Memtech Acoustics

PROSPEC® Barriers

Product Information



PROSPEC® Barriers are an optimal solution for isolating noisy machinery or improving the transmission loss of substandard walls and ceilings. This one-pound-per-square foot loaded-vinyl sheeting is engineered to stop noise transmission. PROSPEC Barrier will not resonate. When properly installed, PROSPEC Barrier will provide a high level of sound containment. The reinforced barrier has an interior mesh-like material allowing it to be hung like a curtain around the noise source. Office applications often involve using the barrier as a wall extension from the wall/ceiling junction up through the plenum to the deck. Other applications include installing it as a partition between manufacturing cells or around machines to help prevent the noise from reverberating through adjacent areas.

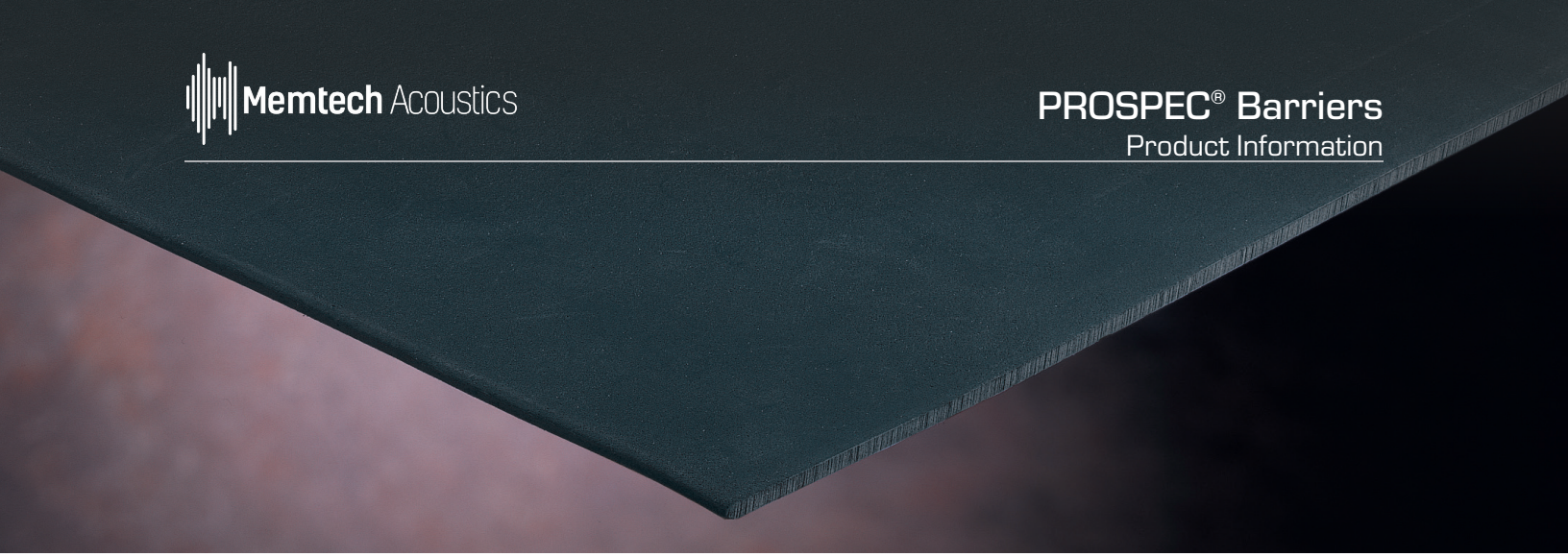
>> Advantages

- Reinforced and non-reinforced
- Ideal for containing noise and minimizing sound transmission through walls and/or ceilings
- Hang it like a curtain, weave it inside a wall cavity, or mount it over an existing wall to help contain noise

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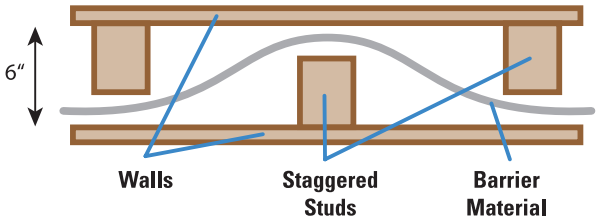


Installation: Reinforced

- Attach to walls
- Unrolled on top of suspended ceilings
- Weave between studs of a staggered-stud wall construction
- Can be stapled, nailed, screwed, glued or grommeted
- Hang like curtains from ceilings or support frames
- Use screws with washers to attach the top edge or clamp into place with a strip of wood or metal
- Overlap seams between sheets of barrier
- For indoor use only

Installation: Non-reinforced

- Wrap or lay barrier over noisy objects
- Secure with nails or screws with washers or staples
- Attached to an existing wall, apply furring strips intermittently along entire wall surface and attach the barrier to the furring strips
- In new construction, thread barrier through staggered studs as shown in the sketch below
- Glues are not recommended for long-term support



Staggered-stud wall construction.

Materials

- Reinforced barrier has an interior mesh-like material
- Resistant to fading and yellowing

Applications

- Virtually any place where you do not want noise, sound and/or conversations to travel into adjacent spaces

Physical Data — PROSPEC® Barriers

	Non-reinforced (Black)	Reinforced (Grey)
Material	1 lb./sq. ft. polyvinyl chloride (PVC) barrier	1 lb./sq. ft. loaded vinyl with polyester scrim reinforcing
Surface	Smooth	Pebble-textured on one side
Color	Black	Grey
Specific gravity	2.5	1.8 – 2.0
Flexibility	Limp	Limp
Tensile Strength	500 psi	200 psi
Tear Strength	–	60 ppi
Die C Tear	ASTM D412 100 lbs.	–
Elongation	200%	N/A
Flammability*	Passes MVSS 302 UL-94 HF	UL94V-1
Operating Temp	-20°F to 180°F (-29°C to 82°C)	-40°F to 200°F (-40°C to 93°C)
Thickness	1/8" (3 mm)	1/8" (3 mm)
Size	54" x 20', 30' or 60' (1372 mm x 6.10 m or 18.29 m)	54" x 20' or 60' (1371 mm x 6.10 m or 18.29 m)

*Check with local building codes.

Sound Transmission Loss

Transmission Loss Data							
Type	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	STC
Reinforced	13	17	21	28	33	40	26
Non-reinforced	13	17	22	26	32	37	26

>> Links

- LEED® Credit Statement
- Maintenance of Products

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