Fire & Acoustic Manual

The USG Structural Panel Fire & Acoustic Manual (SCP100) is the single source for UL-certified floor/ceiling assemblies using USG Structural Panels (UL type USGSP or Structo-crete™ supported by various structural framing systems, that includes side-by-side acoustic values (STC & IIC) for many common floor coverings. Most of the sound data was obtained from tested systems, but in some cases, USG’s proprietary Acoustic Learning Algorithm was used to estimate intermediary values based on the similarly tested floors, to create a comprehensive publication of fire systems with accompanying sound values.

- ASTM E413 Classification for Rating Sound Insulation
- ASTM E989 Standard Classification for Determination of Impact Insulation Class (IIC)

The manual SCP100 will be often updated, so please bookmark the online address at www.USGSCP100.com to allow easy and often access.
LEGEND

**USG DESIGN NUMBER** The acoustic file number for the tested system in question

**FIRE RATING (HOUR)** The UL-certified hourly floor/ceiling rating

**UL FIRE DESIGN** The UL floor/ceiling design name (e.g. H505)

**SOUND RATING LEVEL** – Three rating groups:

- **B** – Basic sound performance STC: 51 to 55 and IIC: 51 to 55
- **P** – Premium sound performance STC: 56 to 60 and IIC: 56 to 60
- **D** – Deluxe sound performance STC: 61 or higher and IIC: 61 or higher

**FLOOR COVERINGS (STC/IIC)**

- **BARE** – UL design floor/ceiling assembly without any underlayment, sound mats or floor coverings
- **CARPET & PAD** – 0.5” Shaw ECO Beauty carpet with 0.4” Shaw Support PLS/7/16
- **CARPET ONLY** – 0.5” Shaw ECO Beauty carpet
- **SHEET VINYL** – 0.07” Shaw Home Front sheet vinyl
- **SHEET VINYL WITH BACKER** – 0.1” Tarkett Moxie sheet vinyl with 1mm padded backer
- **VCT** – 0.13” Armstrong Standard Excelon® vinyl composition tile
- **LVT** – 0.16” Mannington Spacia luxury vinyl tile
- **LAMINATE** – 0.39” Pergo XP Haley Oak laminate flooring
- **1/2” THICK ENG. WOOD** – ½” Vintage Floors wood flooring
- **12”X12” CERAMIC TILE** – 0.31” Daltile ceramic tile

**CEILING SUPPORT SYSTEM** – The drywall ceilings are supported by:

- **RC1** – ½” deep 25 gauge resilient channel
- **DWSS6** – Framed drywall suspension system with min. 6” drop (see UL design for specific composition)

**CEILING COMPOSITION** – Type of drywall used for ceiling construction

- **ULIX1** – Single layer of 5/8” USG Sheetrock® Brand EcoSmart Panels Firecode® X (Type ULIX)
- **ULIX2** – Double layer of 5/8” USG Sheetrock® Brand EcoSmart Panels Firecode® X (Type ULIX)
- **C1** – Single layer of 5/8” USG Sheetrock® Brand Firecode® C Panels (Type C)
- **C2** – Double layer of 5/8” USG Sheetrock® Brand Firecode® C Panels (Type C)
- **USGSP** – Any USG Structural Concrete Panel
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800 USG-4YOU
800 (874-4968)
usg.com/structural

Manufactured for United States Gypsum Company
550 West Adams Street
Chicago, IL 60661

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Click on USG DESIGN NUMBER to see detail Design Page
**SYSTEM DESCRIPTION HIGHLIGHTS**

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.
- **C-joists**, min. 8" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient channels**, 1/2" deep, min. 18 mil. (25 gauge), spaced max. 12"o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX) fastened to resilient/furring channels with screws spaced 8"o.c.**

See UL-H505 design for all options and specific details (www.ULH505.com)
CARPET & PAD
2-hour UL Fire Design H505
www.ULH505.com

SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

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See UL-H505 design for all options and specific details (www.ULH505.com)
USG Structural Solutions

Structural Panel
Concrete Subfloor

Carpet Only
2-hour UL Fire Design H505
www.ULH505.com

SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8”o.c. at the perimeter and max. 12”o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

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See UL-H505 design for all options and specific details (www.ULH505.com)
Sheet Vinyl
2-hour UL Fire Design H505
www.ULH505.com

Sound Isolation Material

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SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.
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- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient channels**, 1/2" deep, min. 18 mil. (25 gauge), spaced max. 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com)
Sheet Vinyl with Padded Backer
2-hour UL Fire Design H505

www.ULH505.com

Sound Isolation Material | STC | IIC | USG Design No.
--- | --- | --- | ---
PLITEQ GenieMat® RST05 | 58 | 55 | J4242.39
PLITEQ GenieMat® RST02 | 57 | 54 | J4242.24
KINETICS® 5/16” Soundmatt | 58 | 54 | J4242.32

SYSTEM DESCRIPTION HIGHLIGHTS

- USG Structural Panel Concrete Subfloor fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8”o.c. at the perimeter and max. 12”o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.
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- Resilient channels, 1/2” deep, min. 18 mil. (25 gauge), spaced max. 12”o.c.
- One (1) layer 5/8” USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX) fastened to resilient/furring channels with screws spaced 8”o.c.

See UL-H505 design for all options and specific details (www.ULH505.com)
Vinyl Composite Tile (VCT)  
2-hour UL Fire Design H505  
www.ULH505.com

**SYSTEM DESCRIPTION HIGHLIGHTS**

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- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX)** fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-H505 design for all options and specific details (www.ULH505.com)

**Sound Isolation Material**

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SYSTEM DESCRIPTION HIGHLIGHTS

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See UL-H505 design for all options and specific details (www.ULH505.com)
**SYSTEM DESCRIPTION HIGHLIGHTS**

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See UL-H505 design for all options and specific details (www.ULH505.com)
SYSTEM DESCRIPTION HIGHLIGHTS

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- **One (1) layer 5/8” USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX)** fastened to resilient/furring channels with screws spaced 8”o.c.

See UL-H505 design for all options and specific details (www.ULH505.com)
SYSTEM DESCRIPTION HIGHLIGHTS

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- One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX) fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com)
**Bare 2-hour UL Fire Design G557**

www.ULG557.com

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**SYSTEM DESCRIPTION HIGHLIGHTS**

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8” o.c. at the perimeter and max. 12” o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, min. 8” deep, min. 1-5/8” wide flanges, min. 54 mil. (16 gauge), spaced max. 24” o.c.

- **Glass Fiber Insulation**, 3-1/2” thick, friction fit into the framing cavity supported by resilient channels.

- **Resilient channels**, 1/2” deep, min. 18 mil. (25 gauge), spaced max. 12” o.c.

- **Two (2) layers of 5/8” USG Sheetrock® Brand EcoSmart Panels Firecode® X (Type ULIX).** Base layer fastened to resilient/furring channels with screws spaced 12” o.c. Face layer fastened to resilient/furring channels with screws spaced 8” o.c.

See UL-G557 design for all options and specific details (www.G557.com)
Carpet & Pad
2-hour UL Fire Design G557
www.ULG557.com

SYSTEM DESCRIPTION HIGHLIGHTS

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See UL-G557 design for all options and specific details (www.G557.com)
SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8”o.c. at the perimeter and max. 12”o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

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See UL-G557 design for all options and specific details (www.G557.com)
Sheet Vinyl
2-hour UL Fire Design G557
www.ULG557.com

Sound Isolation Material | STC | IIC | USG Design No.
--------------------------|-----|-----|----------------
PLITEQ GenieMat® RST02    | 58  | 54  | J4242.62
KINETICS® 5/16” Soundmatt | 59  | 56  | J4242.70

SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8”o.c. at the perimeter and max. 12”o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.
- **C-joists**, min. 8” deep, min. 1-5/8” wide flanges, min. 54 mil. (16 gauge), spaced max. 24”o.c.
- **Glass Fiber Insulation**, 3-1/2” thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient channels**, 1/2” deep, min. 18 mil. (25 gauge), spaced max. 12”o.c.
- **Two (2) layers of 5/8” USG Sheetrock® Brand EcoSmart Panels Firecode® X (Type ULIX).** Base layer fastened to resilient/furring channels with screws spaced 12”o.c. Face layer fastened to resilient/furring channels with screws spaced 8”o.c.

See UL-G557 design for all options and specific details (www.G557.com)
Sheet Vinyl with Padded Backer
2-hour UL Fire Design G557
www.ULG557.com

Sound Isolation Material (see table below)

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<th>USG Design No.</th>
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SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

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- **Glass Fiber Insulation**, 3-1/2” thick, friction fit into the framing cavity supported by resilient channels.

- **Resilient channels**, 1/2” deep, min. 18 mil. (25 gauge), spaced max. 12”o.c.

- **Two (2) layers of 5/8” USG Sheetrock® Brand EcoSmart Panels Firecode® X (Type ULIX)**. Base layer fastened to resilient/furring channels with screws spaced 12”o.c. Face layer fastened to resilient/furring channels with screws spaced 8”o.c.

See UL-G557 design for all options and specific details (www.G557.com)
Vinyl Composite Tile (VCT)
2-hour UL Fire Design G557

www.ULG557.com

Sound Isolation Material | STC | IIC | USG Design No.
-------------------------|-----|-----|-----------------
PLITEQ GenieMat® RST02   | 59  | 53  | J4242.65
KINETICS® 5/16" Soundmatt| 59  | 56  | J4242.73

SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.
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See UL-G557 design for all options and specific details (www.G557.com)
SYSTEM DESCRIPTION HIGHLIGHTS

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- **Resilient channels**, 1/2” deep, min. 18 mil. (25 gauge), spaced max. 12”o.c.

- **Two (2) layers of 5/8” USG Sheetrock® Brand EcoSmart Panels Firecode® X (Type ULIX).** Base layer fastened to resilient/furring channels with screws spaced 12”o.c. Face layer fastened to resilient/furring channels with screws spaced 8”o.c.

See UL-G557 design for all options and specific details (www.G557.com)
Laminate
2-hour UL Fire Design G557
www.ULG557.com

SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8”o.c. at the perimeter and max. 12”o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, min. 8” deep, min. 1-5/8” wide flanges, min. 54 mil. (16 gauge), spaced max. 24”o.c.

- **Glass Fiber Insulation**, 3-1/2” thick, friction fit into the framing cavity supported by resilient channels.

- **Resilient channels**, 1/2” deep, min. 18 mil. (25 gauge), spaced max. 12”o.c.

- **Two (2) layers of 5/8” USG Sheetrock® Brand EcoSmart Panels Firecode® X (Type ULIX)**. Base layer fastened to resilient/furring channels with screws spaced 12”o.c. Face layer fastened to resilient/furring channels with screws spaced 8”o.c.

See UL-G557 design for all options and specific details (www.G557.com)
1/2" Engineered Wood
2-hour UL Fire Design G557
www.ULG557.com

SYSTEM DESCRIPTION HIGHLIGHTS

- USG Structural Panel Concrete Subfloor fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.
- C-joists, min. 8" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- Resilient channels, 1/2" deep, min. 18 mil. (25 gauge), spaced max. 12"o.c.
- Two (2) layers of 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X (Type ULIX). Base layer fastened to resilient/furring channels with screws spaced 12"o.c. Face layer fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.G557.com)
SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.
- **C-joists**, min. 8" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient channels**, 1/2" deep, min. 18 mil. (25 gauge), spaced max. 12"o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X (Type ULIX).** Base layer fastened to resilient/furring channels with screws spaced 12"o.c. Face layer fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.G557.com)
SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, min. 8" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24" o.c.

- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.

- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.

- **One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c. See UL-G556 design for all options and specific details (www.G556.com)
SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8”o.c. at the perimeter and max. 12”o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

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See UL-G556 design for all options and specific details (www.G556.com)
**SYSTEM DESCRIPTION HIGHLIGHTS**

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8”o.c. at the perimeter and max. 12”o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.
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- **One (1) layer of 5/8” USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8”o.c.

See UL-G556 design for all options and specific details (www.G556.com)

**Sound Isolation Material**

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See UL-G556 design for all options and specific details (www.G556.com)
Sheet Vinyl
1.5-hour UL Fire Design G556
www.ULG556.com

SYSTEM DESCRIPTION HIGHLIGHTS

• **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8”o.c. at the perimeter and max. 12”o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

• **C-joists**, min. 8” deep, min. 1-5/8” wide flanges, min. 54 mil. (16 gauge), spaced max. 24”o.c.

• **Glass Fiber Insulation**, 3-1/2” thick, friction fit into the framing cavity supported by resilient channels.

• **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6” from bottom of joist.

• **One (1) layer of 5/8” USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8”o.c.

See UL-G556 design for all options and specific details (www.G556.com)
Sheet Vinyl with Padded Backer
1.5-hour UL Fire Design G556
www.ULG556.com

SYSTEM DESCRIPTION HIGHLIGHTS

- USG Structural Panel Concrete Subfloor fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- C-joists, min. 8" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24" o.c.

- Glass Fiber Insulation, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.

- Steel Framing Members, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.

- One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C), fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c. See UL-G556 design for all options and specific details (www.G556.com)
Vinyl Composite Tile (VCT)
1.5-hour UL Fire Design G556
www.ULG556.com

SYSTEM DESCRIPTION HIGHLIGHTS

- USG Structural Panel Concrete Subfloor fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8”o.c. at the perimeter and max. 12”o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.
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- Glass Fiber Insulation, 3-1/2” thick, friction fit into the framing cavity supported by resilient channels.
- Steel Framing Members, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6” from bottom of joist.
- One (1) layer of 5/8” USG Sheetrock® Brand Firecode® C Panels (Type C), fastened to suspension system main runners, cross tees or cross channels with screws spaced 8”o.c.

See UL-G556 design for all options and specific details (www.G556.com)
Luxury Vinyl Tile (LVT)
1.5-hour UL Fire Design G556
www.ULG556.com

System Description Highlights
• USG Structural Panel Concrete Subfloor fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8”o.c. at the perimeter and max. 12”o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.
• C-joists, min. 8” deep, min. 1-5/8” wide flanges, min. 54 mil. (16 gauge), spaced max. 24”o.c.
• Glass Fiber Insulation, 3-1/2” thick, friction fit into the framing cavity supported by resilient channels.
• Steel Framing Members, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6” from bottom of joist.
• One (1) layer of 5/8” USG Sheetrock® Brand Firecode® C Panels (Type C), fastened to suspension system main runners, cross tees or cross channels with screws spaced 8”o.c.

See UL-G556 design for all options and specific details (www.G556.com)
Laminate
1.5-hour UL Fire Design G556
www.ULG556.com

SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8” o.c. at the perimeter and max. 12” o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, min. 8” deep, min. 1-5/8” wide flanges, min. 54 mil. (16 gauge), spaced max. 24” o.c.

- **Glass Fiber Insulation**, 3-1/2” thick, friction fit into the framing cavity supported by resilient channels.

- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6” from bottom of joist.

- **One (1) layer of 5/8” USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8” o.c. See UL-G556 design for all options and specific details (www.G556.com)

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1/2" Engineered Wood
1.5-hour UL Fire Design G556
www.ULG556.com

SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, min. 8" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.

- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.

- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.

- **One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c. See UL-G556 design for all options and specific details (www.G556.com)

---

**Sound Isolation Material**

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12”x12” Ceramic Tile
1.5-hour UL Fire Design G556
www.ULG556.com

Sound Isolation Material | STC | IIC | USG Design No.
------------------------|-----|-----|----------------
KINETICS® 5/16” Soundmatt | 69  | 54  | J4242.17

SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8”o.c. at the perimeter and max. 12”o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, min. 8” deep, min. 1-5/8” wide flanges, min. 54 mil. (16 gauge), spaced max. 24”o.c.

- **Glass Fiber Insulation**, 3-1/2” thick, friction fit into the framing cavity supported by resilient channels.

- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6” from bottom of joist.

- **One (1) layer of 5/8” USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8”o.c. See UL-G556 design for all options and specific details (www.G556.com)
Bare
2-hour UL Fire Design G557
www.ULG557.com

SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.
- **C-joists**, min. 8" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.G557.com)
System Description Highlights

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.
- **C-joists**, min. 8" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.G557.com)
Carpet Only
2-hour UL Fire Design G557
www.ULG557.com

SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, min. 8" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.

- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.

- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.

- **Two (2) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12"o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.G557.com)
Sheet Vinyl
2-hour UL Fire Design G557
www.ULG557.com

Sound Isolation Material STC IIC USG Design No.
PLITEQ GenieMat® RST02 60 57 J4242.43
KINETICS® 5/16" Soundmatt 61 58 J4242.51

SYSTEM DESCRIPTION HIGHLIGHTS
• USG Structural Panel Concrete Subfloor fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8” o.c. at the perimeter and max. 12” o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.
• C-joists, min. 8” deep, min. 1-5/8” wide flanges, min. 54 mil. (16 gauge), spaced max. 24” o.c.
• Glass Fiber Insulation, 3-1/2” thick, friction fit into the framing cavity supported by resilient channels.
• Steel Framing Members, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6” from bottom of joist.
• Two (2) layer of 5/8” USG Sheetrock® Brand Firecode® C Panels (Type C). Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12” o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8” o.c.

See UL-G557 design for all options and specific details (www.G557.com)
SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8” o.c. at the perimeter and max. 12” o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, min. 8” deep, min. 1-5/8” wide flanges, min. 54 mil. (16 gauge), spaced max. 24” o.c.

- **Glass Fiber Insulation**, 3-1/2” thick, friction fit into the framing cavity supported by resilient channels.

- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6” from bottom of joist.

- **Two (2) layer of 5/8” USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12” o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8” o.c.

See UL-G557 design for all options and specific details (www.G557.com)

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Vinyl Composite Tile (VCT)

2-hour UL Fire Design G557

www.ULG557.com

SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, min. 8" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.

- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.

- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.

- **Two (2) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12"o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.G557.com)
USG Structural Solutions

Luxury Vinyl Tile (LVT)
2-hour UL Fire Design G557
www.ULG557.com

Sound Isolation Material

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SYSTEM DESCRIPTION HIGHLIGHTS

• **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

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• **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.

• **Two (2) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C).**

Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12"o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.G557.com)

Return to INDEX
Laminate
2-hour UL Fire Design G557
www.ULG557.com

SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8”o.c. at the perimeter and max. 12”o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.
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- **Two (2) layer of 5/8” USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12”o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8”o.c.

See UL-G557 design for all options and specific details (www.G557.com)
1/2" Engineered Wood
2-hour UL Fire Design G557
www.ULG557.com

SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

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- **Two (2) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.G557.com)

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**Sound Isolation Material**

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**Return to INDEX**
12"x12" Ceramic Tile
2-hour UL Fire Design G557
www.ULG557.com

System Description Highlights

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.
- **C-joists**, min. 8" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**.
  Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.G557.com)
Bare
2-hour UL Fire Design G557
www.ULG557.com

SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, min. 8" deep, min. 1-9/16" wide flanges, min. 54 mil. (16 gauge), spaced max. 24" o.c.

- **Glass Fiber Insulation**, 3-1/2" thick, supported by ceiling steel framing members.

- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.

- **Two (2) layers of 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X (Type ULIX)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com)
Carpet & Pad
2-hour UL Fire Design G557
www.ULG557.com

**SYSTEM DESCRIPTION HIGHLIGHTS**

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, min. 8" deep, min. 1-9/16" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.

- **Glass Fiber Insulation**, 3-1/2" thick, supported by ceiling steel framing members.

- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.

- **Two (2) layers of 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12"o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.ULG557.com)
SYSTEM DESCRIPTION HIGHLIGHTS

• **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8”o.c. at the perimeter and max. 12”o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

• **C-joists**, min. 8” deep, min. 1-9/16” wide flanges, min. 54 mil. (16 gauge), spaced max. 24”o.c.

• **Glass Fiber Insulation**, 3-1/2” thick, supported by ceiling steel framing members.

• **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6” from bottom of joist.

• **Two (2) layers of 5/8” USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12”o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8”o.c.

See UL-G557 design for all options and specific details (www.ULG557.com)
SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, min. 8" deep, min. 1-9/16" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.

- **Glass Fiber Insulation**, 3-1/2" thick, supported by ceiling steel framing members.

- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.

- **Two (2) layers of 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX).** Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12"o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.ULG557.com)
Sheet Vinyl with Padded Backer
2-hour UL Fire Design G557
www.ULG557.com

SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, min. 8" deep, min. 1-9/16" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.

- **Glass Fiber Insulation**, 3-1/2" thick, supported by ceiling steel framing members.

- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.

- **Two (2) layers of 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12"o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.ULG557.com)
Vinyl Composite Tile (VCT) 2-hour UL Fire Design G557

www.ULG557.com

SYSTEM DESCRIPTION HIGHLIGHTS

• USG Structural Panel Concrete Subfloor fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8” o.c. at the perimeter and max. 12” o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

• C-joists, min. 8” deep, min. 1-9/16” wide flanges, min. 54 mil. (16 gauge), spaced max. 24” o.c.

• Glass Fiber Insulation, 3-1/2” thick, supported by ceiling steel framing members.

• Steel Framing Members, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6” from bottom of joist.

• Two (2) layers of 5/8” USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX). Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12” o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8” o.c.

See UL-G557 design for all options and specific details (www.ULG557.com)
**SYSTEM DESCRIPTION HIGHLIGHTS**

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 ([www.per13067.com](http://www.per13067.com)), for recommended fasteners.

- **C-joists**, min. 8" deep, min. 1-9/16" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.

- **Glass Fiber Insulation**, 3-1/2" thick, supported by ceiling steel framing members.

- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.

- **Two (2) layers of 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12"o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details ([www.ULG557.com](http://www.ULG557.com))
Sound Isolation Material | STC | IIC | USG Design No.
---|---|---|---
N/A | 57 | 37 | 18399.34

**SYSTEM DESCRIPTION HIGHLIGHTS**

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, 10" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24" o.c.

- **Glass Fiber Insulation**, 3-1/2" thick, supported by ceiling steel framing members.

- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.

- **One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G556 design for all options and specific details (www.ULG556.com)
SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.
- **C-joists**, 10" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, supported by ceiling steel framing members.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c.

See UL-G556 design for all options and specific details (www.ULG556.com)
Sound Isolation Material | STC | IIC | USG Design No.
--- | --- | --- | ---
N/A | 56 | 52 | 16510.30

**SYSTEM DESCRIPTION HIGHLIGHTS**

• **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 ([www.per13067.com](http://www.per13067.com)), for recommended fasteners.

• **C-joists**, 10" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.

• **Glass Fiber Insulation**, 3-1/2" thick, supported by ceiling steel framing members.

• **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.

• **One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c.

See UL-G556 design for all options and specific details ([www.ULG556.com](http://www.ULG556.com))

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Sheet Vinyl
1.5-hour UL Fire Design G556
www.ULG556.com

SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.
- **C-joists**, 10" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, supported by ceiling steel framing members.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c.

See UL-G556 design for all options and specific details (www.ULG556.com)
Sound Isolation Material STC IIC USG Design No.

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<th>Design No.</th>
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**SYSTEM DESCRIPTION HIGHLIGHTS**

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, 10" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.

- **Glass Fiber Insulation**, 3-1/2" thick, supported by ceiling steel framing members.

- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.

- **One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c.

See UL-G556 design for all options and specific details (www.ULG556.com)
SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.
- **C-joists**, 10" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, supported by ceiling steel framing members.
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- **One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c.

See UL-G556 design for all options and specific details (www.ULG556.com)
USG Structural Solutions

Luxury Vinyl Tile (LVT)
1.5-hour UL Fire Design G556
www.ULG556.com

SYSTEM DESCRIPTION HIGHLIGHTS

• USG Structural Panel Concrete Subfloor fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.perl3067.com), for recommended fasteners.

• C-joists, 10" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.

• Glass Fiber Insulation, 3-1/2" thick, supported by ceiling steel framing members.

• Steel Framing Members, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.

• One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C), fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c.

See UL-G556 design for all options and specific details (www.ULG556.com)

Sound Isolation Material | STC | IIC | USG Design No.
--- | --- | --- | ---
KINETICS® 5/16" Soundmatt | 59 | 56 | 16510.34
Laminate

1.5-hour UL Fire Design G556

www.ULG556.com

SYSTEM DESCRIPTION HIGHLIGHTS

• **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 ([www.per13067.com](http://www.per13067.com)), for recommended fasteners.

• **C-joists**, 10" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.

• **Glass Fiber Insulation**, 3-1/2" thick, supported by ceiling steel framing members.

• **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.

• **One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c.

See UL-G556 design for all options and specific details ([www.ULG556.com](http://www.ULG556.com))
SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, 10" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.

- **Glass Fiber Insulation**, 3-1/2" thick, supported by ceiling steel framing members.

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See UL-G556 design for all options and specific details (www.ULG556.com)
12" x 12" Ceramic Tile
1.5-hour UL Fire Design G556
www.ULG556.com

**SYSTEM DESCRIPTION HIGHLIGHTS**

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.
- **C-joists**, 10" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, supported by ceiling steel framing members.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c.

See UL-G556 design for all options and specific details (www.ULG556.com)

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**Sound Isolation Material**

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<th>USG Design No.</th>
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Bare
2-hour UL Fire Design G557
www.ULG557.com

Sound Isolation Material | STC | IIC | USG Design No.
--- | --- | --- | ---
N/A | 60 | 41 | 19258.01

**SYSTEM DESCRIPTION HIGHLIGHTS**

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, min. 8" deep, min. 1-9/16" wide flanges, min. 54 mil. (16 gauge), spaced max. 24" o.c.

- **Glass Fiber Insulation**, 3-1/2" thick, supported by ceiling steel framing members.

- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.

- **Two (2) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com)
SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, min. 8" deep, min. 1-9/16" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.

- **Glass Fiber Insulation**, 3-1/2" thick, supported by ceiling steel framing members.

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See UL-G557 design for all options and specific details (www.ULG557.com)
**SYSTEM DESCRIPTION HIGHLIGHTS**

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 ([www.per13067.com](http://www.per13067.com)), for recommended fasteners.
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- **Two (2) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details ([www.ULG557.com](http://www.ULG557.com))
Sheet Vinyl
2-hour UL Fire Design G557
www.ULG557.com

System Description Highlights

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, min. 8" deep, min. 1-9/16" wide flanges, min. 54 mil. (16 gauge), spaced max. 24" o.c.

- **Glass Fiber Insulation**, 3-1/2" thick, supported by ceiling steel framing members.

- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.

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See UL-G557 design for all options and specific details (www.ULG557.com)

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<th>STC</th>
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<th>USG Design No.</th>
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<tbody>
<tr>
<td>KINETICS® 5/16&quot; Soundmatt</td>
<td>61</td>
<td>59</td>
<td>19258.06</td>
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Sheet Vinyl with Padded Backer
2-hour UL Fire Design G557
www.ULG557.com

SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, min. 8" deep, min. 1-9/16" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.

- **Glass Fiber Insulation**, 3-1/2" thick, supported by ceiling steel framing members.

- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.

- **Two (2) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12"o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.ULG557.com)

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### Sound Isolation Material

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<th>STC</th>
<th>IIC</th>
<th>USG Design No.</th>
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<td>59</td>
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### SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 ([www.per13067.com](http://www.per13067.com)), for recommended fasteners.
- **C-joists**, min. 8" deep, min. 1-9/16" wide flanges, min. 54 mil. (16 gauge), spaced max. 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, supported by ceiling steel framing members.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details ([www.ULG557.com](http://www.ULG557.com))
Luxury Vinyl Tile (LVT)
2-hour UL Fire Design G557

www.ULG557.com

SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8” o.c. at the perimeter and max. 12” o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, min. 8” deep, min. 1-9/16” wide flanges, min. 54 mil. (16 gauge), spaced max. 24” o.c.

- **Glass Fiber Insulation**, 3-1/2” thick, supported by ceiling steel framing members.

- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6” from bottom of joist.

- **Two (2) layer of 5/8” USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12” o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8” o.c.

See UL-G557 design for all options and specific details (www.ULG557.com)
Laminate
2-hour UL Fire Design G557
www.ULG557.com

SYSTEM DESCRIPTION HIGHLIGHTS

• USG Structural Panel Concrete Subfloor fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

• C-joists, min. 8" deep, min. 1-9/16" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.

• Glass Fiber Insulation, 3-1/2" thick, supported by ceiling steel framing members.

• Steel Framing Members, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.

• Two (2) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C). Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12"o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.ULG557.com)
SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, min. 8" deep, min. 1-9/16" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.

- **Glass Fiber Insulation**, 3-1/2" thick, supported by ceiling steel framing members.

- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.

- **Two (2) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12"o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.ULG557.com)
USG Structural Solutions

12" X 12" Ceramic Tile
2-hour UL Fire Design G557
www.ULG557.com

SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.
- **C-joists**, min. 8" deep, min. 1-9/16" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, supported by ceiling steel framing members.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12"o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.ULG557.com)
USG Structural Panel Concrete Subfloor

Bare

2-hour UL Fire Design G602

www.ULG602.com

SYSTEM DESCRIPTION HIGHLIGHTS

- USG Structural Panel Concrete Subfloor fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8” o.c. at the perimeter and max. 12” o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.
- C-joists, min. 10” deep, min. 1-5/8” wide flanges, min. 54 mil. (16 gauge), spaced max. 24” o.c.
- Glass Fiber Insulation, 3-1/2” thick, friction fit into the framing cavity supported by resilient channels.
- Furring (Hat) channels 2-5/8” wide and min. 7/8” deep, min. 33 mil. (20 gauge), spaced max. 16” o.c.
- One (1) layer of 3/4” USG Structural Panel Concrete Subfloor (Type USGSP or Structo-crete), fastened to furring channels with screws spaced 8” o.c.

See UL-G602 design for all options and specific details (www.ULG602.com)
SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

- **C-joists**, min. 10" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24" o.c.

- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.

- **Furring (Hat) channels** 2-5/8" wide and min. 7/8" deep, min. 33 mil. (20 gauge), spaced max. 16" o.c.

- **One (1) layer of 3/4" USG Structural Panel Concrete Subfloor** (Type USGSP or Structo-crete), fastened to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details (www.ULG602.com)
**Carpet Only**

**2-hour UL Fire Design G602**

[www.ULG602.com](http://www.ULG602.com)

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**SYSTEM DESCRIPTION HIGHLIGHTS**

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 ([www.per13067.com](http://www.per13067.com)), for recommended fasteners.

- **C-joists**, min. 10" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24" o.c.

- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.

- **Furring (Hat) channels** 2-5/8" wide and min. 7/8" deep, min. 33 mil. (20 gauge), spaced max. 16" o.c.

- **One (1) layer of 3/4" USG Structural Panel Concrete Subfloor** (Type USGSP or Structo-crete), fastened to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details ([www.ULG602.com](http://www.ULG602.com))
Sheet Vinyl
2-hour UL Fire Design G602
www.ULG602.com

SYSTEM DESCRIPTION HIGHLIGHTS

• **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

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• **One (1) layer of 3/4" USG Structural Panel Concrete Subfloor** (Type USGSP or Structo-crete), fastened to furring channels with screws spaced 8"o.c.

See UL-G602 design for all options and specific details (www.ULG602.com)
**SYSTEM DESCRIPTION HIGHLIGHTS**

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8”o.c. at the perimeter and max. 12”o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

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See UL-G602 design for all options and specific details (www.ULG602.com)
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- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8” o.c. at the perimeter and max. 12” o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

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SYSTEM DESCRIPTION HIGHLIGHTS

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See UL-G602 design for all options and specific details (www.ULG602.com)
SYSTEM DESCRIPTION HIGHLIGHTS

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- **Furring (Hat) channels** 2-5/8” wide and min. 7/8” deep, min. 33 mil. (20 gauge), spaced max. 16” o.c.
- **One (1) layer of 3/4” USG Structural Panel Concrete Subfloor** (Type USGSP or Structo-crete), fastened to furring channels with screws spaced 8” o.c.

See UL-G602 design for all options and specific details (www.ULG602.com)
1/2" Engineered Wood
2-hour UL Fire Design G602
www.ULG602.com

SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

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- **One (1) layer of 3/4" USG Structural Panel Concrete Subfloor** (Type USGSP or Structo-crete), fastened to furring channels with screws spaced 8"o.c.

See UL-G602 design for all options and specific details (www.ULG602.com)
12”x12” Ceramic Tile
2-hour UL Fire Design G602
www.ULG602.com

SYSTEM DESCRIPTION HIGHLIGHTS

- **USG Structural Panel Concrete Subfloor** fastened to cold-formed steel C-joists with 1-5/8” long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8” o.c. at the perimeter and max. 12” o.c. in the field of the panel. See Progressive Engineering, Inc. code report PER-13067 (www.per13067.com), for recommended fasteners.

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See UL-G602 design for all options and specific details (www.ULG602.com)
PRODUCT INFORMATION
See usg.com for the most up-to-date product information.

CUSTOMER SERVICE
800 USG.4YOU (874-4968)

EMAIL
usgstructural@usg.com

WEBSITE
usg.com/structural

MANUFACTURED BY
United States Gypsum Company
550 West Adams Street
Chicago, IL 60661

MSRP based upon full truckload delivered to jobsite:
Subfloor: $4.50/sf
Roof Deck: $5.40/sf

DANGER
Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May cause cancer by inhalation of respirable crystalline silica. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Use only in a well-ventilated area and wear a NIOSH/MSHA approved respirator. Wear protective gloves/protective clothing/eye protection. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing. Immediately call a poison center/doctor. If on skin: Wash with plenty of water. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. If skin irritation or rash occurs, or otherwise exposed or concerned: Get medical attention. Store locked up. Dispose of in accordance with local, state and federal regulations.

For more information call Product Safety: 800 507-8899 or see the SDS at usg.com.

KEEP OUT OF REACH OF CHILDREN.

NOTICE
We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by applications 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 within 30 days from date it was or reasonably should have been discovered.

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