

DESIGNING FOR SAFETY & SOUND CONTROL

Streamline the process of specifying products to meet your project's requirements for fire safety and acoustical performance. Use this Fire & Sound manual to help determine the right assembly, along with correct codes and resources, based on your project's construction type.

Maxxon® Gyp-Crete® underlayments are available in more than 140 UL and ULC fire-resistance rated designs. Maxxon® Acousti-Mat® products are available in over 140 UL fire-resistant rated designs and backed by thousands of third-party sound tests.

For questions or personalized support, contact Maxxon at (800) 356-7887.



MAXXON®

DELIVERING ACOUSTICAL INNOVATIONS

In 1972, Maxxon® revolutionized the construction industry by inventing Gyp-Crete®. We were also the first company to introduce sound mats to Multifamily construction, with our line of Acousti-Mat® products.

Fast forward more than 50 years, and Maxxon continues to lead the way with new technologies and innovations. Today's Acousti-Mat products can be used to mitigate impact and airborne noises in all types of floor goods including LVT, exposed concrete, tile, or hardwood without sacrificing sound control. And our recently launched Commercial Pro VersaTop™ Wear Surface delivers the on-trend look of polished concrete with a streamlined installation process. This innovative hydraulic cement underlayment produces an exposed aggregate surface with no mechanical prep, less grinding, and no polishing.

We recently built North America's largest, accredited floor/ceiling sound transmission test lab, enabling us to measure the lowest frequencies considered for building acoustics, down to 50 Hz. Now we're equipped to develop more products to block a wider range of impact and airborne sounds to meet occupants' increasing demand for acoustical privacy.



OPEN WEB TRUSS

1 HOUR FIRE DESIGNS

The sound tests below are examples of the many sound tests we have on file. Please refer to the disclaimer on page 14. For assistance determining the right system and UL Fire Rating for your project, contact your Maxxon Regional Representative at (800) 356-7887.

		n de c		_ Min.				Sound R	lating	u 10 5	c: -1	
Truss Depth	Insulation	Resilient Channel	Drywall	Topping Depth	Encapsulated Sound Mat	Floor Covering*	STC**	IIC	Test Number	Maxxon UL Fire Ratings	Similar ULs	
						VersaTop	58	35	H6130.01			
					None	LVT		41	H6130.02			
						Carpet & Pad		71	10101.02			
				3/4"		VersaTop		47	10101.06			
				(19 mm)		Sheet Vinyl		52	10101.09			
					Acousti-Mat 1/8	LVT	58	50	10101.07			
						Ceramic Tile		52	10101.30			
						Carpet and Pad		72	10101.11			
						VersaTop		51	10101.17			
						Sheet Vinyl	59	54	10106.20			
					Acousti-Mat 1/4	LVT		53	10106.18			
					ACOUSITIVIUI 1/4	Ceramic Tile		55	10106.24			
						Engineered Wood		55	10106.21			
						Carpet and Pad		71	10106.22	L528 L529		
						VersaTop		53	10101.14	L534		
							Sheet Vinyl		55	10101.17	L546 L542	
					Acousti-Mat 1/4	LVT	59	54	10101.15	L558		
					Premium '	Ceramic Tile		55	10101.21	L562 L563		
				Engineered Wood	55	10101.18	L574					
				1" (25 mm)		Carpet and Pad		76	10101.19	L576 L577		
18"	Yes	Yes	5/8" (16 mm)	(23 11111)		VersaTop		53	10106.25	L577 L579 L581	L521 L550	
			(10 11111)			Sheet Vinyl		56	10106.28	L583	1330	
						LVT	59	55	10106.26	L585 L592		
					Acousti-Mat 3/8	Ceramic Tile		57	10106.32	M500		
						Engineered Wood		56	10107.05	M503 M508		
						Carpet and Pad		75	10106.30	M510 ICC ESR #2540		
						VersaTop		54	10107.25	UL ER #8477-01		
						LVT	59	57	10107.27			
					Acousti-Mat 3/8 Premium	Ceramic Tile		58	10107.32			
					I IGIIIIUIII -	Engineered Wood		58	10107.29			
						Carpet and Pad		79	10107.30			
						Sheet Vinyl		57	10101.25			
						LVT	59	56	10101.23			
					Acousti-Mat 3/4	Ceramic Tile		59	10101.29			
					Engineered Wood		57	10101.26				
					Carpet and Pad		77	10101.27				
					Sheet Vinyl	58	58	10107.20				
					LVT		59	10107.19				
					Acousti-Mat 3/4 Premium	Ceramic Tile		60	10107.24			
					TICHIIUIII	Engineered Wood		60	10107.21			
						Carpet and Pad		79	10107.22			

Other Open Web Truss ULs: For special assemblies and other burn ratings including 2 hr designs, additional Open Web Truss UL Fire Ratings exist. Refer to page 13 for a list of these assemblies.



I-JOIST 1 HOUR FIRE DESIGNS

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				Min.				Sound	Rating	
Truss Depth	Insulation	Resilient Channel	Drywall	Topping Depth	Encapsulated Sound Mat	Floor Covering*	STC**	IIC	Test Number	Maxxon UL Fire Ratings
						VersaTop	58		TL 96-250	
3.48						VersaTop		29	IN 86-1	
14"					None	Sheet Vinyl		40	IN 86-2	
						Carpet and Pad		70	IN 86-6	
	1			3/4"		VersaTop	59	47	10110.17	
				(19 mm)		Sheet Vinyl		50	10108.09	
					A	LVT		52	10110.18	
					Acousti-Mat 1/8	Ceramic Tile		50	10110.24	
						Engineered Wood		51	10108.10	
						Carpet and Pad		77	10110.22	
						VersaTop		51	10109.17	
						Sheet Vinyl	58	55	10109.20	
					A	LVT		54	10109.18	
					Acousti-Mat 1/4	Ceramic Tile		56	10109.24	
						Engineered Wood		56	10109.21	L518
						Carpet and Pad		81	10109.22	L530 L547
		Yes		51	10108.30	L570				
						Sheet Vinyl	59	55	10108.33	L581 L583
			2 Layers		Acousti-Mat 1/4	LVT		55	10108.32	L589 M502
	Yes		5/8"		Premium	Ceramic Tile		57	10108.37	M506
			(2x 16 mm)			Engineered Wood		56	10108.34	M535 WH J20050694
12"				Premium Ceramic Tile 57 10108.3 Engineered Wood 56 10108.3	10108.35	ICC ESR 1141				
				(25 mm)		VersaTop		51	10110.09	ICC ESR 1153 ICC ESR 1305
						Sheet Vinyl	58	56	10110.12	ICC ESR 1336
						LVT		55	10110.10	UL ER 8477
					Acousti-Mat 3/8	Ceramic Tile		59	10110.16	
						Engineered Wood		58	10110.13	
						Carpet and Pad		77	10110.14	
						VersaTop		55	10110.25	
						Sheet Vinyl	61	59	10110.28	
					Acousti-Mat 3/8	LVT		57	10110.26	
					Premium	Ceramic Tile		60	10110.32	
						Engineered Wood		59	10110.29	
						Carpet and Pad		84	10110.30	
						Sheet Vinyl	60	58	10108.25	
						LVT		57	10108.24	
					Acousti-Mat 3/4	Ceramic Tile		59	10108.29	
						Engineered Wood		59	10108.26	
						Carpet and Pad		79	10108.27	

Other I-Joist ULs: For special assemblies and other burn ratings, additional I-Joist UL Fire Ratings exist. Refer to page 13 for a list of these assemblies.



2X10 JOIST1 HOUR FIRE DESIGNS

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Min. Truss		Resilient			Foransulated			Sound	d Rating	Maxxon UL
Depth per UL	Insulation	Channel	Drywall	Min. Topping Depth	Encapsulated Sound Mat	Floor Covering*	STC**	IIC	Test Number	Fire Ratings
						None	56	38	10111.01	L006 L522 L201 L523
				3/4" (19 mm)	None	Backed LVT		45	10111.03	L202 L525 L206 L526 L209 L533
						Carpet and Pad		67	10111.02	L210 L535 L211 L536
						VersaTop		46	10112.17	L212 L537 L501 L539 L502 L540
						Sheet Vinyl	57	51	10112.20	L502 L540 L503 L541 L504 L545
10"	Yes	Yes	5/8" (16 mm)			LVT		51	10112.19	L505 L556 L506 L557 L507 L569
	10 les]"	Acousti-Mat 1/4 Ceramic Tile Engineered Wood	Ceramic Tile		52	10112.24	L509 L581 L510 L583
				(25 mm)		Engineered Wood		51	10112.21	L511 L588 L512 L590 L513 L593
						Carpet and Pad		73	10112.22	L514 M514 L515 M517 L516 M518 L517 M519 L519 M530 L520 M531

Other 2x10 ULs: For special assemblies and other burn ratings including 2 hr designs, additional 2x10 Joist UL Fire Ratings exist. Refer to page 12 for a list of these assemblies.



HEAVY TIMBER RENOVATION

		Resilient		Min. Topping	Encanculated			Sound I	Rating
Truss/Joists	Insulation	Channel	Drywall	Depth	Encapsulated Sound Mat	Floor Covering*	STC**	IIC	Test Number
				N/A	None	VersaTop	30 FSTC		3018-02-31573.7
				N/A	None	versurop		33 FIIC	3018-02-31573.5
	sional	No				Tile	47 FSTC		3018-02-31573.6
Dimensional				1-1/2" (38 mm)	Acousti-Mat 3/4 Engineered Wood on Pad Vinyl		52 FIIC	3018-02-31573.4	
Lumber	No		N/A			Vinyl		46 FIIC	3018-02-31573.3
				1-3/4" (44 mm)+	Acousti-Mat 3/4 + Acousti-Mat SBR	VersaTop	52 FSTC	51 FIIC	30160-04-62432
				3" concrete (76 mm)	Acousti-Mat 3/4 Premium	VersaTop		47 FIIC	D7299.02-13

^{+1-3/4&}quot; is the minimum acceptable pour thickness over Acousti-Mat 3/4 Premium + Acousti-Mat SBR. Assembly tested with 1-1/2" Gyp-Crete topping slab and results should be considered a minimum acoustic performance for the required system.



CONCRETE1, 2, AND 3 HOUR FIRE DESIGNS

Concrete		Resilient	Sucnandad		Min. Topping	Encanculated			Sound	Rating	Maxxon UL				
Depth	Insulation	Channel	Suspended Ceiling	Drywall	Depth	Encapsulated Sound Mat	Floor Covering*	STC**	IIC	Test Number	Fire Ratings				
4"	No	No	No	No	1" (25 mm)	Acousti-Mat 1/4	VersaTop		50 FIIC	30160-03-57761	J804				
4	NO	NO	NO	NO	2" (51 mm)	Acousti-Mat 3/4	VersaTop		59 FIIC	30160-03-57761	J805				
							LVT	52	52	H8289.01					
6"	No	No	No	No	N/A	Acousti-Top	LVI		ΔIIC 22	H8289.01					
							Tile		∆IIC 19	7018019					
					N/A None		Bare Concrete	62 FSTC		18-0-0607.1					
					N/A	None	bure Concrete		39 FIIC	18-0-0607.3					
										D.C.	62 FSTC		18-0-0607.2		
					1"	1"]"	A	LVT		64 FIIC	18-0-0607.5			
			No	No	No	No	No	(25 mm)) Acousti-Mat 1/4	Hardwood		60 FIIC	18-0-0607.7		
			110	110			Tile		61 FIIC	18-0-0607.6					
						11/0"/00	Acousti-Mat 3/8	Tile		65 FIIC	30160-05-72550-7	N/A†			
					1-1/2" (38 mm)		Tile		70 FIIC	30160-05-72550-9	,,,,				
8"	No	No							2" Concrete (51 mm)	Acousti-Mat 3/4	VersaTop		61 FIIC	30160-03-56381-5	
					N /A	N	D C .	62 FSTC		30160-06-77973-1					
					N/A	None	Bare Concrete		42 FIIC	30160-06-77973-2					
				5/8" (16 mm)	1/2"	A 27	Hardwood		60 FIIC	30160-06-77870					
			Yes		5/8" (13 mm)	Acousti-Top	Tile		54 FIIC	30160-06-77870					
					1" (25 mm)	Acousti-Mat 1/4	Tile		60 FIIC	30160-05-67282-2					
					1-1/2" (38 mm)	Acousti-Mat 3/8	Tile		66 FIIC	30160-05-67282-1					
					1-1/2 (30 MM)	Acousti-Mat 3/4	Tile		74 FIIC	30160-05-67282-3					

 $^{^\}dagger$ Fire Ratings over 6"+ concrete do not require gypsum concrete.

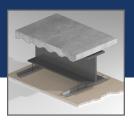




1 HOUR FIRE DESIGNS

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			Resilient		Min. Topping	Encanculated			Sc	ound Rating	Maxxon UL					
Joist Type	Subfloor	Insulation	Channel	Drywall	Depth	Encapsulated Sound Mat	Floor Covering*	STC**	IIC	Test Number	Fire Ratings					
							VersaTop	61	43	M3052.12						
							LVT		52	M3052.06						
					3/4" (19 mm)	Acousti-Mat 1/8	Engineered Wood		56	M3052.08						
					(17 11111)		Tile		50	M3052.10						
Open							Carpet & Pad		80	M3052.09						
Web Truss							VersaTop	61	50	M3052.11						
								LVT		56	M3052.01					
			Yes	5/8"						1" (25 mm)	Acousti-Mat 1/4	Engineered Wood		58	M3052.03	1507
	3/4" Wood	Yes	162	(16 mm)	(23 11111)		Tile		55	M3052.05	L527 L564					
	Subfloor	tes					Carpet & Pad		84	M3052.04	L567 L573					
							Carpet & Pad	51 FSTC		4140-94-2168.1	L3/3					
					3/4" (19 mm)	None	Culper & ruu		73 FIIC	4140-94-2168.2						
					(**************************************		LVT		49 FIIC	4140-94-2278						
							Tile		57 FIIC	FIIC 04-22-1						
					1-1/2" (38 mm)	Acousti-Mat 3/4	Vinyl		57 FIIC	FIIC 04-22-2						
					(00 11111)		Hardwood		58 FIIC	FIIC 04-22-3						
			Acoustic Clips	2 layers 5/8"	1"	Acousti-Mat 1/4	Tile		56 FIIC	06-24-1						
			ACOUSTIC CITYS	(2 x 16 mm)	(25 mm)	ACOUSITMUI 1/4	Carpet & Pad		71 FIIC	06-24-2						



COMPOSITE CONCRETE WITH CORRUGATED STEEL DECK

Concrete					Encapsulated			Sc	ound Rating	Maxxon UL									
Depth	Insulation	Ceiling	Drywall	Min. Topping Depth	Sound Mat	Floor Covering*	STC**	IIC	Test Number	Fire Ratings									
3½" Concrete over Steel Deck	No	Hat Channel Attached to Joist	5/8" (16 mm)	None	None	Bare Concrete	57	28	TL 01-213, IN 01-8										
3" Concrete		Wire Hung	5/8" (16 mm)	None	None	Bare Concrete	55	47	3193995CRT-001.8	G561									
over 9/16" Corrugated	Yes	Grid 17½" Airspace	Drywall	None	Acousti-Top	Engineered Wood		64	3193995CRT-001.5										
Steel Deck		Deck to Ceiling	5/8" (16 mm) Ceiling Tile	None	Acousti-Top	Engineered Wood		62	3193995CRT-001.28										
21/" 1:		Wire Hung		None	Acousti-Top	Tile		66 FIIC	NAC Centerpoint										
Concrete over	2½" Lightweight Concrete over Steel Deck Yes		Airspace	Airspace	Airspace	Airspace	Airspace	Airspace	Airspace	Airspace	Grid 34" Airspace	5/8" (16 mm)	3/8" (10 mm)	Acousti-Top	Engineered Wood		64 FIIC	NAC Centerpoint	D502
2166I NGCK		Deck to Ceiling		1" (25 mm)	Acousti-Mat 1/4	Engineered Wood		64 FIIC	NAC Centerpoint										



STEEL TRUSS/STEEL DECK

1 AND 2 HOUR FIRE DESIGNS

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		Resilient		Min.	Encanculated			Sound	Rating	Maxxon UL Fire	Similar					
Subfloor	Insulation	Channel	Drywall	Topping Depth	Encapsulated Sound Mat	Floor Covering*	STC**	IIC	Test Number	Ratings	ULs					
					None	VersaTop	56	39	10115.01							
					None	Carpet and Pad		73	10115.02							
						VersaTop	56	42	10117.01							
				3/4" (19 mm)		Sheet Vinyl		51	10117.04							
					Acousti-Mat 1/8	LVT		51	10117.03							
						Engineered Wood		52	10117.05	0.0014						
						Carpet and Pad		73	10117.06	G551 [†] G553 [†]						
						VersaTop		47	10114.01	G560 [†] G563 [†] G566 [†] G574 [†]	G564					
						Sheet Vinyl		53	10114.04		G577 G578					
Steel Deck	Yes	Yes	5/8" (16 mm) Drywall		Acousti-Mat 1/4	LVT	56	52	10114.02	G587	G579					
						ACOUSTPHIOL 174	Ceramic Tile		55	10114.08	G592 G597	G580 G581				
								Engineered Wood		54	10114.05	H502 M511	G582			
]"				Carpet and Pad		82	10114.06	ICC ESR # 2540† - UL ER # 8477-01†				
				(25 mm)		VersaTop		50	10115.07	OLLK# 0477 OT						
						Sheet Vinyl		53	10115.10							
					A	LVT	56	53	10115.09							
					Acousti-Mat 3/8	Ceramic Tile		56	10115.14							
											Engineered Wood		55	10115.11		
						Carpet and Pad		80	10115.12							

[†] See UL for specific design detail difference between ratings.



PRECAST HOLLOW CORE CONCRETE

1, 2, AND 3 HOUR FIRE DESIGNS

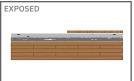
Concrete		Resilient	Suspended			Encanculated			Sound	Rating	Maxxon UL Fire	
Depth	Insulation	Channel	Ceiling	Drywall	Min. Topping Depth	Encapsulated Sound Mat	Floor Covering*	STC**	IIC	Test Number	Ratings	
6"	Yes	Yes	Yes	5/8"]"	Acousti-Mat 1/4	Tile	59		RAL TL 98-108		
0	ies	ies	Tes	(16 mm)	(25 mm)	ACOUSTI-MULT/4	Tile		57	RAL IN 98-12		
					1/2"	None	Bare Gypsum	58 FSTC		5-896	J917	
					(13 mm)	Notic	Carpet		75 FIIC	5-896-2	J917 J919	
						None	Bare Gypsum		18 FIIC	B2863.13	Ј920 Ј924	
					3/4"		Tile		54 FIIC	B2863.04	J927	
					(19 mm)	Acousti-Mat 1/8	LVT		56 FIIC	B2863.05	Ј931 Ј957	
8"	No	No	No	None			Engineered Wood		58 FIIC	B2863.06	J 9 58	
							Bare Gypsum	61 FSTC		B5011.04	J991 J994	
						Acousti-Mat 1/4			59 FIIC	B5011.04	ICC ESR # 2540 UL ER # 8477-01	
					1" (25 mm)			LVT		57 FIIC	B5011.04	UL EK# 04/7-U1
						Assurati Mark 2 /0	Tile		61 FIIC	B2863.07		
						Acousti-Mat 3/8	Wood		61 FIIC	B2863.09		



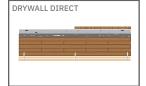
MASS TIMBER

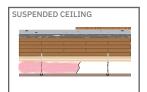
CROSS LAMINATED TIMBER (CLT)

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EXPOSED		
		 -

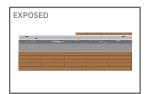




c :I:	CIT	c	n de i			T . I	d		Sound	Rating	Maxxon	
Ceiling Configuration	CLT Assembly	Gypsum Pour	Resilient Channel	Insulation	Encapsulated Sound Mat	Topical Mat	Floor Covering*	STC**	IIC	Test Number	UL Fire Ratings	
		2"				None	VersaTop	52	38	G2463.01		
<u>EXPOSED</u>		(51 mm)	None	N/A	Acousti-Mat 3/8 Premium	2 mm Armstrong Pad	LVT		51	G2463.08		
Exposed CLT		2"		,	Acousti-Mat	None	VersaTop	58	49	P4428.01		
		(51 mm)			3/4 Premium + Acousti-Mat SBR	1.4 mm Shaw Pad	LVT		54	P4428.03		
							VersaTop	52	46	K1279.01		
DRYWALL DIRECT		1" (25 mm)	None	N/A	Acousti-Mat 3/8 Premium	None	LVT		48	K1279.02		
2 Layers 5/8" (16 mm) directly	ayers 5/8" mm) directly 5-ply	5-ply						Engineered Wood		47	K1279.04	
applied to CLT	6-7/8" (175 mm)	2"	None	N/A	Acousti-Mat 3/4 Premium +	None	VersaTop	59	52	K1277.01	L901 M533	
		(51 mm)†	None	N/A	Acousti-Mat SBR	Acousti-Top	LVT on Concrete		55	K1277.02		
						71000511100	VersaTop	59	51	K1278.01		
SUSPENDED		0.75" (19 mm)		No	Acousti-Mat 1/8	None	LVT		54	K1278.02		
CEILING 2 Layers 5/8"			Wire Hung, Armstrong				Engineered Wood		55	K1278.04		
applied to CLT	(16 mm) directly applied to CLT + 1 layer 5/8"		HIC Clip + 6" Air Space				VersaTop	63	60	K1279.05		
(16 mm) hung		1" (25 mm)	- 1 space	Yes	Acousti-Mat 3/8	None	LVT		63	K1279.06		
							Engineered Wood		62	K1279.08		

 $^{^\}dagger$ Normal-weight concrete topping slab.

CLT COMPOSITE _____



Ceiling	CLT	Gypsum	Resilient		Encapsulated	Topical	Floor		Sound	Rating
Configuration	Assembly	Pour	Channel	Insulation	Sound Mat	Mat	Covering*	STC**	IIC	Test Number
	2.25"	1" (25 mm)	None	n /a	Acousti-Mat 3/8	None	VersaTop	52	50	K3094.97
<u>EXPOSED</u>	Composite CLT 5-ply 5.4" (137 mm)	Concrete +		n/a	ACOUSTI-MUI 3/0	Notice	Engineered Wood		52	K3094.69
Composite CLT			None	n /a	Acousti-Mat 3/4 Premium +	None	VersaTop	56	57	K3094.98
	Panel		Notic	n/a	Acousti-Mat SBR	Acousti-Top	Engineered Wood		61	K4507.06

^{+1-3/4&}quot; is the minimum acceptable pour thickness over Acousti-Mat 3/4 Premium + Acousti-Mat SBR. Assembly tested with 1-1/2" Gyp-Crete and results should be considered a minimum acoustic performance for the required system.

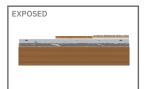


MASS TIMBER

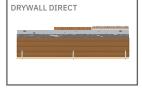
LAMINATED VENEERS (VLT)

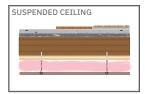
The sound tests below are examples of the many sound tests we have on file. Please refer to the disclaimer on page 14. For assistance determining the right system and UL Fire Rating for your project, contact your Maxxon Regional Representative at (800) 356-7887.

VLT



	Ceiling	VLT	Gypsum Pour	Resilient Channel	Insulation	Encapsulated Sound Mat		Floor		Soun	und Rating	
	Configuration	Assembly					Topical Mat	Covering*	STC**	IIC	Test Number	
						Acousti-Mat 3/8 Premium		VersaTop		41	L3827.03	
							None	Engineered Wood	52	48	L3827.08	
								LVT		45	L3827.04	
							2 mm Milliken Pad	LVT		50	P2528.02	
	EXPOSED		2"	.,			None	Carpet and Pad		83	L3827.10	
	Exposed VLT		(51 mm)	No	N/A		None	VersaTop		49	L3827.55	
							NOTIC	Engineered Wood		53	L3827.60	
						Acousti-Mat 3/4 Premium +	Acousti-Top	Engineered Wood	57	54	L3827.61	
						Acousti-Mat SBR	None	LVT		52	L3827.56	
							Acousti-Top	LVT		54	L3827.57	
		,					None	Carpet and Pad		79	L3827.62	
								VersaTop		43	L3827.11	
							None	Engineered Wood		48	L3827.16	
						Acousti-Mat 3/8 Premium		LVT		46	L3827.12	
							Acousti-Top	LVT	52	50	L3827.13	
	DRYWALL DIRECT		0.11				None	Carpet and Pad		83	L3827.18	
	2 Layers 5/8" (16 mm) directly		2" (51 mm)†	No	N/A	Acousti-Mat 3/4 Premium + Acousti-Mat SBR	None	VersaTop		51	L3827.63	
	applied to VLT		1" (25 mm)					LVT		54	L3827.64	
		6-3/8"					Acousti-Top	LVT		56	L3827.65	
							None	Engineered Wood	58	53	L3827.68	
							Acousti-Top	Engineered Wood		55	L3827.69	
							None	Carpet and Pad		79	L3827.70	
					No	Acousti-Mat 1/8	None	VersaTop	58	51	L3827.37	
								Engineered Wood		54	L3827.39	
								LVT		53	L3827.38	
							None	VersaTop		58	L3827.19	
						Acousti-Mat 3/8 Premium		Engineered Wood	62	59	L3827.23	
			2"					LVT		59	L3827.20	
	CHCDENDED		(51 mm)			Acousti-Mat		VersaTop	61	60	L3827.71	
	<u>SUSPENDED</u> <u>CEILING</u>			Wire Hung,		3/4 Premium +	None	Engineered Wood		62	L3827.73	
	2 Layers 5/8" (16 mm) directly			Armstrong IIC Clip		Acousti-Mat SBR		LVT		62	L3827.72	
	applied to VLT			+				VersaTop	60	61	L3827.45	
	+ 1 layer 5/8" (16 mm) hung		1" (25 mm)	6" Air Space		Acousti-Mat 1/8	None	Engineered Wood		64	L3827.47	
	(15 mm) nong							LVT		64	L3827.46	
								VersaTop	61	61	L3827.27	
					Yes	Acousti-Mat 3/8 Premium	None	Engineered Wood		63	L3827.31	
			2" (51 mm)					LVT		64	L3827.28	
						Acousti-Mat 3/4 Premium + Acousti-Mat SBR		VersaTop	62	64	L3827.79	
							None	Engineered Wood		65	L3827.81	
								LVT		66	L3827.80	





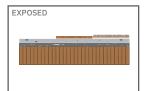


MASS TIMBER

DOWEL LAMINATED TIMBER (DLT)

The sound tests below are examples of the many sound tests we have on file. Please refer to the disclaimer on page 14. For assistance determining the right system and UL Fire Rating for your project, contact your Maxxon Regional Representative at (800) 356-7887.

DLT



Coiling	DIT	Gypsum Pour (in)	Resilient Channel Insu		Encapsulated Sound Mat	Topical Mat	Floor Covering*	Sound Rating		
Ceiling Configuration	DLT Assembly			Insulation				STC**	IIC	Test Number
					Acousti-Mat 3/8 Premium None	None .	VersaTop	54	45	K1274.01
		1-1/2" (38 mm)					LVT		47	K1274.02
		(30 11111)				Engineered Wood		47	K1274.04	
EXPOSED		6" 2-1/2" (64 mm)	No	N/A	Acousti-Mat 3/4 Premium	None	VersaTop	55	45	M8796.02
Exposed DLT	6"					1.5 mm Rubber Mat	LVT		50	M8796.03
	0				Acousti-Mat	None	VersaTop	57	51	Q1631.01
					3/4 Premium + AcoustiMat SBR	1.5 mm Foam Mat	LVT		55	Q1631.03
DRYWALL DIRECT		1-1/2" Acousti-Mat 3/8 Non		VersaTop	56	47	K1275.01			
2 Layers 5/8"					,	cousti-Mat 3/8 Premium None	LVT		49	K1275.02
(16mm) directly applied to DLT		(38 mm)			Premium		Engineered Wood		49	K1275.04

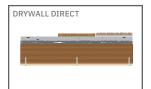


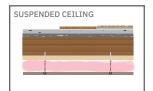
MASS TIMBER

MASS PLYWOOD PANEL (MPP)









Ceiling	MPP	Guncum	Resilient	Encapsulated			Floor	Sound Rating			
Configuration	Assembly	Gypsum Pour (in)	Channel	Insulation Sound Mat Top	Topical Mat	Covering*	STC**	IIC	Test Number		
EXPOSED						None	VersaTop	54	41	K1283.07	
Exposed MPP			No No	N/A		Acousti-Top	LVT		44	K1283.01	
DRYWALL DIRECT 2 Layers 5/8"					None	VersaTop	54	44	K1283.08		
(16mm) directly applied to MPP	(16mm) directly			No	Acousti-Mat 3/4 Premium	Acousti-Top	LVT		46	K1283.02	
		5"	''' '			Hennon	None	VersaTop	61	52	K1283.03
2 Layers 5/8"			Wire Hung, Armstrong IIC Clip + 6" Air Space	No		None	LVT		55	K1283.04	
applied to MPP + 1 layer 5/8"							None	Engineered Wood		55	K1283.06
		2" No	N/A	Acousti-Mat 3/4 Premium + Acousti-Mat SBR	None	VersaTop	57	47	K1282.01		
Exposed MPP		140			Acousti-Top	LVT on Concrete		51	K1282.02		

 $^{^\}dagger$ Normal-weight concrete topping slab.

MISCELLANEOUS UL FIRE DESIGNS

OPEN WEB TRUSS

UL#	Unique Assembly Details		
L529	Suspended Ceiling		
L542 Furring Channels/Drywall Screwed Direct			
L556	2HR/4 Layers of Drywall		
L577	2HR/3 Layers of Drywall		
L581	Kinetics ICW Clip, Batt Insulation, 2 Layers 5/8" Gypsum Board		
L583	Kinetics Isomax Clip, Batt Insulation, 2 Layers of 5/8" Gypsum Board		
M500	2HR/3+ Layers of Drywall		
M510	2HR/3 Layers of Drywall - 1 Layer Screwed Direct		

2X10

UL#	Unique Assembly Details			
M504	0.75 HR/Drywall Screwed Direct			
M514	Sound Break Gypsum Board from National Gypsum			
L581	Kinetics ICW Clip, Batt Insulation, 2 Layers 5/8" Gypsum Board			
L583	Kinetics Isomax Clip, Batt Insulation, 2 Layers of 5/8" Gypsum Board			

ULC DESIGN

#	Hour Rating	Type of Construction
1530	1.5, 2	TotalJoist by iSPAN®
L003	1	2" x 10" Wood Joist
L201	1	2" x 10" Wood Joist
L511	2	2" x 10" Wood Joist
L512	1	2" x 10" Wood Joist (Commercial Construction Only)
M500	1	2" x 10" Wood Joist
M501	1	2" x 10" Wood Joist
M503	2	2" x 10" Wood Joist
M514	2	Open Web Truss or Steel Frame
M520	1	TotalJoist by iSPAN®
M521	1	TotalJoist by iSPAN®

Canada also accepts all UL Fire Designs listed in this manual. For verification of a UL Fire Design for Canada, refer to the UL Environment document CCOX7.R8477 "Floor- and Roof-topping Mixtures Certified for Canada", which can be obtained by contacting your Maxxon Regional Representative or at www.ul.com.

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I-JOIST

UL#	Unique Assembly Details			
L518	TJL®/Resilient Channel			
L530	TJI® /Simpson Strong Clips			
L538	2HR/3 Layers of Drywall			
L547	TJI®/Resilient Channel			
L556	2HR/Wilamette I Beam Truss/4 Layers of Drywall			
L581	Kinetics ICW Clip, Batt Insulation, 2 Layers 5/8" Gypsum Board			
L583	Kinetics Isomax Clip, Batt Insulation, 2 Layers of 5/8" Gypsum Board			

STEEL JOIST

UL#	Steel Joist Manufacturer
G230 2HR/Midcon MetalEdge concrete T&G plank	
G516 2HR/Midcon MetalEdge concrete T&G plank	
G592 1, 2HR/Plycem Board	
H502	1, 1½, 2HR/Plycem Board



ADDITIONAL INFORMATION

MAXXON STANDARD UNDERLAYMENTS

Evaluation Report R8477

- Maxxon Gyp-Crete® Basic
- Maxxon Gyp-Crete® 2000 Multifamily
- Maxxon Gyp-Crete® Radiant
- · Maxxon Rapid Floor® Basic
- Maxxon Rapid Floor® Multifamily

MAXXON HIGH-STRENGTH UNDERLAYMENTS

Evaluation Report R8477

- Maxxon Gyp-Crete® High Perfomance
- Maxxon Commercial Pro Level-Right®
- Maxxon Commercial Pro Level-Crete™
- Maxxon Commercial Level EZ™
- Maxxon Commercial EZ Crete™
- Maxxon Commercial Gyp-Fix EZ™

MAXXON ENCAPSULATED SOUND MATS

Evaluation Report R8477

- All Maxxon Acousti-Mats®
- Maxxon Acousti-Top®

NOTE REGARDING CANADIAN PROJECTS: Canada accepts all UL Fire Designs listed in this manual. For additional information on Canadian Fire Designs, refer to page 13.

DISCLAIMER: For complete assembly information for a specific fire design, click on the UL number or visit Underwriters' Laboratories website. While the assemblies of the sound tests were constructed to best represent the most commonly built version of the UL fire design, some variances in construction may have occurred (i.e. within a particular UL rating there can be the allowances for different joist spacing and joist depths, different thicknesses and types of insulation or even no insulation, different types of channel, etc). The sound tests are a representation of what can be expected for sound control ratings when building a floor/ceiling assembly with a specific floor joist assembly that relates to a UL fire design using the designated sound control mat. However, due to the many variables beyond our control (for example quality control of drywall installation, type of resilient channel, density and selection of other building materials, flanking paths, etc.), the sound tests in this resource should not be considered a guarantee of performance. For this same reasoning and the fact that the sound tests were run in different buildings, different laboratories, and different environments, this data can be used for comparison and design evaluation but should not be considered a guarantee of performance. All acoustical testing was done by Architectural Testing; Riverbank Testing Laboratories; Intest, Inc.; Intertek Laboratories; Twin City Testing Corporation; D.L. Adams Associates, L.T.D.; Veneklasen Associates; or Stewart Acoustical Consultants. For assistance determining the right system and UL Fire Rating for your project, contact your Maxxon Regional Representative at (800) 356-7887.





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