



ADPRO Sports Training Facility, Orchard Park, NY / Photo © Bob Perzel

Torsion Spring - Geometries use geometrical panel shapes to create drama in the ceiling plane with a system that allows panels to swing down for plenum access.

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
- Geometrically shaped panels
- Waste reduction with factory fabricated dimensional material
- Downweight: reduce dead load with light-weight aluminum
- Easy installation - no fasteners/tools required
- 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**



EPD AVAILABLE

TORSION SPRING - GEOMETRIES

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



CUSTOM COLORS



STANDARD METALLIC



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.



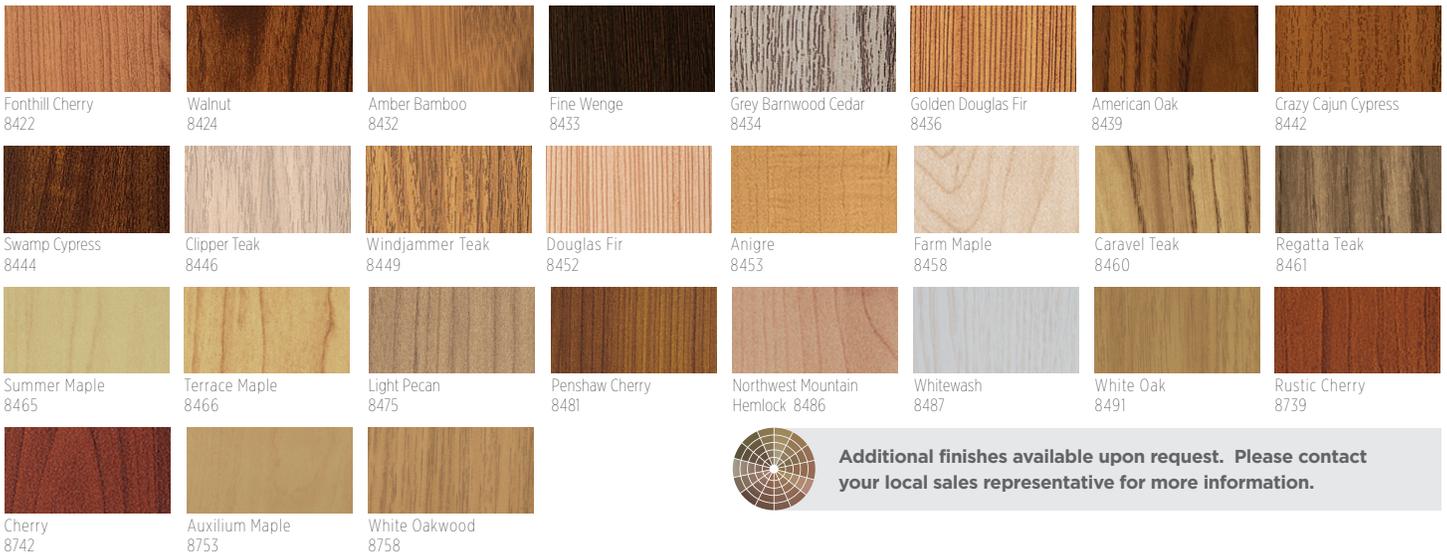
BLACK FINISH OPTIONS

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.



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

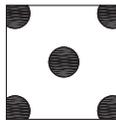
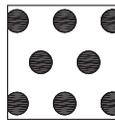
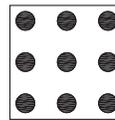
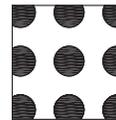
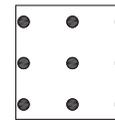
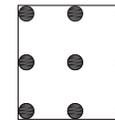
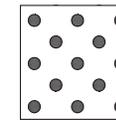
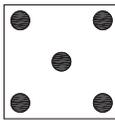
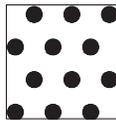
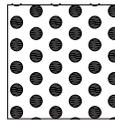
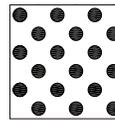
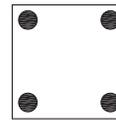
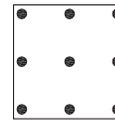
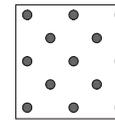
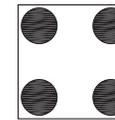
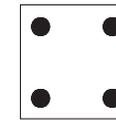
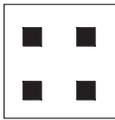
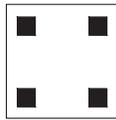
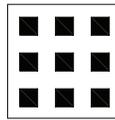
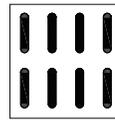
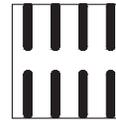
LAMINATED (FILM) WOOD FINISHES

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



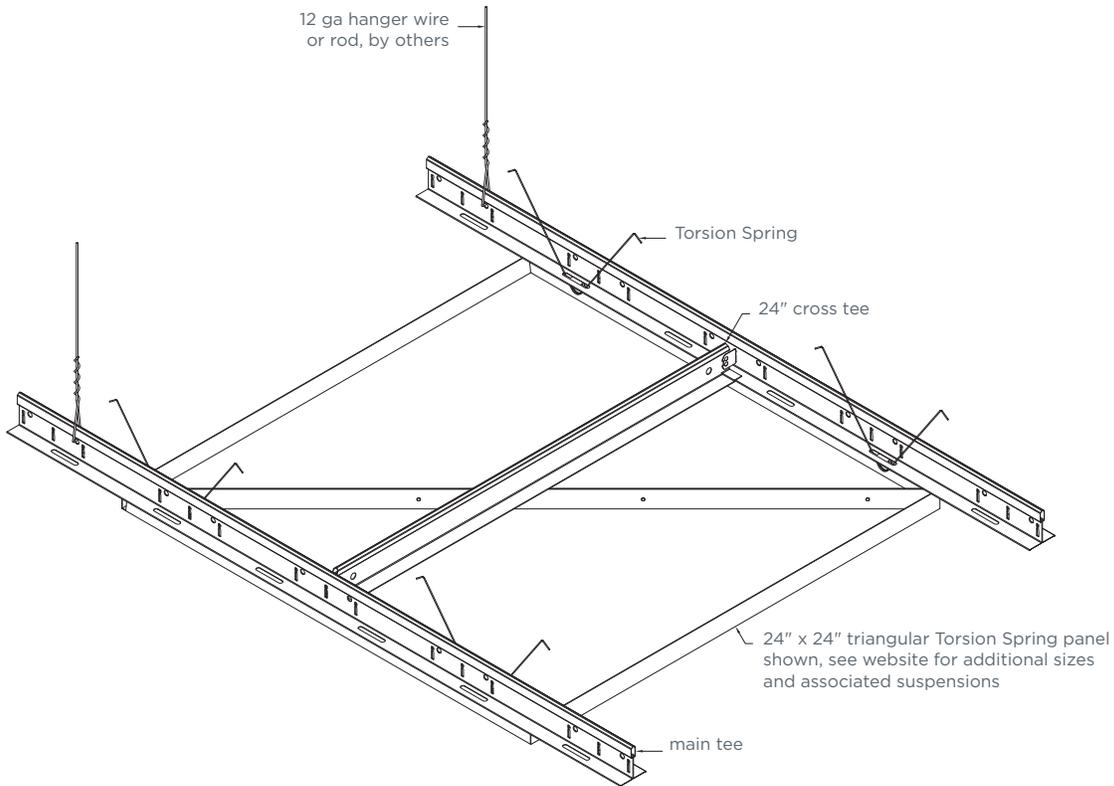
PERFORATION PATTERNS

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

								
Non-perforated	Pattern #102 Perf. dia.: .157 in. Open area: 14%	Pattern #103 Perf. dia.: .118 in. Open area: 20%	Pattern #106 Perf. dia.: .098 in. Open area: 16%	Pattern #107 Perf. dia.: .157 in. Open area: 28%	Pattern #109 Perf. dia.: .196 in. Open area: 36%	Pattern #111 Perf. dia.: .118 in. Open area: 5% Scale 1:2	Pattern #112 Perf. dia.: .157 in. Open area: 7% Scale 1:2	Pattern #115 Perf. dia.: .063 in. Open area: 12%
								
Pattern #119 Perf. dia.: .098 in. Open area: 8%	Pattern #124 Perf. dia.: .079 in. Open area: 13%	Pattern #127 Perf. dia.: .063 in. Open area: 25%	Pattern #132 Perf. dia.: .070 in. Open area: 20%	Pattern #150 Perf. dia.: .098 in. Open area: 4%	Pattern #185 Perf. dia.: .050 in. Open area: 3.1%	Pattern #188 Perf. dia.: .050 in. Open area: 6.3%	Pattern #201 Perf. dia.: .375 in. Open area: 19.6% Scale 1:2	Pattern #202 Perf. dia.: .375 in. Open area: 5.43% Scale 1:4
								
Pattern #301 Perf.: .375 in. sq. Open area: 11% Scale 1:4	Pattern #315 Perf.: .375 in. sq. Open area: 6.25% Scale 1:4	Pattern #375 Perf.: .375 in. sq. Open area: 25% Scale 1:4	Pattern #625 Perf.: .125 in. x .625 in. Open area: 19.5% Scale 1:3	Pattern #750 Perf.: .125 in. x .75 in. Open area: 19.2% Scale 1:3				

INSTALLATION EXAMPLES

Typical Isometrics



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



ADPRO Sports Training Facility, Orchard Park, NY / 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

N/A

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