

DEK C-MENT SYSTEM
ACOUSTICAL & WATERPROOF PERFORMANCE



Dek C-Ment™ Technical Data:

Compressive Strength:.....Up to 4,000 psi (28.0 MPa) when tested in accordance with modified ASTM C109. Static loading to 3,500 psi (24.1 MPa)

Density:.....Typical density is 115 lbs. per cubic foot (1842 kg/m³)

Thermal Resistance at 1" (25mm) 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.....Flame Spread- 0, Fuel Contribution – 0, Smoke Development – 0. (ASTM E84)

VOC Emissions:.....GREENGUARD Children & Schools SM Certified

Con-Dek® System Technical Data:

Spread of Flame:.....Class "A"
Intermittent Flame Burning Brand, ASTM E108.....Fire Rating

Abrasion Resistance: ASTM D968.....2.9%

Static Coefficient of Friction: ASTM C1028-96.....0.835

Water Absorption: ASTM D570-98Pass

Impact Resistance: ASTM D3746-85.....Pass

Freeze Thaw: ASTM C67-03Pass

Accelerated Aging: ASTM D756-93.....Pass

Tensile Strength: ASTM C297-94.....Pass

Chemical Resistance: ASTM D2299.....Pass

Code Listing: ICC-ESR 2097.....Pass

Dek C-Ment™ Sound Test Results

UNDERLAYMENT ONLY	Floor System	Topping	Insulation	Resilient Channel	Ceiling Drywall	Hard Surface Flooring	Rating	Test Numbers
	Wood Joist 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
	TJI® Joist 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
	Truss Plate Institute 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
ACOUSTI-MAT II	Parallel Chord Truss 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
		1" (25 mm) Maxxon*	Yes	Yes	5/8" (16mm)	Yes	52 F-IIC	99 1736.4
	TJI® Joist w/3/4" (19mm) T&G OSB subfloor	1 1/4" (31.75 mm) Maxxon*	Yes	Yes	2 layers of 5/8"	Yes	53 F-IIC	48-06-5
ENKASONIC	Wood Joist 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
	Parallel Chord Truss 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
	TJI® Joist 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
ACOUSTI-MAT 3	Steel Joist 12" Deep (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
		TJI® Joist 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
	Parallel Chord Truss 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
STC — Sound Transmission Class in accordance with ASTM E90 and
IIC — Impact Insulation Class in accordance with ASTM E492.
FIIC — Field Impact Insulation Class in accordance with ASTM E1007 and

E336 and E413.
E413.
E989.

All acoustical testing was done by Riverbank Testing Laboratories; Intest, Inc.; Twin type of floor covering used, channel spacing and other information, contact Maxxon floor/ceiling system attaining a minimum 60 STC and IIC is recommended. Systems The Maxxon floor underlayments and Acousti-Mat® are but single components of component. Care must be taken in the installation of all components of construction

City Testing Corporation; San Diego Acoustics; or D.L. Adams Associates, L.T.D. For for test reports by number. For good acoustical performance, the selection of a attaining ratings less than 55 STC and IIC provide only marginal acoustical performance. an effective sound control system. No sound control system is better than its weakest to ensure the ultimate designed acoustical performance.

