

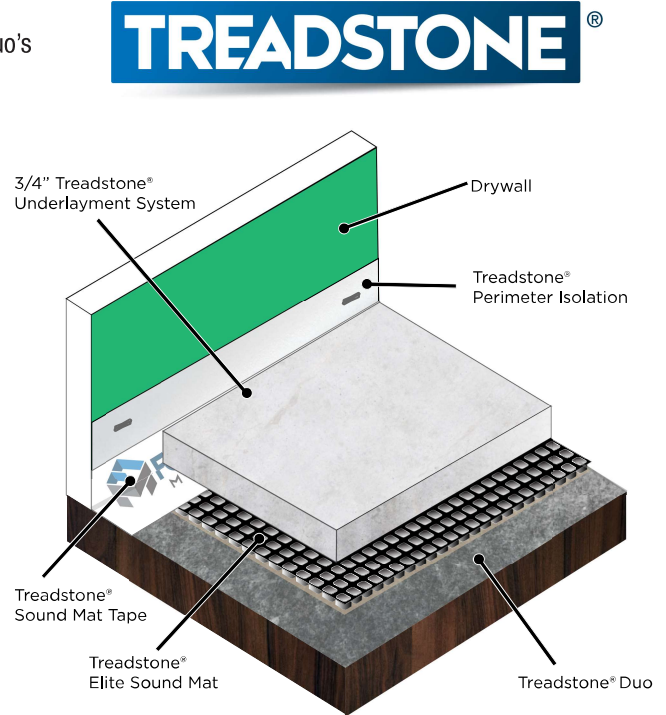
### DESCRIPTION

Combining two new innovative technologies that provide unmatched acoustical performance and durability in a patent pending sound mat. Treadstone<sup>®</sup> Elite Duo's industry leading deflection/compression innovation allows for Treadstone<sup>®</sup> underlayment depths of 3/4" min. providing an overall thickness of just over 1".

**Treadstone<sup>®</sup> Elite Duo** – Monolithic, rolled plastic core membrane comprised of polyethylene and polypropylene, in a high compression resistance cusped HDPE design. Provides compression/deflection resistance never seen in an acoustical sound mat product. Needle punched non-woven polyester low frequency benefit.

#### Benefits:

- Light / flexible for easy installation
- 20,000lbs per sf for 1mm of deflection
- UL Listed in 116 designs
- Can increase IIC values 15-17db in wood framed construction
- Reduced underlayment thickness allows for faster underlayment drying time. Ready for floor covering in 7-10 days
- 98% post-consumer recycled content
- Provides a moisture-vapor and odor barrier
- Ideal for concrete construction
- LEED Credits; Materials and Resources - MR 3, MR 4, MR 5, MR 6; Indoor Environmental Quality IEQ 1, IEQ 2; Innovation and Design Process – IDP 1



### ACOUSTICAL PERFORMANCE

Refer to Treadstone<sup>®</sup> Acoustical Guide for acoustical performance.

### TYPICAL PHYSICAL PROPERTIES

#### Treadstone<sup>®</sup> Elite Duo

##### Physical Properties:

- Weight: .164 lbs per sf
- Thickness: .375 in. (3/8")
- Width: 3.75'
- Length: 90'
- SF per roll: 333
- Roll weight: 55 lbs
- Rolls per pallet: 6 rolls

##### Mechanical Resistance

Pressure	Deflection
674 psf (3,290.76 kg/m <sup>2</sup> )	.0098" (.25mm)
5,000 psf (24,412.14 kg/m <sup>2</sup> )	.0197" (.5mm)
21,000 psf (102,531 kg/m <sup>2</sup> )	.0394" (1mm)

## INSTALLATION

### SURFACE PREPARATION

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

### APPLICATION

Treadstone® Elite Duo Sound Attenuating System is to be installed by a qualified 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® Elite and Treadstone® Underlayment. Duo is loose laid on the subfloor with seams tightly abutting and sealed using Treadstone® Seam Tape.

Perimeter isolation provided through the use of Treadstone® PI. Install Treadstone® Perimeter Isolation from the top of Elite Duo running up the wall with adhesive face against the drywall, continuing at all perimeters of sound mat surface area. If required, fasten the isolation strip using staples. Ensure staples are placed above the elevation of the intended pour thickness. Once Perimeter Isolation is installed, seal joint between Treadstone® Perimeter Isolation and Treadstone® Sound Attenuating Mat using Treadstone® Sound Mat Tape. Continue the same process for all perimeters, all fixed objects, and all MEP penetrations.

### STORAGE

Store in dry conditions.

## LIMITATIONS

- Treadstone® Elite Duo is only one component of the floor ceiling assembly and overall noise reduction strategy. While using Treadstone® Elite/Elite Duo 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 Elite Duo 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: .75" (38mm) at 2,000 psi minimum
  - Light Commercial: .75" (38mm) at 3,000psi minimum
- Currently requires of a min. of ¾" underlayment depth over concrete structures

## 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														