated</td>
</tr>
<tr>
<td></td>
<td>7226 _ _ _ _ _ _</td>
<td>24 x 48&quot;</td>
<td>Unperforated</td>
</tr>
</tbody>
</table>

**Performance**

Dots represent high level of performance.

<table>
<thead>
<tr>
<th>Panels</th>
<th>Light Reflect</th>
<th>Springs per Panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>7209 M14 LMA</td>
<td>0.77*** 0.61***</td>
<td>4</td>
</tr>
</tbody>
</table>

**Acoustical Information**

<table>
<thead>
<tr>
<th>Perforation</th>
<th>NRC with acoustic fleece</th>
<th>NRC with 1&quot; fiberglass infill panel**</th>
</tr>
</thead>
<tbody>
<tr>
<td>M11</td>
<td>0.75</td>
<td>0.85</td>
</tr>
<tr>
<td>M14</td>
<td>0.65</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>0.90</td>
</tr>
<tr>
<td>M17</td>
<td>0.70</td>
<td>0.90</td>
</tr>
<tr>
<td>M18</td>
<td>0.65</td>
<td>0.85</td>
</tr>
</tbody>
</table>

**Physical Data**

- **Material**
  - Aluminum – thickness 0.040" (item 72266 only)
  - Surface Finish: Reflectix™ laminates; Vinyl-faced membrane
  - Painted finishes: Factory-applied polyester paint
  - Custom colors and finishes available.

- **Fire Performance**
  - If a composite test report is needed, Class A test reports are available for aluminum Torsion Spring painted and metal finishes, along with Class B test reports for both PureWood veneer and Reflectix™ laminate finishes.
  - Fire performance for other finishes will vary depending on the required finish.

- **Code Considerations**
  - The International Mechanical Code requires that materials used in or forming part of an air plenum have a flame spread index of 25 or less and a smoke developed index of 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.”

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

- **Recycled Content**
  - Minimum 25%. Up to 90% recycled content available.

- **Design Support**
  - Project management assistance is available by calling TechLine customer support at 1 877 ARMSTRONG.

- **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.

- **Weight**
  - 0.69 lbs/SF (item 7226)

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*When specifying or ordering, include the appropriate perforation and color suffix with the item number (e.g., 7209 M4 LMA).

**Unperforated Reflectix™ light reflectance.

*** Perforated Reflectix™ light reflectance.

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

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**HOW TO INSTALL PANELS**

1. **Step 1**
   - Suspension System Layout for 30" x 30" Panels

2. **Step 2**
   - Suspension System Layout for 24" x 72" Panels

3. **Step 3**
   - Suspension System Layout for 24" x 96" Panels

**INTERIOR INSTALLATION DETAILS**

**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)**
- 7301TS (Main Beam Slotted 6’ O.C.)
- 7390TS (6’ Cross Tee Slotted at 3 Locations)
- 7341 (Standard 4’ Cross Tee)
- 7378 (Standard 30” Cross Tee)

**2x8 Grid Layout (Scale - 1:25)**
- 24.00
- 7301TS (Main Beam Slotted 6’ O.C.)
- 96.00
- 7328 (Standard 2’ Cross Tee)
**METALWORKS™ Torsion Spring/ Torsion Spring Exterior**

smooth texture

**INTERIOR WALL PERIMETER DETAILS** — For exterior details, consult the MetalWorks Exterior Torsion Spring installation instructions, BPLA-209722

**Installation Detail — Wall Perimeter**

**Installation Detail — Perimeter Trim**

(Extruded Trim #7147)

**Full Panels**

- 7147 (Standard Torsion Spring Bulkhead)
- 7301TS (Main Beam Slotted 6" O.C.)
- FXTBC with bottom tab cut off at line (screws for attachment by others)
- 7210 (24" x 48" Standard Torsion Spring Panel)

**Cut Panels**

- 7147 (Standard Torsion Spring Bulkhead)
- 7301TS (Main Beam Slotted 6" O.C.)
- FXTBC with bottom tab cut off at line (screws for attachment by others)
- 7126 (1.5" Spreader Hold Down)
## METALWORKS™ Torsion Spring/
Torsion Spring Exterior

**Smooth Texture**

### ACCESSORIES

<table>
<thead>
<tr>
<th>Item Number</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>
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<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>
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<tr>
<td>7129</td>
<td>Torsion Spring Hook Access Tool</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>7130</td>
<td>Torsion Spring Suction Access Tool</td>
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<td>N/A</td>
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</table>

### SUSPENSION SYSTEMS

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Description</th>
<th>Dimensions (Inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15/16&quot; Prelude® XL® Suspension System — Some items slotted for Torsion Spring. See below.</td>
<td></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' 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 Number</th>
<th>Description</th>
<th>Dimensions (Inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15/16&quot; Prelude XL — Some items slotted for Torsion Spring. See below.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7301G9ATS</td>
<td>Prelude XL 12' HD Exterior Main Beam – slotted for Torsion Spring</td>
<td>144 x 15/16 x 1-11/16/8&quot;</td>
</tr>
<tr>
<td>XL7341G9ATS</td>
<td>Prelude XL 4' Exterior Cross Tee – slotted for Torsion Spring</td>
<td>48 x 15/16 x 1-11/16/8&quot;</td>
</tr>
<tr>
<td>XL7321G9A</td>
<td>Prelude XL 2' Exterior Cross Tee</td>
<td>24 x 15/16 x 1-11/16/8&quot;</td>
</tr>
</tbody>
</table>