

DESCRIPTION

Treadstone[®] R1 Sound Attenuating Mat is a diamond studded membrane made of a mix of UV stabilized recycled polyethylene, laminated to a polypropylene fabric. The rigid studded technology of R1 delivers superior durability and enhanced acoustic performance in the most challenging of projects.

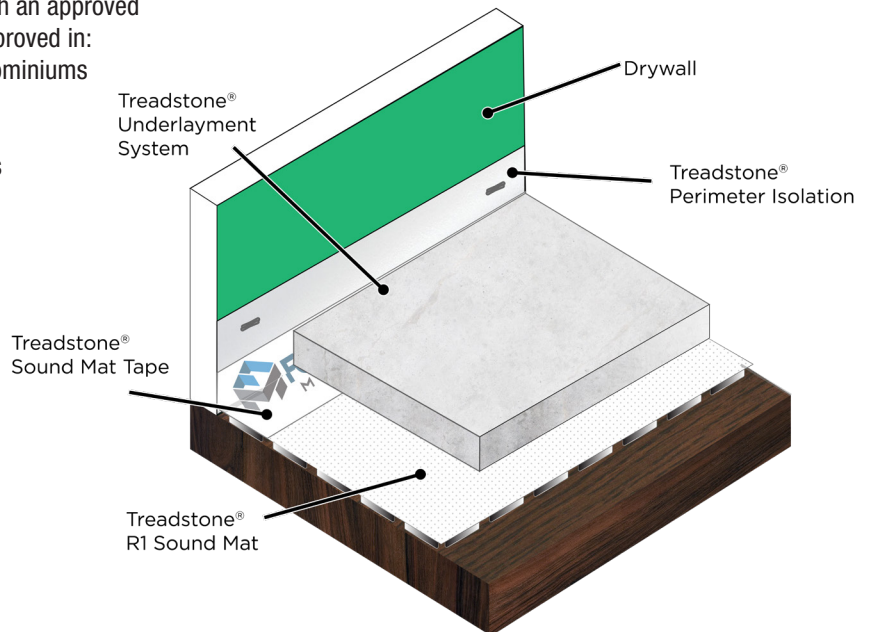
TREADSTONE[®]

R1 is loose-laid over the substrate and then covered with a uniform thickness of an approved Treadstone[®] Underlayment Product. Mechanical Fastening is not required, providing a system profile thickness as thin as 7/8" (22.23 mm).

- IST (Interlocking Seam Technology) creates a monolithic surface, eliminating cracks and failures common in competing products
- R1 creates a waterproof, odor barrier protecting adjacent floors from moisture and odors
- Super low profile of 1/8" (3.05mm)
- 3/4" underlayment depth reduces overall weight of the assembly and reduces drying time
- Industry leading compression resistance increase lifespan and acoustical performance of the floor assembly
- Because this system is embedded, noise problems are reduced, even when floor coverings are changed or replaced
- UL listed in over 110 designs, for specific design or data contact us at info@formulatedmaterials.com

Treadstone[®] R1 Sound Attenuating Mat in conjunction with an approved Treadstone[®] Underlayment, is recommended and approved in:

- Multi-Family Construction-Apartments-Hotels-Condominiums
- Residential and Single Family
- Commercial Office Space
- Renovation of old wood frame or concrete structures



TECHNICAL DATA

SOUND TEST DATA

Assembly	Treadstone Underlayment	Finished Floor Covering	STC	IIC	HIIC
18" Truss Joist, 24" O.C, T&G Deck, Single Layer Batt Insulation, RC-1, 5/8" Ceiling Board	3/4"	Vinyl	59	53	57
		Tile	60	54	56
		Engineered Wood	59	54	62
	1"	Vinyl	59	54	57
		Tile	59	54	57
		Engineered Wood	59	55	62

TECHNICAL DATA *(Continued)***MECHANICAL RESISTANCE**

Pressure	Deflection	
315 psf (1,537.97 kg/m ²)	0.0071" (.18 mm)	
982 psf (4,794.54 kg/m ²)	0.0141" (.36 mm)	
2994 psf (14,617.99 kg/m ²)	0.0283" (.72 mm)	
5306 psf (25,906.16 kg/m ²)	0.0425" (1.08 mm)	
7952 psf (38,825.06 kg/m ²)	0.0567" (1.44 mm)	
10019 psf (48,917.04 kg/m ²)	0.0709" (1.8 mm)	<i>All testing conducted per ASTM D1261</i>

PACKAGING**DIMENSIONS/PACKAGING**

Weight	EN 965	lb/sq ft	0.10
Thickness	EN964-1	inches	0.12
Width with flap		inches	39
Length		ft	98.25
Roll area		ft ²	370
Roll weight		lb	43.2
Rolls per pallet		n	8 standing

INSTALLATION**SURFACE PREPARATION**

Clean, remove all foreign matter from surface. Surface must be dry.

APPLICATION

Treadstone® R1 Sound Attenuating Mat is to be installed by a licensed Treadstone® Dealer. The building must be closed in with a minimum of 50 degrees F, maintained for a period of 5-7 days during and after the installation of Treadstone® R1 and Treadstone® Underlayment. R1 is loose laid on the subfloor with seams tightly abutted. When seams are properly aligned, fasten by peeling plastic film from butyl adhesive strip, maintaining tension on the overlapping flap as you press firmly into the adhesive. It is recommended that this process is performed from the side of the piece with the adhesive strip, allowing you to ensure proper alignment of the seam. Ensure that the entire seam is bonded by applying pressure to the flap directly above the adhesive strip. The perimeter of rooms, adjoining walls, all fixed objects, and mechanical penetrations must be isolated with Treadstone® Perimeter Isolation Strip.

STORAGE

Store in dry conditions.

LIMITATIONS

- Treadstone® R1 is only one component of the floor ceiling assembly and overall noise reduction strategy. While using Treadstone® R1 will improve the overall acoustics performance of the assembly, the exact amount or minimum performance cannot be guaranteed. Formulated Materials recommends contacting an acoustical consultant for recommendations regarding the acoustical performance of any and all projects.
- To minimize risk of damage to the Treadstone® Underlayment, installation of R1 and underlayment is recommended after drywall. For installation prior to drywall, contact Formulated Materials for recommendations.
- Treadstone® Underlayment thickness/compressive strength recommendations
 - Residential/Multifamily Construction: 3/4" (19.05mm) at 2,000 psi minimum
 - Light Commercial: 3/4" (19.05mm) at 3,000psi minimum

UL DESIGNS

G230	G516	G524	G561	G577	G578	G579	G580	G581	G582	G587	G592	H502	J917	J919
J920	J924	J927	J931	J957	J958	J991	J994	L006	L201	L202	L206	L209	L210	L211
L212	L501	L502	L503	L504	L505	L506	L507	L508	L509	L510	L511	L512	L513	L514
L515	L516	L517	L518	L519	L520	L522	L523	L524	L525	L526	L527	L528	L529	L530
L532	L533	L534	L535	L536	L537	L538	L539	L540	L541	L542	L543	L545	L546	L549
L550	L551	L552	L556	L557	L558	L560	L562	L563	L565	L570	L573	L574	L576	L577
L579	L581	L583	L585	L587	L588	L589	L590	L592	L593	M500	M502	M503	M504	M506
M508	M511	M512	M513	M515	M517	M519	M530	M531	M535	M536				