MetalWorks™ Torsion Spring panels with custom perforations in Silverlume with Prelude® XL® 15/16” suspension system

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.
- Now available in 17 standard Effects™ finishes for both interior and exterior applications.
- MetalWorks Torsion Spring is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today. Unperforated (M1) panels only.
- 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 (WHA, SIA, and MYA finishes only).
- CleanAssure™ family of products – includes disinfectable panels, suspension systems, and trim.
- 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.

Effects™ Classic (Interior, Exterior)

| Effects Cherry (FX04, FX02) | Effects Dark Cherry (FX03, FX04) | Effects Oak (FX06, FX03) | Effects Walnut Espresso (FXW6, FXW2) |
| Effects Walnut (FX04, FX06) | Effects Almond (FXAL, FXAL2) |

Effects™ Bold (Interior, Exterior)

| Effects Sea Salt (FXSS, FXSS2) | Effects Ginger (FXG5, FXG52) | Effects Nutmeg (FXNM, FXNM2) |
| Effects Poppy Seed (FXPS, FXPS2) | Effects Poppycom (FXPC, FXPC2) | Effects Almond (FXAL, FXAL2) |

Effects™ Subtle (Interior, Exterior)

| Effects Sesame (FXSE, FXSE2) | Effects Macadamia (FXMA, FXMA2) | Effects Cinnamon (FXCM, FXCM2) |
| Effects Sesame (FXSE, FXSE2) | Effects Cocoa Bean (FXCB, FXCB2) | Effects Cinnamon (FXCM, FXCM2) |

Natural Reflections Laminate Finishes* (Interior Only)

| Cool Maple (LCM) | Honest Maple (LHM) | Honey Maple (LHM) | Spring Cherry (LSC) | Beloved Oak (LO3) | English Walnut (LFW) | Midnight Forest (LMD) |

PERFORATION OPTIONS

1:2 scale shown

- M1 (Unperforated)
- M4 (Rg 3205)
- M15 (Rd 1602)
- M16 (Rd 1607)
- M17 (Rx 2312)
- M18 (Rd 3210)
- M19 (Rg 3220)

* Part of the Sustain™ portfolio in unperforated (M1) panels only.

For premium requests contact ASQuote, asquote@armstrongceilings.com

TechLine 877 276-7876
armstrongceilings.com/metalworkstorsionspring
**METALWORKS™ Torsion Spring**

*Interior and Exterior*

smooth texture

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**VISUAL SELECTION**

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Dimensions (Inches) W x L x H</th>
<th>Material Choice Available</th>
</tr>
</thead>
</table>

**METALWORKS™ Torsion Spring**

*Interior Panels*

- **Square 15/16”**
  - 7209: 24 x 24 x 1-1/2”
  - 7210: 24 x 48 x 1-1/2”
  - 7211: 24 x 72 x 1-1/2”
  - 7212: 24 x 96 x 1-1/2”
  - 7213: 30 x 30 x 1-1/2”

*Exterior Panels*

- **Square 15/16”**
  - 7225: 24 x 24 x 1-1/2”
  - 7226: 24 x 48 x 1-1/2”

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**.PERFORMANCE**

- Dots represent high level of performance.

**ACOUSTICAL INFORMATION**

- NRC with acoustical fleece
- NRC with 1" fiberglass infill

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**PHYSICAL DATA**

Material:
- Aluminum – thickness 0.040”
- Aluminum – thickness 0.060” (Item 7226 only)

Surface Finish:
- Reflections™ laminates: Vinyl-faced membrane

Fire Performance:
- Painted aluminum finishes: Class A: ASTM ES4, Flame Spread Index 25 or less. Smoke Developed Index 50 or less.
- Laminates finishes: Class B: ASTM ES4, Flame Spread Index 75 or less. Smoke Developed Index 450 or less.

ASTM E1264 Classification:
- Unperforated: ASTM E1264 Type XX Pattern G Fire Class A
- Perforated – ASTM E1264 Type XX Pattern C Fire Class A

Laminates finishes:
- Painted finishes: Class B: ASTM ES4, Flame Spread Index 75 or less. Smoke Developed Index 450 or less.

ASTM E1264 Classification:
- Unperforated: ASTM E1264 Type XX Pattern G Fire Class B
- Perforated – ASTM E1264 Type XX Pattern C Fire Class B

Acoustical Options:
- Perforated panels are supplied with a black fiberglass filter to absorb sound.

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

Code Considerations:
- The International Mechanical Code requires that materials used in 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 0.036 inches (0.9mm). These finishes are applied directly to the Class A aluminum substrate.

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 Whiteume, 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 rated for exterior flat applications tested for wind uplift Classes 30, 60, and 90. Specific installation instructions to meet these classes are available.

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

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armstrongceilings.com/metalworkstorsionspring

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**NOTE:** 48” x 48” panels are available as a premium option (WHA, SIA, and MYA finishes only)

**When specifying or ordering, include the appropriate perforation and color suffix with the item number (e.g., 7209 M14 LMA).

**Light reflectance is for unperforated Whiteume.

**Class A fire rating on MetalWorks painted finishes and Class B on laminated finishes.

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For more information visit armstrongceilings.com/fast134.

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**Calculate sustainability with GreenGenie™**

armstrongceilings.com/greengenie

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**WELL LBC**

- UP TO 80% RECYCLED CONTENT

Calculate sustainability with GreenGenie™

armstrongceilings.com/greengenie

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**LEED Green Building Certification**

- LOCATION DEPENDENT

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**Disinfectable Panels**

- CleanAssure™

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**Cleaning and Disinfecting**

- Cleaning and CDC approved disinfecting options available on armstrongceilings.com/cleaning

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**Locally Sourced**

- LOCATION DEPENDENT

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**WELL**

- RECYCLED CONTENT

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**LOCATION DEPENDENT**

- RECYCLED CONTENT

---

**Built Environment Project**

- RECYCLED CONTENT

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**ENERGY PERFORMANCE**

- RECYCLED CONTENT

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**BODIES OF NINE**

- RECYCLED CONTENT

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**SUSTAIN™ High Performance Ceiling Systems**

- RECYCLED CONTENT

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**DECLAIM™**

- RECYCLED CONTENT

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**Technical Assistance**

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

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**EXAMPLE:**

7209 M14 LMA
METALWORKS™ Torsion Spring
Interior and Exterior
Installation Details

HOW TO INSTALL PANELS

Step 1
Step 2
Step 3

INTERIOR INSTALLATION DETAILS
For exterior details, consult the MetaWorks™ 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

7301TS (Main Beam Slotted 6" O.C.)
XL341TS (4’ Cross Tee Slotted at 4 Locations)
7210M1 (24" x 48" Standard Torsion Spring Panel)
4 Spring Locations

2x8 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)

30x30 Grid Layout (Scale - 1:25)

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

7378 (Standard 30” Cross Tee)

2x6 Grid Layout (Scale -1:25)

7301TS (Main Beam Slotted 6" O.C.)
7301TS (Main Beam Slotted 6" O.C.)
7390TS (6’ Cross Tee Slotted at 3 Locations)

48.00
24.00
72.00

728 (Standard 2’ Cross Tee)

2x6 Grid Layout (Scale -1:25)

7301TS (Main Beam Slotted 6" O.C.)
96.00
7328 (Standard 2’ Cross Tee)

2x8 Grid Layout (Scale - 1:25)

7301TS (Main Beam Slotted 6" O.C.)
96.00
7328 (Standard 2’ Cross Tee)
**METALWORKS™ Torsion Spring**

**Interior and 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**

![Wall Perimeter Diagram]

**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)

**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 1.5”</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, Black is recommended)</td>
<td>1 x 120 x 4”</td>
<td>WH, S5, 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 L M A)

* Coordinates with WHA, SIA, MYA Torsion Spring Panel finish
# METALWORKS™ Torsion Spring
## Interior and Exterior
### Installation Details

#### HOW TO INSTALL PANELS

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<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>
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<tr>
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<td>Torsion Spring Perimeter Trim (Extruded) (for Laminates and PureWood, Black is recommended)</td>
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*Coordinates with WHA, SIA, MYA Torsion Spring Panel finish

#### SUSPENSION SYSTEMS

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<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”</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”</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”</td>
</tr>
<tr>
<td>XL7378</td>
<td>Prelude XL 30” Cross Tee</td>
<td>30 x 15/16 x 1-3/8”</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

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Dimensions (Inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7301G9OATS</td>
<td>Prelude XL 12’ HD Exterior Main Beam – slotted for Torsion Spring</td>
<td>144 x 15/16 x 1-11/16”</td>
</tr>
<tr>
<td>XL7341G9OATS</td>
<td>Prelude XL 4’ Exterior Cross Tee – slotted for Torsion Spring</td>
<td>48 x 15/16 x 1-11/16”</td>
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<tr>
<td>XL7321G90A</td>
<td>Prelude XL 2’ Exterior Cross Tee</td>
<td>24 x 15/16 x 1-11/16”</td>
</tr>
</tbody>
</table>