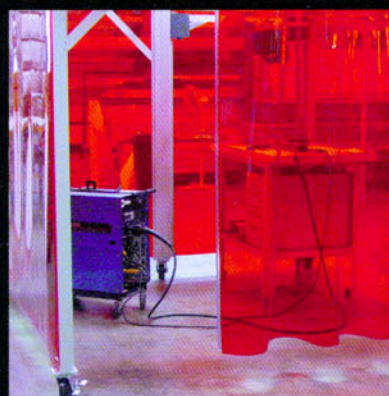




AirBlock Softwall Systems



CLEANROOM SOFTWALL SYSTEMS

DIVIDERS AND STRIP DOORS

 **SIMPLEX**TM
ISOLATION SYSTEMS



Expect a Full Measure of Quality.

The Advantages Are Clear

Simplex Commitment To Quality Is Only Equaled By Our Commitment To Service

Simplex was founded in 1979 with one simple goal: To provide the finest quality isolation systems on the market. We achieved this by setting new standards for the industry. At Simplex we understand the problems associated with today's cleanrooms, from ESD to outgassing. **Simplex uses the finest formulas available**, engineered to perform in today's demanding and high tech cleanrooms. Our minimum .040 thick vinyl curtains give you superior tear resistance and blur-free visibility. Simplex offers a multitude of mounting systems that are designed to install quickly, and to be an integral and functioning part of your cleanroom. **Simplex's commitment to quality is only equaled by our commitment to service.** We ship most orders within 48 hours. Simplex specializes in custom design and fabrication of isolation systems for your cleanroom needs.

Thank you for choosing Simplex - the quality difference with value.



Expect a Full Measure of Quality.



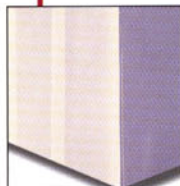
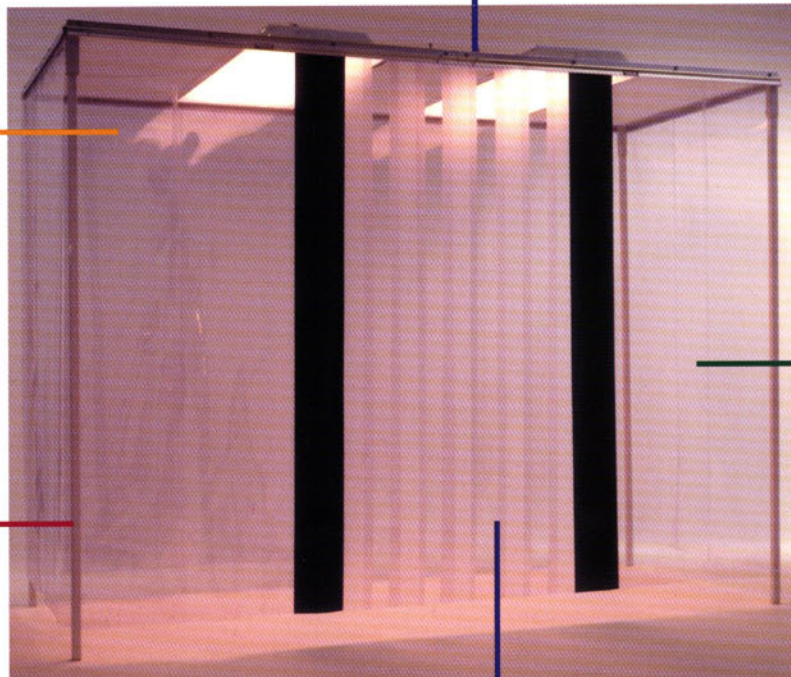
Largest Selection of High Quality Materials

Our softwalls come in a wide selection of colors, thicknesses and properties.



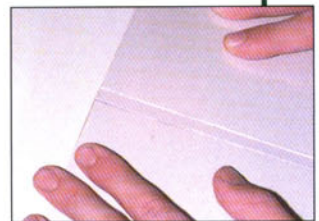
Mounting Systems

Simplex offers a variety of patented mounting systems, all engineered for easy installation and maximum performance.



Sealed Corners

Wraparound seals eliminate air loss or particle penetration at the corners. Our thicker vinyls require no hems or sash weights, and provide systems that are cleaner looking, easily adaptable, and longer lasting.



RF Welded Vinyl Seams

Simplex uses RF welding on all seams and attachments. Our seals provide a permanent bond that is cleaner and stronger than sewing. Sewing vinyl seams perforates and weakens the material, and frequent cleaning only accelerates this process. The result is premature product failure and a source of contamination.



Entryways

Simplex offers several types of entrances/exits. By alternating strips of clear vinyl with frosted vinyl, we eliminate both sticking and air gaps. This feature creates entrances that are easier to walk through.



CALL 1 800 854-7951 TODAY FOR A QUOTE, SPECIFICATIONS OR FREE DESIGN HELP



MOUNTING SYSTEMS

Hookbead, T-bar, Bi-fold Rail

Simplex Makes The Difference

What sets Simplex apart? Just about everything we do, from designs to materials to applications. AirBlock Softwall Systems from Simplex feature a selection of innovative mounting options that allow you to customize your cleanroom quickly and efficiently, as your needs change.

Simplex anodized aluminum mounting systems are designed to be an integral part of your cleanroom. Our two piece hookbead mounting tracks make installation of even large softwalls simple. Our exclusive T-Bar clip design allows you to attach to your existing t-grid ceiling without drilling. This allows you to easily change configurations without damage to your expensive cleanroom ceiling system. Options include epoxy powder coating or anodizing in colors to match your equipment or decor.

The innovative two-piece hookbead mounting system installs in minutes to any surface. All softwalls and strips come with the bonded hookbead. To install you simply hook the panels onto the track. Installation or replacement of the vinyl can be done from the front or by sliding the panels into or out of the track.



Suspended T-Bar Mounting for mounting onto existing 1", 1-1/2" or 2" suspended t-bar ceilings.



Bi-Folding Curtain Mounting available in anodized aluminum, galvanized or stainless steel.



Flatwall Mounting for mounting on frames or vertical surfaces



In-jamb Ceiling for mounting under headers, frames or on horizontal surfaces.



1. Mount the rear track. Hardware is provided for attachment to virtually any surface.



2. Unroll your new softwall panels and hook into place. Overlaps are automatic and strips are perfectly aligned every time.



3. Attach front plate with machine screws provided. Your installation is complete.

Flex Track

The Flex Track mounting system from Simplex is a sleek, white, one-piece mounting track fashioned from rigid PVC material and incorporates flexible hinge and bottom flanges. Mounting track, hinges and flange are extruded as one piece. The non-corrosive design, with no exterior mounting screws eliminates exterior crevices where contamination can accumulate. Flex Track snaps open and snaps shut again and again for quick assembly and disassembly. Simply hook softwall strips and solid curtains onto the track and close the continuous cover.



SOFTWALLS, MATERIALS AND STRIP SYSTEMS

Softwalls



AirBlock Systems increase product yields, reduce the possibility of cross contamination and improve employee safety.

AirBlock Systems are suitable for all classes of cleanrooms and for all levels of process isolation.

AirBlock softwalls are constructed from four-foot wide sheets of vinyl, RF welded to form either solid walls or movable curtains. AirBlock softwalls can be customized to virtually any size or shape. They are especially suitable for enclosing portable frame systems, or improving laminar flow areas above workspaces. Softwalls are used to further divide existing cleanrooms, effectively creating cleaner inner zones.

Thickness: 40 to 80 mil.

Compounds: Standard vinyl, static dissipative vinyl, non-outgassing static dissipative polyurethane, nylon non-outgassing film, or Class 1 fire rated reinforced vinyl fabric. (Note: Not all materials available in all colors. Contact factory for availability).

Colors: Clear, frosted, amber tint, smoke tint, white, blue, grey and black.

Styles: Fixed, solid softwalls. Bi-folding curtains. Sliding panels. Insulated panels.

Materials

Simplex uses only the finest quality materials available. These materials have been specifically formulated and have been fully tested to meet Simplex's highest standards. This guarantees that you will receive the best vinyl product on the market.

PolySim 509 Non-outgassing, Static Dissipative Polyurethane: PolySim 509 is made from an inherently static dissipative polyurethane that provides permanent, non-humidity dependent ESD protection for sensitive manufacturing conditions such as computer disk drives, microelectronics, optics and aerospace. There is no plasticizer used in PolySim, making the volatile condensable contaminants extremely low. Because PolySim is an alloy using high molecular weight materials, the static dissipation properties are permanent. **PolySim is also Class 1 fire rated** per flame spread and smoke test.

Thickness: 30 and 40 mil. **Colors:** Clear, white and black.

Static Dissipative Vinyl: Our ESD vinyl is manufactured with permanent built-in inhibitors. Unlike topical coatings, these inhibitors will not wear off and will last for the life of the curtain. Test results show surface resistivity of 1.8×10^{10} ohm/cm (ambient, 50% R.H.) per ASTM D257. **Colors:** Clear, frosted, white, black and amber tint.

Standard Cleanroom Grade Vinyl: Our standard vinyl is fire retardant and is low outgassing. For complete test results, consult your Simplex sales representative.

Thickness: 40, 60, 80, 120 and 160 mil.

Colors: Clear, frosted, white, amber tint, smoke tint, blue, grey, black and tan.

Reinforced Vinyl Coated Fabric: This tough vinyl coated polyester material is ideal for areas in your cleanroom or factory that require a Class 1 fire rating per the ASTM E-84 flame spread and smoke test.

Thickness: 18 oz. (25 mil).

Colors: White, black, blue, grey, red, yellow and translucent frosted.

Tested for Safety and Reliability: All Simplex softwall materials are fully tested. Test results are available for fire retardancy, ESD, outgassing, sound abatement, chemical resistibility and light transmission. Contact the factory for complete test results on the material required.

Strip Systems

AirBlock Strip Systems consist of overlapping individual strips, ideal for dividing cleanrooms, enclosing portable frame systems, conveyor openings or doorways where easy access is required. Simplex has developed patented mountings for fast installation of strip systems. The individual strips are designed to hang straight and maintain their overlaps. Our optional alternating clear and frosted non-stick design makes the Simplex system the easiest to walk through. This feature also prevents gaps which cause air loss.

Thickness: 40 to 160 mil.

Compounds: Standard vinyl, static dissipative vinyl, non-outgassing static dissipative polyurethane.

Colors: Clear, frosted, amber tint, smoke tint, white, blue, grey and black.

Styles: Fixed, hanging doors. Bi-folding curtains. Sliding strip sections. Insulated curtains.



Note: Not all colors and formulas are available in every thickness. Consult your Simplex representative for availability.

INSULATED SOFTWALLS AND VENTED CURTAINS



SoundBlock Softwall & Strip Systems

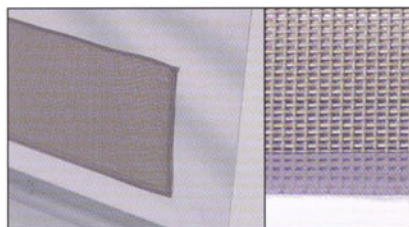


Sound Reduction with SoundBlock™

SoundBlock laminated curtains from Simplex are the only insulated curtains suitable for cleanroom use. They are semi-transparent and easy to see through ensuring worker safety. The vinyl-laminated design provides a highly effective sound curtain. At higher frequencies you can achieve as much as a 48-decibel reduction. **Thickness:** Approximately .5 in. **Colors:** clear, black, white and amber.

Insulated for Temperature Control

SoundBlock is also effective for temperature control. It can be ordered with a foil reflective insert that acts as a radiant heat barrier. For specific testing information, consult the factory.



Ventilated Softwall Curtains

Heavy-duty vinyl coated polyester screen mesh is RF welded into the vinyl curtains. This is ideal for when you want the curtains to be sealed to the floor but still require ventilation for positive pressure. The size and location of the screen mesh can be adjusted to cover a small area to the entire curtain. Airflow velocity is approximately 88 CFM per sq. foot.

Laser & Light Blocking Curtains

These specially designed softwall and curtain systems are popular for enclosing or dividing areas for special processes, such as laser functions, photo lithography and use in other light sensitive work areas. Simplex's opaque black vinyl blocks out 100% of the light transfer. The matte finish reduces light refraction. Curtains are also available with foil inserts for use with more powerful lasers. Simplex amber tinted curtains filter out various degrees of blue, yellow and harmful ultra-violet light. Light wavelength tests are available for our red and amber tint materials.

Thickness: 40 to 80 mil. **Softwall width:** Any size **Strip widths:** 8" to 48"

Styles: Solid softwall, Bi-folding curtains and Strips.

Important Liability Disclaimer: Due to the many different types of lasers Simplex does not make any performance claims for the laser protection contained in any of our curtains used for laser applications. It is solely the end user's responsibility to test samples of our curtains and their protective linings for performance and safety, to determine their usability for any given application. Free samples will be provided for testing upon request.



Amber And Red Tint
Light Filtering



Opaque Black Or White
Vinyl Or PolySim 509



3 - Ply Laser - 2 Layers
Of Vinyl Or PolySim Over
Foil Inner Layer -
black or white



Fabric Reinforced - Class 1
Fire Rated . . . Available In
Single Or 3-Ply Laser

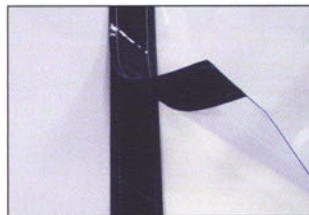


Closures & Fastening Options



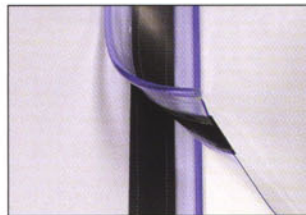
Dual Lock Fastener

This non-particulating clear 3-M® flexible fastening system has a plasticizer resistant adhesive and is ideal for attaching curtains vertically or horizontally to frames, hoods, benches or on overlaps.



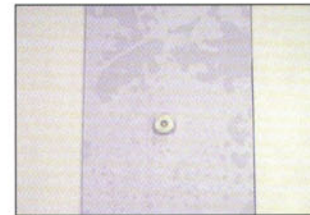
Hook and Loop Fastener

Is ideal for securing curtain overlaps. Attaches to vinyl with a plasticized resistant adhesive and then sewn.



Flexible Magnet Self-closures

Quality flexible chemical resistant magnet is ideal for sealing overlap areas where frequent access is required.



Overlap Retention Snaps

An inexpensive way of closing overlap areas of the curtains.

Application Guide

Simplex has more than twenty five years of experience in the fabrication of strip door systems and cleanroom design. We can design and fabricate a system to precisely meet your needs. The models listed are recommended for specific cleanroom applications. They can be used in various combinations to create a custom enclosure. If you are unable to locate the exact material you need our trained sales representatives can assist you in whatever requirements you have.

606 Series

- 6" wide strips, 60 mil thick with 1" to 3" overlaps
- Available in clear, frosted, anti-static, opaque black and amber tint.
- Excellent for personnel doors, conveyor openings and reach-through areas. Offers versatile and easy access at any point.

608 - 808 Series

- 8" wide strips, 60 or 80 mil thick with 1" to 4" overlaps.
- Available in clear, anti-static, frosted, black, blue, grey, beige and amber tint.
- The 8" wide 60 mil is ideal for wider doorways. The heavier 80 mil thickness offers more stability and better sealing power in turbulent areas. Both offer durability under heavy use. The 80 mil thickness is recommended for pallets or where forklift use is required. Colored strips can be used to highlight entrance points in softwall rooms.

4012 - 6012 Series

- 12" wide strips, 40 or 60 mil thick with 2" to 6" overlaps.
- Available in clear, anti-static, opaque black, amber and red tint.
- One of the most versatile and effective models for cleanrooms and dividers. The wider strip width reduces the number of strips required to cover an area, making its sealing capabilities more economical and efficient. The relatively light 40 to 60 mil thickness allows for easy access at any point. Situations involving higher traffic or more turbulent air flow are ideally applicable for the 60 mil vinyl.

40240 - 60240 Series

- 24" wide strip, 60 mil thick with 4" to 12" overlaps.
- Available in clear, anti-static, opaque black, white and amber tint.
- 24" strips can divide or enclose large areas economically and efficiently, while still allowing access through strips.

4048 - 6048 - 8048 Series

- 48" wide strips, 40, 60 or 80 mil thick with 6" to 12" overlaps.
- For the big jobs, our largest strips are the obvious choice. As permanent or temporary walls, these heavy-duty strips can effectively separate production facilities from general warehouse space.
- 40 mil thickness available in standard, clear, anti-static and in several colors.
- 80 mil thickness available in standard, clear, amber tint and anti-static.

Solid Softwalls: 400, 600 and 800 Series

- Solid Vinyl walls consist of 48" wide, 40, 60 or 80 mil panels electrically sealed together to create solid sheets of vinyl, available in virtually any size. For ease of installation, Simplex usually recommends running lengths of no more than 20' wide. For large areas of enclosure, we recommend overlapping the softwall section. These overlaps can act as the entrance points into the room or can be sealed off through a number of methods.
- Simplex's softwall systems are superior to 16 to 20 mil systems often used as substitutes. By eliminating hem and sash weights, the Simplex softwalls can easily be trimmed and adjusted on the job site itself.

Architectural Specifications

The Strip System/Softwall System: Shall be Model #____, utilizing an RF bonded Hook-Bead mount, as manufactured by Simplex Strip Doors, Inc. The system shall be sized to fit an opening _____ wide by _____ high. Materials shall be _____ mils thick, strip widths shall be _____ inches with _____ inch(es) overlap.

The Mounting Hardware shall be flat or in-jamb - two-piece anodized aluminum with curved relief flanges or white PVC Flex Mount, as manufactured by Simplex Strip Doors, Inc. Other application-specific mounting hardware, materials and custom finishes are available. Mounting hardware requiring punched holes, slits or notches (in vinyl) shall not be permitted.

Warranty

Simplex Warranty Simplex warrants their products to be free of manufacturing defects and against product failure of any kind for a period of one year from date of shipment. This includes premature yellowing or curling of strips (excluding those components that do not have UV protection - see sales rep for details). This warranty is limited to the repair or replacement of vinyl strips, vinyl panels or softwall materials and/or attaching hardware, and does not include damage resulting from accident or malicious misuse. This warranty further applies only when the recommended material thickness and width are used for the originally specified application. Further, it applies only to Simplex doors, softwalls or frame systems which are properly installed in accordance with Simplex installation instructions. Additional extended warranty may be available on certain applications. See individual application sheets or ask your representative. ARMOR-BOND lifetime guarantee applies to first 3 inches of strip where stress is the greatest and attaches to the mounting hardware. Remainder of strip applies to 1 year warranty.



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