

The Razorblade is a high-performance diffuser designed for professional studios and more demanding audio listening environments.

The full size 24" x 48" design with full 8" deep wells makes the Razorblade particularly effective at diffusing directional frequencies above 400Hz. The Razorblade's sequence has been optimized so that multiple units can be mounted side by side in a modular fashion. This enables the designer to set the desired number of diffusers in an array that will span the desired wall surface area. Once in place, problems such as modal distortion, flutter echo and standing waves are significantly reduced.

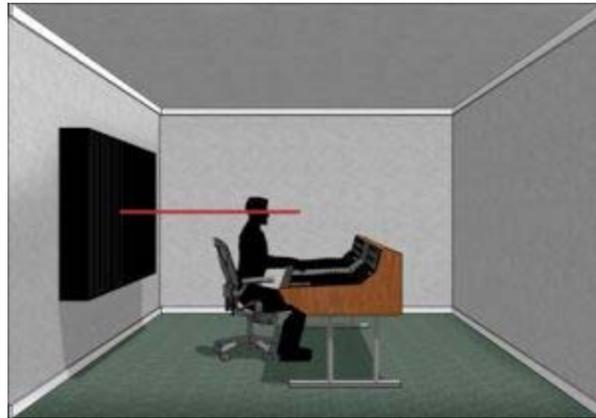


For a diffuser to work at lower frequencies, it must be heavy and rigid. This of course leads to questions such as placement and mounting. Good news is that we designed the Razorblade so that mounting is both easy and quick: Following the same approach one would take when mounting a series of kitchen cabinets, the Razorblade is designed to ride on top of a 'base rail' to carry its weight. Placement on the wall is generally 36" to 48" off the floor to allow for both sitting and standing positions.

Placement in the room is generally behind the listening position at an optimal distance. The general rule of thumb is to position the diffuser two ~ three times the lowest wavelength behind the listening position (further is better). Since the Razorblade is designed to work down to 400Hz, this ends up being about between six and eight feet away or 2 ~ 2.5 meters (Fig. A).

The Razorblade array should span the width of the listening area. If your console is 6 feet wide (2 meters), one would usually cluster three Razorblades together. Of course, a wider array will provide a wider diffuse area. For rooms with larger work areas, to save costs, some designers will combine products like the F Trap to treat the rear wall using a product that has a similar profile and dimensions.

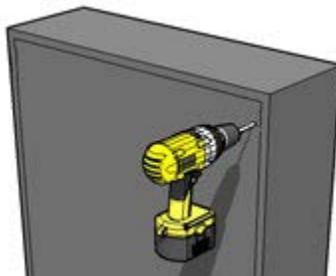
Basic Installation Procedure



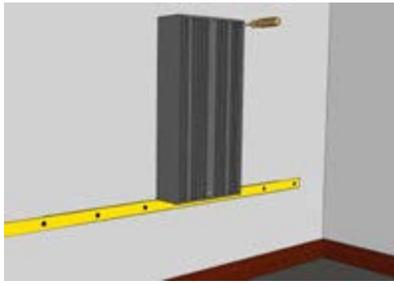
1. Set the height of the Razorblade by sitting in the listening position and measuring your ear height. The Razorblade should be positioned in such a way that it is balanced between the ear height and ceiling height or slightly higher.



2. Run a base line using a pencil mark. Cut a 3" thick rail (3/4" x 3") and screw it to the wall and make sure the rail is properly secured to the internal wall studs.



3. Prepare the top anchor points. Drill two holes through the back into the outer wells. These have been cleverly designed to reach all the way to the back, thus enabling them to be used with wall anchors. We recommend 1/4" toggle bolts.



4. Rest the Razorblade on the support rail, mark the anchor positions and attach the Razorblade to the wall. Because the weight will be resting on the support rail, the top two anchors need only to hold the Razorblade in place.