

Minnesota Vikings – US Bank Stadium, Minneapolis, MN / Photo © Bob Perzel

Our Torsion Spring metal ceiling system allows both flat and curved ceiling panels to swing down from the ceiling plane.

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
- Swing-down feature allows point-access and 100% access to plenum
- 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
PRODUCT CERTIFIED FOR
LOW ENVIRONMENTAL
EMISSIONS
UL.COM/GG
UL 2818
GOLD



CERTIFIED
ENVIRONMENTAL
PRODUCT DECLARATION
UL.COM/EPD

GREENGUARD:
GOLD CERTIFIED

EPD AVAILABLE



TORSION SPRING

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.



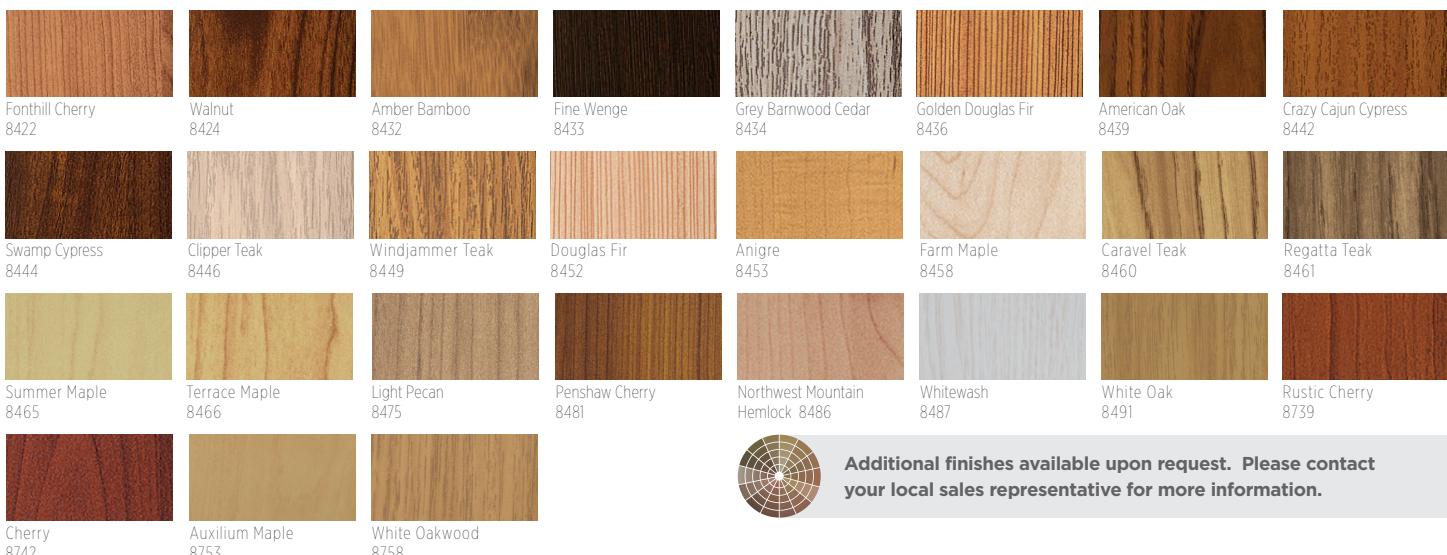
BLACK FINISH OPTIONS

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)



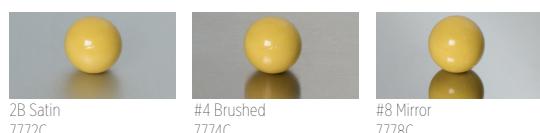
DECORATED (POWDER-COAT) WOOD-LOOK OPTIONS

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



STAINLESS STEEL OPTIONS

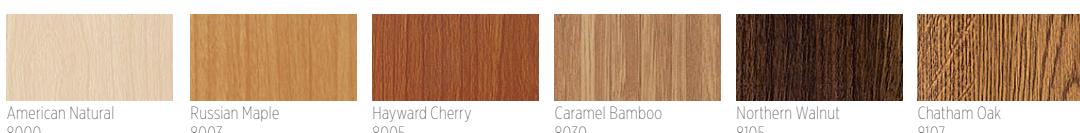
Substrate: stainless steel.
Object shows reflectivity of finish.



 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.

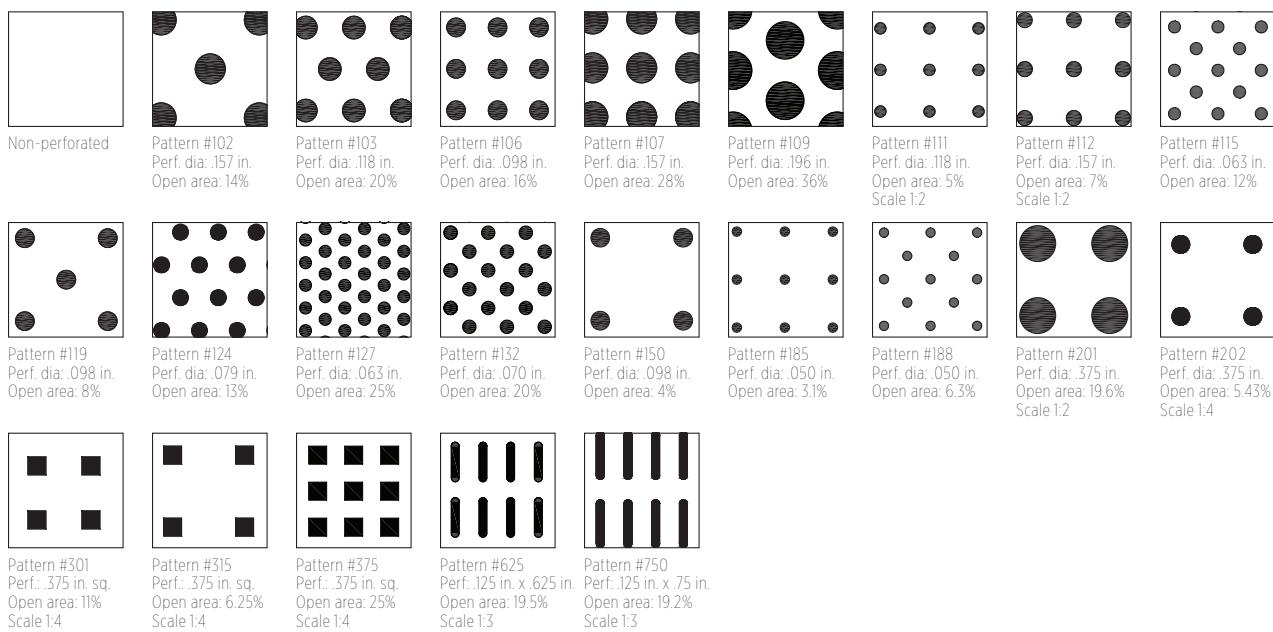




TORSION SPRING

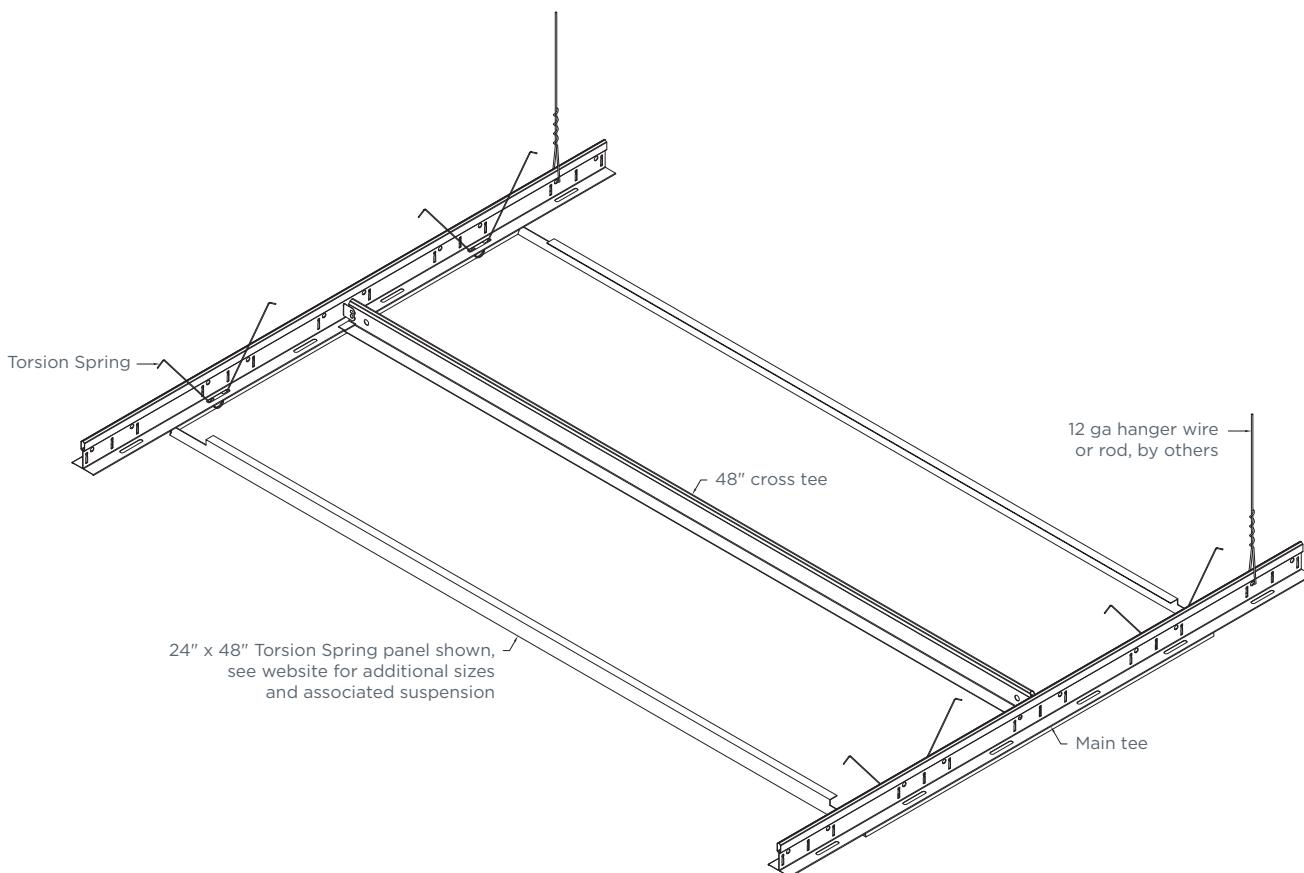
PERFORATION PATTERNS

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 suspension



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



McCamish Pavilion at Georgia Tech, Atlanta, GA / Photo © Bob Perzel

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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