# USG CELEBRATION™ TORSION SPRING CEILING SYSTEM

## SYSTEM GUIDE

USG ◢ CGC

IT'S YOUR WORLD. BUILD IT.®

# USG CELEBRATION™ TORSION SPRING

## CEILING SYSTEM

**FOR MORE INFORMATION**

**Technical Service**
800 USG.4YOU (874-4968)

**Web Site**
usg.com or cgcinc.com

# SYSTEM OVERVIEW

**USG CELEBRATION™ TORSION SPRING CEILING SYSTEM**

USG Celebration™ Torsion Spring System allows you to create a monolithic ceiling design that is both easy to install and easy to maintain. As part of the Celebration family of downward accessible ceiling systems, you would be able to choose from a wide variety of finishes and perforation patterns. Available in wall-to-wall or cloud designs, the USG Celebration Torsion Spring System is engineered to use multiple panel sizes together to further expand your creative design.

**FEATURES AND BENEFITS**

- Aluminum panels provide a monolithic appearance
- Full 90 degree swing-down motion provides easy downward access to plenum areas
- Spring clip design provides superior alignment
- No reveal
- Wind load tested and approved for exterior applications with proper bracing and exterior framing

**SIZES**

24″ x 24″, 24″ x 48″, 24″ x 72″, 24″ x 96″, 48″ x 48″

**MATERIALS**

Aluminum

**SUSPENSION SYSTEM**

Standard USG Donn® Brand DX® main tees are used in conjunction with slotted cross tees. The slotted cross tees are available in 2′, 4′ and 6′ lengths with the 6′ cross tees specifically designed for use with the 24″ x 72″ panels. USG Donn® Brand ZXLA™ main tees used with slotted ZXA™ cross tees are recommended for exterior applications.

**PERIMETER DETAILS**

USG Compässo® Standard trim may be used with the USG Celebration Torsion Spring ceiling system for a finished appearance at exposed edges. Please refer to USG Compässo® Standard/Elite (IC309) datasheet for additional information.
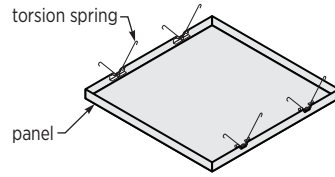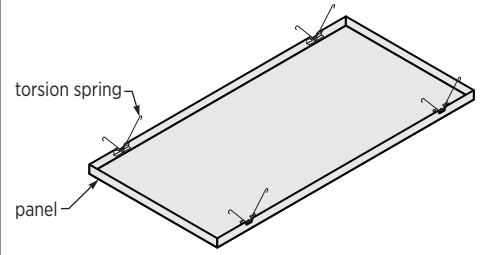
**ACOUSTICAL PERFORMANCE**

Perforated panels with an Acoustibond sound backer achieve a range of 0.35-0.75 NRC, dependent on the perforation pattern, when installed in an enclosed plenum. Available fiberglass filled polybags provide even greater acoustical performance.
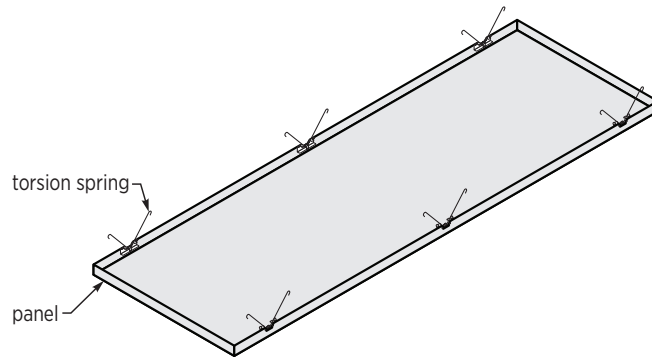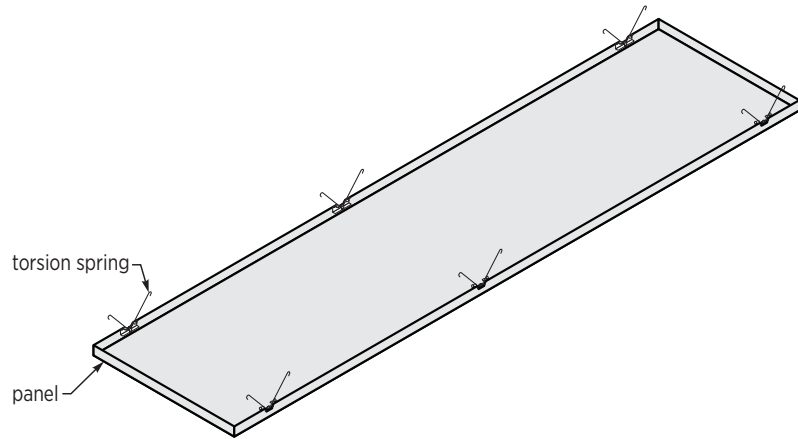
**PANEL SIZES**

**24" x 24"**

torsion spring
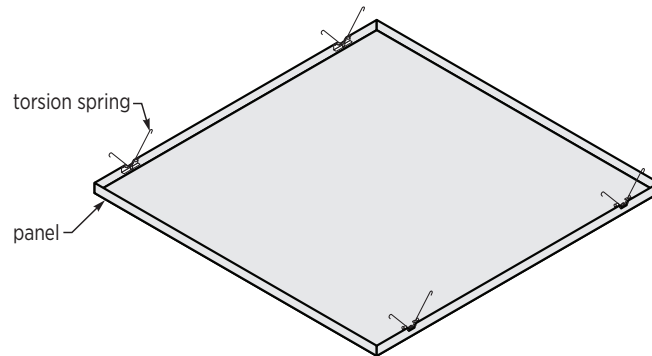
panel

**24" x 48"**

torsion spring

panel

**24" x 72"**

torsion spring

panel

**24" x 96"**

torsion spring

panel

**48" x 48"**

torsion spring

panel

# DETAILS

**Torsion Spring with spring clip**



torsion spring

slotted tee for
spring insertion

slotted cross tee

USG Celebration™
Torsion Spring panel

panel spring clip
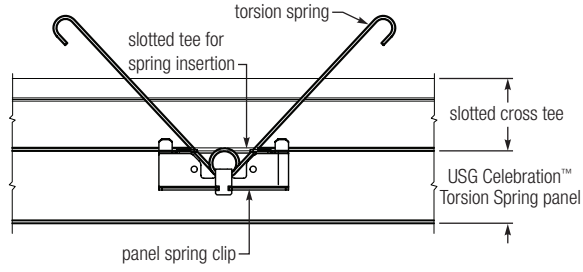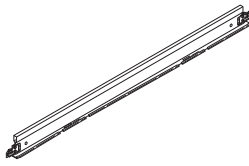
**2' Cross Tee**



**4' Cross Tee**
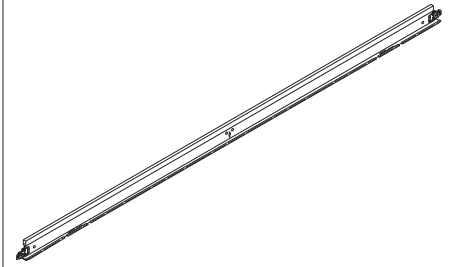


**6' Cross Tee**
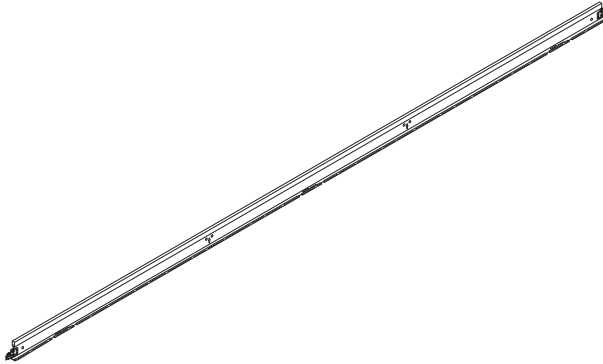


**TS Trim Clip**



**USG Compässo® Standard**



4
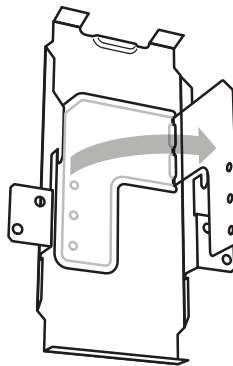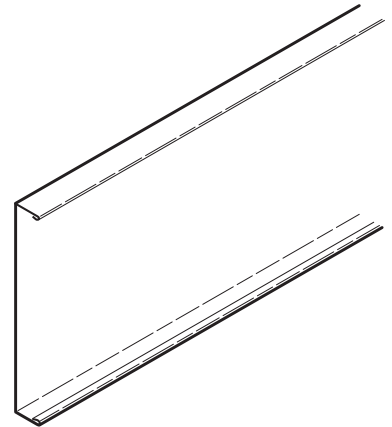
# DETAILS

**M7 Wall Angle**
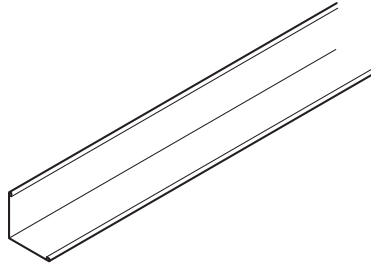
**F-Mold**
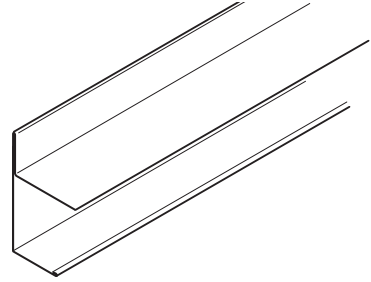
**T-15 Hold Down Clip with Double M7**

**T-15 Hold Down Clip with F-Mold**

hanger wire

2' cross tee

4' slotted cross tee

main tees 4'-0" OC

USG Celebration™ Torsion Spring panel

torsion spring
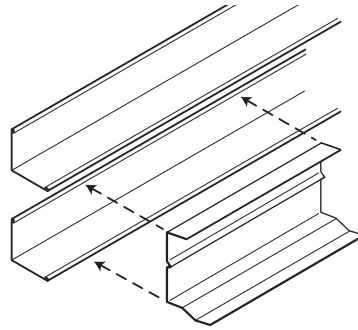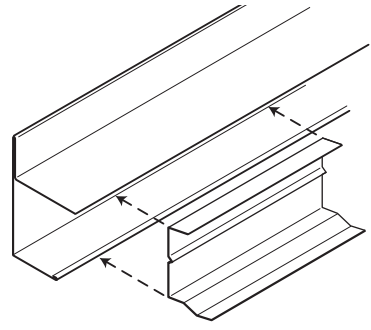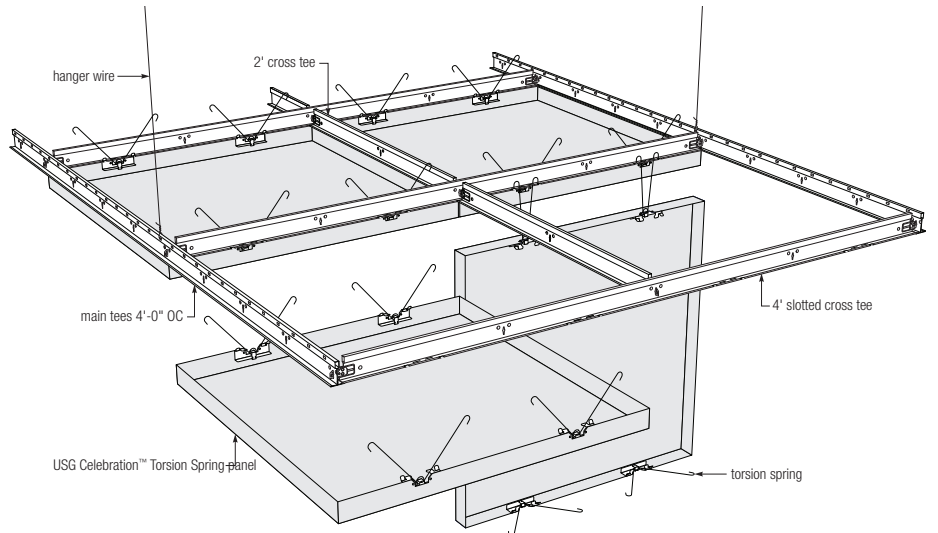
# FINISHES

### PAINTED METALS
Metallic finishes shown[2]

| Flat White (050) | Silver Satin (002) | Metallic Oyster (1652) | Blanco Mat (4182) |
|---|---|---|---|
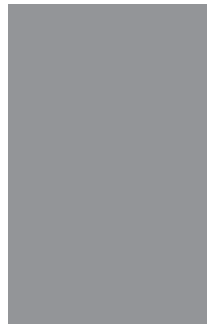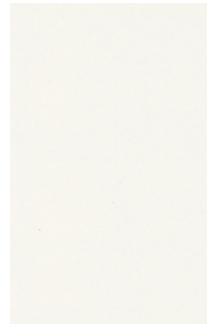
### ANODIZED METALS[1]
USG Paraline® only;
PII—Black Reveal not available with these finishes

| Brushed Aluminum (PIA12) | Polished Brass (PM21) | Polished Chrome (PM61) | Satin Chrome (PM614) |
|---|---|---|---|

### WOOD TONES[3]
USG Celebration™ and Panz®, 1'x4', 1'x5', 20"x60", 2'x2' and 2'x4' panels. Coordinating suspension and/or trim color available.

| Beech (3810) | Dark Bamboo (3808) | Dark Cherry (3811) | Light Bamboo (3809) |
|---|---|---|---|

| Light Cherry (3812) | Maple (3813) | Red Oak (3814) | Walnut (3815) |
|---|---|---|---|

# METAL PERFORATIONS

**Please call 866 528-7089 to request a sample.**

**STANDARD PERFORATIONS[1]**

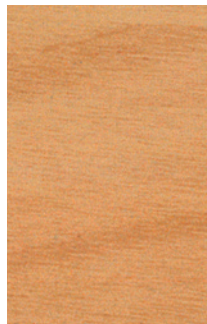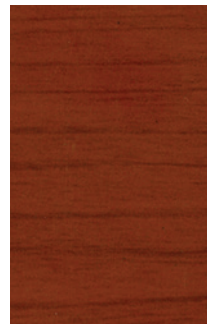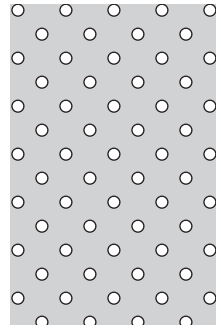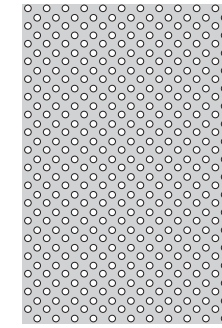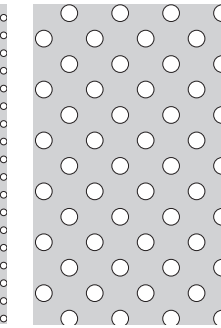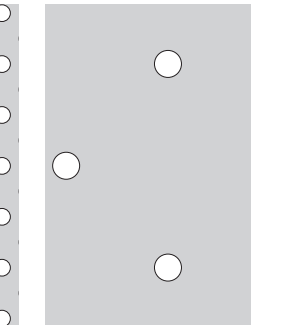| Pattern Number | Perforation Pattern | Open Area %[5] |
|---|---|---|
| CD06305NB | Round 1/16" Perforations, 0.25" o.c. (without border) | 5% |
| CD06305 | Round 1/16" Perforations, 0.25" o.c. | 5% |
| CD06319 | Round .062" Perforations, 0.124" o.c. | 19% |
| CD11717 | Round 15/128" Perforations, 0.354" o.c. | 17% |
| CD18803 | Round 3/16" Perforations, 1" o.c. | 3% |
| CD25039 | Round 1/4" Perforations, 0.5" o.c. | 39% |
| CD50055 | Round 1/2" Perforations, 0.848" o.c. | 55% |
| CE07906 | Round 5/64" Perforations, 0.312" o.c. | 6% |
| CE12510 | Round 1/8" Perforations, 0.375" o.c. | 10% |
| CE18833 | Round 3/16" Perforations, 0.312" o.c. | 33% |
| CE25030 | Round 13/64" Perforations, 0.316" o.c. | 35% |
| B250 | Round 1/4" Perforations, 0.437" o.c. | 30% |
| CE25058 | Round 1/4" Perforations, 0.32" o.c. | 58% |
| CE31246 | Round 5/16" Perforations, 0.437" o.c. | 46% |
| CE50063 | Round 1/2" Perforations, 0.600" o.c. | 63% |
| CS03002 | Round 1/32" Perforations, 0.197" o.c. | 1.8% |
| CS06302 | Round 1/16" Perforations, 0.351" o.c. | 2% |
| CD06305 | Round 1/16" Perforations, 0.175" o.c. | 10% |
| CS11708 | Round 15/128" Perforations, 0.344" o.c. | 8% |
| CS18801 | Round 3/16" Perforations, 1.414" o.c. | 1% |
| CS25012 | Round 1/4" Perforations, 0.65" o.c. | 12% |
| CS37509 | Round 3/8" Perforations, 1.125" o.c. | 9% |
| CS50009 | Round 1/2" Perforations, 1.5" o.c. | 9% |
| SS25011 | Square 1/4" Perforations, 0.75" o.c. | 11% |
| SS37511 | Square 3/8" Perforations, 1.125" o.c. | 11% |
| SS50011 | Square 1/2" Perforations, 1.5" o.c. | 17% |
| SS50070 | Square 1/2" Perforations, 0.595" o.c. | 70% |
| EC25D[3] | Round 1/4" dia. x 1/16" Embossing, 1.18" o.c.; No Perforation | 0% |
| EC25U[3] | Round 1/4" dia. x 1/16" Embossing, 1.18" o.c.; No Perforation | 0% |
| EM25D[3] | Round 1/4" dia. x 1/16" Embossing, 1/4" Perforations, 1.14" o.c. | 2% |
| EM25U[3] | Round 1/4" dia. x 1/16" Embossing, 1/4" Perforations, 1.14" o.c. | 2% |
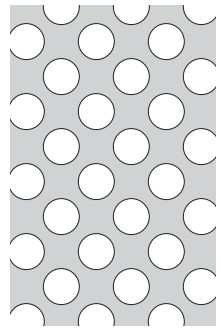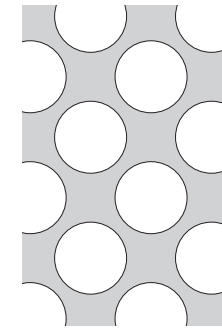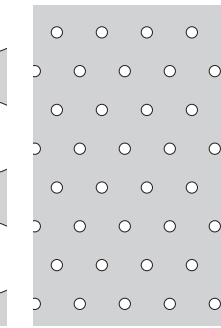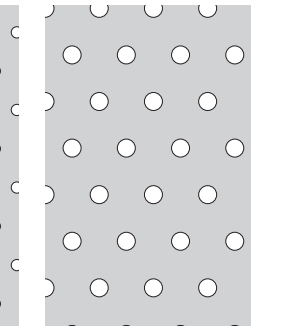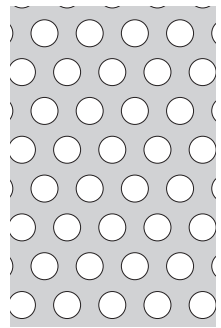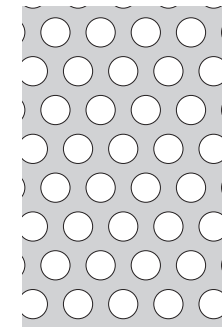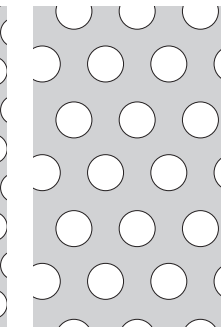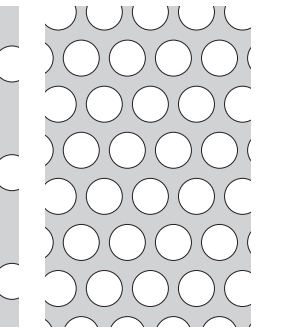
**Notes**
1. Refer to IC425 USG Perforations Selection Guide for more information.
2. Also standard for USG Geometrix panels.
3. 2'x2' USG Celebration™ and Panz® panels only.
4. Perforation patterns shown at 75% of actual size. When ordering, please refer to the pattern number for perforation samples (for example, "A062"). (All samples are 6"x6".)
5. Panels with an open area ≥ 50% offered in 2'x2' only.
6. 2' wide USG Celebration™ Snap-In, Celebration Torsion Spring, Panz® and Curvatura™ panels up to 6' long only.
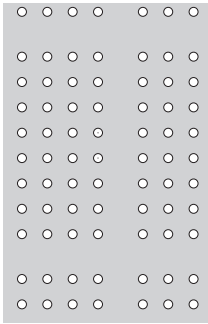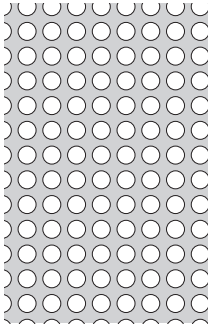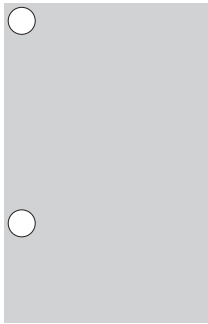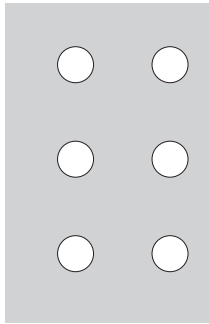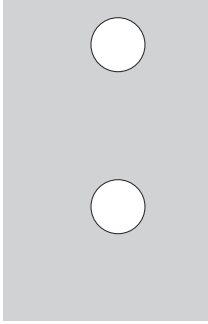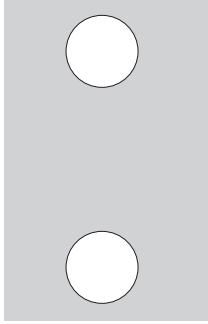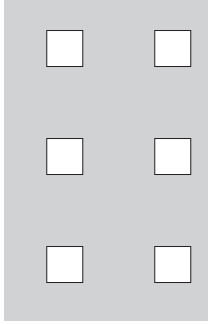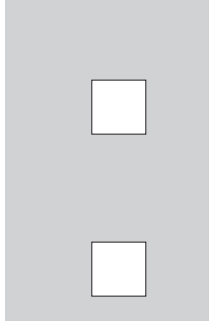
## METAL PERFORATIONS

**Pattern No. CD06305**

Round—1/16" perforations
0.25" o.c., 5% open area

**Pattern No. CD06319**

Round—0.062" perforations
0.124" o.c., 19% open area
Micro perf.

**Pattern No. CD11717**

Round—15/128" perforations
0.354" o.c., 17% open area

**Pattern No. CD18803**

Round—3/16" perforations
1" o.c., 3% open area

**Pattern No. CD25039**

Round—1/4" perforations
0.5" o.c., 39% open area

**Pattern No. CD50055**

Round—1/2" perforations
0.848" o.c., 55% open area
not to be used with the USG
Curvatura™ One-Directional
Ceiling System

**Pattern No. CE07906**

Round—5/64" perforations
0.312" o.c., 6% open area

**Pattern No. CE12510**

Round—1/8" perforations
0.375" o.c., 10% open area

**Pattern No. CE18833**

Round—3/16" perforations
0.312" o.c., 33% open area

**Pattern No. CE19735**

Round—13/64" perforations
0.316" o.c., 35% open area

**Pattern No. CE25030**

Round—1/4" perforations
0.437" o.c., 30% open area

**Pattern No. CE25058**

Round—1/4" perforations
0.32" o.c., 58% open area

# METAL PERFORATIONS

**Pattern No. CE31246**

Round—5/16" perforations 0.437" o.c., 46% open area

**Pattern No. CE50063**

Round—1/2" perforations 0.600" o.c., 63% open area not to be used with the USG Curvatura™ One-Directional Ceiling System

**Pattern No. CS03002**

Round—1/32" perforations 0.197" o.c., 1.8% open area

**Pattern No. CE50063**

Round—1/16" perforations 0.351" o.c., 2% open area

**Pattern No. CS06302**

Round—1/16" perforations 0.175" o.c., 10% open area

**Pattern No. CS11708**

Round—15/128" perforations 0.344" o.c., 8% open area

**Pattern No. CS18801**

Round—3/16" perforations 1.414" o.c., 1% open area

**Pattern No. CS25012**

Round—1/4" perforations 0.65" o.c., 12% open area

**Pattern No. CS37509**

Round—3/8" perforations 1.125" o.c., 9% open area

**Pattern No. CS50009**

Round—1/2" perforations 1.5" o.c., 9% open area

**Pattern No. SS25011**

Square—1/4" perforations 0.75" o.c., 11% open area

**Pattern No. SS37511**

Square—3/8" perforations 1.125" o.c., 11% open area

**Notes**
1. Do not use with USG Curvatura™ One-Directional Ceiling System.
2. Standard for USG Geometrix® panels.
3. 2'x2' USG Celebration™ and Panz® panels only.
4. USG Perforation patterns shown at 75% of actual size. When ordering, please refer to the pattern number for perforation samples (for example, "A062"). (All samples are 6"x6".)
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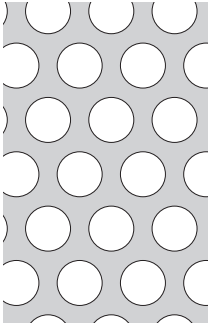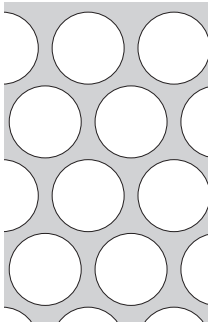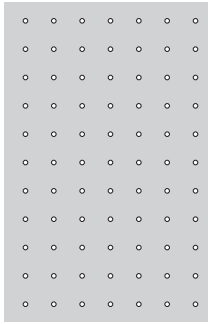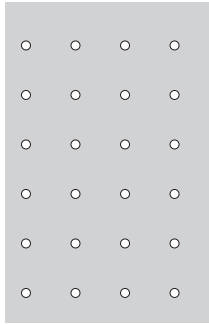
# METAL PERFORATIONS

**Pattern No. SS50011**
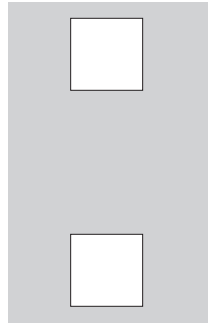
**Pattern No. CE31246**

Square—1/2″ perforations
1.5″ o.c., 17% open area
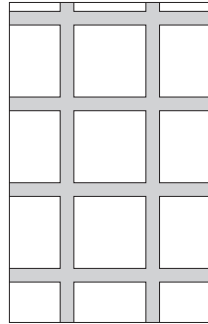
Square—1/2″ perforations
0.595″ o.c., 70% open area
(70% open area required for
sprinklers above ceiling)

**EMBOSSING ONLY[4]**

**Pattern No. EM25D**

**Pattern No. EM25U**

Round—1/4″ dia. x 1/16″
embossing 1.18″ o.c., no
perforation
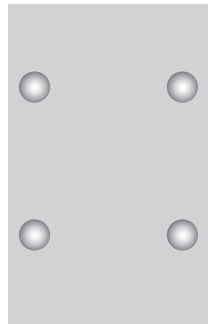
Round—1/4″ dia. x 1/16″
embossing 1.18″ o.c., no
perforation

Face side

Face side

**EMBOSSING AND PERFORATIONS[4]**

**Pattern No. EC25D**
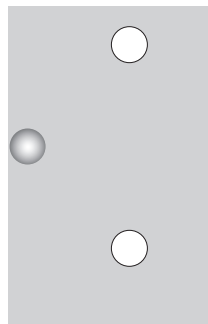
**Pattern No. EC25U**

Round—1/4″ perforations
1.41″ o.c., 2% open area
Black Acoustibond™ backer
standard
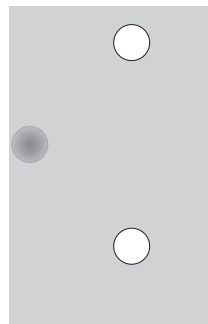
Round—1/4″ perforation
1.41″ o.c., 2% open area
Acoustibond™ backer not
available

Face side

Face side

## GRID LAYOUT

**Legend:**
- main tee
- notched 4' cross tee
- 2' cross tee
- wall molding
- hanger wire

**Notes**
1. Reference USG publication *Celebration Torsion Spring Installation Guide* (IC637) for more information.
2. For exterior applications, contact your local USG representative for more information.

## GRID LAYOUT

hanger wire

hanger wire

notched 4' cross tee

notched 4' cross tee

notched 4' cross tee

notched 4' cross tee

main tee

main tee

notched 4' cross tee

notched 4' cross tee

notched 4' cross tee

notched 4' cross tee

2'-0" typ.

4'-0" typ.

—— main tee

––––– notched 4' cross tee

—— wall molding

⊗ hanger wire

**Notes**
1. Reference USG publication *Celebration Torsion Spring Installation Guide* (IC637) for more information.
2. For exterior applications, contact your local USG representative for more information.

## GRID LAYOUT

**2' X 6' LAYOUT TYPICAL GRID FRAMING PLAN**
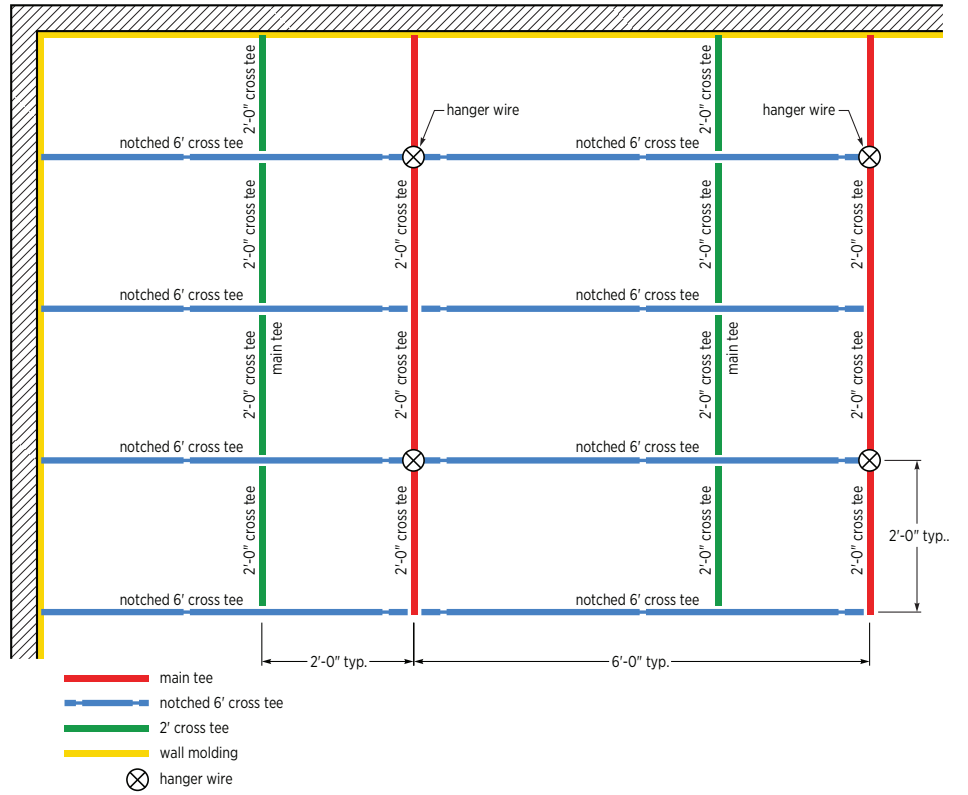


main tee
notched 6' cross tee
2' cross tee
wall molding
hanger wire

**Notes**
1. Reference USG publication *Celebration Torsion Spring Installation Guide* (IC637) for more information.
2. For exterior applications, contact your local USG representative for more information.

**CUT PANEL PERIMETER WALL INTERFACE (WITH M7 WALL MOLDINGS)**

12 ga hanger wire

6″ max.

torsion spring

M7 wall molding

pop rivet

cross tee

main tee

fasten to wall framing

T-15 hold-down clip

M7 wall molding

acoustical backer (optional)

USG Celebration™ Torsion Spring panel

12 ga hanger wire

pop rivet

torsion spring

M7 wall molding

main tee

cross tee

fasten to wall framing

T-15 hold-down clip

M7 wall molding

acoustical backer (optional)

USG Celebration™ Torsion Spring panel

**CUT PANEL PERIMETER WALL INTERFACE (WITH F-MOLD)**

12 ga hanger wire

6″ max.

torsion spring

F-Mold

pop rivet

cross tee

main tee

fasten to wall framing

T-15 hold down clip

acoustical backer (optional)

Celebration™ Torsion Spring panel

12 ga hanger wire

pop rivet

main tee

cross tee

torsion spring

F-Mold

fasten to wall framing

T-15 hold down clip

acoustical backer (optional)

Celebration™ Torsion Spring panel

**FULL PANEL AT PERIMETER TRIM**

12 ga hanger wire →

CTS USG Compässo® attachment clip

main tee

cross tee

6″ or 8″

acoustical backer (optional)

USG Celebration™ Torsion Spring panel

USG Compässo® standard trim

12 ga hanger wire →

CTS USG Compässo® attachment clip

main tee

cross tee

6″ or 8″

torsion spring clips

acoustical backer (optional)

USG Celebration™ Torsion Spring panel

USG Compässo® standard trim
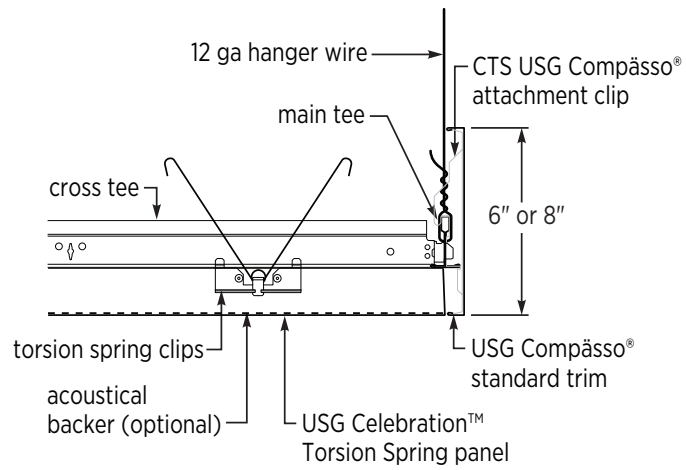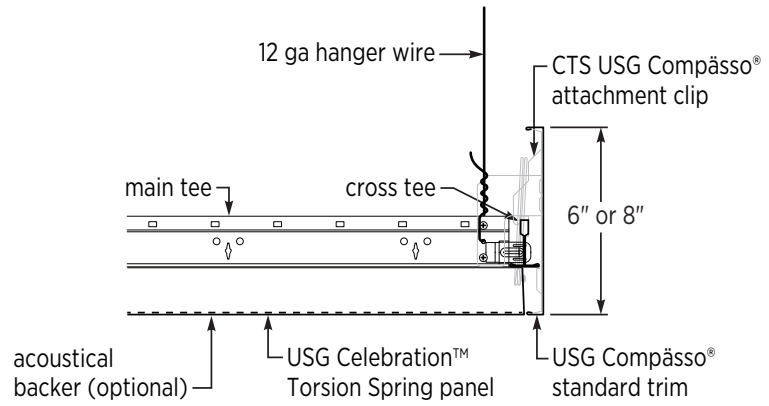
## DETAILS

**PANEL AT LIGHT FIXTURE**

support structure
above by others

Attach stabilizer bars to grid. Load of
fixture and housing to be supported
from structure above, typical.

cross tee

main tee

USG Celebration™
Torsion Spring panel

Do not overtighten Luminaire
rim clips. Avoid contact with
Torsion Spring panels, typical.
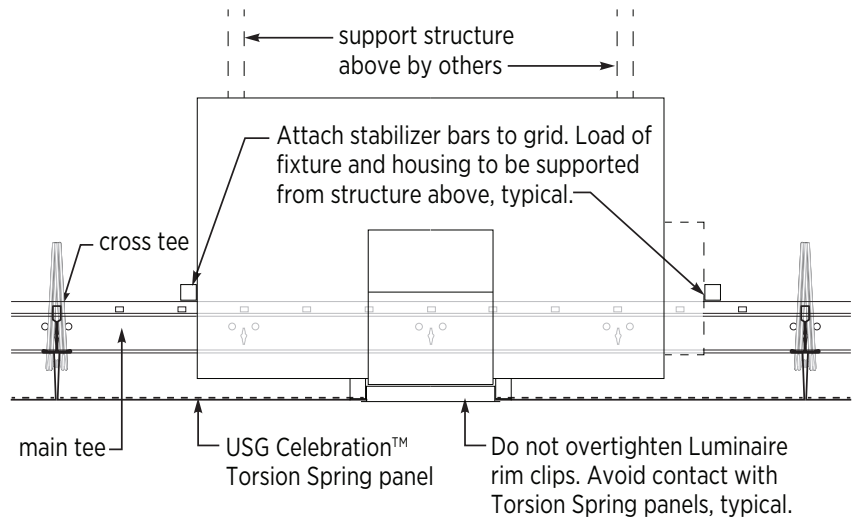
**PANEL AT SPRINKLER**

swing-arm assembly is
recommended to allow
centering in torsion spring
panels (support to structure
above), by others

12 ga hanger wire

main tee

cross tee

sprinkler escutcheon and
field cut by others, typical

Celebration™ Torsion
Spring panel

**FULL PANEL AT
CROSS TEE**

12 ga hanger wire

main tee

cross tee

torsion spring clips

acoustical
backer (optional)

USG Celebration™ Torsion
Spring panel
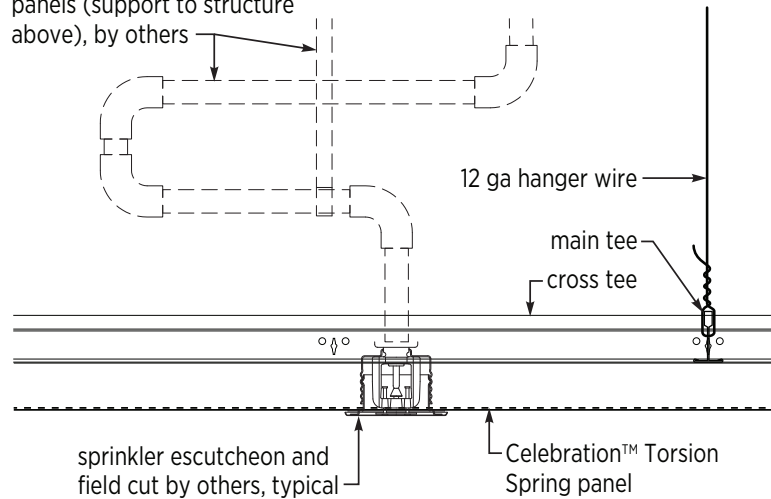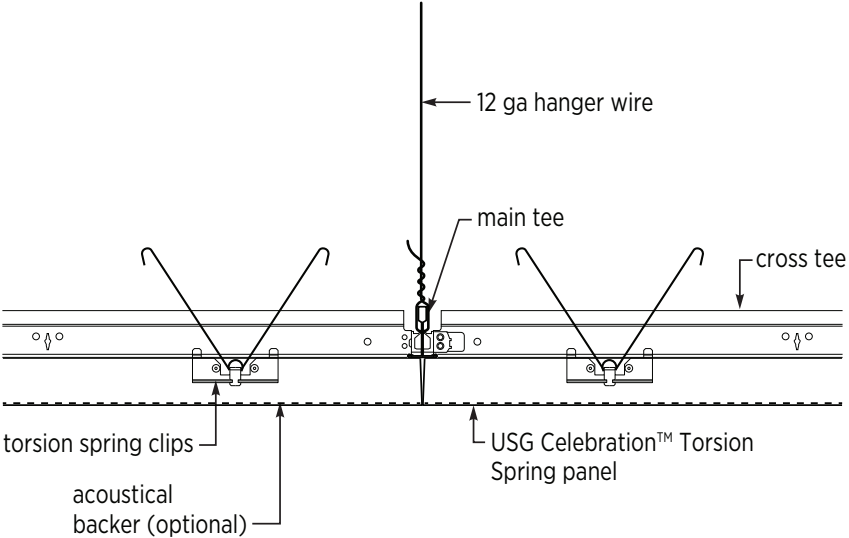
## PRODUCT INFORMATION

See usg.com for the most up-to-date product information.

## CUSTOMER SERVICE

USG 800 950-3839
CGC 800 387-2690

## TECHNICAL SERVICE

800 USG.4YOU (874-4968)

## WEBSITES

usg.com
cgcinc.com
usgdesignstudio.com
cgcdesignstudio.com

**PRODUCT INFORMATION**
Data Page: IC622
Installation Guide: IC637
See usg.com or cgcinc.com for the most up-to-date product information.

**INSTALLATION**
Must be installed in compliance with ASTM C636, ASTM E580, CISCA and standard industry practices, within all applicable code requirements. Alternative assemblies and installation methods may be utilized when approved by the authority having jurisdiction. USG recommends checking with the authority having jurisdiction prior to designing and installing a suspended ceiling system.

**CODE COMPLIANCE**
The information presented is correct to the best of our knowledge at the date of issuance. Because codes continue to evolve, check with a local official prior to designing and installing a ceiling system. Other restrictions and exemptions may apply.

**NOTICE**
We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

**COLOR VARIATIONS**
Some commercially acceptable color variation may occur between lots and between different size canopies of the same color.

**SEISMIC APPLICATIONS**
Refer to *Seismic Technical Guide, Specialty Decorative Ceilings* (SC2494) for more information on architectural components.

**SAFETY FIRST!**
Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read SDS and literature before specification and installation.

**WARRANTY**
One (1) year limited warranty. See *USG Ceilings Commercial Application Warranty* (SC2102) for additional details. For Canadian product needs, please contact your local sales representative.

**USG   CGC**

IT'S YOUR WORLD. BUILD IT.®