SCP116 UL® H501® Acoustic Ratings

The following section of the **USG Structural Modular Construction Design Manual** named SCP116 contains the acoustic performance values for the noncombustible, floor/ceiling UL® design H501®. The values for the Sound Transmission Class (STC), or airborne sound, as well as the Impact Isolation Class (IIC), or knocking sound, are noted for the H501® bare floor system along with nine (9) different typical floor coverings.

DOCUMENT INSTRUCTIONS

This document is a separate PDF from the launch document SCP110 and is always accessible with an internet connection and a web browser. It is not recommended that this section be saved, as it is anticipated that SCP116 will be updated and expanded frequently.

The indexes found here summarize the tested values, listing the floor coverings along the top of the tables and the design numbers down the left side. The values in the indexes are the STC/IIC values for the floor coverings in question. Down the right-hand side of the index is a quick summary of the floor/ceiling construction identifying the sound material, if any, the type of underlayment and the drywall construction of the ceiling below.

Once an STC/IIC value has been chosen, simply click on the design number in the left-most column to be taken to the design page, where details of the floor/ceiling construction are explained. At the bottom of each design page is a red outline box labelled "Return to INDEX" to allow the viewer to get back to the main acoustic index.

PRODUCT INFORMATION

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

TECHNICAL 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 © 2020 USG Corporation and/or its affiliates. All rights reserved.

The trademarks USG, DUROCK, FIBEROCK, FIRECODE, H501, SHEETROCK, IT'S YOUR WORLD. BUILD IT., the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates.

UL is a trademark of UL LLC. GENIEMAT is a trademark of Pliteq, Inc. KINETICS is a trademark of Kinetics Noise Control. Inc

All non-USG products may be trademarks of their respective companies. USG does not claim any rights, hold liability or provide technical support for these non-USG products.

LEGEND UL® H501® Modular

USG DESIGN NUMBER The acoustic file number for the tested system in question. Any USG Design Number label starting with "ALA" is an estimate generated by USG's proprietary Acoustic Learning Algorithm.

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

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 PLS7/16

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 - 1/2" Vintage Floors wood flooring

12"X12" CERAMIC TILE - 0.31" Daltile ceramic tile

CEILING SUPPORT SYSTEM

Drywall ceilings are supported by 1/2" deep 25 gauge resilient channel. (ClarkDietrich Building Systems RC Deluxe™)

SOUND ISOLATION MATERIAL

RST03 - PLITEQ GenieMat® RST03

KIN - KINETICS® 5/16" Soundmatt

RST05 - PLITEQ GenieMat® RST05

UNDERLAYMENT

FRX1 - 1-layer 1/4" USG Fiberock® Brand Underlayment

FRX2 - 2-layers 1/4" USG Fiberock® Brand Underlayment

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)



INDEX UL® H501® Modular

\ \ % \ \		SIET			RELEASE REPORTED TO SEELE
THE SOUND BRITISE	CARARIT CARARIT	SHELL MALMITHE		THICKE	
THE PARTY OF THE PROPERTY OF THE PARTY OF TH	BARE RESPONDED ONLY	SHELL WITH BECKES	4, 4	CAMMARIA SC. MOOD	

USG DESIGN NUMBER	HOUR	LEVEL					FLOOR	COVERING (STC/IIC)					
K4505.01	2		57/44											ULIX 1
K4505.02	2	В		58/73										ULIX 1
K4505.03	2	В			58/54									ULIX 1
K4505.04	2	В				58/52							FRX1	ULIX 1
K4505.18	2	Р				59/57						RST03	FRX2	ULIX 1
K4505.25	2	Р				59/57						KIN	FRX2	ULIX 1
K4505.32	2	Р				58/58						RST05	FRX2	ULIX 1
K4505.05	2	В					58/54						FRX1	ULIX 1
K4505.19	2	Р					59/57					RST03	FRX2	ULIX 1
K4505.26	2	Р					60/56					KIN	FRX2	ULIX 1
K4505.33	2	Р					58/58					RST05	FRX2	ULIX 1
K4505.06	2	В						59/52					FRX1	ULIX 1
K4505.20	2	Р						60/58				RST03	FRX2	ULIX 1
K4505.27	2	Р						61/57				KIN	FRX2	ULIX 1
K4505.34	2	Р						59/59				RST05	FRX2	ULIX1
K4505.07	2	В							59/53				FRX1	ULIX 1
K4505.21	2	Р							59/57			RST03	FRX2	ULIX1
K4505.28	2	Р							60/57			KIN	FRX2	ULIX1
K4505.35	2	Р							59/58			RST05	FRX2	ULIX1
K4505.10	2	В								57/51				ULIX 1
K4505.11	2	В								58/54		RST03		ULIX 1
K4505.12	2	В								56/52		KIN		ULIX 1
K4505.13	2	В								58/54		RST05		ULIX 1
K4505.08	2	В								58/54			FRX1	ULIX 1
K4505.22	2	Р								59/58		RST03	FRX2	ULIX1
K4505.29	2	Р								60/56		KIN	FRX2	ULIX1
K4505.36	2	Р								59/58		RST05	FRX2	ULIX1
K4505.14	2	В									59/50			ULIX 1
K4505.09	2	Р									58/57		FRX1	ULIX 1
K4505.15	2	Р									59/58	RST03	FRX1	ULIX 1
K4505.16	2	Р									58/57	KIN	FRX1	ULIX 1
K4505.17	2	Р									59/58	RST05	FRX1	ULIX 1
K4505.23	2	Р									59/60	RST03	FRX2	ULIX1

Index continued on next page

Click on USG DESIGN NUMBER to see detail Design Page

800 USG.4YOU 800 (874-4968) usg.com/structural Manufactured for SCPI16-USA-ENG/3-20 United States Gypsum Company 550 West Adams Street Chicago, IL 60661 All rights reserved. Chicago, IL 60661

Printed in the U.S.A.





INDEX UL® H501® Modular

\ \ \		SIE		\ . \ \	Sour \
THE BATH OF FLAT		C. L.		THE REAL STATE	SOUND
THE PARTY.	CARDEL CARDEL	SHEET MITTER		CA CHENCE	
THE RAILS FEET,	BARK BOND ONLY	ET LINAT BACKER	ty 14	CAMMARK C. MOOD	ARMICIAL ARTITUTE CHARACTER AND COLOR

USG DESIGN NUMBER	HOUR	LEVEL					FLOOR (COVERING (S	TC/IIC)						
K4505.30	2	Р									61/56		KIN	FRX2	ULIX1
K4505.37	2	Р									59/60		RST05	FRX2	ULIX1
K4505.24	2	Р										60/57	RST03	FRX2	ULIX1
K4505.31	2	Р										61/58	KIN	FRX2	ULIX1
K4505.38	2	Р										59/58	RST05	FRX2	ULIX1
ALAH501001	2	Р										59/52		FRX1	ULIX1
ALAH501002	2	Р										59/54		DUR1	ULIX1
K4505.40	2	Р	59/48												ULIX2
K4505.41	2	Р		60/79											ULIX2
K4505.42	2	Р			60/58										ULIX2
K4505.43	2	Р				60/56								FRX1	ULIX2
K4505.59	2	Р				62/60							RST03	FRX2	ULIX2
K4505.66	2	D				62/61							KIN	FRX2	ULIX2
K4505.73	2	D				61/62							RST05	FRX2	ULIX2
K4505.44	2	Р					60/57							FRX1	ULIX2
K4505.60	2	D					61/62						RST03	FRX2	ULIX2
K4505.67	2	D					61/62						KIN	FRX2	ULIX2
K4505.74	2	D					61/63						RST05	FRX2	ULIX2
K4505.45	2	Р						61/57						FRX1	ULIX2
K4505.61	2	D						62/61					RST03	FRX2	ULIX2
K4505.68	2	D						62/62					KIN	FRX2	ULIX2
K4505.75	2	D						61/63					RST05	FRX2	ULIX2
K4505.46	2	Р							61/57					FRX1	ULIX2
K4505.62	2	D							62/61				RST03	FRX2	ULIX2
K4505.69	2	D							62/62				KIN	FRX2	ULIX2
K4505.76	2	D							61/62				RST05	FRX2	ULIX2
K4505.51	2	Р								59/55					ULIX2
K4505.52	2	Р								60/56			RST03		ULIX2
K4505.53	2	D								59/58			KIN		ULIX2
K4505.54	2	Р								59/58			RST05		ULIX2
K4505.47	2	Р								60/58				FRX1	ULIX2
K4505.63	2	D								61/61			RST03	FRX2	ULIX2
K4505.70	2	D								61/61			KIN	FRX2	ULIX2

Index continued on next page

Click on USG DESIGN NUMBER to see detail Design Page

800 USG.4YOU 800 (874-4968) usg.com/structural Manufactured for SCPI16-USA-ENG/3-20 United States Gypsum Company 550 West Adams Street Chicago, IL 60661 All rights reserved. Chicago, IL 60661

Printed in the U.S.A.





INDEX UL® H501® Modular

ZIR SCHWO PARILE	CARALL CARRY	SHELL WAY WITH		THICKENG .	CHARLE COART
THE RAILE THE PROPERTY OF THE PARTY OF THE P		ONL SHELL WALL WHITH BACK	\$ \ \tau_1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	MIN 120	

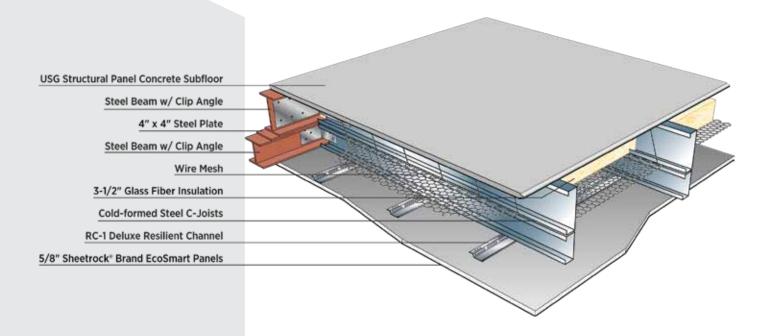
USG DESIGN													
NUMBER	HOUR	LEVEL			FLOOR	OVERING (S	TC/IIC)						
K4505.70	2	D						61/61			KIN	FRX2	ULIX2
K4505.77	2	Р						60/62			RST05	FRX2	ULIX2
K4505.55	2	В							60/55				ULIX2
K4505.48	2	Р							60/58			FRX1	ULIX2
K4505.56	2	D							61/61		RST03	FRX1	ULIX2
K4505.57	2	D							61/62		KIN	FRX1	ULIX2
K4505.58	2	D							61/63		RST05	FRX1	ULIX2
K4505.64	2	D							61/65		RST03	FRX2	ULIX2
K4505.71	2	D							62/63		KIN	FRX2	ULIX2
K4505.78	2	D							61/65		RST05	FRX2	ULIX2
K4505.65	2	D								61/61	RST03	FRX2	ULIX2
K4505.72	2	D								62/62	KIN	FRX2	ULIX2
K4505.79	2	D								61/61	RST05	FRX2	ULIX2
K4505.50	2	В								61/55		FRX1	ULIX2
K4505.49	2	Р								61/57		DUR1	ULIX2

Click on USG DESIGN NUMBER to see detail Design Page



Bare 2-hour UL[®] Fire Design H501[®]

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	57	44	K4505.01

FLOOR FRAMING

- 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX

Note

The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H501* assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

The trademarks USG, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

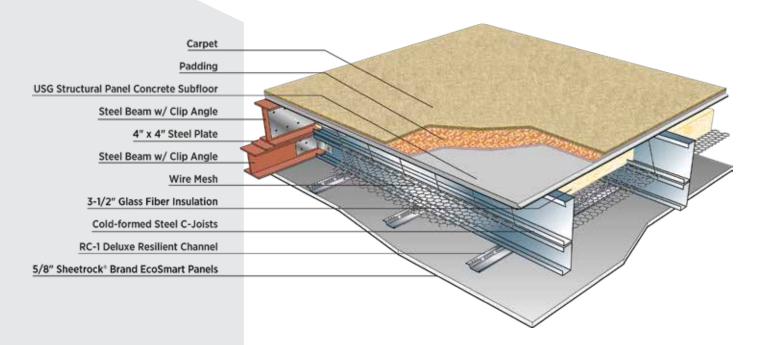
800 USG.4YOU 800 (874-4968) usg.com/structural

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



Carpet & Pad 2-hour UL® Fire Design H501®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	58	73	K4505.02

FLOOR FRAMING

- 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX

Note

The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H501* assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

The trademarks USG, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

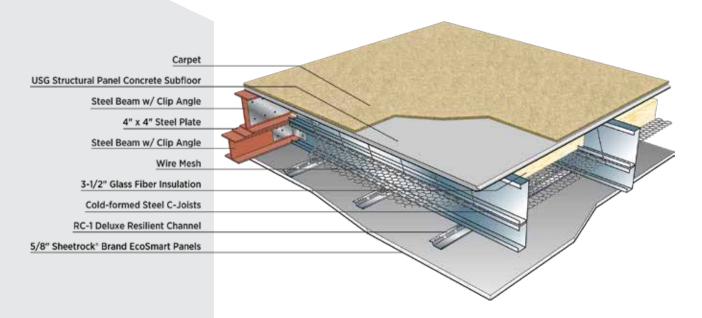
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





Carpet Only 2-hour UL® Fire Design H501®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	58	54	K4505.03

FLOOR FRAMING

- 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX

Note:

The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H501* assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

The trademarks USG, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

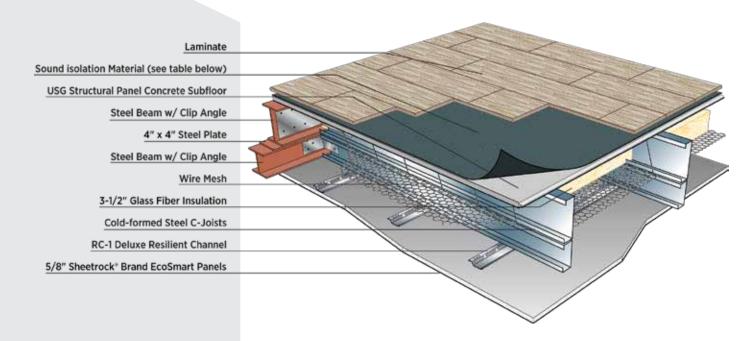
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





Laminate 2-hour UL® Fire Design H501®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	57	51	K4505.10
PLITEQ GenieMat® RST03	58	54	K4505.11
KINETICS® 5/16" Soundmatt	56	52	K4505.12
PLITEQ GenieMat® RST05	58	54	K4505.13

FLOOR FRAMING

- 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX

The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H501® assembly is not allowed.

H501® is a trademark of the United States Gypsum Company.

GENIEMAT is a trademark of Pliteg, Inc. KINETICS is a trademark of Kinetics Noise Control, Inc.

The trademarks USG, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

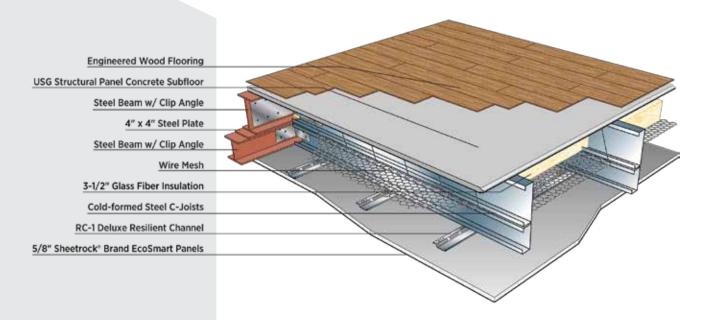
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661

SCP116-USA-ENG/3-20 © 2020 USG Corporation and/or its affiliates. All rights reserved.



1/2" Engineered Wood 2-hour UL[®] Fire Design H501[®]

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	59	50	K4505.14

FLOOR FRAMING

- 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX

Note:

The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H501* assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

The trademarks USG, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

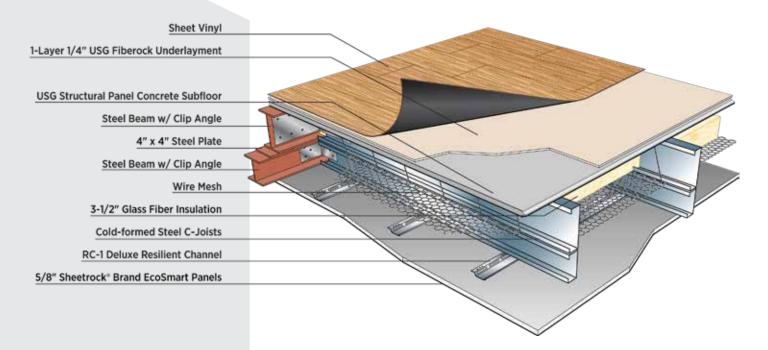
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





Sheet Vinyl 2-hour UL® Fire Design H501®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	58	52	K4505.04

FLOOR FRAMING

- 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX

Note:

The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H501* assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

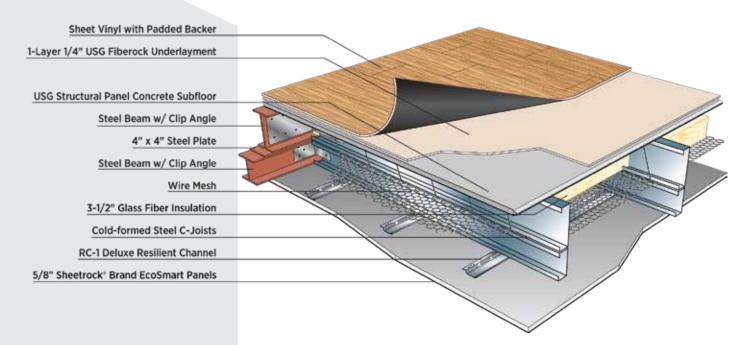
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





Sheet Vinyl with Padded Backer 2-hour UL® Fire Design H501®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	58	54	K4505.05

FLOOR FRAMING

- 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX

Note

The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H501* assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

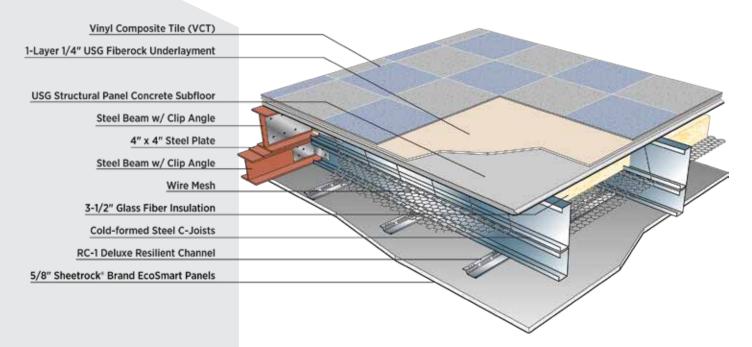
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





Vinyl Composite Tile (VCT) 2-hour UL® Fire Design H501®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	59	52	K4505.06

FLOOR FRAMING

- 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX

Note:

The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H501* assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

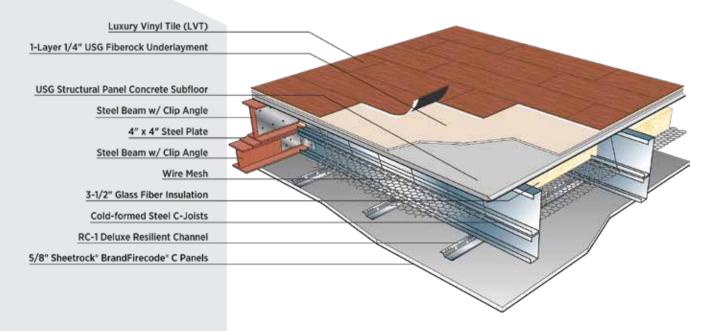
800 USG.4YOU 800 (874-4968) usg.com/structural

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



Luxury Vinyl Tile (LVT) 2-hour UL[®] Fire Design H501[®]

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	59	53	K4505.07

FLOOR FRAMING

- 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX

Note:

The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H501* assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

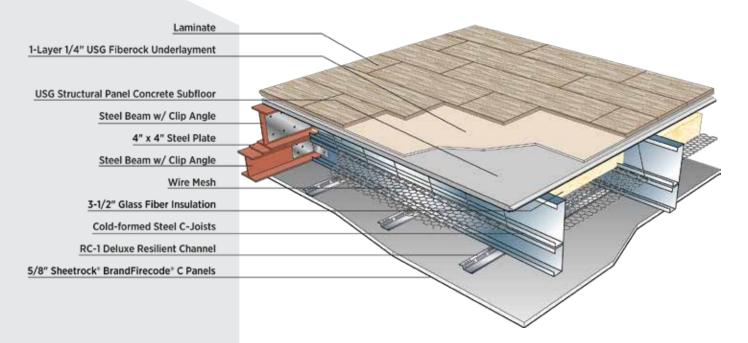
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





Laminate2-hour UL® Fire Design H501®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	58	54	K4505.08

FLOOR FRAMING

- 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX

Note:

The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H501* assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

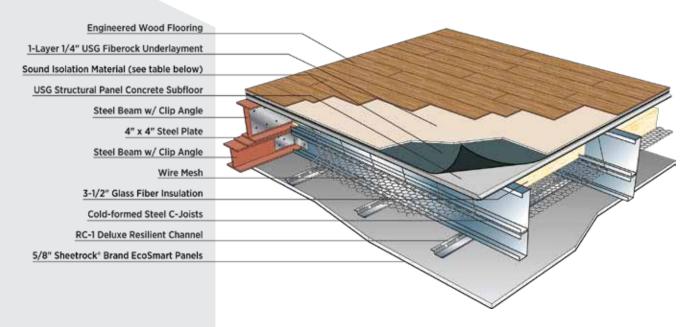
800 USG.4YOU 800 (874-4968) usg.com/structural

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



1/2" Engineered Wood 2-hour UL[®] Fire Design H501[®]

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	58	57	K4505.09
PLITEQ GenieMat® RST03	59	58	K4505.15
KINETICS® 5/16" Soundmatt	58	57	K4505.16
PLITEQ GenieMat® RST05	59	58	K4505.17

FLOOR FRAMING

- 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX

Note

The acoustic values published in this manual are for the Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H507* assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

GENIEMAT is a trademark of Pliteq, Inc. KINETICS is a trademark of Kinetics Noise Control, Inc.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

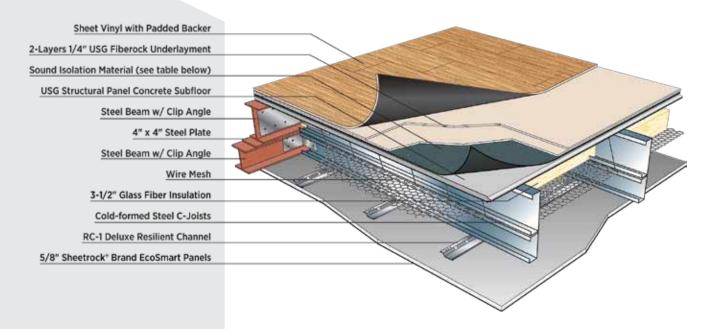
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





Sheet Vinyl 2-hour UL® Fire Design H501®

www.UI H501.com



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST03	59	57	K4505.18
KINETICS® 5/16" Soundmatt	59	57	K4505.25
PLITEQ GenieMat® RST05	58	58	K4505.32

FLOOR FRAMING

- 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H507* assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

GENIEMAT is a trademark of Pliteq, Inc. KINETICS is a trademark of Kinetics Noise Control, Inc.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

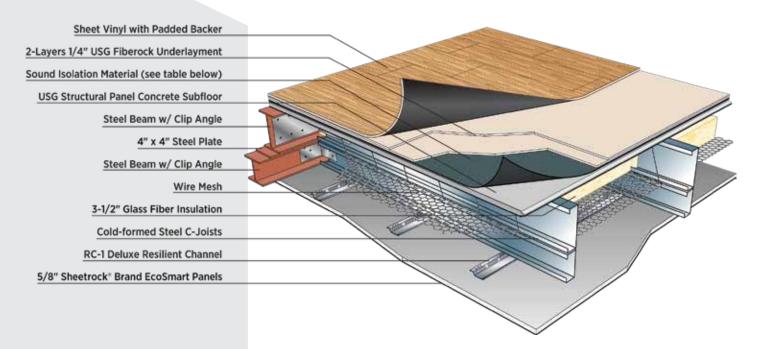
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





Sheet Vinyl with Padded Backer 2-hour UL® Fire Design H501®

www.UI H501.com



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST03	59	57	K4505.19
KINETICS® 5/16" Soundmatt	60	56	K4505.26
PLITEQ GenieMat® RST05	58	58	K4505.33

FLOOR FRAMING

- 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H507* assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

GENIEMAT is a trademark of Pliteq, Inc. KINETICS is a trademark of Kinetics Noise Control, Inc.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

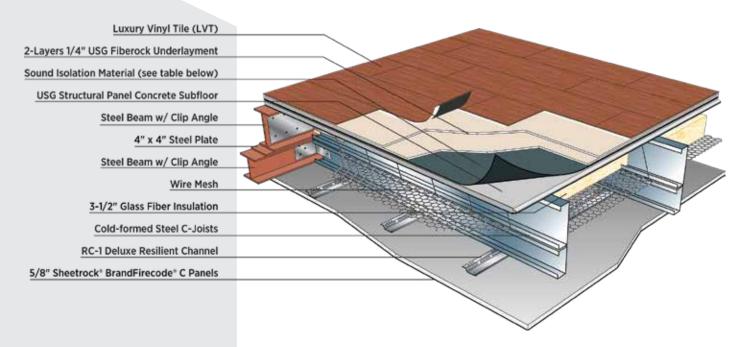
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





Vinyl Composite Tile (VCT) 2-hour UL® Fire Design H501®

www.UI H501.com



STC	IIC	USG Design No.
60	58	K4505.20
61	57	K4505.27
59	59	K4505.34
	60 61	60 58 61 57

FLOOR FRAMING

- 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12" o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H5O1* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H5O1* assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

GENIEMAT is a trademark of Pliteq, Inc. KINETICS is a trademark of Kinetics Noise Control, Inc.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

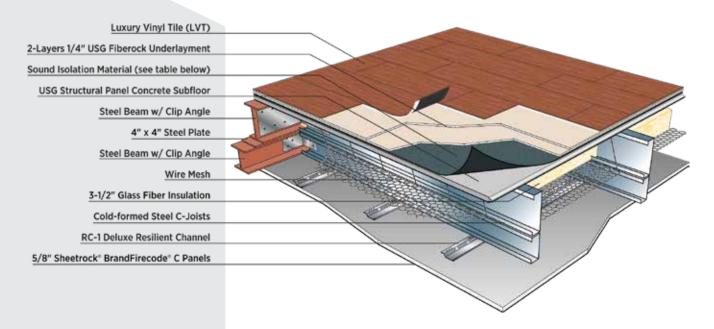
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





Luxury Vinyl Tile (LVT) 2-hour UL[®] Fire Design H501[®]

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST03	59	57	K4505.21
KINETICS® 5/16" Soundmatt	60	57	K4505.28
PLITEQ GenieMat® RST05	59	58	K4505.35

FLOOR FRAMING

- 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H5O1* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H5O1* assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

GENIEMAT is a trademark of Pliteq, Inc. KINETICS is a trademark of Kinetics Noise Control, Inc.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

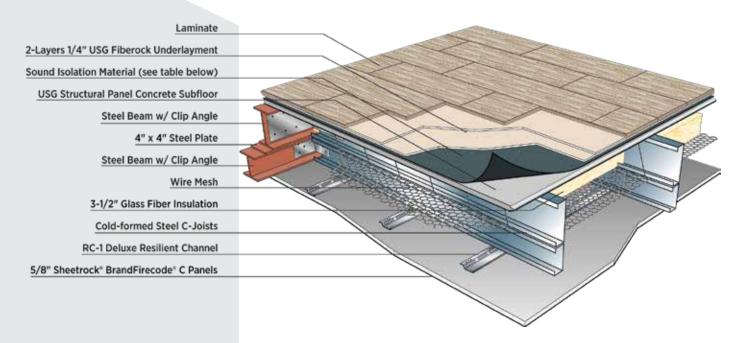
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





Laminate2-hour UL® Fire Design H501®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST03	59	58	K4505.22
KINETICS® 5/16" Soundmatt	60	56	K4505.29
PLITEQ GenieMat® RST05	59	58	K4505.36

FLOOR FRAMING

- 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H5O1* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H5O1* assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

GENIEMAT is a trademark of Pliteq, Inc. KINETICS is a trademark of Kinetics Noise Control, Inc.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

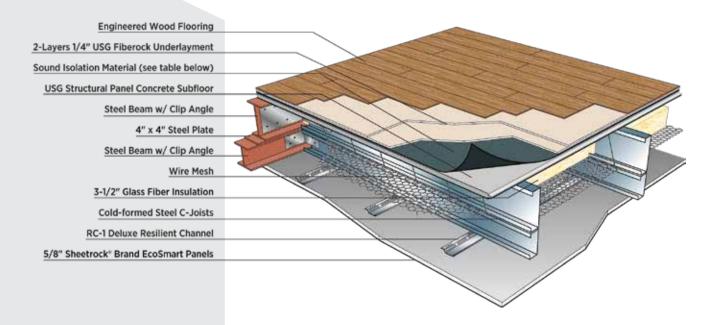
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





1/2" Engineered Wood 2-hour UL[®] Fire Design H501[®]

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST03	59	60	K4505.23
KINETICS® 5/16" Soundmatt	61	56	K4505.30
PLITEQ GenieMat® RST05	59	60	K4505.37

FLOOR FRAMING

- 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H507* assembly is not allowed.

H501® is a trademark of the United States Gypsum Company.

GENIEMAT is a trademark of Pliteq, Inc. KINETICS is a trademark of Kinetics Noise Control, Inc.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

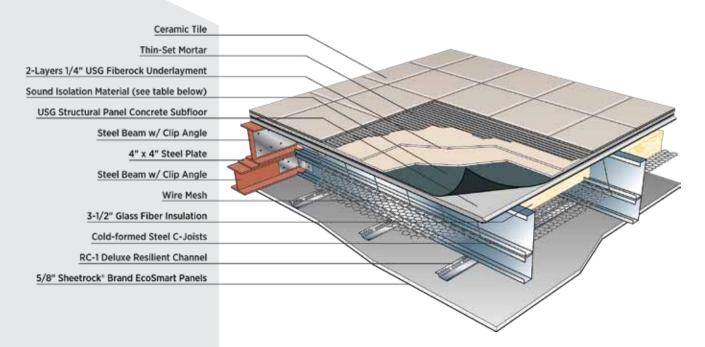
800 USG.4YOU 800 (874-4968) usg.com/structural

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





www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST03	60	57	K4505.24
KINETICS® 5/16" Soundmatt	61	58	K4505.31
PLITEQ GenieMat® RST05	59	58	K4505.38

FLOOR FRAMING

- 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H507* assembly is not allowed.

H501® is a trademark of the United States Gypsum Company.

GENIEMAT is a trademark of Pliteq, Inc. KINETICS is a trademark of Kinetics Noise Control, Inc.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

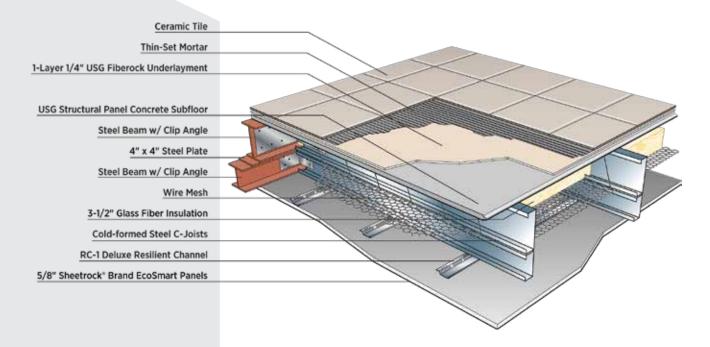
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





12"x12" Ceramic Tile 2-hour UL[®] Fire Design H501[®]

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	59	52	ALAH501001

FLOOR FRAMING

- 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- **C-joists**, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H507* assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

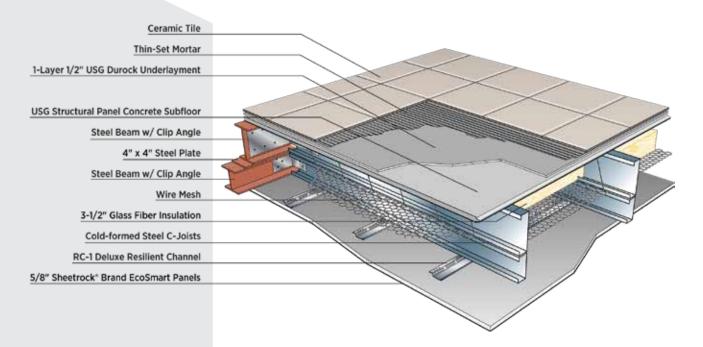
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





12"x12" Ceramic Tile 2-hour UL[®] Fire Design H501[®]

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	59	54	ALAH501002

FLOOR FRAMING

- 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- **C-joists**, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX

Note:

The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H501* assembly is not allowed.

The trademarks USG, DUROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

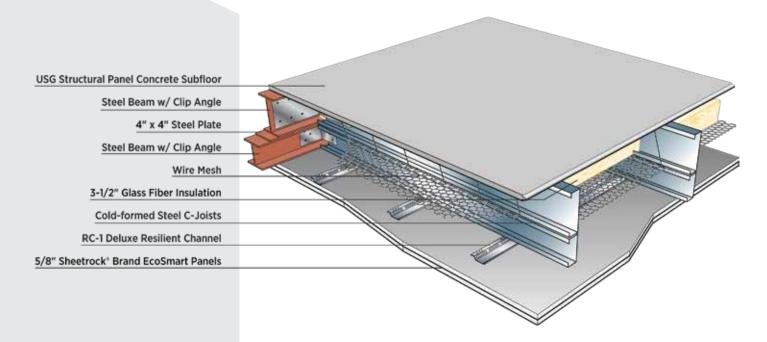
800 USG.4YOU 800 (874-4968) usg.com/structural

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



Bare 2-hour UL[®] Fire Design H501[®]

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	59	48	K4505.40

FLOOR FRAMING

- USG Structural Panel Concrete Subfloor 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H501* assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

The trademarks USG, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

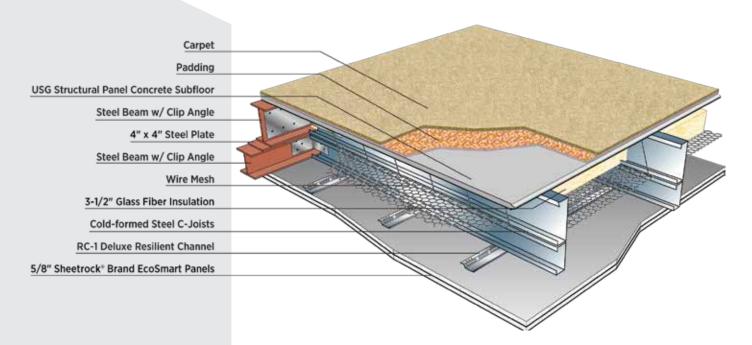
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





Carpet & Pad 2-hour UL® Fire Design H501®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	60	79	K4505.41

FLOOR FRAMING

- USG Structural Panel Concrete Subfloor 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- **C-joists**, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H501® assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

The trademarks USG, FIRECODE, SHEETROCK, the USG logo. the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of ULLIC

800 USG.4YOU 800 (874-4968) usg.com/structural

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

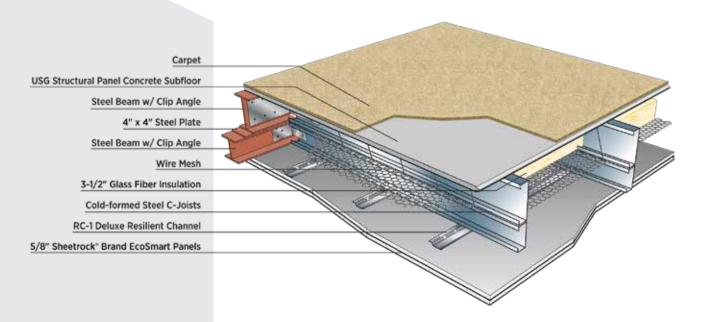
SCP116-USA-ENG/3-20 © 2020 USG Corporation and/or its affiliates. All rights reserved





Carpet Only 2-hour UL® Fire Design H501®

www.ULH501.com



STC	IIC	USG Design No.
60	58	K4505.42

FLOOR FRAMING

- USG Structural Panel Concrete Subfloor 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12" o.c.

CEILING FRAMING

- **C-joists**, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



trademark of UL LLC

The acoustic values published in this manual are for the

into the H501® assembly is not allowed.

USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or

Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel

H501° is a trademark of the United States Gypsum Company.

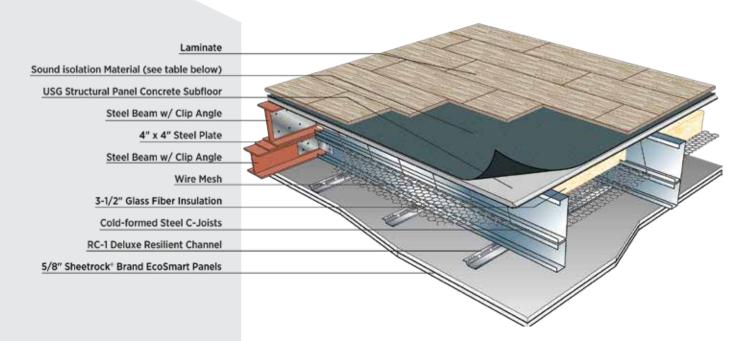
The trademarks USG, FIRECODE, SHEETROCK, the USG logo,

the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a



Laminate2-hour UL® Fire Design H501®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	59	55	K4505.51
PLITEQ GenieMat® RST03	60	56	K4505.52
KINETICS® 5/16" Soundmatt	59	58	K4505.53
PLITEQ GenieMat® RST05	59	58	K4505.54

FLOOR FRAMING

- USG Structural Panel Concrete Subfloor 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- **C-joists**, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H507* assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

GENIEMAT is a trademark of Pliteq, Inc. KINETICS is a trademark of Kinetics Noise Control, Inc.

The trademarks USG, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of ULL LLC

800 USG.4YOU 800 (874-4968) usg.com/structural

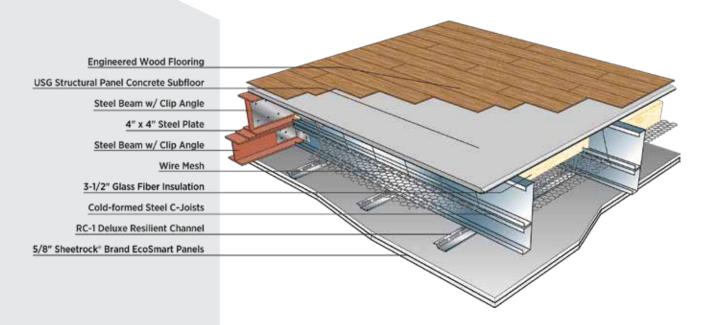
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





1/2" Engineered Wood 2-hour UL® Fire Design H501®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	60	55	K4505.55

FLOOR FRAMING

- USG Structural Panel Concrete Subfloor 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- **C-joists**, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501** assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H501** assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

The trademarks USG, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

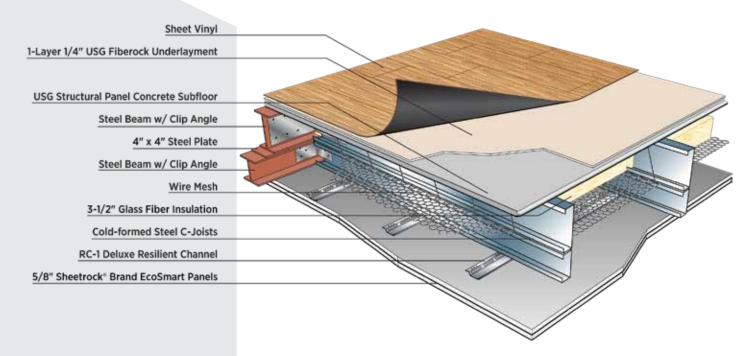
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





Sheet Vinyl 2-hour UL® Fire Design H501®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	60	56	K4505.43

FLOOR FRAMING

- USG Structural Panel Concrete Subfloor 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- **C-joists**, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H501* assembly is not allowed.

H501® is a trademark of the United States Gypsum Company.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

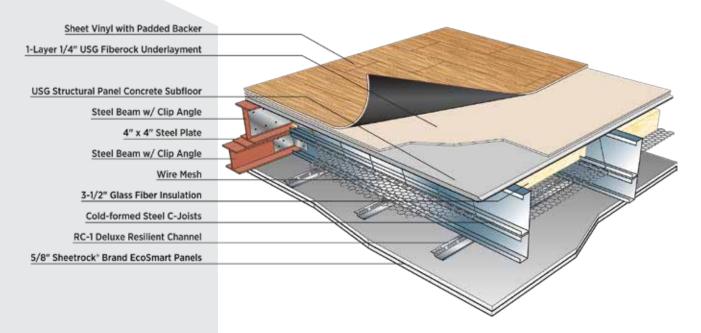
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





Sheet Vinyl with Padded Backer 2-hour UL® Fire Design H501®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	60	57	K4505.44

FLOOR FRAMING

- USG Structural Panel Concrete Subfloor 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- **C-joists**, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H501* assembly is not allowed.

 $\ensuremath{\mathsf{H501}}\xspace^{\circ}$ is a trademark of the United States Gypsum Company.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

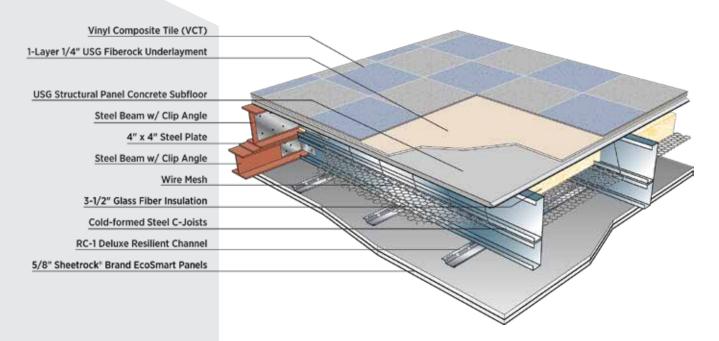
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





Vinyl Composite Tile (VCT) 2-hour UL® Fire Design H501®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	61	57	K4505.45

FLOOR FRAMING

- USG Structural Panel Concrete Subfloor 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H501* assembly is not allowed.

H501® is a trademark of the United States Gypsum Company.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

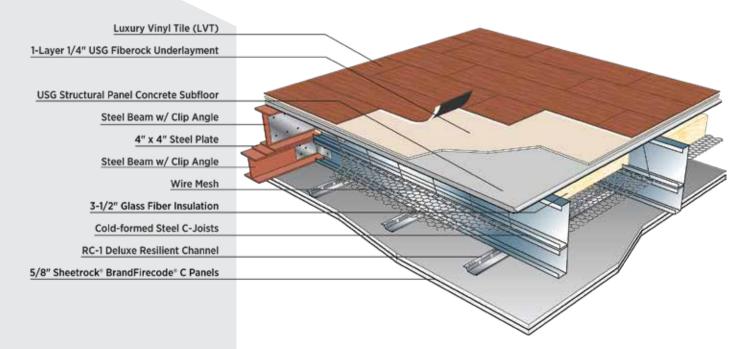
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





Luxury Vinyl Tile (LVT) 2-hour UL[®] Fire Design H501[®]

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	61	57	K4505.46

FLOOR FRAMING

- USG Structural Panel Concrete Subfloor 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H501* assembly is not allowed.

H501® is a trademark of the United States Gypsum Company.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

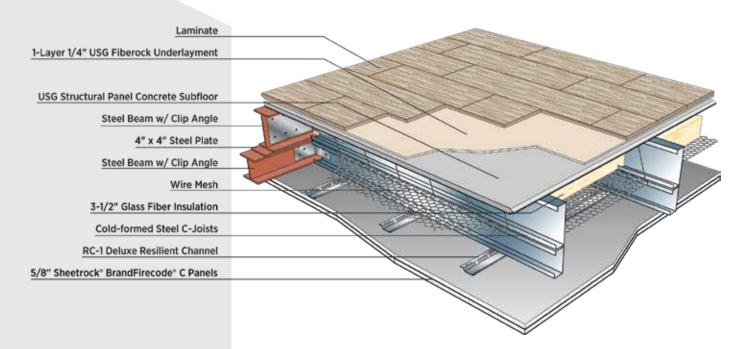
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





Laminate2-hour UL® Fire Design H501®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	60	58	K4505.47

FLOOR FRAMING

- USG Structural Panel Concrete Subfloor 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H501* assembly is not allowed.

H501® is a trademark of the United States Gypsum Company.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

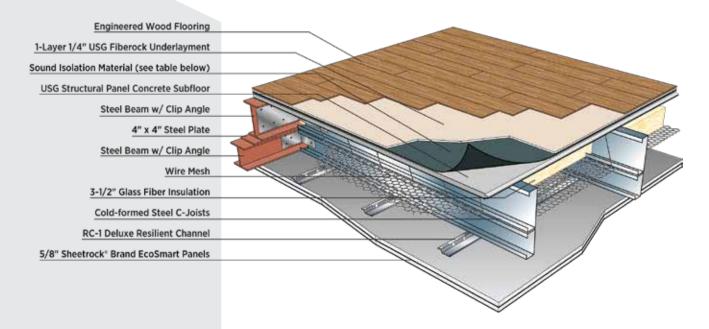
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





1/2" Engineered Wood 2-hour UL® Fire Design H501®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	60	58	K4505.48
PLITEQ GenieMat® RST03	61	61	K4505.56
KINETICS® 5/16" Soundmatt	61	62	K4505.57
PLITEQ GenieMat® RST05	61	63	K4505.58

FLOOR FRAMING

- USG Structural Panel Concrete Subfloor 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12" o.c.

CEILING FRAMING

- **C-joists**, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H507* assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

GENIEMAT is a trademark of Pliteq, Inc. KINETICS is a trademark of Kinetics Noise Control, Inc.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

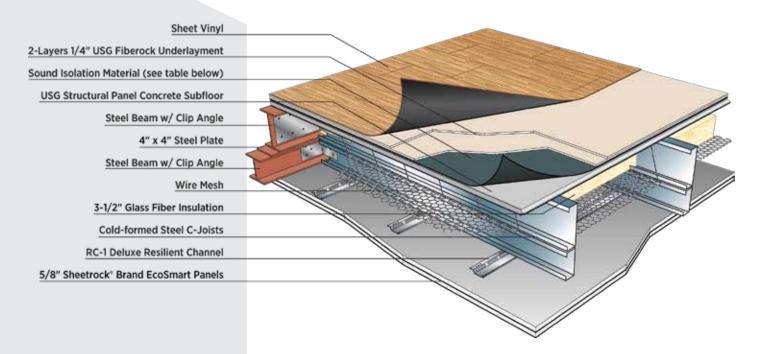
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





Sheet Vinyl 2-hour UL® Fire Design H501®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST03	62	60	K4505.59
KINETICS® 5/16" Soundmatt	62	61	K4505.66
PLITEQ GenieMat® RST05	61	62	K4505.73

FLOOR FRAMING

- USG Structural Panel Concrete Subfloor 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12" o.c.

CEILING FRAMING

- **C-joists**, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H507* assembly is not allowed.

H501® is a trademark of the United States Gypsum Company.

GENIEMAT is a trademark of Pliteq, Inc. KINETICS is a trademark of Kinetics Noise Control, Inc.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

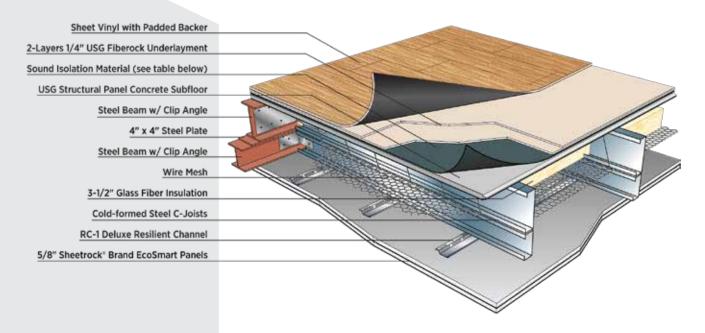
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





Sheet Vinyl with Padded Backer 2-hour UL® **Fire Design H501**®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST03	61	62	K4505.60
KINETICS® 5/16" Soundmatt	61	62	K4505.67
PLITEQ GenieMat® RST05	61	63	K4505.74

FLOOR FRAMING

- USG Structural Panel Concrete Subfloor 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12" o.c.

CEILING FRAMING

- **C-joists**, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H507* assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

GENIEMAT is a trademark of Pliteq, Inc. KINETICS is a trademark of Kinetics Noise Control, Inc.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

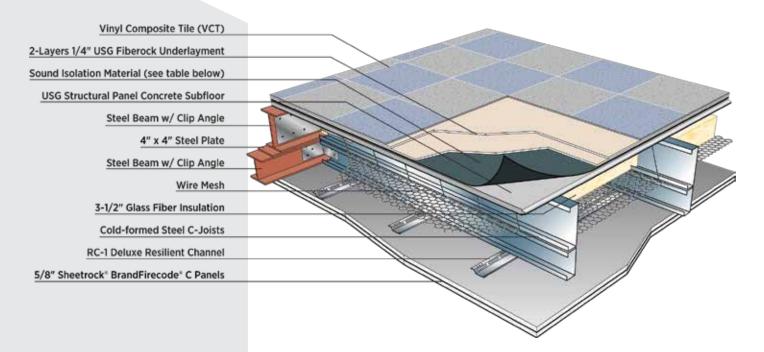
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





Vinyl Composite Tile (VCT) 2-hour UL® Fire Design H501®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST03	62	61	K4505.61
KINETICS® 5/16" Soundmatt	62	62	K4505.68
PLITEQ GenieMat® RST05	61	63	K4505.75

FLOOR FRAMING

- USG Structural Panel Concrete Subfloor 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12" o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H507* assembly is not allowed.

H501® is a trademark of the United States Gypsum Company.

GENIEMAT is a trademark of Pliteq, Inc. KINETICS is a trademark of Kinetics Noise Control, Inc.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

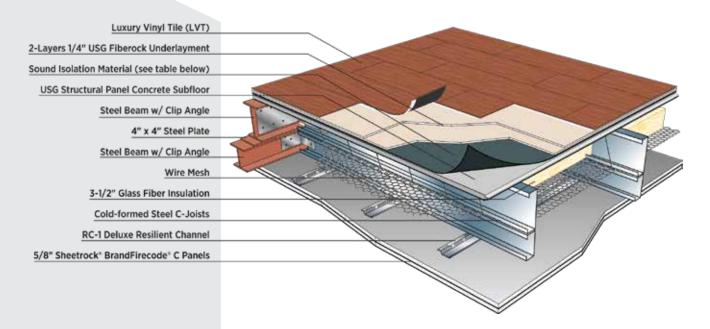
800 USG.4YOU 800 (874-4968) usg.com/structural

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



Luxury Vinyl Tile (LVT) 2-hour UL® Fire Design H501®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST03	62	61	K4505.62
KINETICS® 5/16" Soundmatt	62	62	K4505.69
PLITEQ GenieMat® RST05	61	62	K4505.76

FLOOR FRAMING

- USG Structural Panel Concrete Subfloor 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12" o.c.

CEILING FRAMING

- **C-joists**, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H507* assembly is not allowed.

H501® is a trademark of the United States Gypsum Company

GENIEMAT is a trademark of Pliteq, Inc. KINETICS is a trademark of Kinetics Noise Control, Inc.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

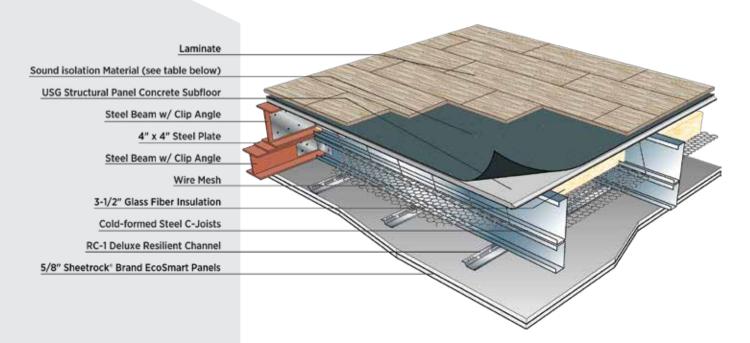
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





Laminate 2-hour UL® Fire Design H501®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST03	61	61	K4505.63
KINETICS® 5/16" Soundmatt	61	61	K4505.70
PLITEQ GenieMat® RST05	60	62	K4505.77

FLOOR FRAMING

- USG Structural Panel Concrete Subfloor 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H507* assembly is not allowed.

 $\ensuremath{\mathsf{H501}}\xspace^\circ$ is a trademark of the United States Gypsum Company.

GENIEMAT is a trademark of Pliteq, Inc. KINETICS is a trademark of Kinetics Noise Control, Inc.

The trademarks USG, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UI LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

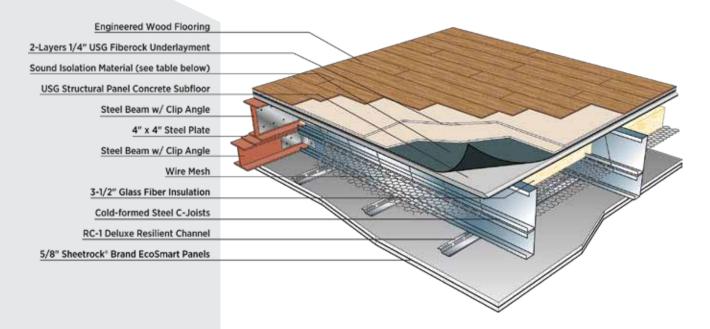
Manufactured for United States Gypsum Company 550 West Adams Street Chicago, IL 60661





1/2" Engineered Wood 2-hour UL® Fire Design H501®

www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST03	61	65	K4505.64
KINETICS® 5/16" Soundmatt	62	63	K4505.71
PLITEQ GenieMat® RST05	61	65	K4505.78

FLOOR FRAMING

- USG Structural Panel Concrete Subfloor 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- **C-joists**, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H507* assembly is not allowed.

H501® is a trademark of the United States Gypsum Company.

GENIEMAT is a trademark of Pliteq, Inc. KINETICS is a trademark of Kinetics Noise Control, Inc.

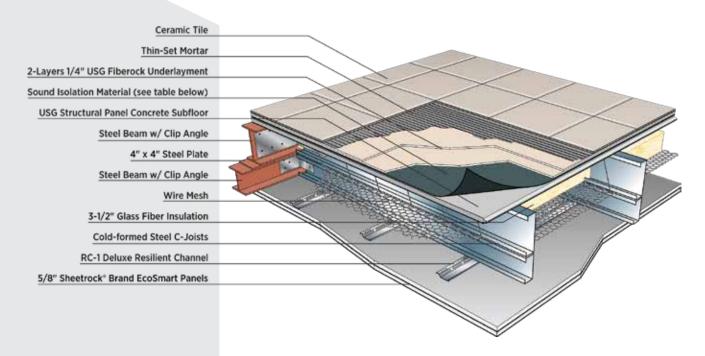
The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

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



www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST03	61	61	K4505.65
KINETICS® 5/16" Soundmatt	62	62	K4505.72
PLITEQ GenieMat® RST05	61	61	K4505.79

FLOOR FRAMING

- USG Structural Panel Concrete Subfloor 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12" o.c.

CEILING FRAMING

- **C-joists**, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H507* assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

GENIEMAT is a trademark of Pliteq, Inc. KINETICS is a trademark of Kinetics Noise Control, Inc.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

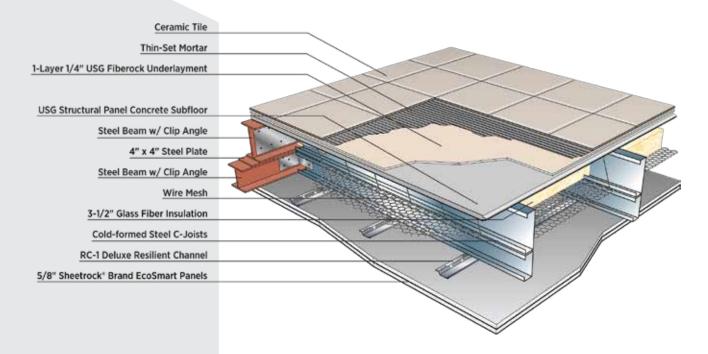
800 USG.4YOU 800 (874-4968) usg.com/structural

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





www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	61	55	K4505.50

FLOOR FRAMING

- USG Structural Panel Concrete Subfloor 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H501® assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

The trademarks USG, FIBEROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

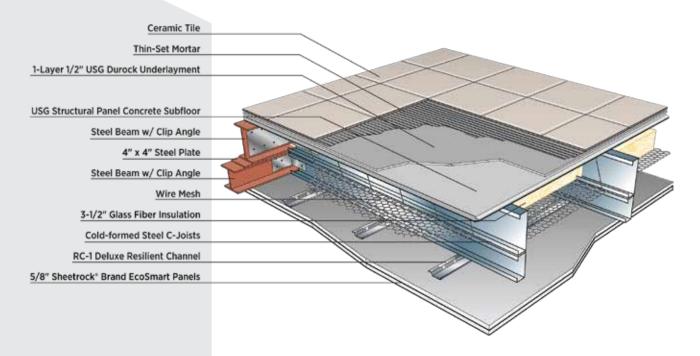
800 USG.4YOU 800 (874-4968) usg.com/structural

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





www.ULH501.com



Sound Isolation Material	STC	IIC	USG Design No.
No Sound Mat	61	57	K4505.49

FLOOR FRAMING

- USG Structural Panel Concrete Subfloor 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. 6" deep, min. 1-5/8" wide flanges, min. 68 mil. (14 gauge), spaced max. 24"o.c.
- Glass Fiber Insulation, 3-1/2" thick, fit into the framing cavity supported by 2" strapping spaced 12"o.c.

CEILING FRAMING

- C-joists, min. 4" deep, min. 1-5/8" wide flanges, min. 54 mil. (16 gauge), spaced max. 24"o.c.
- 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®-H501® design for all options and specific details (www.ULH501.com)

Return to INDEX



The acoustic values published in this manual are for the USG Structural Panel Concrete Subfloor, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. The H501* assembly is protected by U.S. Patent No. 10,066,390. Substitution of any other panel into the H501® assembly is not allowed.

H501° is a trademark of the United States Gypsum Company.

The trademarks USG, DUROCK, FIRECODE, SHEETROCK, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates. UL is a trademark of UL LLC.

800 USG.4YOU 800 (874-4968) usg.com/structural

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

