

## DESCRIPTION

Treadstone™ R2 Sound Attenuating Mat is a cylindrical studded membrane made of a mix of UV stabilized recycled polyolephines, laminated to a polypropylene fabric. The rigid studded technology of R2 delivers superior durability and enhanced acoustic performance in the most challenging of projects.



Treadstone™R2 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 1.15" (29.2 mm).

- In conjunction with 1" of Treadstone™ Underlayment, the installed system can reduce impact noise (IIC) up to 12 dB in wood framed assemblies. Refer to Treadstone™ Acoustical Design Guide for acoustical test performance, or contact Formulated Materials for specific test data.
- Polypropylene barrier fabric
- Low profile; .15" or 3.8mm
- Excellent noise control performance with a spectrum of floor covering options.
- Industry leading compression resistance
- 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](mailto:info@formulatedmaterials.com).

Treadstone™R2 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 (Continues)

### FABRIC

Raw material	Polypropylene					
Weight	EN 1849-1	g/m2	75	oz/yd2	2.21	±10%
Thickness	EN 1849-1	mm	0.75	in	0.03	±15%
Width		m	1.14	in	45	±2%
Tensile strength (mean)	EN 29073/3	N	115			±15%
Elongation at max load (mean)	EN 29073/3	%	90			

### CORE

Raw material	Mix of Polyethylene and Polypropylene					
Weight		g/m2	500	lb/ft2	0.1	±10%
Width		m	1.08	ft	3.54	±2%

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

Compression and deflection	Compression res.			Residual thickness	
	(kPa)	(psf)	time	(mm)	(in)
	2	41.8	0	3.90	0.15
	5	104.4	0	3.80	0.15
	5	104.4	1 week	3.73	0.15
	5	104.4	1 month	3.72	0.15
	5	104.4	3 months	3.70	0.15

**PACKAGING****DIMENSIONS/PACKAGING**

Weight	EN 965	g/m2	<b>575</b>	lb/ft2	<b>0.12</b>	<b>±2%</b>
Thickness	EN964-1	mm	<b>3.8</b>	in	<b>0.15</b>	<b>±2%</b>
Adhesive tape for overlapping	<b>butyl strip</b>					
Width with flap		m	<b>1.14</b>	in	<b>45.0</b>	<b>±2%</b>
Length		m	<b>27.4</b>	ft	<b>90</b>	<b>±2%</b>
Roll area		m2	<b>31.2</b>	ft2	<b>340</b>	<b>±4%</b>
Roll diameter		0	<b>42.6</b>	in	<b>16.8</b>	<b>±10%</b>
Roll weight		kg	<b>17.5</b>	lbs	<b>37.6</b>	<b>±10%</b>
Rolls per pallet		number	<b>6</b>	n	<b>6</b>	

**INSTALLATION****SURFACE PREPARATION**

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

**APPLICATION**

Treadstone™ R2 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™ R2 and Treadstone™ Underlayment. R2 is loose laid on the subfloor with seams tightly joined and fastened by peeling plastic film from butyl strip of overlap flap, and pressing firmly to the adjoining R2. 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™ R2 is only one component of the floor ceiling assembly and overall noise reduction strategy. While using Treadstone™ R2 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 R2 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: 1" (25.4mm) at 2,000 psi minimum
  - Light Commercial: 1" (25.4mm) 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					

