



- Reinforced, non-reinforced and clear
- 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

## 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 and when properly installed, 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.

The non-reinforced barrier is designed to be attached to walls, unrolled on top of suspended ceilings or woven between studs of a staggered-stud wall construction. To properly support the weight of this product when installed vertically, it is recommended to attach the barrier with nails or screws and washers or staples along the top edge and uniformly throughout the height and length of the barrier sheet.

Clear barrier is a see-through curtain material engineered to block sound without blocking vision. It is perfect for surrounding equipment and work areas where noise reduction is required and visual observation a must. PROSPEC Clear Barrier is resistant to fading and yellowing, easy to cut and install, and won't shrink after installation.

**Applications** – virtually any place where you do not want noise, sound and/or conversations to travel into adjacent spaces.

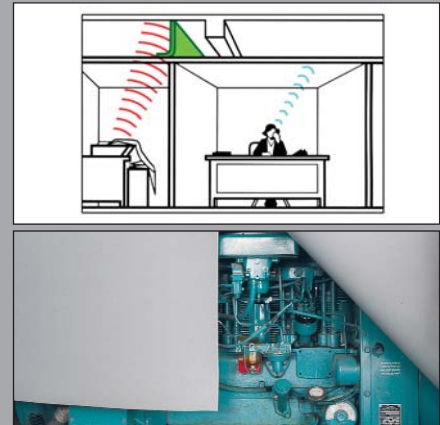
- Home theaters
- Apartment/condominium complexes (new construction)
- Hotels and convention centers
- Offices and schools
- Manufacturing facilities
- Machine enclosures
- Recording studios
- Hospitals and clinics

## How Do Barriers Work?

When sound waves hit a barrier, the barrier responds by vibrating. The barrier then takes on the properties of the originating sound and transmits the sound waves to the other side. However, the strength of the transmitted sound is lessened because of the weight and mass of the barrier.

As an example, brick wall will resist the vibration better than a thin sheet of plywood. The brick wall will still vibrate but, at a much lower rate than the plywood. Because of the small amount of vibration, the brick wall radiates very little of the sounds from the original noise source to the other side.

Thin, flexible PROSPEC Barriers are ideal for stopping sounds and are formulated as a heavy, limp mass that will not resonate. Their design enables them to stop more noise than conventional building materials many times thicker.

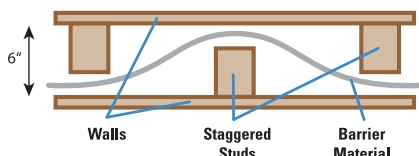


### Installation: Reinforced and Clear Barriers

- Can be stapled, nailed, screwed, glued or grommeted. They can also be hung like curtains from ceilings or support frames.
- When hanging, use screws with washers to attach the top edge or clamp into place with a strip of wood or metal.
- Designed for indoor use only.
- Be sure to overlap seams between sheets of barrier.

### Installation: Non-reinforced

- Wrap or lay barrier over noisy objects.
- Hold in place with nails or screws with washers or staples.
- When applied to an existing wall, first apply furring strips intermittently along entire wall surface, and then attach the barrier to the furring strips for added support and improved performance.
- 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.*

### Physical Data – PROSPEC® Barriers

|                  | Non-reinforced (Black)                          | Reinforced (Grey)   | Clear  |
|------------------|---|---|--|
| Material         | 1 lb./sq. ft. ethyl vinyl acetate (EVA) barrier | 1 lb./sq. ft. loaded vinyl with polyester scrim reinforcing | 1 lb./sq. ft. clear unreinforced barrier sheet |
| Surface          | Smooth  | Pebble-textured on one side                                 | Smooth   |
| Color            | Black   | Grey  | Clear  |
| Specific gravity | 2.5   | 1.8 - 2.0   | N/A  |
| Flexibility      | Limp  | Limp  | Limp   |
| Tensile Strength | 180 psi   | 200 psi   | 2400 psi                                       |
| Tear Strength    | 50 ppi  | 60 ppi  | 325 ppi  |
| Elongation       | 200%  | N/A   | 370%   |
| Flammability*    | Passes MVSS 302                                 | UL94V-1   | UL94 V-0                                       |
| Operating Temp   | 140 degrees Fahrenheit maximum                  | - 40 to +200 degrees Fahrenheit                             | 0 to 150 degrees Fahrenheit                    |
| Thickness        | 1/8"  | 1/8"  | 1/6"   |
| Size             | 54"x20', 54"x30', 54"x60'                       | 54"x20', 54"x60'  | 48"x60'  |

\* Check with local building codes.

### Sound Transmission Loss

| Transmission Loss Data Type | 125Hz | 250Hz | 500Hz | 1kHz | 2kHz | 4kHz | STC |
|-----------------------------|-------|-------|-------|------|------|------|-----|
| Clear                       | 14    | 19    | 23    | 28   | 33   | 37   | 26  |
| Reinforced                  | 13    | 17    | 21    | 28   | 33   | 40   | 26  |
| Non-reinforced              | 15    | 18    | 23    | 27   | 33   | 37   | 27  |

### Other Products

pinta acoustic, inc. manufactures a broad range of acoustical materials including:

- CONTOUR® Ceiling Tiles
- HARMONI™ Ceiling Tiles
- WHITELINE® Ceiling Tiles
- SQUARELINE® Metal Ceiling Tiles
- BIOLINE™ Wood Ceiling Tiles
- SONEX® Baffles and Panels
- FABRITEC™ Wall Panels
- PROSPEC® Barriers, Foams and Composites
- PROSPEC Decibel Drop™ Viscoelastic Damping Compound
- pinta Ceiling Grid Systems