

USG LEVELROCK® Brand
SAM-ULTRA™

K® Brand

USG LEVELROCK® BRAND SOUND SYSTEMS

FIRE & SOUND RATING GUIDE

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SPECIFY SAFE AND SOUND

Designing assemblies requires a balance between acoustic separation and fire protection – both elements are essential for occupant safety and comfort and to prevent owner and builder liability. Insulation thickness, placement in the cavity, and resilient channel spacing must all conform to the limits specified in the UL Design.

USG products and systems were the first to ensure that all sound systems are fire-rated and easily specified by a UL Design number. All USG 1- and 2-hour rated floor assemblies are designed to meet the current International Building Code (IBC) and feature USG Levelrock® Brand Floor Underlayments and Sound Attenuation Products.

This fire and sound brochure provides you with test data to over 300 floor-ceiling assemblies. Tested floor systems include wood I-joists, steel joists, concrete and mass timber. All tests were conducted and all reports were issued by a third-party lab. Sound test reports are available upon request.



TABLE OF CONTENTS

UL Designs, Fire and Sound-Rated Assemblies

4	Open Web Wood Truss	9	Steel Truss	15	Mass Plywood Panel (MPP)
5	Engineered Wood I-Joist	10	Concrete	15	Dowel-Laminated Timber (DLT)
7	Dimensional Wood Joist	11	Hollow Core Plank		
8	Steel Joist	12	3-Ply Cross-Laminated Timber (CLT)		
		13	5-Ply Cross-Laminated Timber (CLT)		

DESIGNS FOR OPEN WEB WOOD TRUSS



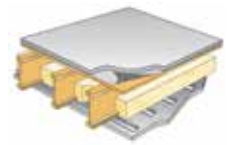
UL Fire Ratings	Truss Depth	Insulation	Resilient Channel**	Drywall Ceiling	Min. Depth Levelrock® 2500	Encapsulated SAM Sound Mat	Floor Covering	Sound Rating			
								STC	IIC	HIIC	Sound Test Number
1-HOUR L521 L528 L529 L534 L542 L546 L550 L558 L562 L563 L574 L576 L585 L592 M503 M508	18 in. (457 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	3/4 in. (19 mm)	SAM-N12 1/8 in. (3 mm) mat	Bare	60	53	53	R5772.05
							Carpet & Pad	58	75	91	M4431.05
							Engineered Hardwood	58	55	61	M4431.04
							LVT 2 mm	60	54	55	R7447.02
							LVT 5.5 mm w/integrated pad	60	59	68	R5772.07
							LVT 6.5 mm w/integrated pad	60	59	69	R5772.06
							Ceramic Tile	59	54	56	K8181.05
							18 in. (457 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	3/4 in. (19 mm)
	Carpet & Pad	60	76	91	N4907.05						
	Engineered Hardwood	61	57	64	N4907.04						
LVT 2 mm	61	55	57	N4907.02							
LVT 3 mm w/integrated pad	60	59	70	R5772.04							
LVT 6.5 mm w/integrated pad	60	59	72	R5772.02							
18 in. (457 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1 in. (25.4 mm)	SAM-N25 1/4 in. (6.4 mm) mat	Bare	60	55	55	S2564.01**	
						Carpet & Pad	62	80		USG090402	
						Engineered Hardwood	60	58	62	M4430.04	
						LVT 2 mm	60	56	57	S2564.02**	
						LVT 4.4 mm w/integrated pad	60	58	68	S2564.03**	
						LVT 6.5 mm w/integrated pad	60	57	68	M4430.03	
18 in. (457 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1 in. (25.4 mm)	SAM-N25 Ultra 5/16 in. (7.9 mm) mat	Bare	60	57	59	S2549.01**	
						Carpet & Pad	63	80	93	F6872.06	
						Engineered Hardwood	62	58	63	F6872.05	
						LVT 2 mm	63	58	60	F6872.02	
						LVT 4.4 mm w/integrated pad	60	60	70	S2549.03**	
						LVT 6.5 mm w/integrated pad	63	58	62	F6872.03	
18 in. (457 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1 in. (25.4 mm)	SAM-N40 3/8 in. (10 mm) mat	Bare	60	56	58	T4139.01	
						Carpet & Pad	60	81	92	T4139.06	
						Engineered Hardwood	60	59	69	T4139.04	
						LVT 2 mm	60	56	60	T4139.02	
						LVT 4.4 mm w/integrated pad	60	58	72	T4139.03	
						LVT 6.5 mm w/integrated pad	61	56	70	M0447.02	
18 in. (457 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1 in. (25.4 mm)	SAM-N40 Ultra 7/16 in. (11 mm) mat	Bare	60	57	57	R0063.01	
						Carpet & Pad	58	82	92	G4826.06	
						Engineered Hardwood	60	63	67	H4919.02*	
						LVT 2 mm	60	57	60	R0063.02	
						LVT 4.4 mm w/integrated pad	60	59	72	R0063.03	
						LVT 6.5 mm w/integrated pad	61	57	60	G9863.02	
18 in. (457 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1-1/2 in. (38.1 mm)	SAM-N75 3/4 in. (19 mm) mat	Bare	63	57	58	F0778.07	
						Carpet & Pad	61	78	90	F0778.09	
						Engineered Hardwood	62	60	72	F0778.08	
						LVT 3.1 mm	62	59	61	F0778.10	
						Ceramic Tile	61	60	63	F0778.12	
						18 in. (457 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1-1/2 in. (38.1 mm)	SAM-N75 Ultra 11/16 in. (17 mm) mat
Engineered Hardwood	61	60	66	H4154.02*							
LVT 6.5 mm w/integrated pad	61	60	64	H4154.03*							
2-HOUR M521	18 in. (457 mm)	3-1/2 in. (89 mm) batt	12 in. (305 mm) o.c.	2 layers 5/8 in. (15.9 mm) Type X with 6 in. board batton strip	1 in. (25.4 mm)	SAM-N40 3/8 in. (10 mm) mat	Bare	55		101256027CRT-002a	
							LVT 4.4 mm		56	101256027CRT-001b	
							Ceramic Tile		54	101256027CRT-001d	

NOTES

* STC and IIC are based on modified ASTM E90 and E492.

** Tested using a high-performing resilient channel having an elongated dog-bone shaped slot.

DESIGNS FOR ENGINEERED WOOD I-JOIST



UL Fire Ratings	Joist Depth	Insulation	Resilient Channel**	Drywall Ceiling	Min. Depth Levelrock® 2500	Encapsulated SAM Sound Mat	Floor Covering	Sound Rating			
								STC	IIC	HIIC	Sound Test Number
1-HOUR L570 L589 M502 M506 M532 M535	11-7/8 in. - 12 in. (302 mm - 305 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	2 layers 5/8 in. (15.9 mm) Type X	3/4 in. (19 mm)	SAM-N12 1/8 in. (3 mm) mat	Bare	61	51	49	S2550.01
							Carpet & Pad		80		100528151CRT-001u
							Engineered Hardwood	62	59	61	S2550.04
							LVT 2 mm	61	55	55	S2550.02
							LVT 4.4 mm w/integrated pad	61	59	67	S2550.03
							LVT 2 mm w/1.5 mm topical mat	61	60	65	S2550.06
							LVT 5 mm w/1.5 mm topical mat	61	61	70	S2550.08
	Ceramic Tile	63	58	61	S2550.05						
	11-7/8 in. - 12 in. (302 mm - 305 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	2 layers 5/8 in. (15.9 mm) Type X	3/4 in. (19 mm)	SAM-N12 1/8 in. (3 mm) mat	Bare	64	56	55	S2565.01
							LVT 2 mm	63	58	58	S2565.02
LVT 4.4 mm w/integrated pad							63	60	70	S2565.03	
Ceramic Tile	64	60	61	S2565.04							
11-7/8 in. - 12 in. (302 mm - 305 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	2 layers 5/8 in. (15.9 mm) Type X	3/4 in. (19 mm)	SAM-N12 Ultra 3/16 in. (5 mm) mat	Bare	62	54	53	R0057.01	
						Carpet & Pad	58	76	86	K8184.06*	
						Engineered Hardwood	61	61	69	F2586.10*	
						LVT 2 mm	62	57	57	R0057.02	
						LVT 4.4 mm w/integrated pad	62	60	69	R0057.03	
						Ceramic Tile	57	54	52	K8184.07*	
11-7/8 in. - 12 in. (302 mm - 305 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	2 layers 5/8 in. (15.9 mm) Type X	1 in. (25.4 mm)	SAM-N25 1/4 in. (6.4 mm) mat	Bare	63	50	48	Q0474.01	
						Carpet & Pad	60	74	93	I5788.05	
						Engineered Hardwood	63	58	62	Q0474.29	
						LVT 2 mm	62	53	52	Q0474.02	
						LVT 4.4 mm w/integrated pad	63	58	69	Q0474.03	
						LVT 6.5 mm w/integrated pad	62	57	63	Q0474.04	
Ceramic Tile	62	56	58	I5788.06							
11-7/8 in. - 12 in. (302 mm - 305 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	2 layers 5/8 in. (15.9 mm) Type X	1 in. (25.4 mm)	SAM-N25 Ultra 5/16 in. (7.9 mm) mat	Bare	62	54	53	R0058.01	
						Carpet & Pad	62	76	90	E6762.05	
						Engineered Hardwood	62	60	66	E6762.03	
						LVT 2 mm	62	58	58	R0058.02	
						LVT 4.4 mm w/integrated pad	62	61	68	R0058.-03	
11-7/8 in. - 12 in. (302 mm - 305 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	2 layers 5/8 in. (15.9 mm) Type X or Type C	1 in. (25.4 mm)	SAM-N40 3/8 in. (10 mm) mat	Bare	62	51	49	P8707.01	
						Carpet & Pad	61	81		G4828.06***	
						Engineered Hardwood	61	62		G4828.04***	
						LVT 2 mm	62	55	55	P8707.02	
						LVT 4.4 mm w/integrated pad	63	60	67	P8707.03	
						Ceramic Tile	62	60		G4828.05***	
11-7/8 in. - 12 in. (302 mm - 305 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	2 layers 5/8 in. (15.9 mm) Type X or Type C	1 in. (25.4 mm)	SAM-N40 Ultra 7/16 in. (11 mm) mat	Bare	62	56	55	G9865.01***	
						Carpet & Pad	61	81	89	G9865.06***	
						Engineered Hardwood	61	61	68	G9865.04***	
						LVT 2 mm	62	57	57	P8706.02	
						LVT 5 mm w/integrated pad	63	60	72	P8706.07	
						LVT 6.5 mm w/integrated pad	63	60	69	P8706.04	
						Ceramic Tile	61	61	65	G9865.05***	
11-7/8 in. - 12 in. (302 mm - 305 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	2 layers 5/8 in. (15.9 mm) Type X	1-1/2 in. (38.1 mm)	SAM-N75 3/4 in. (19 mm) mat	Bare	61	53	53	F0780.01	
						Carpet & Pad	62	82	84	F0780.03	
						Engineered Hardwood	61	59	68	F0780.02	
						LVT 3.1 mm	62	56	57	F0780.04	
						Ceramic Tile	62	58	60	F0780.06	
11-7/8 in. - 12 in. (302 mm - 305 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	2 layers 5/8 in. (15.9 mm) Type X	1-1/2 in. (38.1 mm)	SAM-N75 Ultra 11/16 in. (17 mm) mat	Bare	63	51	50	Q0475.01	
						Carpet & Pad	58	82	87	K8184.06*	
						Engineered Hardwood	63	61	66	Q0475.05	
						LVT 2 mm	62	57	56	Q0475.02	
						LVT 4.4 mm w/integrated pad	63	62	71	Q0475.03	
						LVT 6.5 mm w/integrated pad	63	61	68	Q0475.04	
						Ceramic Tile	62	62	64	I5790.05*	
14 in. (355 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	2 layers 5/8 in. (15.9 mm) Type X	1 in. (25.4 mm)	SAM-N25 1/4 in. (6.4 mm) mat	Bare	60	48	46	P8708.01	
						Engineered Hardwood	60	58	60	P8708.06	
						LVT 2 mm	59	53	52	P8708.02	
						LVT 4.4 mm w/integrated pad	60	57	65	P8708.03	
						LVT 6.5 mm w/integrated pad	60	58	65	P8708.04	
14 in. (355 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	2 layers 5/8 in. (15.9 mm) Type X	1 in. (25.4 mm)	SAM-N25 Ultra 5/16 in. (7.9 mm) mat	Bare	59	50	48	Q0476.01	
						Engineered Hardwood	60	59	63	Q0476.05	
						LVT 2 mm	59	55	55	Q0476.02	
						LVT 4.4 mm w/integrated pad	60	59	69	Q0476.03	
						LVT 6.5 mm w/integrated pad	60	59	64	Q0476.04	

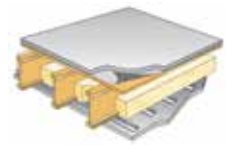
NOTES

* STC and IIC are based on modified ASTM E90 and E492.

** Tested using a high-performing resilient channel having an elongated dog-bone shaped slot.

*** 2 layers of Type C wall board

DESIGNS FOR ENGINEERED WOOD I-JOIST CONT.



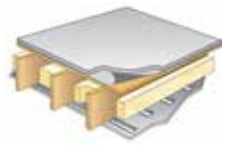
UL Fire Ratings	Joist Depth	Insulation	Resilient Channel**	Drywall Ceiling	Min. Depth Levelrock® 2500	Encapsulated SAM Sound Mat	Floor Covering	Sound Rating			
								STC	IIC	HIIC	Sound Test Number
2-HOUR I512	11-7/8 in. (302 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	USG Drywall Suspension System (DWSS Pro)	1 in. (25.4 mm)	SAM-N25 1/4 in. (6.4 mm) mat	Bare	61	57	58	P0428.01
							Carpet & Pad	61	87	93	P0428.05
							Engineered Hardwood	61	60	65	P0428.04
							LVT 2 mm	61	58	59	P0428.02
							LVT 6.5 mm w/integrated pad	61	61	71	P0428.03
							Ceramic Tile	61	58	61	P0428.06
	11-7/8 in. (302 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	USG Drywall Suspension System (DWSS Pro)	1 in. (25.4 mm)	SAM-N25 Ultra 5/16 in. (7.9 mm) mat	Bare	62	57	59	N7707.01
							Carpet & Pad	61	82	88	N7707.05
							Engineered Hardwood	61	60	66	N7707.04
							LVT 2 mm	61	58	60	N7707.02
ESR-1153 Assembly F	11-7/8 in. (302 mm)	1-1/2 in. (38.1 mm) mineral wool	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1 in. (25.4 mm)	SAM-N12 1/8 in. (3 mm) mat	Carpet & Pad	58	63	90	H6700.06*
							Engineered Hardwood	59	53	53	H6700.03*
							LVT 6.5 mm w/integrated pad	58	50	49	H6700.02*
							Ceramic Tile	59	53	53	H6700.05*
	11-7/8 in. (302 mm)	1-1/2 in. (38.1 mm) mineral wool	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1 in. (25.4 mm)	SAM-N25 1/4 in. (6.4 mm) mat	Carpet & Pad	58	63	90	H6700.06*
							Engineered Hardwood	59	53	54	H6700.03*
							LVT 6.5 mm w/integrated pad	58	51	50	H6700.02*
							Ceramic Tile	59	54	56	H6700.05*
	11-7/8 in. (302 mm)	1-1/2 in. (38.1 mm) mineral wool	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1 in. (25.4 mm)	SAM-N25 Ultra 5/16 in. (7.9 mm) mat	Carpet & Pad	58	65	91	H6700.06*
							Engineered Hardwood	59	61	64	H6700.03*
LVT 6.5 mm w/integrated pad							58	53	52	H6700.02*	
Ceramic Tile							59	55	57	H6700.05*	
11-7/8 in. (302 mm)	1-1/2 in. (38.1 mm) mineral wool	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1 in. (25.4 mm)	SAM-N40 3/8 in. (10 mm) mat	Carpet & Pad	58	66	90	H6700.06*	
						Engineered Hardwood	59	53	55	H6700.03*	
						LVT 6.5 mm w/integrated pad	58	51	51	H6700.02*	
						Ceramic Tile	59	53	54	H6700.05*	

NOTES

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** Tested using a high-performing resilient channel having an elongated dog-bone shaped slot.

DESIGNS FOR DIMENSIONAL WOOD JOIST



UL Fire Ratings	Joist Depth	Insulation	Resilient Channel**	Drywall Ceiling	Min. Depth Levelrock® 2500	Encapsulated SAM Sound Mat	Floor Covering	Sound Rating			
								STC	IIC	HIIC	Sound Test Number
1-HOUR L502 L515 L533 L545 L569 L590	2 in. x 10 in. (51 mm x 254 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	3/4 in. (19 mm)	SAM-N12 1/8 in. (3 mm) mat	Bare	60	48	49	S4349.01
							Carpet & Pad		75		10052815ICRT-001cb5
							Engineered Hardwood		54		10052815ICRT-001cb4
							Ceramic Tile		51		10052815ICRT-001cb6
							LVT 2 mm	60	51	53	S4349.02
							LVT 4.4 mm w/integrated pad	61	51	66	S4349.03
	2 in. x 10 in. (51 mm x 254 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	3/4 in. (19 mm)	SAM-N12 Ultra 3/16 in. (5 mm) mat	Bare	59	50	49	N4906.01
							Carpet & Pad	60	76	91	N4906.05
							Engineered Hardwood	59	54	60	N4906.04
							LVT 2 mm	60	52	53	N4906.02
							LVT 6.5 mm w/integrated pad	60	54	65	N4906.03
							Ceramic Tile	58	54	56	N4906.06
	2 in. x 10 in. (51 mm x 254 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1 in. (25.4 mm)	SAM-N25 1/4 in. (6.4 mm) mat	Bare	60	50	48	R0059.01
							Carpet & Pad	59	80	90	R0059.10
							Carpet Tile	59	57	69	R0059.08
							Carpet Tile w/felt backing	59	57	84	R0059.09
							Engineered Hardwood		55		10052815ICRT-001a6
							LVT 2 mm	59	52	53	R0059.02
							LVT 4.4 mm w/integrated pad	59	53	61	R0059.03
							LVT 5 mm	59	55	59	R0059.06
							Ceramic Tile		50		10052815ICRT-001a7
							2 in. x 10 in. (51 mm x 254 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1 in. (25.4 mm)
	Carpet & Pad	61	76	91	F6871.06						
	Engineered Hardwood	60	57	62	H1195.02*						
LVT 2 mm	60	53	52	R0060.02							
LVT 4.4 mm w/integrated pad	60	56	66	R0060.03							
Ceramic Tile	62	53	55	F6871.07							
2 in. x 10 in. (51 mm x 254 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1 in. (25.4 mm)	SAM-N40 3/8 in. (10 mm) mat	Bare	62	49	49	S4350.01	
						Carpet & Pad	60	73	87	F0779.03	
						Engineered Hardwood	60	55	65	F0779.02	
						LVT 3.1 mm	60	52	52	F0779.04	
						LVT 2 mm	61	52	56	S4350.02	
						LVT 4.4 mm w/integrated pad	63	53	67	S4350.03	
						Ceramic Tile		55		10052815ICRT-001d7	
2 in. x 10 in. (51 mm x 254 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1 in. (25.4 mm)	SAM-N40 Ultra 7/16 in. (11 mm) mat	Bare	61	51	51	G9864.01	
						Carpet & Pad	61	81	88	G9864.06	
						Engineered Hardwood	61	57	64	G9864.04	
						LVT 2 mm	61	53	51	P8711.02	
						LVT 4.4 mm w/integrated pad	61	54	63	P8711.03	
						LVT 6.5 mm w/integrated pad	62	54	61	P8711.05	
						Ceramic Tile	62	56	60	G9864.05	
2 in. x 10 in. (51 mm x 254 mm)	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1-1/2 in. (38.1 mm)	SAM-N75 3/4 in. (19 mm) mat	Bare	60	50	48	Q0477.01	
						Engineered Hardwood	60	56	61	Q0477.05	
						LVT 2 mm	60	53	53	Q0477.02	
						LVT 4.4 mm w/integrated pad	60	57	66	Q0477.03	
						LVT 6.5 mm w/integrated pad	60	56	62	Q0477.04	

NOTES

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** Tested using a high-performing resilient channel having an elongated dog-bone shaped slot.

DESIGNS FOR STEEL JOIST



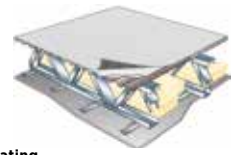
UL Fire Ratings	Steel Joist Depth	Deck Flutes	Insulation	Resilient Channel**	Drywall Ceiling	Min. Depth Levelrock* 2500, CSD, CSD FR	Encapsulated SAM Sound Mat	Floor Covering	Sound Rating			
									STC	IIC	HIIC	Sound Test Number
(1- or 2-HOUR) G551 G564 G591 G559	10 in. (254 mm)	not filled	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1-1/4 in. (32 mm)	SAM-CSD 3/8 in. (10 mm) mat	Carpet & Pad	60	76		E5121.05
								Engineered Hardwood	60	57		E5121.03
								LVT 2 mm	60	52		E5121.02
	10 in. (254 mm)	not filled	3-1/2 in. (89 mm) batt	12 in. (305 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1-3/8 in. (35 mm)	SAM-N12 Ultra 3/16 in. (5 mm) mat	Carpet & Pad	59	82	92	J9384.05*
								Engineered Hardwood	58	58	60	J9384.04*
								LVT 5.5 mm	58	55	55	J9384.02*
								LVT 6.8 mm w/integrated pad	58	59	67	J9384.03*
								Ceramic Tile	59	54	54	J9384.06*
	10 in. (254 mm)	filled	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1 in. (25.4 mm)	SAM-N25 1/4 in. (6.4 mm) mat	Carpet & Pad	59	82	92	H4923.03
								Engineered Hardwood	59	54	55	H4923.06
								LVT 6.5 mm w/integrated pad	59	53	54	H4923.04
								Ceramic Tile	60	52	51	H4923.05
	10 in. (254 mm)	not filled	3-1/2 in. (89 mm) batt	12 in. (305 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1-3/8 in. (35 mm)	SAM-N25 Ultra 5/16 in. (7.9 mm) mat	Bare	59	45	45	J9384.01*
								Carpet & Pad	59	80	90	J9384.05*
								Engineered Hardwood	58	55	57	J9384.04*
								LVT 5.5 mm	58	54	55	J9384.02*
								LVT 6.8 mm w/integrated pad	58	57	67	J9384.03*
								Ceramic Tile	59	54	54	J9384.06*
	10 in. (254 mm)	not filled	3-1/2 in. (89 mm) batt	12 in. (305 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1-3/8 in. (35 mm)	SAM-N40 Ultra 7/16 in. (11 mm) mat	Bare	59	47	48	J9384.01*
								Carpet & Pad	59	79	91	J9384.05*
Engineered Hardwood								58	55	57	J9384.04*	
LVT 5.5 mm								58	55	55	J9384.02*	
LVT 6.8 mm w/integrated pad								58	59	66	J9384.03*	
Ceramic Tile								59	56	55	J9384.06*	

NOTES

* STC and IIC are based on modified ASTM E90 and E492.

** Tested using a high-performing resilient channel having an elongated dog-bone shaped slot.

DESIGNS FOR STEEL TRUSS



UL Fire Ratings	Steel Truss Depth	Deck Flutes	Insulation	Resilient Channel**	Drywall Ceiling	Min. Depth Levelrock* 2500, CSD, CSD FR	Encapsulated SAM Sound Mat	Floor Covering	Sound Rating			
									STC	IIC	HIIC	Sound Test Number
(1- or 2-HOUR) G564	12 in. (305 mm)	not filled	3-1/2 in. (89 mm) batt	12 in. (305 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1-3/8 in. (35 mm)	SAM-CSD 3/8 in. (10 mm) mat	Bare	61	46		E2866.01
								Carpet & Pad	62	77		E2866.06
								Engineered Hardwood	61	57		E2866.02
								LVT 2 mm	62	51		E2866.05
	14 in. (356 mm)	not filled	3-1/2 in. (89 mm) batt	12 in. (305 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1-3/8 in. (35 mm)	SAM-N12 Ultra 3/16 in. (5 mm) mat	Bare	57	49	48	M5788.01*
								Carpet & Pad	57	86	93	M5788.05*
								Engineered Hardwood	56	59	61	M5788.04*
								LVT 2 mm	57	54	52	M5788.02*
								LVT 6.5 mm w/integrated pad	56	58	65	M5788.03*
	12 in. (305 mm)	filled	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1 in. (25.4 mm)	SAM-N25 1/4 in. (6.4 mm) mat	Carpet & Pad	59	79	94	G4830.06
								Engineered Hardwood	60	53	55	G4830.04
								LVT 6.5 mm w/integrated pad	59	50	49	G4830.02
								Ceramic Tile	61	54	56	G4830.05
	12 in. (305 mm)	filled	3-1/2 in. (89 mm) batt	12 in. (305 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1 in. (25.4 mm)	SAM-N25 Ultra 5/16 in. (7.9 mm) mat	Bare	57	55	55	I5797.01
								Carpet & Pad	56	75	90	I5797.06
								Engineered Hardwood	58	58	64	I5797.05
								LVT 5.5 mm	57	59	69	I5797.02
								LVT 6.8 mm w/integrated pad	57	57	67	I5797.03
	14 in. (356 mm)	not filled	3-1/2 in. (89 mm) batt	12 in. (305 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1-3/8 in. (35 mm)	SAM-N25 Ultra 5/16 in. (7.9 mm) mat	Bare	57	51	50	M5788.01*
								Carpet & Pad	57	85	93	M5788.05*
								Engineered Hardwood	56	58	59	M5788.04*
								LVT 2 mm	57	55	54	M5788.02*
								LVT 6.5 mm w/integrated pad	56	60	66	M5788.03*
	18 in. (457 mm)	not filled	3-1/2 in. (89 mm) batt	12 in. (305 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1-3/8 in. (35 mm)	SAM-N25 Ultra 5/16 in. (7.9 mm) mat	Bare	57	50	48	P8709.01
								Engineered Hardwood	58	59	60	P8709.06
								LVT 2 mm	57	54	53	P8709.02
								LVT 4.4 mm w/integrated pad	58	59	68	P8709.03
	12 in. (305 mm)	filled	3-1/2 in. (89 mm) batt	16 in. (400 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1 in. (25.4 mm)	SAM-N40 3/8 in. (10 mm) mat	Bare	62	51	50	F5761.01
Carpet & Pad								62	80	91	F5761.06	
Engineered Hardwood								63	56	62	F5761.05	
LVT 2 mm								62	53	54	F5761.02	
LVT 6.5 mm w/integrated pad								62	55	60	F5761.03	
14 in. (356 mm)	not filled	3-1/2 in. (89 mm) batt	12 in. (305 mm) o.c.	1 layer 5/8 in. (15.9 mm) Type C	1-1/2 in. (38.1 mm)	SAM-N75 Ultra 11/16 in. (17 mm) mat	Bare	57	54	53	M5788.01*	
							Carpet & Pad	57	84	92	M5788.05*	
							Engineered Hardwood	56	61	63	M5788.04*	
							LVT 2 mm	57	57	56	M5788.02*	
							LVT 6.5 mm w/integrated pad	56	61	66	M5788.03*	
Ceramic Tile	57	60	60	M5788.06*								

NOTES

* STC and IIC are based on modified ASTM E90 and E492.

** Tested using a high-performing resilient channel having an elongated dog-bone shaped slot.

DESIGNS FOR CONCRETE

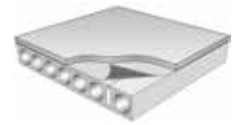


UL Fire Ratings	Concrete Depth	Insulation	Resilient Channel	Drywall Ceiling	Min. Depth Levelrock® 2500	Encapsulated SAM Sound Mat	Floor Covering	Sound Rating			
								STC	IIC	HIIC	Sound Test Number
Prescriptive	6 in. (152 mm)	N/A	N/A	N/A	3/4 in. (19 mm)	SAM-N12 1/8 in. (3 mm) mat	Bare	54	43	42	S2551.01
							LVT 4.4 mm w/integrated pad	54	51	58	S2551.03
	6 in. (152 mm)	N/A	N/A	N/A	3/4 in. (19 mm)	SAM-N12 Ultra 3/16 in. (5 mm) mat	Bare	54	51	53	S2552.01
							Carpet & Pad	52	84	88	K8183.05*
							Engineered Hardwood	55	52	62	S2552.04
							LVT 2 mm	55	52	58	S2552.02
							LVT 4.4 mm w/integrated pad	55	52	70	S2552.03
							LVT 6.8 mm w/integrated pad	51	53	74	K8183.03*
							Ceramic Tile	55	53	61	S2552.05
	8 in. (203 mm)	N/A	N/A	N/A	3/4 in. (19 mm)	SAM-N12 1/8 in. (3 mm) mat	Bare	55	52	54	J4755.01*
							Carpet & Pad	55	89	89	J4755.07*
							Engineered Hardwood	53	55		H6882.02*
							LVT 5.5 mm	55	52	56	J4755.02*
							LVT 6.5 mm w/integrated pad	54	57	65	J4755.04*
							Ceramic Tile	56	53	56	J4755.08*
	8 in. (203 mm)	N/A	N/A	N/A	1 in. (25.4 mm)	SAM-N12 Ultra 3/16 in. (5 mm) mat	Bare	55	53	64	J4755.01*
							Engineered Hardwood	55	53	70	J4755.06*
							LVT 5.5 mm	55	54	70	J4755.02*
							Ceramic Tile	56	55	67	J4755.08*
	8 in. (203 mm)	N/A	N/A	N/A	1 in. (25.4 mm)	SAM-N25 1/4 in. (6.4 mm) mat	Bare	55	52	54	J4755.01*
							Engineered Hardwood	55	53	61	J4755.06*
							LVT 5.5 mm	55	53	60	J4755.02*
							Ceramic Tile	56	53	60	J4755.08*
	8 in. (203 mm)	N/A	N/A	N/A	1 in. (25.4 mm)	SAM-N25 Ultra 5/16 in. (7.9 mm) mat	Bare	55	56	58	J4755.01*
Carpet & Pad							55	88	92	J4755.07*	
Engineered Hardwood							55	55	73	J4755.06*	
LVT 5.5 mm							55	55	72	J4755.02*	
LVT 6.5 mm w/integrated pad							54	56	81	J4755.04*	
Ceramic Tile							56	56	68	J4755.08*	

NOTES

* STC and IIC are based on modified ASTM E90 and E492.

DESIGNS FOR HOLLOW CORE PLANK

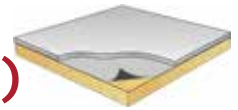


UL Fire Ratings	Precast Hollow Core Plank	Insulation	Resilient Channel	Drywall Ceiling	Min. Depth Levelrock® 2500	Encapsulated SAM Sound Mat	Floor Covering	Sound Rating			
								STC	IIC	HIIC	Sound Test Number
(1- or 2-HOUR) J905 J917 J919 J920 J924 J927 J931 J957 J958 J991 J994	8 in. (203 mm)	N/A	N/A	N/A	3/4 in. (19 mm)	N/A	Carpet Tile	52	59	63	R7871.10
							LVT 2.5 mm w/1.5 mm topical mat	52	56	58	R7871.03
							LVT 4.4 mm w/integrated pad	52	57	61	R7871.01
							LVT 5 mm w/integrated pad	53	57	60	R7871.07
	8 in. (203 mm)	N/A	N/A	N/A	3/4 in. (19 mm)	SAM-N12 Ultra 3/16 in. (5 mm) mat	Bare	57	56	58	S4351.01
							Carpet & Pad	56	85	89	J9385.03*
							LVT 2 mm	58	56	65	S4351.02
							LVT 4.4 mm w/integrated pad	57	56	76	S4351.03
							Ceramic Tile	57	56	58	J9385.02*

NOTES

* STC and IIC are based on modified ASTM E90 and E492.

DESIGNS FOR 3-PLY CROSS-LAMINATED TIMBER (CLT)

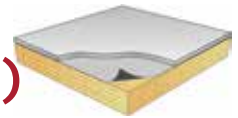


UL Fire Ratings	Wood Deck	Raised Floor	Accessories	Ceiling	Min. Depth Levelrock® 2500	Encapsulated SAM Sound Mat	Floor Covering	Sound Rating			
								STC	IIC	HIIC	Sound Test Number
Prescriptive	3-ply CLT 4.125 in. (104.8 mm)	N/A	N/A	Exposed	2 in. (51 mm)	SAM-N25 Supreme 5/16 in. (8 mm) mat	Bare	51	41	41	R0062.01
							Carpet Tile	50	51	62	R0062.05
							Carpet Tile w/felt backing	50	53	75	R0062.06
							LVT 2 mm	51	42	44	R0062.07
							LVT 4.4 mm w/integrated pad	51	46	56	R0062.04
							LVT 5 mm	51	45	50	R0062.08
							LVT 5 mm w/integrated pad	51	47	60	R0062.12
3-ply CLT 4.125 in. (104.8 mm)	N/A	Topical Mat (5 mm)	Exposed	2 in. (51 mm)	SAM-N25 Supreme 5/16 in. (8 mm) mat	LVT 2 mm	50	47	57	R0062.02	
						LVT 5 mm	50	50	60	R0062.03	
3-ply CLT 4.125 in. (104.8 mm)	N/A	N/A	Dropped Drywall Suspension Ceiling with 3.5 in. of fiber- glass insulation and 1 layer 5/8 in. (15.9 mm) Type X	1 in. (25.4 mm)	SAM-N25 1/4 in. (6.4 mm) mat	Bare	59	59	59	K8179.01*	
						Carpet & Pad	59	85	92	K8179.04*	
						Engineered Hardwood	59	61	66	K8179.03*	
						LVT 5.5 mm	58	61	64	K8179.02*	
						Ceramic Tile	59	63	66	K8179.05*	
3-ply CLT 4.125 in. (104.8 mm)	N/A	N/A	Dropped Drywall Suspension Ceiling with 3.5 in. of fiber- glass insulation and 1 layer 5/8 in. (15.9 mm) Type X	1 in. (25.4 mm)	SAM-N25 Ultra 5/16 in. (7.9 mm) mat	Bare	59	64	67	K8179.01*	
						Carpet & Pad	59	88	92	K8179.04*	
						Engineered Hardwood	59	64	75	K8179.03*	
						LVT 5.5 mm	58	62	74	K8179.02*	
						Ceramic Tile	59	67	71	K8179.05*	
3-ply CLT 4.125 in. (104.8 mm)	N/A	N/A	N/A	2 in. (51 mm)	SAM-N75 Supreme 3/4 in. (18 mm) mat	Bare	55	45	46	S0320.01	
						Carpet Tile	56	55	79	S0320.07	
						LVT 2 mm	56	47	50	S0320.02	
						LVT 4.4 mm w/integrated pad	55	50	58	S0320.05	
						LVT 5 mm	57	49	52	S0320.03	
						LVT 5 mm w/integrated pad	56	51	65	S0320.13	
3-ply CLT 4.125 in. (104.8 mm)	N/A	Topical Mat (5 mm)	N/A	2 in. (51 mm)	SAM-N75 Supreme 3/4 in. (18 mm) mat	LVT 5 mm	55	52	62	S0320.04	
3-ply CLT 4.125 in. (104.8 mm)	N/A	N/A	Exposed	2 in. (51 mm)	SAM-N75 Supreme 3/4 in. (18 mm) mat with 1/4 in. pad installed over sound mat	Bare	56	48	52	T4135.01****	
						Carpet Tile	56	53	75	T4135.06****	
						Carpet Tile w/felt backing	56	55	84	T4135.07****	
						Engineered Hardwood	56	51	61	T4135.05****	
						LVT 2 mm	56	50	56	T4135.02****	
						LVT 4.4 mm w/integrated pad	56	51	68	T4135.04****	

NOTES

* STC and IIC are based on modified ASTM E90 and E492.
**** Contact USG for details.

DESIGNS FOR 5-PLY CROSS-LAMINATED TIMBER (CLT)

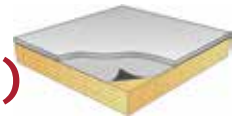


UL Fire Ratings	Wood Deck	Raised Floor	Accessories	Ceiling	Min. Depth Levelrock® 2500	Encapsulated SAM Sound Mat	Floor Covering	Sound Rating			
								STC	IIC	HIIC	Sound Test Number
Prescriptive	5-ply CLT 6.89 in. (175 mm)	N/A	N/A	Exposed	2 in. (51 mm)	SAM-N25 Supreme 5/16 in. (8 mm) mat	Engineered Hardwood	56	50	56	N7706.04
							LVT 5 mm w/integrated pad	56	51	65	P0087.02
							LVT 6.5 mm w/integrated pad	56	53	67	N7706.03
							Ceramic Tile	55	50	54	N7706.06
	5-ply CLT 6.89 in. (175 mm)	N/A	Topical Mat (1.4 mm)	Exposed	2 in. (51 mm)	SAM-N25 Supreme 5/16 in. (8 mm) mat	LVT 2 mm	56	50	63	P0087.03
	5-ply CLT 6.89 in. (175 mm)	N/A	N/A	Exposed	2 in. (51 mm) poured in two 1 in. lifts	SAM-N25 Supreme 5/16 in. (8 mm) mat in between two Levelrock lifts	Bare	56	49	50	R0061.01
							Carpet Tile	58	53	73	R0061.06
							Carpet Tile w/felt backing	56	55	87	R0061.07
							LVT 2 mm	57	52	55	R0061.08
	LVT 4.4 mm w/integrated pad	57	53	67	R0061.04						
	5-ply CLT 6.89 in. (175 mm)	N/A	Topical Mat (5 mm)	Exposed	2 in. (51 mm) poured in two 1 in. lifts	SAM-N25 Supreme 5/16 in. (8 mm) mat in between two Levelrock lifts	LVT 2 mm	57	53	68	R0061.02
	LVT 5 mm	57	54	70	R0061.03						
5-ply CLT 6.89 in. (175 mm)	Raised Access Floor (254 mm)	N/A	Exposed	1 in. (25.4 mm)	SAM-N25 Supreme 5/16 in. (8 mm) mat	Bare	56	52	58	Q2032.01*	
Carpet Tile	58	59	85	Q2032.03*							
LVT 2 mm	59	53	61	Q2032.02*							
5-ply CLT 6.89 in. (175 mm)	Raised Access Floor (254 mm)	N/A	Exposed	2 in. (51 mm)	SAM-N25 Supreme 5/16 in. (8 mm) mat	LVT 2 mm	59	54	61	Q2032.02*	
5-ply CLT 6.89 in. (175 mm)	2x4 sleepers 24 in. o.c. with 3/4 in. T&G and 3.5 in. of fiber-glass insulation	N/A	Exposed	1 in. (25.4 mm)	SAM-N25 1/4 in. (6.4 mm) mat	Carpet & Pad	56	72	84	J9383.05*	
						Engineered Hardwood	55	50	52	J9383.04*	
						LVT 6.5 mm w/integrated pad	55	50	61	J9383.03*	
						Ceramic Tile	56	50	50	J9383.06*	
5-ply CLT 7.48 in. (190 mm)	2x4 sleepers 24 in. o.c. with 3/4 in. T&G and 3.5 in. of fiber-glass insulation	N/A	Exposed	1-1/2 in. (38.1 mm)	SAM-N25 Supreme 5/16 in. (8 mm) mat	Bare	59	52	53	N4909.01*	
						Carpet & Pad	58	75	90	N4909.06*	
						Engineered Hardwood	58	53	58	N4909.04*	
						LVT 2 mm	58	53	55	N4909.02*	
						LVT 6.5 mm w/integrated pad	58	54	62	N4909.03*	
						Ceramic Tile	58	54	58	N4909.07*	
5-ply CLT 6.89 in. (175 mm)	N/A	N/A	Dropped Drywall Suspension Ceiling with 3.5 in. of fiber-glass insulation and 1 layer 5/8 in. (15.9 mm) Type X	2 in. (51 mm)	SAM-N25 1/4 in. (6.4 mm) mat	Bare	63	59	59	I5203.13*	
						Engineered Hardwood	62	62	70	I5203.16*	
						LVT 5.5 mm	63	63	70	I5203.14*	
						LVT 6.5 mm w/integrated pad	63	63	80	I5203.15*	
						Ceramic Tile	63	65	69	I5203.17*	
5-ply CLT 6.89 in. (175 mm)	N/A	N/A	Exposed	2 in. (51 mm)	SAM-N25 Supreme 5/16 in. (8 mm) mat with 1/4 in. pad installed over sound mat	Bare	59	51	54	T4138.01****	
						Carpet Tile	59	53	78	T4138.06****	
						Carpet Tile w/felt backing	59	57	90	T4138.07****	
						Engineered Hardwood	59	52	65	T4138.05****	
						LVT 2 mm	59	52	58	T4138.02****	
						LVT 4.4 mm	59	51	72	T4138.04****	
						5-ply CLT 6.89 in. (175 mm)	N/A	N/A	Exposed	1-1/2 in. (38.1 mm)	SAM-N25 Supreme 5/16 in. (8 mm) mat with 1/4 in. pad installed over sound mat
Carpet Tile	59	52	77	T4137.06****							
Carpet Tile w/felt backing	58	55	89	T4137.07****							
Engineered Hardwood	58	51	64	T4137.05****							
LVT 2 mm	58	51	57	T4137.02****							
LVT 4.4 mm	57	51	70	T4137.04****							
5-ply CLT 6.89 in. (175 mm)	N/A	N/A	Exposed	1-1/2 in. (38.1 mm)	SAM-N75 Supreme 3/4 in. (18 mm) mat	Bare	58	52	56	T4133.01	
						Carpet Tile	58	54	77	T4133.06	
						Carpet Tile w/felt backing	58	57	87	T4133.07	
						Engineered Hardwood	59	54	66	T4133.05	
						LVT 2 mm	58	53	60	T4133.02	
						LVT 4.4 mm	58	53	72	T4133.04	
5-ply CLT 6.89 in. (175 mm)	N/A	N/A	Exposed	2 in. (51 mm)	SAM-N75 Supreme 3/4 in. (18 mm) mat	Bare	60	50	52	R5008.01	
						LVT 2 mm	59	52	56	R5008.02	
						LVT 4.4 mm w/integrated pad	58	53	66	R5008.07	

NOTES

* STC and IIC are based on modified ASTM E90 and E492.
 **** Contact USG for details.

DESIGNS FOR 5-PLY CROSS-LAMINATED TIMBER (CLT) CONT.

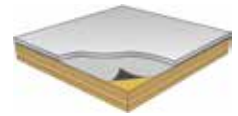


UL Fire Ratings	Wood Deck	Raised Floor	Accessories	Ceiling	Min. Depth Levelrock® 2500	Encapsulated SAM Sound Mat	Floor Covering	Sound Rating			
								STC	IIC	HIIC	Sound Test Number
Prescriptive	5-ply CLT 6.89 in. (175 mm)	N/A	Topical Mat (2 mm)	Exposed	2 in. (51 mm)	SAM-N75 Supreme 3/4 in. (18 mm) mat	LVT 2 mm	59	53	61	R5008.03
							LVT 5 mm	60	54	64	R5008.05
	5-ply CLT 6.89 in. (175 mm)	N/A	Topical Mat (5 mm)	Exposed	2 in. (51 mm)	SAM-N75 Supreme 3/4 in. (18 mm) mat	LVT 2 mm	59	55	69	R5008.04
							LVT 5 mm	59	55	70	R5008.06
	5-ply CLT 6.89 in. (175 mm)	N/A	N/A	Exposed	2 in. (51 mm)	SAM-N75 Supreme 3/4 in. (18 mm) mat with 1/4 in. pad installed over sound mat	Bare	60	52	53	S2553.01****
							LVT 2 mm	60	55	57	S2553.02****
							LVT 4.4 mm w/integrated pad	60	56	71	S2553.03****
	5-ply CLT 6.89 in. (175 mm)	N/A	Topical Mat (5 mm)	Exposed	2 in. (51 mm)	SAM-N75 Supreme 3/4 in. (18 mm) mat with 1/4 in. pad installed over sound mat	LVT 5 mm	61	59	73	S2553.04****
							LVT 5 mm w/integrated pad	60	58	75	S2553.05****
	5-ply CLT 6.89 in. (175 mm)	N/A	Topical Mat (3 mm)	Exposed	2 in. (51 mm)	SAM-N75 Supreme 3/4 in. (18 mm) mat with 1/4 in. pad installed over sound mat	LVT 5 mm	60	60	80	S2553.06****

NOTES

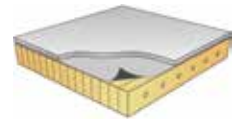
* STC and IIC are based on modified ASTM E90 and E492.
**** Contact USG for details.

DESIGNS FOR MASS PLYWOOD PANEL (MPP)



UL Fire Ratings	Wood Deck	Raised Floor	Accessories	Ceiling	Min. Depth Levelrock® 2500	Encapsulated SAM Sound Mat	Floor Covering	Sound Rating			
								STC	IIC	HIIC	Sound Test Number
Prescriptive	MPP 5 in. (127 mm)	N/A	N/A	Dropped Drywall Suspension Ceiling with 3.5 in. of fiberglass insulation, 1 layer 5/8 in. (15.9 mm) Type X	1 in. (25.4 mm)	SAM-N25 1/4 in. (6.4 mm) mat	Bare	62	55	56	J9380.01*
							Carpet & Pad	61	86	92	J9380.05*
							Engineered Hardwood	61	59	64	J9380.04*
							LVT 5.5 mm	61	57	59	J9380.02*
							LVT 6.8 mm w/integrated pad	62	59	69	J9380.03*
							Ceramic Tile	62	61	62	J9380.06*
	MPP 5 in. (127 mm)	N/A	N/A	Dropped Drywall Suspension Ceiling with 3.5 in. of fiberglass insulation, 1 layer 5/8 in. (15.9 mm) Type X	1 in. (25.4 mm)	SAM-N25 Ultra 5/16 in. (7.9 mm) mat	Bare	62	59	62	J9380.01*
							Carpet & Pad	61	87	93	J9380.05*
							Engineered Hardwood	61	62	68	J9380.04*
							LVT 5.5 mm	61	61	66	J9380.02*
							LVT 6.8 mm w/integrated pad	62	61	76	J9380.03*
							Ceramic Tile	62	63	65	J9380.06*
	MPP 4 in. (102 mm)	N/A	N/A	Exposed	2 in. (51 mm)	SAM-N75 Supreme 3/4 in. (18 mm) mat	Bare	55	45	44	S0321.01
							Carpet Tile	53	58	78	S0321.07
							LVT 2 mm	55	46	46	S0321.02
							LVT 4.4 mm w/integrated pad	55	51	58	S0321.05
							LVT 5 mm	55	49	50	S0321.03
							LVT 5 mm w/integrated pad	56	52	62	S0321.13
	MPP 4 in. (102 mm)	N/A	Topical Mat (5 mm)	Exposed	2 in. (51 mm)	SAM-N75 Supreme 3/4 in. (18 mm) mat	LVT 5 mm	54	53	61	S0321.04

DESIGNS FOR DOWEL-LAMINATED TIMBER (DLT)



UL Fire Ratings	Wood Deck	Raised Floor	Accessories	Ceiling	Min. Depth Levelrock® 2500	Encapsulated SAM Sound Mat	Floor Covering	Sound Rating			
								STC	IIC	HIIC	Sound Test Number
Prescriptive	DLT 6 in. (152.4 mm)	N/A	N/A	Exposed	2 in. (51 mm)	SAM-N25 Supreme 5/16 in. (8 mm) mat	Bare	57	47	47	S2556.01
							LVT 2 mm	56	48	50	S2556.02
							LVT 4.4 mm w/integrated pad	56	49	61	S2556.03
							LVT 5 mm w/integrated pad	56	50	66	S2556.07
							Carpet Tile	56	51	67	S2556.05
							Carpet Tile w/felt backing	56	54	80	S2556.06
	DLT 6 in. (152.4 mm)	N/A	Topical Mat (3 mm)	Exposed	2 in. (51 mm)	SAM-N25 Supreme 5/16 in. (8 mm) mat	LVT 5 mm	56	52	68	S2556.08
	DLT 6 in. (152.4 mm)	N/A	Topical Mat (5 mm)	Exposed	2 in. (51 mm)	SAM-N25 Supreme 5/16 in. (8 mm) mat	LVT 5 mm	56	50	64	S2556.04
	DLT 6 in. (152.4 mm)	N/A	N/A	Exposed	2 in. (51 mm)	SAM-N75 Supreme 3/4 in. (18 mm) mat	Bare	57	49	49	S2555.01
							LVT 2 mm	57	50	52	S2555.02
							LVT 4.4 mm w/integrated pad	57	51	58	S2555.03
							LVT 5 mm w/integrated pad	57	53	66	S2555.07
							Carpet Tile	57	53	66	S2555.05
							Carpet Tile w/felt backing	57	55	79	S2555.06
	DLT 6 in. (152.4 mm)	N/A	Topical Mat (5 mm)	Exposed	2 in. (51 mm)	SAM-N75 Supreme 3/4 in. (18 mm) mat	LVT 5 mm	57	53	63	S2555.04
	DLT 6 in. (152.4 mm)	N/A	Topical Mat (3 mm)	Exposed	2 in. (51 mm)	SAM-N75 Supreme 3/4 in. (18 mm) mat	LVT 5 mm	57	54	70	S2555.08

NOTES

* STC and IIC are based on modified ASTM E90 and E492.



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