METALWORKS™ Torsion Spring
Large Format
Interior

SUSTAIN™
High Performance
Sustainable
Ceiling Systems

48" × 96" MetalWorks Torsion Spring Large Format panels in White finish and M15 perforation pattern

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

KEY SELECTION ATTRIBUTES

- Sustainable Beyond Standard: Select standard and custom panels are part of the Sustain™ portfolio, and meet the most stringent industry sustainability compliance standards today
- ExpanTech™ panels stay strong and stable, keeping ceilings smooth and seamless without bending or sagging
- Simple plenum access with easy-to-access torsion spring design

- CleanAssure™ family of products – includes disinfectable panels, suspension systems, and trim
- Panels feature swing-down accessibility
- Coordinates with MetalWorks and Axiom® Vector trim
- Washable and impact-, scratch-, andsoil-resistant

- Standard 4' × 8' panels have fewer seams for a clean, monolithic look
- Available in sizes up to 5' × 10' as custom
- Available in M1 unperforated and M15 perforated options
- Available in custom perforations, including M3 (Extra Microperforated)

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

Painted

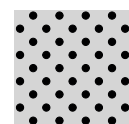| White (WH) | Silver Grey (SG) | Gun Metal Grey (MY) | Custom Colors Available | Custom Wood-look Finishes Available |

For custom options contact ASQuote, ASQuote@armstrongceilings.com

STANDARD PERFORATION OPTIONS
(1:2 scale shown)

| M1 (Unperforated) | M15 (Rd 1612) |

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METALWORKS™ Torsion Spring Large Format Interior

VISUAL SELECTION
Contact ASOrder@armstrongceilings.com for custom options.

	Item No. ◆	Dimensions (Inches) W × L × H — Custom Sizes Available
METALWORKS™ Torsion Spring Square 15/16"	7143D408_ _ _ _ _ _	48 × 96 × 1-1/2"

* Light reflectance is for unperforated White.

◆ When specifying or ordering, include the appropriate perforation and color suffix with the item number (e.g., 7209 M 1 4 L M A).
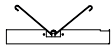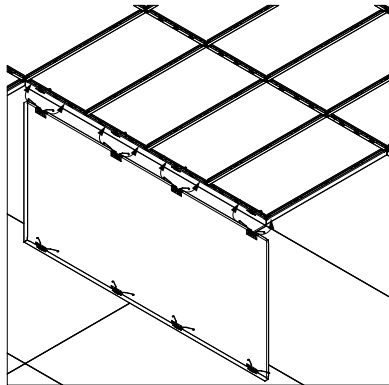
PERFORMANCE
Dots represent high level of performance.

	Fire Performance	Light Reflect*	Springs per Panel	CleanAssure™ Disinfectable Panels		
				Fog	Spray	Wipe
	Class A	0.73	8	•	•	•

ACOUSTICAL INFORMATION

Perforation		NRC with acoustical fleece	NRC with 1" fiberglass infill ††
M1	Unperforated	N/A	N/A
M15	Rd 1612	0.75 •	0.95 •

†† Maximum NRC achieved with acoustical infill (Item 8200T10).
For infill panel information, visit armstrongceilings.com/mwaccessories

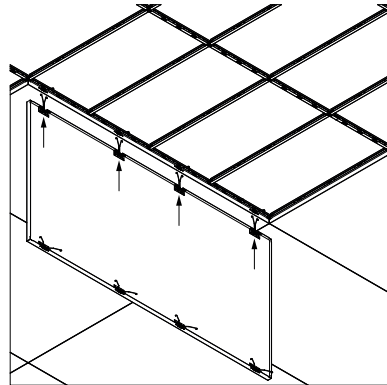EXAMPLE: **7209 M15 WH**

- Panel Item
- Perforation: M15 Round Diagonal Rd 1612
- Finish: White

HOW TO INSTALL PANELS

Step 1

Step 2

Step 3

.556
.25
Formed Torsion Spring Perimeter Trim (7131)
MetalWorks Torsion Spring Large Format Panel (7143)
4.25
1.00
1.50
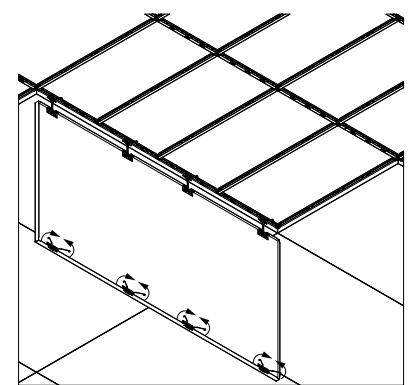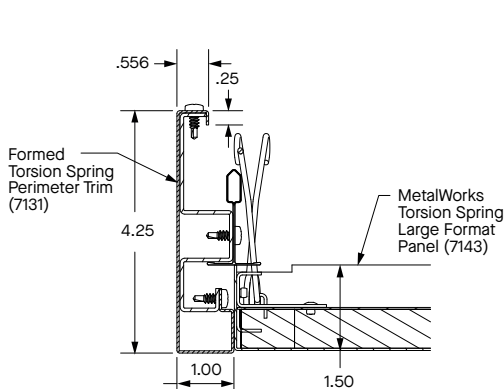
Extruded Perimeter Trim (Item 7131) Detail for Full Sized Panels

Formed Torsion Spring Perimeter Trim (7131)
Prelude® XL® 12' HD Main Beam Slotted for Torsion Spring (7301TS)
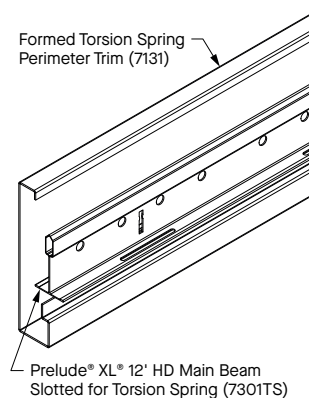
7131, Formed Torsion Spring Perimeter Trim – Attached to Grid Main Beam

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METALWORKS™ – Standard
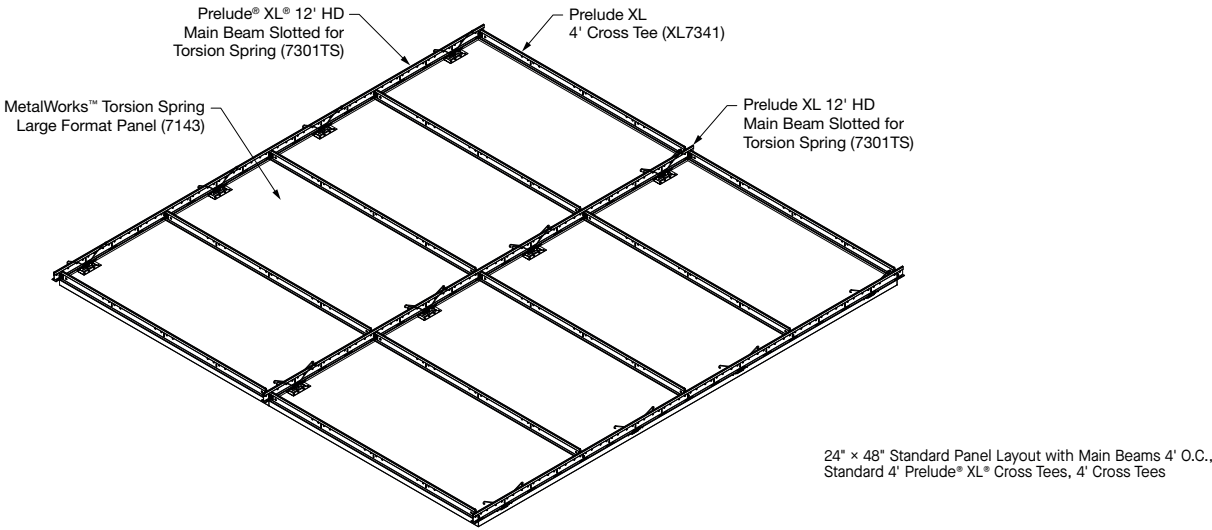
USDA CERTIFIED BIOBASED PRODUCT 95%

SUSTAIN™ High Performance Sustainable Ceiling Systems

Declare.

RECYCLED CONTENT
UP TO
20%

LEED V5
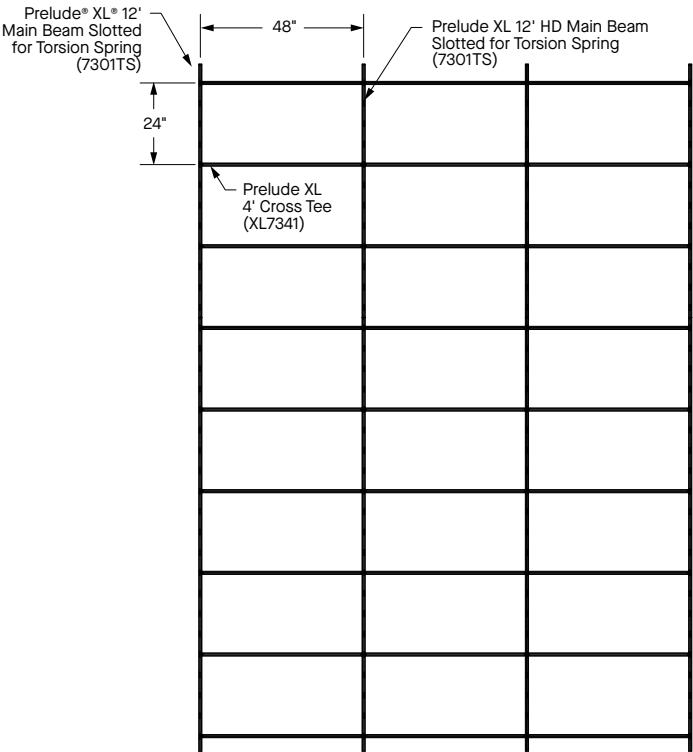
COMMON MATERIALS FRAMEWORK		Climate Health	**EPD**
Human Health	**Declare Label**	Ecosystem Health	**EPD**
	HPD		
	3rd Party CDPH	Circular Economy	✓
OCCUPANT EXPERIENCE		Acoustics	✓

HOW TO INSTALL PANELS

Prelude® XL® 12' HD Main Beam Slotted for Torsion Spring (7301TS)

Prelude XL 4' Cross Tee (XL7341)

MetalWorks™ Torsion Spring Large Format Panel (7143)

Prelude XL 12' HD Main Beam Slotted for Torsion Spring (7301TS)

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

INSTALLATION DETAIL

Prelude® XL® 12' Main Beam Slotted for Torsion Spring (7301TS)

48"

Prelude XL 12' HD Main Beam Slotted for Torsion Spring (7301TS)

24"

Prelude XL 4' Cross Tee (XL7341)

METALWORKS™ – Standard

TechLine 877 276-7876

armstrongceilings.com/metalworkstorsionspring

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METALWORKS™ Torsion Spring Large Format Interior

INTERIOR WALL PERIMETER DETAILS

MetalWorks™ Torsion Spring Large Format Perimeter with Panel

Wall

Prelude® XL® 12' HD Main Beam Slotted for Torsion Spring (7301TS)

2"

1" × 2" Box Molding (7125)

MetalWorks Torsion Spring Large Format Panel (7143)

1"
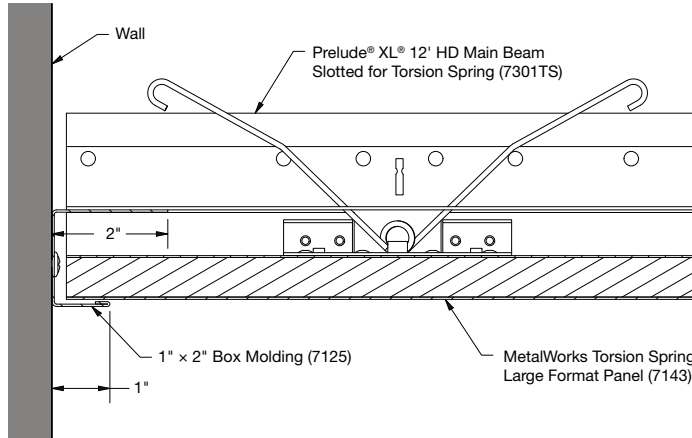
DISCONTINUOUS SYSTEM PERIMETER DETAILS

MetalWorks Torsion Spring Large Format Perimeter Floating – Uncut Panel

.75"

Standard Torsion Spring Bulkhead Trim (7147)

Prelude® XL® 12' HD Main Beam Slotted for Torsion Spring (7301TS)

4"

.81"

.95"

FXTBC w/ Bottom Tab Cut Off at Line (Screws for Attachment by Others)

MetalWorks Torsion Spring Large Format Panel (7143)
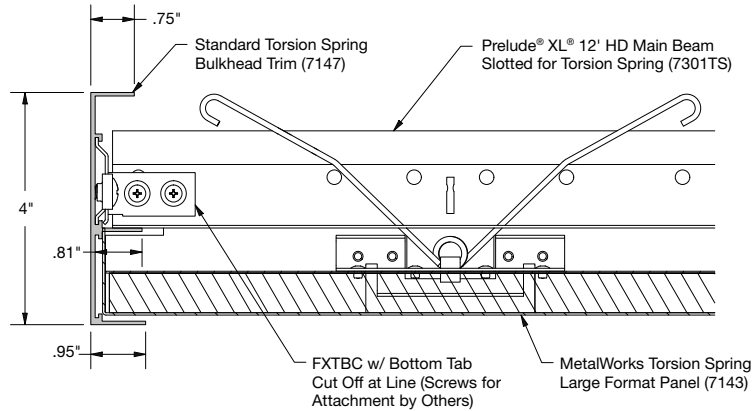
MetalWorks Torsion Spring Large Format Perimeter Floating – Field Cut Panel

.75"

Standard Torsion Spring Bulkhead Trim (7147)

Prelude® XL® 12' HD Main Beam Slotted for Torsion Spring (7301TS)

4"

.81"

.95"

FXTBC w/ Bottom Tab Cut Off at Line (Screws for Attachment by Others)

MetalWorks™ Torsion Spring Large Format Panel (7143)

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METALWORKS™ Torsion Spring
Large Format
Interior

RECYCLED CONTENT

UP TO **20%**

LEED V5

COMMON MATERIALS FRAMEWORK		Climate Health	EPD
Human Health	**Declare Label**	Ecosystem Health	EPD
	HPD		
	3ʳᵈ Party CDPH	Circular Economy	✓
OCCUPANT EXPERIENCE		Acoustics	✓

SUSTAIN™
High Performance
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USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 95%

Declare.

INTERIOR WALL PERIMETER AXIOM DETAILS

Adjustable Trim Clip (7239)

Prelude XL 12' HD Main Beam
Slotted for Torsion Spring (7301TS)

Axiom Vector
(AX6VESTR)

MetalWorks Torsion Spring
Large Format Panel (7143)

60° Max

Remove aluminum honeycomb as needed
at adjustable Trim Clip (7239) and Splice Plates
with Setscrews (AXSPLICE2)

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ACCESSORIES

	Item No. ◆	Description	Dimensions (Inches) Nominal W × L × H	Color	Pieces/ Carton
Wall-to-Wall Installations	7125_ _	Box Molding	2 × 96 × 1-1/2"	WH, SG, MY	10
Floating Cloud Installations	7131_ _	Torsion Spring Perimeter Trim (Formed)	1 × 96 × 4-1/4"	WH, SG, MY	6
	7147_ _	Torsion Spring Perimeter trim (Extruded)	1 × 120 × 4"	WH, SG, MY	6
	AX6VESTR_ _	Axiom® Vector® Trim – 6" Straight	3/4 × 120 × 6"	WH, SG, MY, BL*	N/A
	AX6VECUR	Axiom Vector Trim – 6" Curved	3/4 × 120 × 6"	WH, SG, MY, BL*	N/A
	7239	Adjustable Trim Clip	N/A	N/A	50
Acoustical Infill Panels	8200T10	1" Fiberglass Infill Bag	24 × 24 × 1"	Black (Gloss)	12
Other Accessories	7129	Torsion Spring Hook Access Tool	N/A	N/A	1
	7130	Torsion Spring Suction Access Tool	N/A	N/A	1
	BERC2	Beam End Retaining Clip	N/A	Mill Finish	200

★ Axiom finishes coordinate with MetalWorks finishes.

◆ When specifying or ordering, include the appropriate color code with the item number (e.g. 7131 L M A).

SUSPENSION SYSTEMS

	Item No.	Description	Dimensions (Inches)
15/16" Prelude® XL® Suspension System Some items slotted for Torsion Spring.	7301TS	Prelude XL 12' HD Main Beam – slotted for Torsion Spring	144 × 15/16 × 1-11/16"
	XL7341	Prelude XL 4' Cross Tee	48 × 15/16 × 1-11/16"

PHYSICAL DATA

Material
Aluminum composite .75", Overall panel height 1.5"

Surface Finish
Painted: Factory-applied polyester paint
Custom colors and finishes available.
Contact AS Quote for custom size and perforation options.

Fire Performance
Class A: ASTM E84 and CAN/ULC S102. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.
Painted aluminum finishes: CAN/ULC S102: Flame Spread Rating 25 or less. Smoke Developed Classification 50 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

Acoustical Options
Perforated panels come standard with acoustical fleece to absorb sound.

Recycled Content
Up to 20%.

Design Considerations
White and Whitelume, are not exact color matches. Please consider this when designing adjacent spaces with multiple MetalWorks products.

Design Support
For custom design assistance contact ProjectWorks® Design Services or visit armstrongceilings.com/projectworks

Seismic Restraint
MetalWorks® Large Format panels are engineered to meet seismic requirements for Seismic Design Categories D, E, and F in accordance with applicable building codes (Item 7143D408).

DSA and OSHPD compliance involves additional structural and installation requirements beyond standard seismic design categories. Always verify project-specific seismic criteria with the authority having jurisdiction.

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

Weight
4' × 8' Perforated – 37.6 lbs
4' × 8' Non Perforated – 42.25 lbs

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