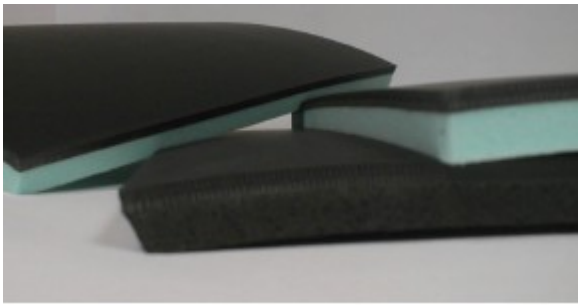
Trademark SOUNDPROOFING

Carpet Underlayment

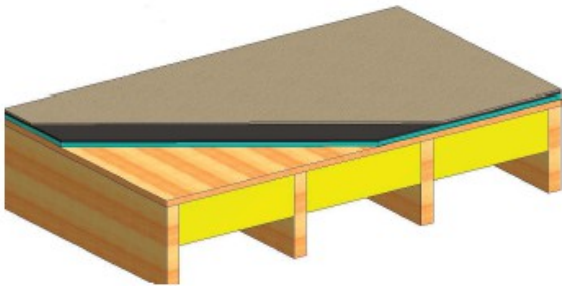
Product Data



Our Premium Acoustic Carpet Underlayment is specially designed as an easily installed product to reduce the transmission of noise through floor assemblies from both air borne and structure borne sources such as talking or walking impact. Premium Underlayment consists of a resilient acoustic foam layer with Tuff-Mass barrier bonded to one side. The resiliency of the foam acts to cushion footfall and other impact type noises while providing a plush underfoot feel. Adding a layer of Tuff-Mass to the padding provides a decoupled mass layer effect which is highly effective at stopping noise in the speaking frequencies as well as other living noises.

Installation of Premium Carpet Underlayment is straight-forward in new or existing applications with no specialty tools required. Simply roll out the underlayment (barrier side up) and fit the carpet directly on top. In cases where a tack strip is used stop the underlayment at the inside edge of the tack strip and tack the carpet in place.

In any living or working arrangement where noise from one space is impacting the usability of spaces above or below Premium Carpet Underlayment should be considered. With the ability to significantly reduce noise at frequencies as low as 250Hz this product is highly effective at reducing speaking frequencies, A/V and home theater noise, domestic mechanical equipment and a range of other noise sources found in close quarters living or working environments.



Premium Carpet Underlayment is installed on the sub floor below the carpet. It is important that the mass layer (black side) be installed on the top for optimal performance.

Features:

- Easy to use and install.
- A low cost solution for noise transmission problems.
- Increased privacy
- No need for additional carpet pad.
- Firm, yet comfortable underfoot feel.

Materials	Total Thickness	Foam	Mass Layer
2 lb/ft,sq 1/2"	3/4 inch	1/2 inch thick	2 pounds per square foot
2 lb/ft,sq 1/4"	1/2 inch	1/4 inch thick	2 pounds per square foot
1 lb/ft,sq 1/2"	5/8 inch	1/2 inch thick	1 pound per square foot
1 lb/ft,sq 1/4"	3/8 inch	1/4 inch thick	1 pound per square foot
.5 lb/ft,sq 1/2"	9/16 inch	1/2 inch thick	1/2 pound per square foot
.5 lb/ft,sq 1/4"	5/16 inch	1/4 inch thick	1/2 pound per square foot

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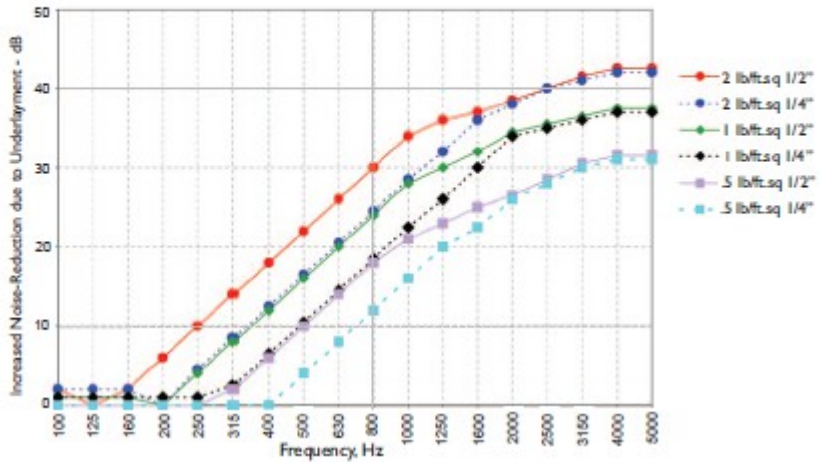
Typical Physical Properties

Thickness	1/4" to 3/4"	Stiffness, MPA (Barrier) ASTM 749	19.60
Weight (per ft²)	.55 lbs. To 2.2 lbs.	Tensile, PSI (Barrier) ADSTM D 412	407
Flammability	Call for specific data	Elongation, % (Barrier) ASTM D 412	120
Specific Gravity (Barrier) ASTM D 798	1.80	Tear, lbs/1" (Barrier) ASTM D 624	77
Hardness (Barrier) Shore A 2 ASTM D 2240	90 Nominal	Temp Range, Fahrenheit (Composite)	-40 to 255 degrees

Enhanced Noise Reduction due to Carpet Underlay

Noise Reduction - Typical
for Carpet Underlayment of Various Weights and Thickness



Material Symbol	Foam Thickness		Mass Layer Density		Overall Thickness	
	Inches	mm	lb/ft 2	Kg/m 2	Inches	mm
	1/2	12	2	9.76	3/4	19
	1/4	6	2	9.76	1/2	12
	1/2	12	1	4.88	5/8	16
	1/4	6	1	4.88	3/8	9
	1/2	12	.5	2.44	9/16	14
	1/4	6	.5	2.44	5/16	8

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The Material:

There are a number of formats for this product, each one consisting of one of the foams listed with a vinyl loaded mass layer bonded to the top.

Material	100hz	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
2. lb/ft, sq. 1/2"	2	0	2	7	10	14	18	22	27	30	34	36	37	39	40	42	45	45
1. lb/ft, sq. 1/2"	2	2	2	0	5	8	12	17	20	24	29	30	33	35	36	37	38	38
.5 lb/ft, sq. 1/2"	0	0	0	0	0	3	7	10	14	18	22	24	25	28	29	32	33	33
2. lb/ft, sq. 1/4"	2	2	2	0	5	8	12	17	21	25	28	33	36	38	40	31	33	33
1. lb/ft, sq. 1/4"	2	2	2	2	2	4	8	11	17	19	24	26	30	35	36	37	38	38
.5 lb/ft, sq. 1/4"	0	0	0	0	0	0	0	4	8	12	17	20	23	27	29	30	32	32

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