MAXXON

FIRE & SOUND MANUAL

OCT†† 2024

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.

		De etterne		_ Min.	For successful and			Sound R	ating	Harris III Par	c::l
Truss Depth	Insulation	Channel	Drywall	Topping Depth	Encapsulated Sound Mat	Floor Covering*	STC**	IIC	Test Number	Maxxon UL Fire Ratings	Similar ULs
						Bare or VersaTop	58	35	H6130.01		
					None	LVT		41	H6130.02		
						Carpet & Pad		71	10101.02		
				3/4"		Bare or 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		
						Bare or VersaTop		51	10106.17		
						Sheet Vinyl	59	54	10106.20		
					Acousti-Mat 1 /A	LVT		53	10106.18		
					ACOUSIF/MULT/ 4	Ceramic Tile		55	10106.24		
						Engineered Wood		55	10106.21		
						Carpet and Pad		71	10106.22	L528 L529	
						Bare or VersaTop		53	10101.14	L534	
						Sheet Vinyl		55	10101.17	L546 L542	
					Acousti-Mat 1/4	LVT	59	54	10101.15	L558	
				1" (25 mm) —	Premium	Ceramic Tile		55	10101.21	L562 L563	
						Engineered Wood		55	10101.18	L574	
						Carpet and Pad		76	10101.19	L577	
18"	Yes	Yes	5/8" (16 mm)		Bare or VersaTop 53 10106.25		L579 1581	L521			
			(10 1111)			Sheet Vinyl		56	10106.28	L583	2550
					Accurate Mark 2 /0	LVT	59	55	10106.26	L585 L592	
					ACOUST-MUL 3/0	Ceramic Tile		57	10106.32	M500	
						Engineered Wood		56	10107.05	M508	
						Carpet and Pad		75	10106.30	M510 ICC FSR #2540	
						Bare or VersaTop		54	10107.25	UL ER #8477-01	
						LVT	59	57	10107.27		
					Acousti-Mat 3/8 Premium	Ceramic Tile		58	10107.32		
					riomon	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		
				1½"		Carpet and Pad		77	10101.27		
				(38 mm)		Sheet Vinyl	58	58	10107.20		
						LVT	59 10107.19				
					Acousti-Mat 3/4 Premium	Ceramic Tile		60	10107.24		
					r totnioni	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

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 s		_Min.				Sound	Rating	
Truss Depth	Insulation	Resilient Channel	Drywall	lopping Depth	Encapsulated Sound Mat	Floor Covering*	STC**	IIC	Test Number	Maxxon UL Fire Ratings
						Bare or VersaTop	58		TL 96-250	
1.4"					News	Bare or VersaTop		29	IN 86-1	
14					None	Sheet Vinyl		40	IN 86-2	
						Carpet and Pad		70	IN 86-6	
				3/4"		Bare or VersaTop	59	47	10110.17	
				(19 mm)		Sheet Vinyl		50	10108.09	
					Acqueti Mat 1 /0	LVT		52	10110.18	
					ACOUSII-MIUL 1/0	Ceramic Tile		50	10110.24	
						Engineered Wood		51	10108.10	
						Carpet and Pad		77	10110.22	
						Bare or VersaTop		51	10109.17	
						Sheet Vinyl	58	55	10109.20	
					Acqueti Mat 1 /A	LVT		54	10109.18	
					Acousii-Mui 1/4	Ceramic Tile		56	10109.24	1510
						Engineered Wood		56	10109.21	L518 L530
						Carpet and Pad		81	10109.22	L547
						Bare or VersaTop		51	10108.30	L581
						Sheet Vinyl	59	55	10108.33	L583
			2 Lavers	Aco	Acousti-Mat 1/4 Premium	LVT		55	10108.32	M502
	Yes	Yes	5/8"			Ceramic Tile		57	10108.37	M506 M535
			(2x 16 mm)			Engineered Wood		56	10108.34	WH J20050694
12"				1"		Carpet and Pad		83	10108.35	ICC ESR 1141 ICC ESR 1153
				(25 mm)		Bare or VersaTop		51	10110.09	ICC ESR 1305
						Sheet Vinyl	58	56	10110.12	ICC ESR 2450
					Acoucti-Mat 3/8	LVT		55	10110.10	ICC ESR 2994
					ACODSILIMIUI 3/0	Ceramic Tile		59	10110.16	OL LIKO IIII
						Engineered Wood		58	10110.13	
						Carpet and Pad		77	10110.14	
						Bare or 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	
				11/ "		LVT		57	10108.24	
				(38 mm)	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 JOIST 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.

Min Trucc		Posiliont			Encanculated			Sound	d Rating	Mayyon III
Depth per UL	Insulation	Channel	Drywall	Min. Topping Depth	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
						Bare or VersaTop		46	10112.17	L212 L537 L501 L539 L502 L540
			_ /			Sheet Vinyl	57	51	10112.20	L502 L515 L503 L541 L504 L545
10"	Yes	Yes	5/8" (16 mm)			LVT		51	10112.19	L505 L556 L506 L557 L507 L569
]" (25 mm)	Acousti-Mat 1/4	Ceramic Tile		52	10112.24	L509 L581 L510 L583
				(23 1111)		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

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 for your project, contact your Maxxon Regional Representative at (800) 356-7887.

		Positiont		Min Tonning	Encanculated			Sound I	Rating
Truss/Joists	Insulation	Channel	Drywall	Depth	Sound Mat	Floor Covering*	STC**	IIC	Test Number
				N /A	Nono	Wood Subfloor	30 FSTC		3018-02-31573.7
				N/A	NOTE			33 FIIC	3018-02-31573.5
						Tile	47 FSTC		3018-02-31573.6
Dimensional				1-1/2" (38 mm)	Acousti-Mat 3/4	Engineered Wood on Pad		52 FIIC	3018-02-31573.4
Lumber	No	No	N/A	(22)		Vinyl		46 FIIC	3018-02-31573.3
				1-3/4" (44 mm)+	Acousti-Mat 3/4 + Acousti-Mat SBR	Bare or VersaTop	52 FSTC	51 FIIC	30160-04-62432
				3" concrete (76 mm)	Acousti-Mat 3/4 Premium	Bare or VersaTop		47 FIIC	D7299.02-13

+1-3/4" 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.



CONCRETE 1, 2, AND 3 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.

Concrete		Posiliont	Sucnandad		Min Tonning	Encanculated			Sound	Rating	Mayyon III
Depth	Insulation	Channel	Ceiling	Drywall	Depth	Sound Mat	Floor Covering*	STC**	IIC	Test Number	Fire Ratings
41	N.	N.	M.	N.	1" (25 mm)	Acousti-Mat 1/4	Bare or VersaTop		50 FIIC	30160-03-57761	J804
4	NO	NO	NO	NO	2" (51 mm)	Acousti-Mat 3/4	Bare or VersaTop		59 FIIC	30160-03-57761	J805
							υπ	52	52	H8289.01	
6"	No	No	No	No	N/A	Acousti-Top	LVI		∆IIC 22	H8289.01	
							Tile		∆IIC 19	7018019	
					N ZA	Nana	Para Constata	62 FSTC		18-0-0607.1	
					N/A	NOTIE	Dule Conciele		39 FIIC	18-0-0607.3	
							IJЛ	62 FSTC		18-0-0607.2	
					ן"	A	LVI		64 FIIC	18-0-0607.5	
			No	No	(25 mm)	ACOUSTI-MAT 1/4	Hardwood		60 FIIC	18-0-0607.7	
							Tile		61 FIIC	18-0-0607.6	
					11/2" (20 mm)	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	Bare or VersaTop		61 FIIC	30160-03-56381-5	
					N /A	News	Dave Converts	62 FSTC		30160-06-77973-1	
					N/A	None	Bare Concrete		42 FIIC	30160-06-77973-2	
					1/2"	Annet	Hardwood		60 FIIC	30160-06-77870	
			Yes	5/8" (16 mm)	(13 mm)	ACOUSTI-IOP	Tile		54 FIIC	30160-06-77870	
				(10 1111)	1" (25 mm)	Acousti-Mat 1/4	Tile		60 FIIC	30160-05-67282-2	
					11/2" (20 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	

*** Fire Ratings over 6"+ concrete do not require gypsum concrete.



LIGHT-GAUGE STEEL JOIST/ PLYWOOD SUBFLOOR 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.

			Posiliont		Min Tonning	Encanculated			So	ound Rating	Maxyon III
Joist Type	Subfloor	Insulation	Channel	Drywall	Depth	Sound Mat	Floor Covering*	STC**	IIC	Test Number	Fire Ratings
							Creat & Dad	51 FSTC		4140-94-2168.1	
					3/4" (19 mm)	None	Carpet & Paa		73 FIIC	4140-94-2168.2	
			Ver	5/8"	(17 1111)		LVT		49 FIIC	4140-94-2278]
Chint			res	(16 mm)			Tile		57 FIIC	FIIC 04-22-1]
C-JOISTS					1-1/2" (38 mm)	Acousti-Mat 3/4	Vinyl		57 FIIC	FIIC 04-22-2]
					(00 1111)		Hardwood		58 FIIC	FIIC 04-22-3]
			A	2 layers 5/8"	ן"	A	Tile		56 FIIC	06-24-1]
			ACOUSTIC CIIPS	(2 x 16 mm)	(25 mm)	ACOUSTI-MIDT 1/4	Carpet & Pad		71 FIIC	06-24-2	1507
	3/4" Wood	Ver					Bare or VersaTop	61	43	M3052.12	L527 L564
	Subfloor	res					LVT		52	M3052.06	L567
					3/4" (19 mm)	Acousti-Mat 1/8	Engineered Wood		56	M3052.08	L3/3
					(17 1111)		Tile		50	M3052.10	
Open			Vec	5/8"			Carpet & Pad		80	M3052.09	
Web Truss			Tes	(16 mm)			Bare or VersaTop	61	50	M3052.11]
							LVT		56	M3052.01	
					1" (25 mm)	Acousti-Mat 1/4	Engineered Wood		58	M3052.03]
					(20)		Tile		55	M3052.05	
							Carpet & Pad		84	M3052.04	



COMPOSITE CONCRETE WITH CORRUGATED STEEL DECK

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.

Concrete					Encansulated			So	ound Rating	Maxxon III
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	6561
over 9/16"	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	
01/" Links		Wire Hung		None	Acousti-Top	Tile		66 FIIC	NAC Centerpoint	
Concrete over	Yes	Airspace	5/8" (16 mm)	3/8" (10 mm)	Acousti-Top	Engineered Wood		64 FIIC	NAC Centerpoint	D502
Sieel Deck		Ceiling		1" (25 mm)	Acousti-Mat 1/4	Engineered Wood		64 FIIC	NAC Centerpoint	



LIGHT-GAUGE STEEL JOIST/ STEEL DECK SUBFLOOR 1 AND 2 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.

		Resilient		Min	Encanculated			Soun	d Rating	Mayyon III Fire	Similar								
Subfloor	Insulation	Channel	Drywall	Topping Depth	Sound Mat	Floor Covering*	STC**	IIC	Test Number	Ratings	ULs								
					Nana	Bare or VersaTop	56	39	10115.01										
					NOTIE	Carpet and Pad		73	10115.02										
						Bare or 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	0001***									
						Carpet and Pad		73	10117.06	G553***									
					Acousti-Mat 1/4	Bare or VersaTop		47	10114.01	G560*** G563***	G564								
						Sheet Vinyl		53	10114.04	G566*** G574***	G577 G578								
Steel Deck	Yes	Yes	5/8" (16 mm) Drywall			LVT	56	52	10114.02	G587	G579								
						Ceramic Tile		55	10114.08	6592 6597	G580 G581								
										Engineered Wood		54	10114.05	H502 M511	G582				
]"			Carpet and Pad		82	10114.06	ICC ESR # 2540***								
				1" (25 mm)					Bare or VersaTop		50	10115.07							
										Sheet Vinyl		53	10115.10						
					Acoucti Mat 2 /8	LVT	56	53	10115.09										
					ACONSILIMIT 2/ 0	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

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.

Concrete		Posiliont	Sucnondod			Encanculated			Sound	Rating	Maxyon III
Depth	Insulation	Channel	Ceiling	Drywall	Min. Topping Depth	Sound Mat	Floor Covering*	STC**	IIC	Test Number	Fire Ratings
<u>/</u> "	Vac	Vac	Vac	5/8"]"	Acoucti Mat 1 /A	Tile	59		RAL TL 98-108	
U	162	162	162	(16 mm)	(25 mm)	ACOUSII/MUI 1/4	The		57	RAL IN 98-12	
					1/2"	Nana	Bare or VersaTop	58 FSTC		5-896	J917
					(13 mm)	NOTIE	Carpet		75 FIIC	5-896-2	J919
						None	Bare Gypsum		18 FIIC	B2863.13	J920 J924
					3/4"		Tile		54 FIIC	B2863.04	J927 1931
					(19 mm)	Acousti-Mat 1/8	LVT		56 FIIC	B2863.05	J957
8"	No	No	No	None			Engineered Wood		58 FIIC	B2863.06	J958 J991
							Bare or VersaTop	61 FSTC		B5011.04	J994
					1" (25 mm)	Acousti-Mat 1/4	Tile		59 FIIC	B5011.04	UL ESK # 2540 UL ER #
							LVT		57 FIIC	B5011.04	8477-01
						Accust Mat 2 /0	Tile		61 FIIC	B2863.07	
							Wood		61 FIIC	B2863.09	



MASS TIMBER CROSS LAMINATED TIMBER (CLT)

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.

CLT







	Ceiling	(IT	Gynsum	Resilient		Encansulated		Floor		Sound	Rating
	Configuration	Assembly	Pour	Channel	Insulation	Sound Mat	Topical Mat	Covering*	STC**	IIC	Test Number
			ე "				None	Bare or VersaTop	55	47	Q7356.01
	EXPOSED		(51 mm)	None	N/A	Acousti-Mat 3/8 Premium	2 mm Armstrong Pad	LVT		51	G2463.08
	Exposed CLT		2"			Acousti-Mat	None	Bare or VersaTop	58	49	P4428.01
	DRYWALL DIRECT 2 Layers 5/8" (16 mm) directly applied to CLT		(51 mm)			3/4 Premium + Acousti-Mat SBR	1.4 mm Shaw Pad	LVT		54	P4428.03
L DIRECT	DRYWALL DIRECT 2 Layers 5/8" (16 mm) directly applied to CLT			None				Bare or VersaTop	52	46	K1279.01
	DRYWALL DIRECT 2 Layers 5/8" (16 mm) directly applied to CLT	5-ply 6-7/8" (175 mm)	1" (25 mm)		N/A	Acousti-Mat 3/8 Premium	None	LVT		48	K1279.02
	DRYWALL DIRECT 2 Layers 5/8" (16 mm) directly applied to CLT							Engineered Wood		47	K1279.04
			2"			Acousti-Mat	None	Bare or VersaTop	59	52	K1277.01
			(51 mm)†	NOTE	п/А	Acousti-Mat SBR	Acousti-Top	LVT on Concrete		55	K1277.02
DED CEILING								Bare or VersaTop	59	51	K1278.01
	<u>SUSPENDED</u> <u>CEILING</u> 2 Layers 5/8" (16 mm) directly applied to CLT + 1 layer 5/8" (16 mm) hung		0.75" (19 mm)		No	Acousti-Mat 1/8	/8 None	LVT		54	K1278.02
				Wire Hung, Armstrong				Engineered Wood		55	K1278.04
				+ 6" Air Space				Bare or VersaTop	63	60	K1279.05
			1" (25 mm)	6" Air Space	.e Yes	Acousti-Mat 3/8 Premium	at 3/8 um None	LVT		63	K1279.06
								Engineered Wood		62	K1279.08

[†] Normal-weight concrete topping slab.

CLT COMPOSITE



Coiling	CIT	Guncum	Posiliont		Encanculated	Tonical	Floor		Sound	Rating
Configuration	Assembly	Pour	Channel	Insulation	Sound Mat	Mat	Covering*	STC**	IIC	Test Number
	2.25"	1" (25 mm)	Nana	n /a	Acousti Mat 2 /0	Nono	Bare or VersaTop	52	50	K3094.97
EXPOSED	(57 mm) Concrete +	1 (25 11111)	None	n/ a	ACOUSTI-MUL 3/0	None	Engineered Wood		52	K3094.69
Composite CLT	5-piy 5.4 (137 mm) Comnosite	1-3/4"	Nere	- /-	Acousti-Mat	None	Bare or VersaTop	56	57	K3094.98
	Panel	(44 mm)+	None	n/ a	Acousti-Mat SBR	Acousti-Top	Engineered Wood		61	K4507.06

+1-3/4" 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 _

EXPOSED	Coiling	VIT	Gyncum	Posiliont		Encanculated		Floor		Sound	Rating
	Configuration	Assembly	Pour	Channel	Insulation	Sound Mat	Topical Mat	Covering*	STC**	IIC	Test Number
								Bare or VersaTop		41	L3827.03
							None	Engineered Wood	52	48	L3827.08
						Acousti-Mat 3/8		LVT		45	L3827.04
						Premium	2 mm Milliken Pad	LVT		50	P2528.02
	FXPOSED		2"				None	Carpet and Pad		83	L3827.10
	Exposed VLT		(51 mm)	No	N/A		Nono	Bare or VersaTop		49	L3827.55
							INOTIC	Engineered Wood		53	L3827.60
						Acousti-Mat	Acousti-Top	Engineered Wood	57	54	L3827.61
						3/4 Premium + Acousti-Mat SBR	None	LVT		52	L3827.56
							Acousti-Top	LVT		54	L3827.57
							None	Carpet and Pad		79	L3827.62
DRYWALL DIRECT								Bare or VersaTop		43	L3827.11
							None	Engineered Wood		48	L3827.16
					N/A	Acousti-Mat 3/8 Premium		LVT		46	L3827.12
							Acousti-Top	LVT	52	50	L3827.13
	DRYWALL DIRECT 2 Layers 5/8" (16 mm) directly applied to VLT						None	Carpet and Pad		83	L3827.18
			2"	No				Bare or VersaTop		51	L3827.63
	applied to VLT		(51 11111)'			Acousti-Mat 3/4 Premium + Acousti-Mat SBR	None	LVT		54	L3827.64
	applied to VLT						Acousti-Top	LVT		56	L3827.65
							None	Engineered Wood	58	53	L3827.68
		6-3/8"					Acousti-Top	Engineered Wood		55	L3827.69
							None	Carpet and Pad		79	L3827.70
SUSPENDED CEILING								Bare or VersaTop	58	51	L3827.37
ing a start of a start]" (25)			Acousti-Mat 1/8	None	Engineered Wood		54	L3827.39
			(25 mm)					LVT		53	L3827.38
				-				Bare or VersaTop		58	L3827.19
					No	Acousti-Mat 3/8	None	Engineered Wood	62	59	L3827.23
			2"			Premium		LVT		59	L3827.20
			(51 mm)					Bare or VersaTop	61	60	L3827.71
	SUSPENDED			Wire Hung		Acousti-Mat 3/4 Premium +	None	Engineered Wood		62	L3827.73
	2 Layers 5/8"			Armstrong		Acousti-Mat SBR		LVT		62	L3827.72
	(16 mm) directly			IIC Clip	<u> </u>			Bare or VersaTon	60	61	L3827.45
	+ 1 layer 5/8"	recity VLT /8" iung]"	6" Air Space		Acousti-Mat 1/8	None	Engineered Wood		64	L3827.47
	(16 mm) hung		(25 mm)					LVT		64	L3827.46
				1				Bare or VersaTon	61	61	13827 27
					Yes	Acousti-Mat 3/8	None	Engineered Wood	51	63	13827 31
			01			Premium		IVT		64	13827.28
			(51 mm)					Bare or VersaTon	62	64	13827.79
						Acousti-Mat	Nono	Engineered Wood	02	45	13827.81
						3/4 Premium + Acousti-Mat SBR	m + None SBR	Ligineeieu wood		05	LJ027.01

*Contact Maxxon for specific brand, thickness, and installation details. ** All tested assemblies will achieve a minimum of the published result. Specific STC value of the tested assembly listed in the corresponding sound test.



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



DRYWALL DIRECT

Coiling	דות	Gypsum Pour (in)	Resilient Channel	Insulation	Encanculated		Eloor	Sound Rating		
Configuration	Assembly				Sound Mat	Topical Mat	Covering*	STC**	IIC	Test Number
		1-1/2" (38 mm)	No	N/A	Acousti-Mat 3/8 Premium	None	Bare or VersaTop	54	45	K1274.01
							LVT		47	K1274.02
							Engineered Wood		47	K1274.04
EXPOSED		2-1/2" (64 mm)			Acousti-Mat 3/4 Premium Acousti-Mat	None	Bare or VersaTop	55	45	M8796.02
Exposed DLI	6"					1.5 mm Rubber Mat	LVT		50	M8796.03
						None	Bare or VersaTop	57	51	Q1631.01
					3/4 Premium + AcoustiMat SBR	1.5 mm Foam Mat	LVT		55 Q163	Q1631.03
DRYWALL DIRFCT		1-1/2" (38 mm)			Acousti-Mat 3/8 Premium	Nat 3/8 nium None	Bare or VersaTop	56	47	K1275.01
2 Layers 5/8"							LVT		49	K1275.02
(16mm) directly applied to DLT							Engineered Wood		49	K1275.04



MASS TIMBER MASS PLYWOOD PANEL (MPP)

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.

MPP ____

EXPOSED	Cailing	MDD	C	Destions		Г		rl	Sound Rating		
Institute and the second s	Configuration	Assembly	Pour (in)	Channel	Insulation	Sound Mat	Topical Mat	Covering*	STC**	IIC	Test Number
	EXPOSED				N ZA		None	Bare or VersaTop	54	41	K1283.07
	Exposed MPP				N/A		Acousti-Top	LVT		44	K1283.01
DRYWALL DIRECT	DRYWALL DIRECT		1-1/2" (28 mm)	No	No	Acousti-Mat 3/4 Promium	None	Bare or VersaTop	54	44	K1283.08
	(16mm) directly applied to MPP						Acousti-Top	LVT		46	K1283.02
	SUSPENDED CEILING	5"	(50 mm)	Wire Hung,		Tremium	None	Bare or VersaTop	61	52	K1283.03
SUSPENDED CETLING	2 Layers 5/8" (16mm) directly applied to MPP + 1 layer 5/8" (16 mm) hung <u>EXPOSED</u>			Armstrong IIC Clip + 6" Air Space	rong Clip No Air Ce		None	LVT		55	K1283.04
							None	Engineered Wood		55	K1283.06
		2"	No	N /A	Acousti-Mat	None	Bare or VersaTop	57	47	K1282.01	
	Exposed MPP		(51 mm)***			Acousti-Mat SBR	Acousti-Top	LVT on Concrete		51	K1282.02

"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.

For assistance determining the right systems and UL Fire Rating for your project, contact your Maxxon Regional Representative at (800) 356-7887.

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

- Maxxon Gyp-Crete® Basic
- Maxxon Gyp-Crete® 2000 Multifamily
- Maxxon Gyp-Crete[®] Radiant
- Maxxon Rapid Floor[®] Basic
- Maxxon Rapid Floor Basic
- Maxxon Rapid Floor[®] Multifamily

MAXXON HIGH-STRENGTH UNDERLAYMENTS

aluation 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 R847

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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