METALWORKS™ Torsion Spring
Custom Ceiling Systems
flat and curved

SUSTAIN™
High Performance
Sustainable
Ceiling Systems

Custom MetalWorks Torsion Spring Ceiling System with Effects™ Cherry wood-look finish

CREATE!™
CUSTOM PERFORATIONS

MetalWorks™ Torsion Spring panels provide a monolithic visual with a unique hide-the-grid installation with 100% swing-down accessibility.

KEY SELECTION ATTRIBUTES

- Four new Sequels™ pre-coat, wood-look finishes are part of the FAST134 program, including downlight panels
- Seventeen standard Effects™ wood-look finishes offer design options in bold, subtle, and classic woodgrain looks
- Natural Reflections laminate finishes provide superior wood-look visual with printed vinyl bonded to aluminum, now Class A and Canadian fire tested; visuals other than the ones shown are also available

- Sustainable Beyond Standard: Select standard and custom panels are part of the Sustain™ portfolio, and meet the most stringent industry sustainability compliance standards today
- MetalWorks™ FASTPeel™ panels feature an easier-to-remove protective film

- CleanAssure™ family of products – includes disinfectable panels, suspension systems, and trim
- Custom bulkheads and trim available; Custom size capabilities ranging from a minimum 12" width up to 120" length
- Transform your images onto custom perforated MetalWorks™ Create!™ ceiling panels for a unique aesthetic plus acoustical performance

- NRC values up to 0.90 with fiberglass infill panels (select perforation patterns)
- Washable and impact-, scratch-, and soil-resistant

Armstrong®
World Industries

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Declare.

LEED® WELL™ LBC

15% RECYCLED CONTENT

For LEED contribution contact TechLine

energy management | construction waste mgmt | regional materials | design for flexibility | EPD | recyclable/extended producer resp. | biobased materials | recycled content | sourcing of raw materials | material ingredient reporting | low emitting/materials | lighting quality | acoustics
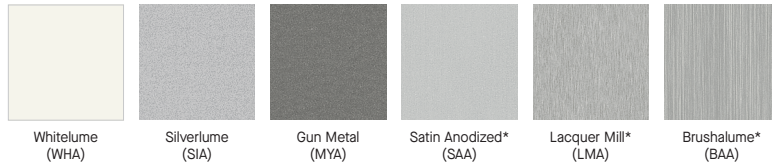
LOCATION DEPENDENT

COLORS & FINISHES
Due to printing limitations, shade may vary from actual product.

Painted

Whitelume (WHA)	Silverlume (SIA)	Gun Metal (MYA)	Satin Anodized* (SAA)	Lacquer Mill* (LMA)	Brushalume* (BAA)

Sequels™
Pre-coated Coil, Fast Lead Time

La Jolla Oak* (SQLO)	New Haven Walnut* (SQNW)	Cape May Cherry* (SQCC)	Montauk Driftwood* (SQMD)

Natural Reflections (Interior Only)
Sustainable Laminate Finishes

Cool Maple (LCM)	Honest Maple (LHS)	Honey Maple (LHM)	Spring Cherry (LSC)	Beloved Oak (LBO)	English Walnut (LEW)	Midnight Forest (LMD)

Effects™ Classic
Dye-Sublimation

Effects Cherry (FXCH)	Effects Dark Cherry (FXDC)	Effects Oak (FXOK)
Effects Walnut (FXWN)	Effects Walnut Espresso (FXWE)	

Effects™ Bold
Dye-Sublimation

Effects Sea Salt (FXSS)	Effects Ginger (FXGR)	Effects Nutmeg (FXNM)
Effects Poppy Seed (FXPS)	Effects Peppercorn (FXPC)	Effects Almond (FXAL)

Effects™ Subtle
Dye-Sublimation

| Effects Sesame (FXSE)	Effects Macadamia (FXMA)	Effects Cinnamon (FXCM)
Effects Flax (FXFL)	Effects Cocoa Bean (FXCB)	Effects Coriander (FXCO)

*Not part of the Sustain™ portfolio
Sequels finishes for exterior: Available in M1 only on item 7225, and unavailable on item 7226.
Effects finishes are standard in 24" × 48" panels in M1 and M16.
Natural Reflections available for exterior applications as a custom option.

PERFORATION OPTIONS (1:2 scale shown)

M1 (Unperforated)	M14 (Rg 3205)	M15 (Rd 1612)	M16 (Rd 1607)	M17 (Rv 3223)	M18 (Rd 3210)	M19 (Rg 3220)
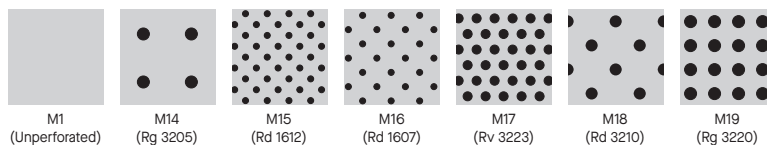
CUSTOM COLORS & FINISHES
Due to printing limitations, shade may vary from actual product.

Custom Colors Available

Custom Wood-Look Finishes Available

For custom options contact ASQuote, ASQuote@armstrongceilings.com

PERFORATION OPTIONS

Custom Perforations Available

Create!™ Custom Perforations Available

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**15%** RECYCLED CONTENT   For LEED contribution contact TechLine

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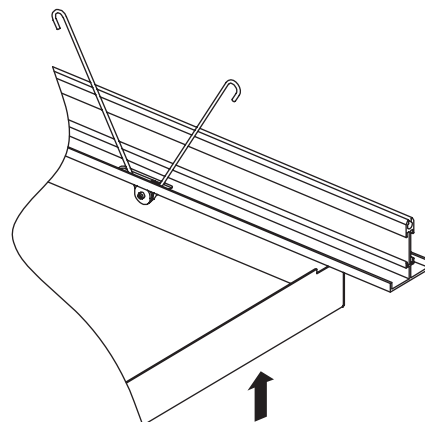
▲ LOCATION DEPENDENT

HOW TO INSTALL PANELS
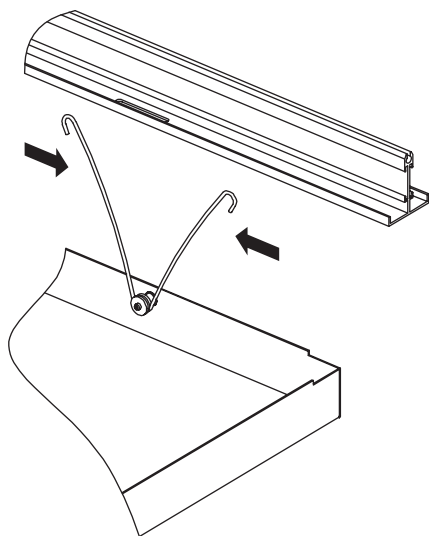
Step 1
Pinch both legs of
Torsion Spring together
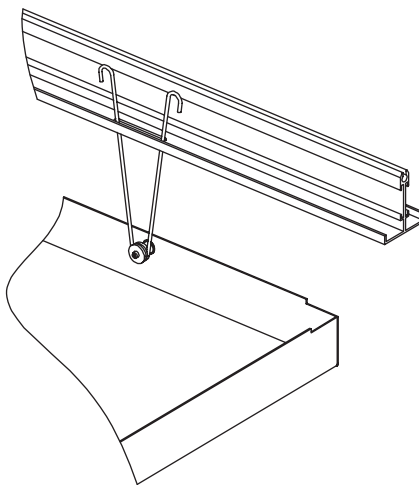
Step 2
Insert legs of Torsion Spring into
slot found on Main Beam or Cross Tee
(from underside of Tee)

Step 3
Release Torsion Spring and push Panel
into place, allowing Panel Return to
sit flush with underside of Tee

INTERIOR INSTALLATION DETAILS

Threaded Rod
or Hanger Wire

Curved Main Tee

Straight
Cross Tee

Curved Metal Panel
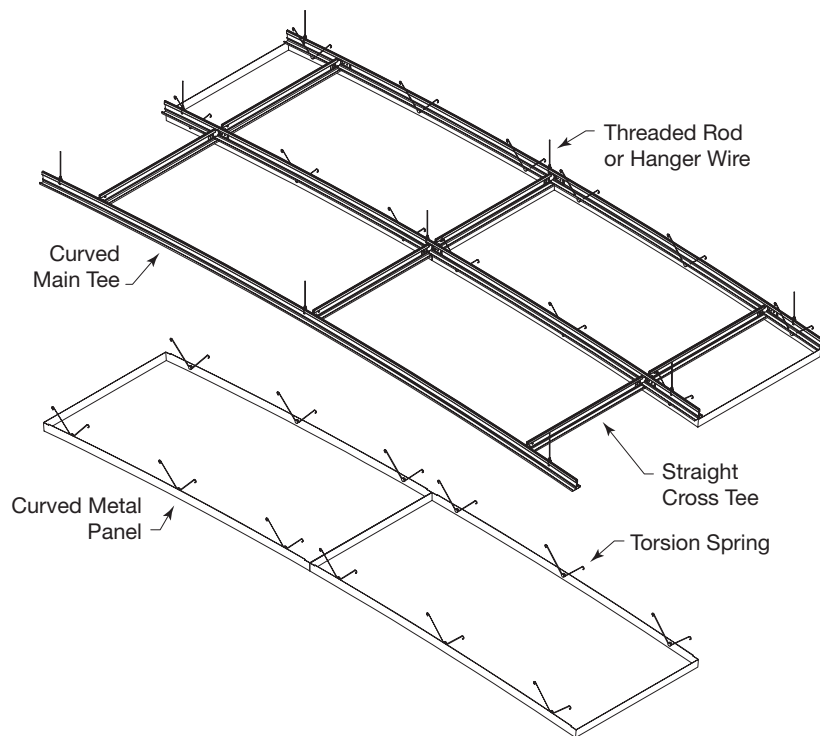
Torsion Spring

MetalWorks™ Torsion Spring Custom Curved Ceiling System
30" × 82" planks with Rg 2516 perforation in Cream Weave finish

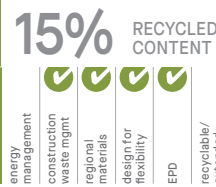METALWORKS™ – Custom

METALWORKS™ Torsion Spring
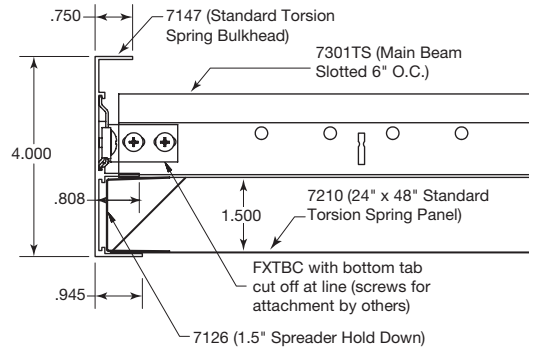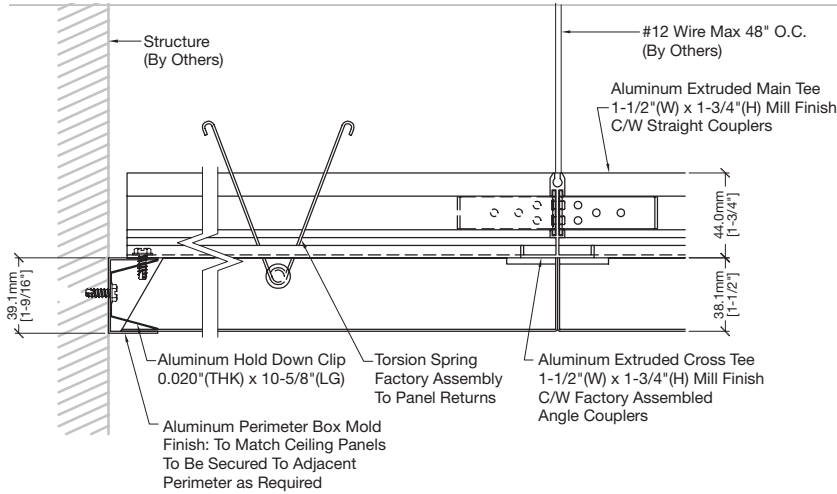## Custom Ceiling Systems
flat and curved

Structure (By Others)
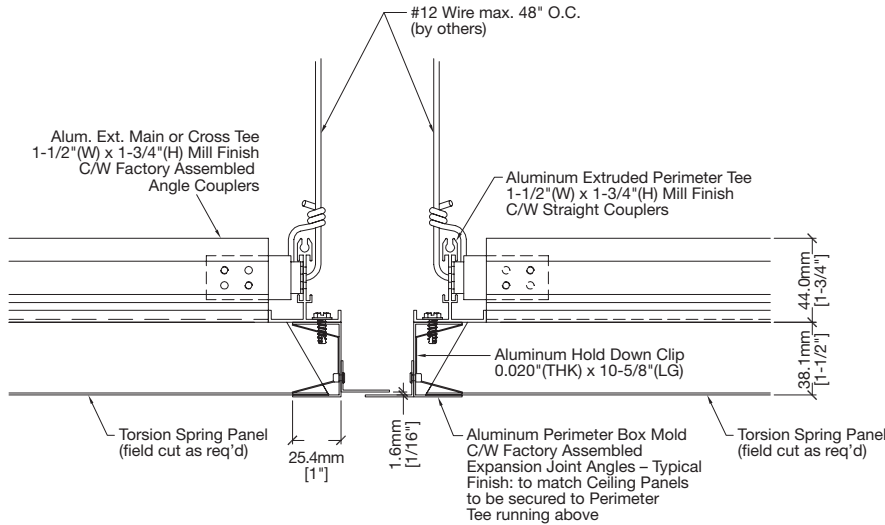
#12 Wire Max 48" O.C. (By Others)

Aluminum Extruded Main Tee 1-1/2"(W) x 1-3/4"(H) Mill Finish C/W Straight Couplers

44.0mm [1-3/4"]
38.1mm [1-1/2"]
39.1mm [1-9/16"]

Aluminum Hold Down Clip 0.020"(THK) x 10-5/8"(LG)
Torsion Spring Factory Assembly To Panel Returns
Aluminum Extruded Cross Tee 1-1/2"(W) x 1-3/4"(H) Mill Finish C/W Factory Assembled Angle Couplers
Aluminum Perimeter Box Mold Finish: To Match Ceiling Panels To Be Secured To Adjacent Perimeter as Required

.750
7147 (Standard Torsion Spring Bulkhead)
7301TS (Main Beam Slotted 6" O.C.)
4.000
.808
1.500
.945
7210 (24" x 48" Standard Torsion Spring Panel)
FXTBC with bottom tab cut off at line (screws for attachment by others)
7126 (1.5" Spreader Hold Down)

MW Standard Torsion Spring Perimeter Bulkhead

DETAIL AT EXPANSION JOINT

#12 Wire max. 48" O.C. (by others)

Alum. Ext. Main or Cross Tee 1-1/2"(W) x 1-3/4"(H) Mill Finish C/W Factory Assembled Angle Couplers

Aluminum Extruded Perimeter Tee 1-1/2"(W) x 1-3/4"(H) Mill Finish C/W Straight Couplers

44.0mm [1-3/4"]
38.1mm [1-1/2"]

Aluminum Hold Down Clip 0.020"(THK) x 10-5/8"(LG)

Torsion Spring Panel (field cut as req'd)
25.4mm [1"]
1.6mm [1/16"]
Aluminum Perimeter Box Mold C/W Factory Assembled Expansion Joint Angles – Typical Finish: to match Ceiling Panels to be secured to Perimeter Tee running above
Torsion Spring Panel (field cut as req'd)

CORNER SPLICE AND STAGGERED MOLDING

Exterior Mold (finish to match ceiling)
Hardware (by others)
Corner Splice
Interior Channel to be Spliced O.C. of the Exterior Mold
Hardware (by others)
The Exterior Mold (finish to match ceiling)
Varies
1/2
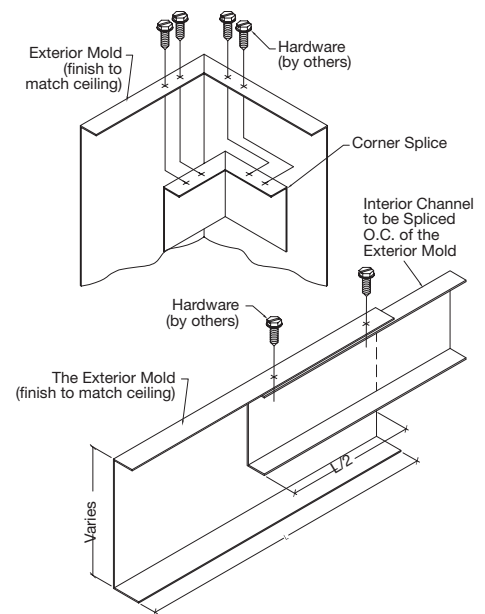
PHYSICAL DATA

Panel Dimensions
Panel dimensions range from a minimum 12" width up to a 120" length. Our Armstrong® Architectural Specialties project management team is available to assist in project design.

Material
Aluminum – thickness 0.032"; options up to 0.125". Panels also available in steel. Consult the Armstrong Architectural Specialties project management team.

Finishes
The Torsion Spring Plank Systems offer an extensive range of ceiling options for maximum design and installation flexibility, including multiple pre- and post-coated finishes.

Acoustical Options
Painted, Effects, Natural Reflections and Sequels finishes:
Unperforated: ASTM E1264 Type XX Pattern G Fire Class A
Perforated - ASTM E1264 Type XX Pattern C Fire Class A

Fire Performance
Painted aluminum and Ceiltex finishes tested per ASTM E84. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

CAN/ULC S102 surface burning characteristics: Flame Spread Rating 20. Smoke Developed Classification 0.

Painted Aluminum finishes CAN/ULC S102 surface burning characteristics: Flame Spread Rating 0. Smoke Developed Classification 0.

Laminate finish tested per ASTM E84. Flame Spread Index 75 or less. Smoke Developed Index 450 or less.

Recycled Content
Minimum 25%. Up to 98% recycled content available.

Design Consideration
Sizes can be mixed and matched on non-perforated panels only.

Reflections™ laminates and Brushalume are available in limited panel widths.

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.

Installation Considerations
Panels with certain product finishes, e.g., Effects™ and Natural Reflections, are not MetalWorks™ FASTPeel™ panels and will be protected by other means for packaging and handling purposes.

Wind Uplift Performance
24" × 24" and 24" × 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
For custom design assistance contact ProjectWorks® Design Services or visit armstrongceilings.com/projectworks

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

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

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