

CELEBRETTO® TORSION SPRING

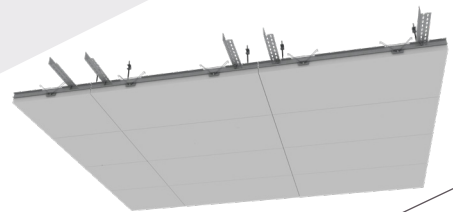


VISIT USGME.COM TO ORDER SAMPLES

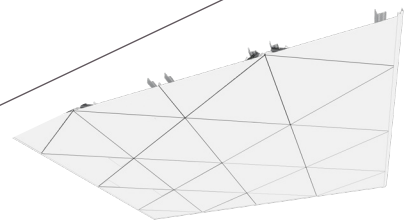


Refer to Colors, Finishes
and Perforation
Patterns Section

RECTANGULAR



TRIANGULAR



FEATURES AND BENEFITS

- Featuring a concealed suspension ceiling system with a variety of configurations that can fit any contemporary interior design.
- All panels are demountable allowing easy access to plenum for easy maintenance.
- Configurable panel sizes and layouts, allowing the designers flexibility in their design.
- Available in two standard designs: triangular and rectangular.

APPLICATIONS

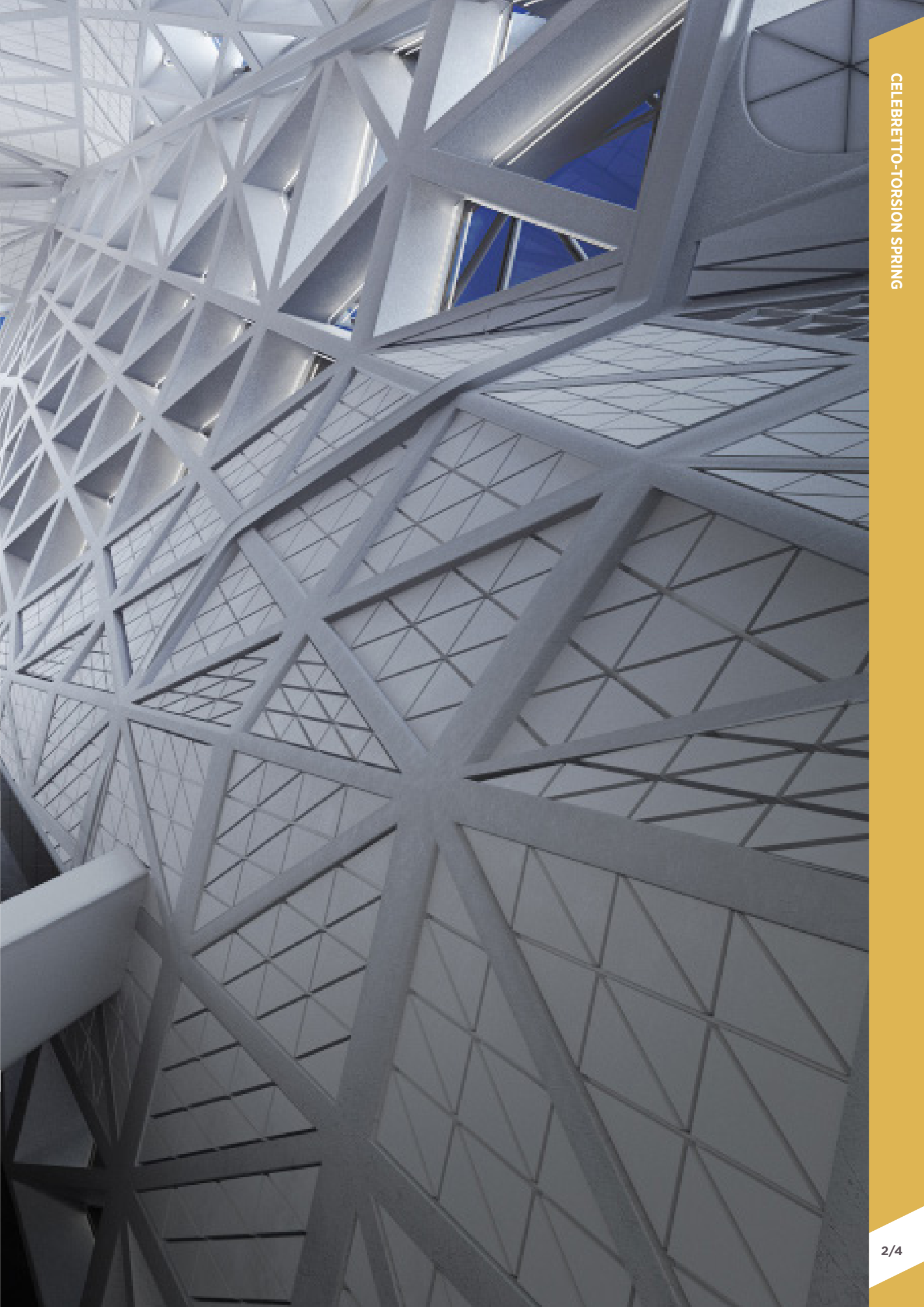
- Airports
- Train stations
- Commercial spaces
- Offices
- Lounges
- Open halls
- Restaurants

| | Frequency, Hz | 125 | 250 | 500 | 1000 | 2000 | 4000 | NRC* |
|------------------|-----------------------------------|------|-------------|-------------|-------------|-------------|------|-------------|
| Sound Absorption | A1 Pattern** with Acoustic Fleece | 0.70 | 0.95 | 0.75 | 0.75 | 0.80 | 0.80 | 0.75 |
| | A1 Pattern** with Infill*** | 0.70 | 0.90 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |

* Calculated to ASTM C 423-01

** A1 Pattern: Diagonal Pattern. Hole Size Dia: 1.8mm, Open Area: 20%

*** Infill: Acoustic Fleece and 30mm Soft Fiber with Aluminium Foil



TORSION SPRING



HIGH SOUND ABSORPTION



CEILING ATTENUATION CLASS

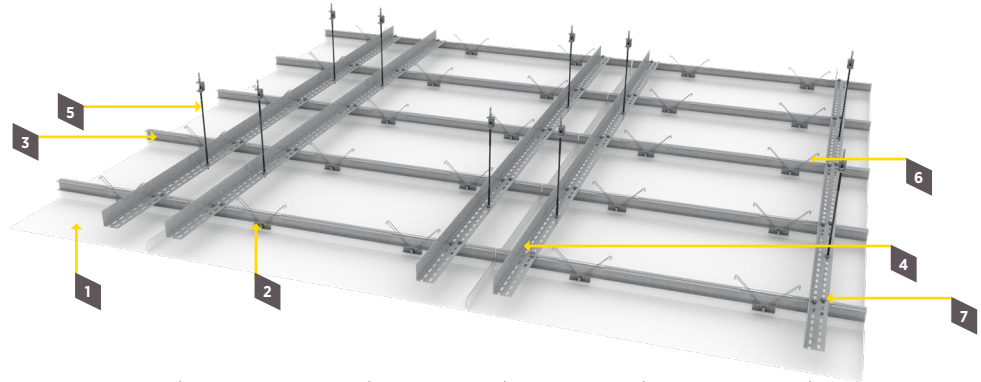


HEALTHCARE APPLICATION

TORSION SPRING SYSTEM COMPONENTS

| Torsion Spring Panel Option Design | Primary Channel Slotted | Torsion Spring Bracket |
|------------------------------------|-------------------------|------------------------|
| | | |
| Torsion Spring Channel | Hanging System | Torsion Spring Wire |
| | | |

SYSTEM DRAWINGS



1 Torsion panel 2 Torsion Spring Bracket 3 Torsion Spring Channel 4 Hanging Profile 5 Hanging system 6 Torsion Spring Wire 7 Hex & Nut

SYSTEM SPECIFICATION

Material Classification

Galvanized Steel: Type V
 Aluminium: Type VII
 Stainless Steel: Type VI
 Pattern: A, C, G

Thickness

Powder coat finish: 0.6mm – 1.4mm
 Wooden finish: 0.6mm

Panel Height

40mm to 70mm

Rectangular Panel Width

200mm to 600mm

Rectangular Panel Length

Up to 2400mm

Triangular Panel

Up to 1200mm

Color

Standard colors are RAL 9005, RAL 9006, RAL 9016.
 Other RAL colors are available upon request.

Light Reflectance Coefficient [LR]

Based on the finish color and perforation pattern, LR up to 0.82

Surface Burning Characteristics per ASTM E 84

Class A

Additional Information

- Thickness depends on panel sizes and project requirements
- Consult factory for other panel sizes

ITEM CODIFICATION

ATSPA1-TR-1100100010R10



TORSION SPRING



HIGH SOUND ABSORPTION



CEILING ATTENUATION CLASS



HEALTHCARE APPLICATION

TORSION SPRING METAL CEILING ACOUSTICAL PERFORMANCE

USG Middle East supplies metal ceiling panels with a range of acoustical performance to meet the needs of all kinds of projects. A variety of sound-absorbing backing options are available with performance up to 1.0 NRC and 34dB CAC. Consult with the USG Middle East technical team for further guidance.

| PATTERN | OPEN AREA% | CELEBRETTO® METAL CEILING INFILL OPTIONS | CAC | NRC |
|---------|------------|---|-----|------|
| A1 | 20% | Acoustic fleece | - | 0.75 |
| A1 | 20% | 19mm Soft Fiber infill | - | 0.90 |
| A1 | 20% | 15mm Mineral Fiber infill | 32 | - |
| A1 | 20% | Acoustic fleece with 30mm Stone Wool & 19mm Mineral Fiber infill | 32 | 0.90 |
| A1 | 20% | Acoustic fleece with 25mm Glass Wool & 12mm Gypsum infill | 30 | 0.85 |
| A1 | 20% | Acoustic fleece with 30mm Stone Wool & Aluminum Foil | 34 | 1.00 |
| B2 | 16% | Acoustic fleece | - | 0.60 |
| 15D | 22% | Acoustic fleece | - | 0.60 |
| 15D | 22% | Acoustic fleece with 30mm Stone Wool & Aluminum Foil | 30 | 0.80 |
| 15E | 11% | Acoustic fleece | - | 0.65 |
| 15E | 11% | Celebretto Metal Ceiling with acoustic fleece and 30mm Stone Wool & Aluminum Foil | 27 | 0.80 |
| 7E | 1% | Celebretto Metal Ceiling with acoustic fleece | - | 0.65 |
| 7E | 1% | Celebretto Metal Ceiling with acoustic fleece and 30mm Stone Wool & Aluminum Foil | 26 | 0.90 |

- A1 Pattern: Diagonal Pattern, Hole Size Dia 1.8mm
- B2 Pattern: Even Pattern, Hole Size Dia 2.5mm
- 15D Pattern: Diagonal Pattern, Hole Size Dia 1.5mm

- 15E Pattern: Even Pattern, Hole Size Dia 1.5mm
- 7E Pattern: Even Pattern, Hole Size Dia 0.75mm

INFILL OPTIONS*

| Plain | Acoustic Fleece | Acoustic Fleece and Soft Fiber | Acoustic Fleece and Mineral Fiber |
|--|--|---|--|
|  |  |  |  |

* Additional backer options available for NRC and CAC enhanced total acoustical performance

Notice:

As we are involved in constant products development; this document information is subject to change without prior notice. Please always refer to usgme.com for the updated products information document.

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