



MetalWorks™
Torsion Spring
Ceiling Panels



Armstrong®
World Industries

So Many Choices

From a monolithic visual, to blades, to mesh, MetalWorks™ Torsion Spring ceiling panels are available in a variety of styles and finishes. Ease of installation and increased accessibility make them the perfect choice for any project.

For the wood enthusiast, we offer three families of standard wood-look finishes, including our own factory-cut downlight panels for easy lighting integration. Standard and custom color options mean the sky's the limit.

MetalWorks™ Torsion Spring panels in Sequels™ – New Haven Walnut wood-look finish

Design a space that reflects your essence.

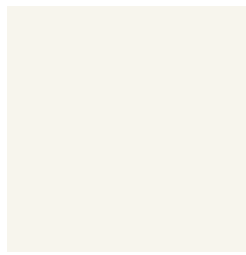




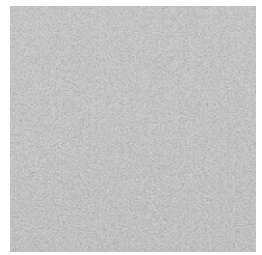
MetalWorks™ Torsion Spring 2' x 8' ceiling panels in Gun Metal; American AG Credit Union HQ; Santa Rosa, CA



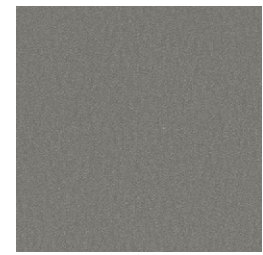
Painted Finishes



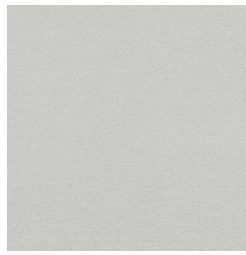
Whitelume
(WHA)



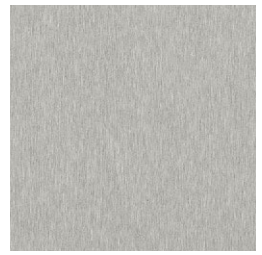
Silverlume
(SIA)



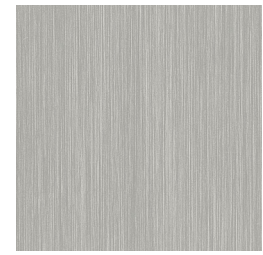
Gun Metal
(MYA)



Satin Anodized*
(SAA)



Lacquer Mill*
(LMA)



Brushalume*
(BAA)



Custom Colors
Available

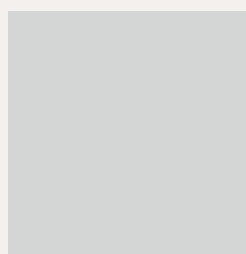
Empower Your Design

Choose from popular finishes and perforations, or custom colors and perforations, to empower your design.

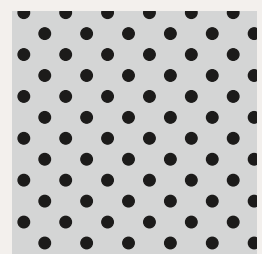
- Select finishes are part of the FAST134 program – available to ship in 4 weeks or less
- Select finishes are part of the Sustain™ portfolio, meeting the most stringent industry sustainability standards
- CleanAssure™ family of products – includes disinfectable panels, suspension systems, and trim
- Monolithic visual with 100% downward accessibility
- NRC values up to 0.90 with fiberglass infill panels (select perforation patterns)
- Select finishes available as FASTPeel™ panels featuring an easier-to-remove protective film



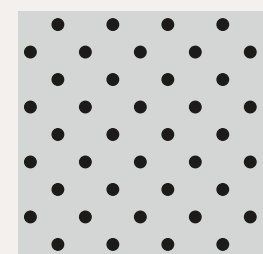
Standard Perforation Options (1:1 scale shown)



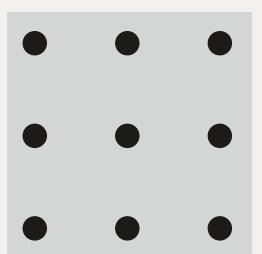
M1
(Unperforated)



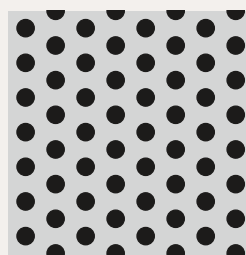
M15
(Rd 1612)



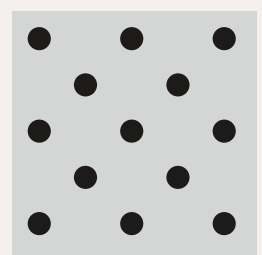
M16
(Rd 1607)



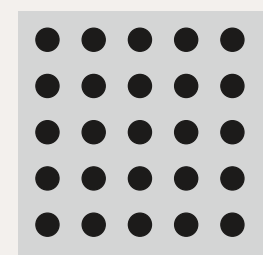
M14
(Rg 3205)



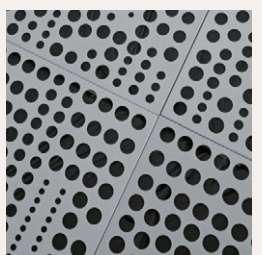
M17
(Rv 3223)



M18
(Rd 3210)



M19
(Rg 3220)



Custom Perforations
Available

* Not part of the Sustain portfolio

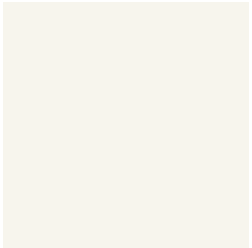
Seamless Scale. Effortless Access.

MetalWorks® Torsion Spring Large Format panels deliver a clean, monolithic look with the accessibility and performance demanded in today's large-scale interiors.

- 4' x 8' panels create a bold, uninterrupted visual
- Hidden suspension system for a seamless, continuous ceiling plane
- Panels swing down for easy access to the plenum
- Compatible with integrated lighting, air diffusers, and other ceiling elements
- Available in a wide range of standard and custom colors and perforations
- Optional infill panels enhance sound absorption for balanced environments



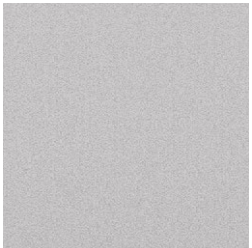
Painted Finishes



Whitelume
(WHA)



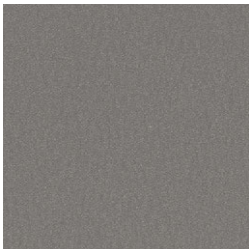
Custom Colors
Available



Silverlume
(SIA)

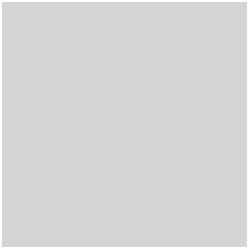


Custom Wood-Look
Finishes Available

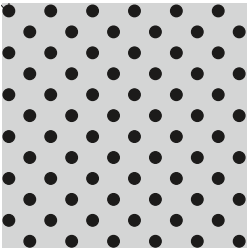


Gun Metal
(MYA)

Standard Perforation Options (1:1 scale shown)



M1
(Unperforated)



M15
(Rd 1612)

* Not part of the Sustain portfolio



MetalWorks Torsion Spring ceiling panels in custom Móz Classic Champagne finish on Clouds grain

Móz Classic Metal Grains*



Fog



Clouds



Mist

* Additional Móz grains and custom colors are available. Contact ASQuote@armstrong.com for details.

A Finish for Every Vision

Pair the signature artistry of Móz™ Classic Metal Collection Finishes with MetalWorks™ Torsion Spring ceiling panels for a one-of-a-kind visual. Choose your grain, choose your color, and transform your ceiling!

Armstrong®
World Industries



Móz Classic Metal
Colors*

				
Ivory	Light Graphite	Graphite	Steel Lavender	Ebony
				
Light Champagne	Champagne	Penny Copper	Brazilian Cherry	Cabernet
				
Antique Gold	Goldrush	Light Chestnut	Antique Brass	Medium Bronze
				
Light Pewter	Titanium	Light Khaki	Khaki	True Copper
				
Pewter	Royal Blue	Peacock Green	Indigo	Night Blue

* Additional Móz grains and custom colors are available. Contact ASQuote@armstrong.com for details.



24" x 48" MetalWorks Torsion Spring ceiling panels with custom Móz Classic Light Khaki finish on Fog grain and Móz Backlit Laser Cut Columns



MetalWorks Torsion Spring ceiling panels in Sequels – Montauk Driftwood

Sequels™ Pre-Coat Wood Looks... **FAST!**

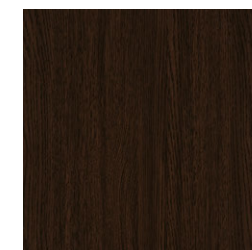
MetalWorks™ Sequels™ pre-coat finishes deliver wood-look visuals... fast! Produced with high-definition, rotogravure printing technology, our newest family of wood looks is available as a standard finish on MetalWorks Torsion Spring, including factory-cut downlight panels.



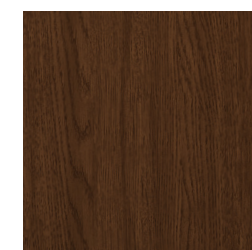
Sequels™ Pre-Coat Finishes



La Jolla Oak (SQLO)



New Haven Walnut* (SQNW)



Cape May Cherry* (SQCC)



Montauk Driftwood* (SQMD)

- Part of the FAST134 program – available to ship in 4 weeks or less
- Factory-cut downlight panels and fixtures ensure that the intended design aesthetic is achieved every time
- Torsion Spring 24" x 24", M1 panels approved for exterior use
- Also available as standard on MetalWorks™ Clip-on, MetalWorks Blades – Classics, MetalWorks™ Immix™, and MetalWorks™ Linear – Classics Panels



* Not part of the Sustain portfolio

UA Football Locker Room

A Lasting Impression

Case Study

The Challenge

When designing the University of Alabama Football Locker Room at Bryant-Denny Stadium, the design team from Forty Nine Degrees wanted “to create a unique experience so that anyone walking through the space would know they were in the home of the Alabama Crimson Tide,” explains Jesse Ranly, VP-Creative, Client Strategy at Forty Nine Degrees.



The Solution

The concept the Forty Nine Degrees design team developed called for a metal ceiling, perforated with the Alabama Script A logo and random trails of additional perforations. Diffused lighting from a series of LED light boxes behind the ceiling would accentuate the Script A logo and illuminate the space below.

To make the ceiling concept a reality, Forty Nine Degrees turned to the design professionals at Armstrong who realized the design intent with a custom perforated MetalWorks™ Torsion Spring Ceiling System.

While the original concept called for the perforations in all the ceiling panels to be unique, Armstrong found a way to reduce the cost by commonizing the perforation patterns in the panels that were not part of the Script A logo.

“Of the 194 panels that make up the ceiling, only 65 unique panels were required to make up the logo,” explains Armstrong Design Manager Dan Holdridge. “The rest of them are four different types of common panels. The perforation patterns in the common panels look random, but they aren’t.”



Custom MetalWorks Torsion Spring ceiling panels, University of Alabama Football Locker Room, Tuscaloosa, AL

Concerned that the perforations would not allow enough light to penetrate the space, Forty Nine Degrees considered adding auxiliary light fixtures to the ceiling. “That would have really detracted from the design,” explains Holdridge. “So, we played around with the perforations in the logo to open them up a bit and let more light into the room.”

To demonstrate how much light output the larger perforations would provide, Armstrong created virtual mockups that simulated how bright the room would be with the design.

“That really helped them to see how much light they would actually get and that it would be enough to light the space,” says Holdridge.

Pleased with the result, Ranly says the ceiling is a “show stopper” and credited the Armstrong team with making it possible. “Armstrong helped us transform our vision into reality,” he says. “Its team of specialists provided solutions that made our concept achievable both in design and function.”

Natural Reflections Sustainable Finishes

MetalWorks™ Natural Reflections laminate finishes bring warmth to a space with an embossed, gorgeous wood-look finish for an upscale visual.



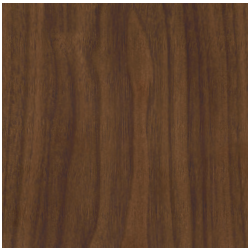
- Part of the Sustain™ portfolio, meeting the most stringent industry sustainability compliance standards today
- Also available as standard on MetalWorks 3D
- For interior applications only



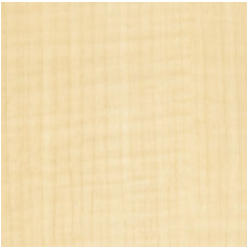
Natural Reflections Sustainable Laminate Finishes



Honey Maple
(LHM)



English Walnut
(LEW)



Cool Maple
(LCM)



Honest Maple
(LHS)



Spring Cherry
(LSC)



Beloved Oak
(LBO)



Midnight Forest
(LMD)



MetalWorks™ Torsion Spring
Custom panels in Effects – Cherry;
Columbus Airport, Columbus, GA

Effects™ Wood Looks Warm & Timeless

Seventeen standard MetalWorks™ Effects™ wood-look finishes offer design options in bold, subtle, and classic wood grain looks.

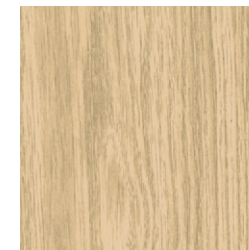
- Interior and exterior applications
- Coordinating trim solutions for all Effects finishes
- Also available as standard on MetalWorks™ Clip-on, MetalWorks™ Blades – Classics, and MetalWorks™ Linear – Classics, Synchro®, and Diverge® panels
- Part of the Sustain™ portfolio, meeting the most stringent industry sustainability compliance standards today



Effects Bold Dye-Sublimation Finishes



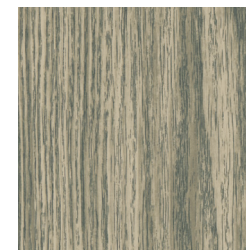
Effects Sea Salt
(FXSS)



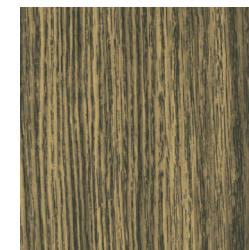
Effects Ginger
(FXGR)



Effects Nutmeg
(FXNM)



Effects Poppy Seed
(FXPS)

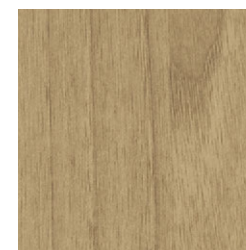


Effects Peppercorn
(FXPC)

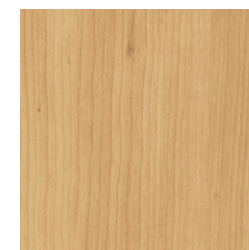


Effects Almond
(FXAL)

Effects Subtle Dye-Sublimation Finishes



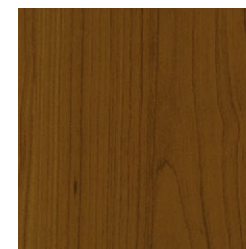
Effects Sesame
(FXSE)



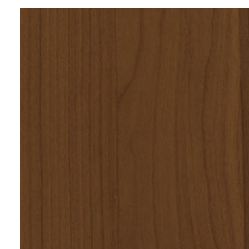
Effects Macadamia
(FXMA)



Effects Cinnamon
(FXCM)



Effects Flax
(FXFL)

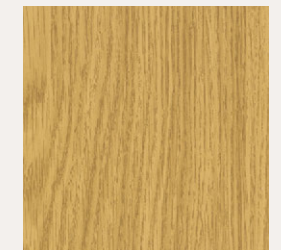


Effects Cocoa Bean
(FXCB)



Effects Coriander
(FXCO)

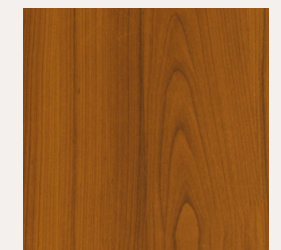
Effects™ Classics Dye-Sublimation Finishes



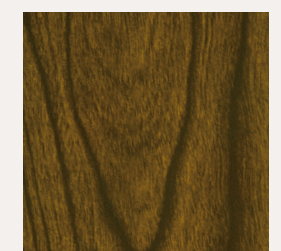
Effects Oak
(FXOK)



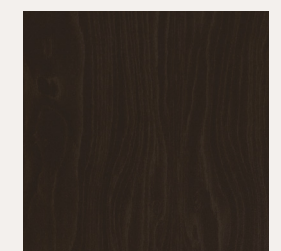
Effects Cherry
(FXCH)



Effects Dark Cherry
(FXDC)



Effects Walnut
(FXWN)



Effects Walnut Espresso
(FXWE)



MetalWorks Torsion Spring for Behavioral Health
30" x 30" ceiling panels in Whitelume (WHA)

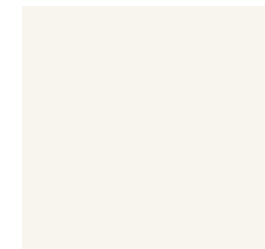
Environments for Wellness & Safety

Designing spaces for behavioral or mental health requires a focus on physical and psychological well-being. Introducing MetalWorks™ Torsion Spring for Behavioral Health ceiling system.

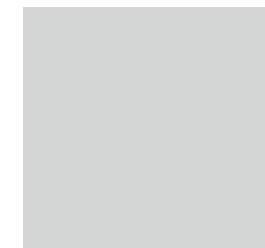
- Tested and accepted by the New York State Office of Mental Health (NYS-OMH)
- Standard size – 30" x 30"
- Simple plenum access with easy-to-access torsion spring design
- FASTPeel™ panel featuring faster, easier-to-remove protective film



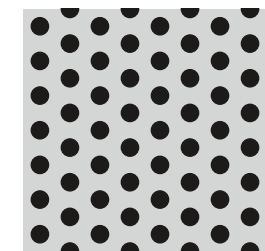
Standard Color & Perforations *



Whitelume
(WHA)



M1
(Unperforated)



M17
(Rv 3223)

* Whitelume (WHA) with M1 or M17 perforations are currently the only options tested and accepted by NYS-OMH; when using M17 perforated panel, 1" fiberglass infill must be used in order to maintain NYS-OMH compliance.

Papago Buttes III Lobby

A Lasting Impression

Case Study

The Challenge

Papago Buttes III is a 95,000-square-foot Class A office building constructed in 2008. The building’s management recently decided to renovate the interior to update the facility in order to attract new tenants. Included in the renovations were public spaces such as the main lobby, common corridors, and elevator lobbies. According to SmithGroup designer Simone Schoen, the lobby was key to the renovation. “The owners were looking for a unique signature ceiling that would draw eyes up as tenants and visitors entered the space,” she says.



The Solution

To accomplish that goal, Schoen chose Armstrong MetalWorks™ Torsion Spring Shapes ceiling panels. The distinctive system allows architects and designers to create dynamic one-of-a-kind ceilings using a standard set of 2D and faceted 3D geometric shapes and perimeter panels.

Measuring 24' × 24', the new lobby ceiling consists of both 2D and 3D panels. The 3D panels are triangular in shape to match the canopies located outside the building. “We wanted to carry the triangular design into the interior of the building and tie the two together,”

Schoen explains. All the panels are Silverlume in color, feature swing-down accessibility, and are perforated. They are also backed with an acoustical fleece to provide a Noise Reduction Coefficient (NRC) of 0.70.

Lighting integration played a critical role in the project’s success. To aid the design team in that aspect of the project, the Armstrong ProjectWorks® Design & Pre-Construction Service became involved. The complimentary service offers a complete design-to installation package for its Metalworks Torsion Springs Shapes ceilings as well as numerous other mineral fiber, fiberglass, and specialty ceiling solutions.



MetalWorks Torsion Spring Shapes ceiling panels, Papago Buttes III Lobby, Tempe, AZ

According to ProjectWorks Design Specialist, John Lutz, the challenge was how to seamlessly account for light fixtures in the ceiling. “To meet that challenge, we made adjustments to the original design and created four small flat areas using 2D square panels. Canned light fixtures were then installed in those areas. Thanks to the configuration of the 3D panels, the flat sections add a dynamic, yet, practical, element to the overall installation.”

ProjectWorks also provided a drawing package that included a reflected ceiling plan in which all the panels were labeled with a letter designation.

“This reduced the risk factor greatly because it showed the contractor where each panel goes,” Lutz says. “There was no guessing.”

The new ceiling has had a dramatic impact on all who enter the building and creates a clean, fresh, contemporary feel to the space. As designer Schoen notes, “All who see it agree it’s an amazing ceiling. It is the focal point we desired.”

Take the Next Step



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On the cover:
MetalWorks™ Torsion Spring in Silverlume
Santos Manuel Student Union San Bernardino, CA

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