

**Dek C-Ment Technical Data:**

Compressive Strength (Modified ASTM C109)	Up to 4,000 psi Static Load to 3,500 psi
Density	Typical 115 lbs. per cubic foot
Thermal Resistance at 1" thickness:	R-0.202
Coefficient of Conductivity (K)	4.76 Btu/sf/hour/°F/inch thickness (.6854 W/[m•°C])
Specific Heat	229 Btu/(lb.°F) at 85°F (.9595 kJ/[kg•°C] at 29.44 °C)
Surface Burning Characteristics: (ASTM E84)	Flame Spread- 0, Fuel Contribution – 0 Smoke Development – 0
VOC Emissions	GREENGUARD Children & Schools SM Certified

Abrasive Test (ASTM D968)	2.9%
Water Absorption (ASTM D570-98)	Pass
Static Coefficient of Friction (ASTM C1028-96)	835
Freeze Thaw (ASTM C-67-03)	Pass
Spread of Flame (ASTM E108)	Class "A"
Impact Resistance (ASTM D3746-85)	Pass
Accelerated Aging (ASTM D756-93)	Pass
Tensile Strength (ASTM C297-94)	Pass
Chemical Resistance (ASTM D2299)	Pass

**Dek C-Ment Sound Test Results:**

	Floor System	Topping	Insulation	Resilient Channel	Ceiling Drywall	Hard Surface Flooring	Rating	Test Numbers
<b>UNDERLAYMENT ONLY</b>	<b>Wood Joist</b> w/ 5/8" (16 mm) plywood subfloor, 2"x10" (51 mm-254 mm) joists	3/4" (19 mm) Maxxon*	Yes	Yes	1/2" (13mm)	Yes	45 F-IIC	81-0081
		3/4" (19 mm) Maxxon*	Yes	Yes	1/2" (13mm)	None	54 F-STC	81-0081
	<b>TJI® Joist</b> w/3/4" (19mm) T&G OSB subfloor	3/4" (19 mm) Maxxon*	Yes	Yes	5/8" (16mm), 2 Layers	None	58-STC	TL96-250
	<b>Truss Plate Institute</b> w/ 3/4" (19 mm) T&G plywood subfloor	3/4" (19 mm) Maxxon*	Yes (blown-in)	Yes	5/8" (16mm)	Yes	57-STC	98 67280.10
3/4" (19 mm) Maxxon*		Yes (blown-in)	Yes	5/8" (16mm)	Yes	40-FIIC	98 67280.12	
<b>ACCOUSTI-MAT II</b>	<b>Parallel Chord Truss</b> 2"x4" (51x102 mm) w/ 3/4" (19 mm) OSB subfloor	1" (25 mm) Maxxon*	Yes	Yes	5/8" (16mm)	Yes	56 F-IIC	98 67280.5
		1" (25 mm) Maxxon*	Yes	Yes	5/8" (16mm)	Yes	56 F-STC	99 1736.7
	<b>TJI® Joist</b> w/3/4" (19mm) T&G OSB subfloor	1" (25 mm) Maxxon*	Yes	Yes	5/8" (16mm)	Yes	52 F-IIC	99 1736.4
		1 1/4" (31.75 mm) Maxxon*	Yes	Yes	2 layers of 5/8"	Yes	53 F-IIC	48-06-5
<b>ENKASONIC</b>	<b>Wood Joist</b> w/ 5/8" (16 mm) plywood subfloor, 2"x10" (51 mm-254 mm) joists	1 1/2" (38 mm) Maxxon*	Yes	Yes	5/8" (16mm)	Yes	57 IIC	IN88-2
		1 1/2" (38 mm) Maxxon*	Yes	Yes	5/8" (16mm)	Yes	59 IIC	7004073
	<b>Parallel Chord Truss</b> 18" deep, 24" OC plywood subfloor	1 1/2" (38 mm) Maxxon*	Yes	Yes	5/8" (16mm)	Yes	58 STC	5004024
		1 1/2" (38 mm) Maxxon*	Yes	Yes	2 layers of 5/8"	Yes	56 F-IIC	48-06-01
<b>TJI® Joist</b> w/3/4" (19mm) T&G plywood subfloor	1 1/2" (38 mm) Maxxon*	Yes	Yes	2 layers of 5/8"	Yes	57 F-STC	48-06-02	
	1 1/2" (38 mm) Maxxon*	Yes	Yes	2 layers of 5/8"	Yes	57 F-IIC	48-06-02	
<b>ACCOUSTI-MAT 3</b>	<b>Steel Joist 12" Deep</b> (305 mm) w/3/4" (19mm) T&G plywood subfloor	1 1/2" (38 mm) Maxxon*	Yes	Yes	5/8" (16mm)	Yes	57 F-IIC	04-22-1
		1 1/2" (38 mm) Maxxon*	Yes	Yes	2 layers of 5/8"	Yes	58 F-IIC	48-06-03
	<b>TJI® Joist</b> w/3/4" (19mm) T&G plywood subfloor	1 1/2" (38 mm) Maxxon*	Yes	Yes	2 layers of 5/8"	Yes	59 F-STC	48-06-04
		1 1/2" (38 mm) Maxxon*	Yes	Yes	2 layers of 5/8"	Yes	63 F-IIC	RO5200
<b>Parallel Chord Truss</b> 20" deep, 24" OC	1 1/2" (38 mm) Maxxon*	Yes	Yes	2 layers of 5/8"	Yes	63 F-IIC	RO5200	

† See test report for full description of assembly. \*Approved Maxxon Underlayment.

The international Building Code requires a minimum of 45 for field STC and Field IIC.

NOTE: FSTC — Field Sound Transmission Class in accordance with ANSI/ASTM E336 and E413.  
STC — Sound Transmission Class in accordance with ASTM E90 and E413.  
IIC — Impact Insulation Class in accordance with ASTM E492.  
FIIC — Field Impact Insulation Class in accordance with ASTM E1007 and E989.

All acoustical testing was done by Riverbank Testing Laboratories; Intest, Inc.; Twin City Testing Corporation; San Diego Acoustics; or D.L. Adams Associates, L.T.D. For type of floor covering used, minimum 60 STC spacing and IIC and is other recommended. information, Systems contact Maxxon attaining for ratings test less reports than by 55 number STC . and For IIC good provide acoustical only marginal performance, acoustical the selection performance. The floor/ceiling system attaining a minimum 60 STC and IIC is recommended. Systems attaining ratings less than 55 STC and IIC provide only marginal acoustical performance. The Maxxon floor underlayments and Acousti-Mat are but single components of an effective sound control system. No sound control system is better than its weakest component. Care must be taken in the installation of all components of construction to ensure the ultimate designed acoustical performance.