

PHX Sky Harbor Airport – Terminal 3, Phoenix, AZ / Photo: © Taube Photography

Our Torsion Spring – Segmented ceiling system is a popular alternative to curved panels, allowing the use of downward accessible flat panels in a curved ceiling.

#### FEATURES AND BENEFITS

- Two panel size sets with square edge design:
  - 6" to 42" width up to 96" long
  - 48" width up to 48" long
- Waste reduction with factory fabricated dimensional material
- Downweight: reduce dead load with lightweight aluminum
- Interior and exterior applications
- Compatible with industry standard lighting, HVAC, speaker, fire safety, and security services

#### ATTRIBUTES



FIRE RATING:  
CLASS A  
PER ASTM E84  
AND CAN/ULC-S102



SEISMIC RATING:  
ZONES A, B, C, D, E, F



CUSTOMIZATION  
AVAILABLE

#### LEED® v4

RECYCLED CONTENT | up to 85%

- ✓ EA: Optimize Energy Performance
- ✓ MR: Building Product Disclosure
- ✓ EQ: Low-Emitting Materials
- ✓ EQ: Indoor Air Quality Assessment
- ✓ EQ: Daylight
- ✓ EQ: Acoustic Performance

LEED® is a registered trademark of the U.S. Green Building Council.

#### CERTIFICATIONS



GREENGUARD  
GOLD CERTIFIED



ENVIRONMENTAL  
PRODUCT DECLARATION  
UL.COM/EPD



## TORSION SPRING – SEGMENTED

### COLORS AND FINISHES

A wide choice of colors and finishes as well as custom color matching are available upon request. See website for the most up to date information and to order samples. Colors are for illustration purposes only.

#### STANDARD PAINT COLORS



Natural  
7163



Cotton White  
0280



Atlantic Grey  
1117

#### CUSTOM COLORS



Premium Custom Colors

#### STANDARD METALLIC



Brushed Aluminum  
0004

### WHITE FINISH OPTIONS

Powder-coat paint finish for Arctic White #1015P (Gloss 10-20); Crystalline White #1050P (Gloss 45-55); Supernova White #1085P (Gloss 80-90). Aviation White #1011P: Powder-coat paint finish offering – LRV 90 – 9% gloss finish; Aviation White #1011C: Coil-coat paint finish offering – LRV 93 – 5% low gloss finish.



Arctic White  
1015P



Crystalline White  
1050P



Supernova White  
1085P



Aviation White  
1011P



Aviation White  
1011C

### BLACK FINISH OPTIONS

Powder-coat paint finish for Starless Black #5000P (Matte); Raven Black #5030P (Gloss 25-35); Sable Black #5060P (Gloss 65-75); Wet Glass Black #5095P (Gloss 90-95)



Starless Black  
5000P



Raven Black  
5030P



Sable Black  
5060P



Wet Glass Black  
5095P

### DECORATED (POWDER-COAT) WOOD-LOOK OPTIONS

Powder-coat paint finish (interior and exterior). Formaldehyde-free, Class A composite panel. This finish is recommended for exterior conditions.



Fonthill Cherry  
8422



Walnut  
8424



Amber Bamboo  
8432



Fine Wenge  
8433



Grey Barnwood Cedar  
8434



Golden Douglas Fir  
8436



American Oak  
8439



Crazy Cajun Cypress  
8442



Swamp Cypress  
8444



Clipper Teak  
8446



Windjammer Teak  
8449



Douglas Fir  
8452



Anigre  
8453



Farm Maple  
8458



Caravel Teak  
8460



Regatta Teak  
8461



Summer Maple  
8465



Terrace Maple  
8466



Light Pecan  
8475



Penshaw Cherry  
8481



Northwest Mountain  
Hemlock 8486



Whitewash  
8487



White Oak  
8491



Rustic Cherry  
8739



Cherry  
8742



Auxilium Maple  
8753



White Oakwood  
8758



Additional finishes available upon request. Please contact your local sales representative for more information.

### LAMINATED (FILM) WOOD FINISHES

Film (on interior, non-perforated panels only). Formaldehyde-free, Class A composite panel. Minimums apply.



American Natural  
8000



Russian Maple  
8003



Hayward Cherry  
8005



Caramel Bamboo  
8030



Northern Walnut  
8105



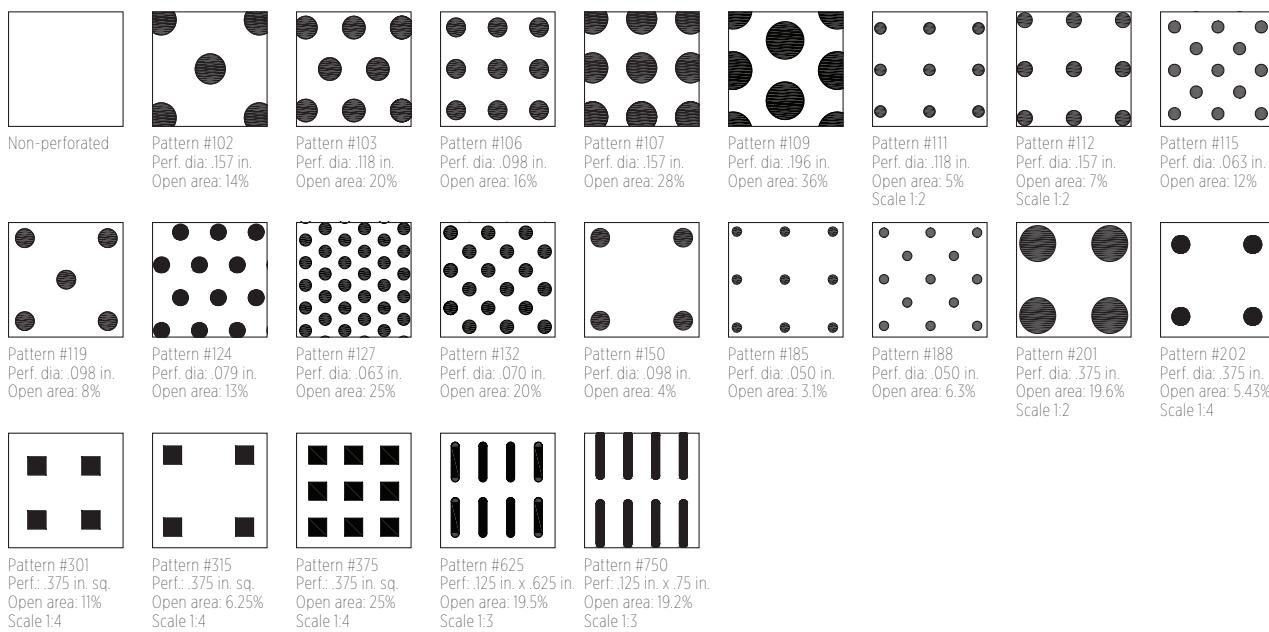
Chatham Oak  
8107



## TORSION SPRING – SEGMENTED

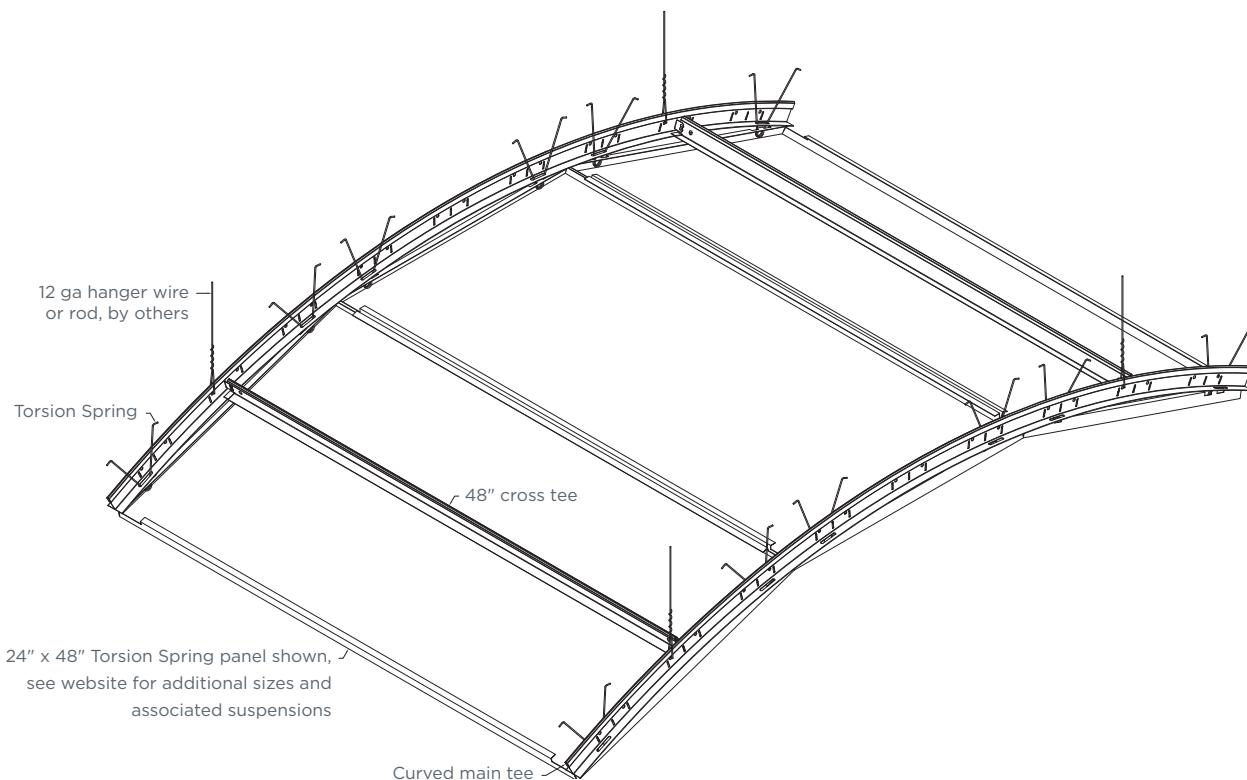
### PERFORATION PATTERNS

Standard patterns shown. Perforations not available on laminated (film). Scale shown: 1:1, unless otherwise noted.



### INSTALLATION EXAMPLES

#### Typical Isometrics



24" x 48" Torsion Spring panel shown,  
see website for additional sizes and  
associated suspensions



Additional options available for design flexibility,  
contact your local sales representative to get started.



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## PHYSICAL DATA

### MATERIAL

Aluminum

### WEIGHT

Varies 1.0 – 1.6 lbs./sq.ft.

### FIRE RATING

Class A Fire Rated per ASTM E84

- Painted or anodized metal: Flame spread: ≤ 25, Smoke ≤ 50
  - Film on metal: Flame spread: ≤ 25, Smoke ≤ 50  
(for interior only)
- Class A Fire Rated per CAN/ULC-S102
- Painted or anodized metal: Flame spread: ≤ 25, Smoke ≤ 50

### SEISMIC RATING

Zones A,B,C,D,E,F

### WIND LOAD

Per code (for exterior applications)

### RECYCLED CONTENT

Up to 85%

### LIGHT REFLECTANCE (LR) COEFFICIENT

#### PER ASTM E1264 & ASTM E1477

- Varies with finish
- Cotton White: LR = 0.81
- Aviation White #1011C: LR = 0.93

### WARRANTY

1-year Limited Warranty.

Full warranty information can be found at certainteed.com/warranty

## ACOUSTICAL PERFORMANCE

Sound absorption can be achieved by the addition of backing ceiling panels with acoustical fabric or pad.

PERFORATION PATTERN	% OPEN AREA	ACOUSTICAL INFILL	NRC
#103	20%	Non-Woven Acoustic Non-Woven Acoustic and 1" – 1.5 pcf Polywrapped Fiberglass	0.80 0.90
#106	16%	Non-Woven Acoustic Non-Woven Acoustic and 1" – 1.5 pcf Polywrapped Fiberglass	0.75 0.85
#115	12%	Non-Woven Acoustic Non-Woven Acoustic and 1" – 1.5 pcf Polywrapped Fiberglass 1.5" – 1.5 pcf Polywrapped Fiberglass	0.65 0.95 0.90
#119	8%	Non-Woven Acoustic Non-Woven Acoustic and 1" – 1.5 pcf Polywrapped Fiberglass	0.70 0.75
#127	25%	Non-Woven Acoustic Non-Woven Acoustic and 1" – 1.5 pcf Polywrapped Fiberglass	0.70 0.95
#132	20%	Non-Woven Acoustic Non-Woven Acoustic and 1" – 1.5 pcf Polywrapped Fiberglass	0.75 0.90
#185	3.1%	Non-Woven Acoustic Non-Woven Acoustic and 1" – 1.5 pcf Polywrapped Fiberglass	0.65 0.75
#188	6.3%	Non-Woven Acoustic Non-Woven Acoustic and 1" – 1.5 pcf Polywrapped Fiberglass	0.75 0.90
#201	19.6%	Non-Woven Acoustic Non-Woven Acoustic and 1" – 1.5 pcf Polywrapped Fiberglass	0.75 0.75

Acoustical tests performed in accordance with ASTM C423 and ASTM E795, in a type E400 mounting.  
Test reports available upon request.



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