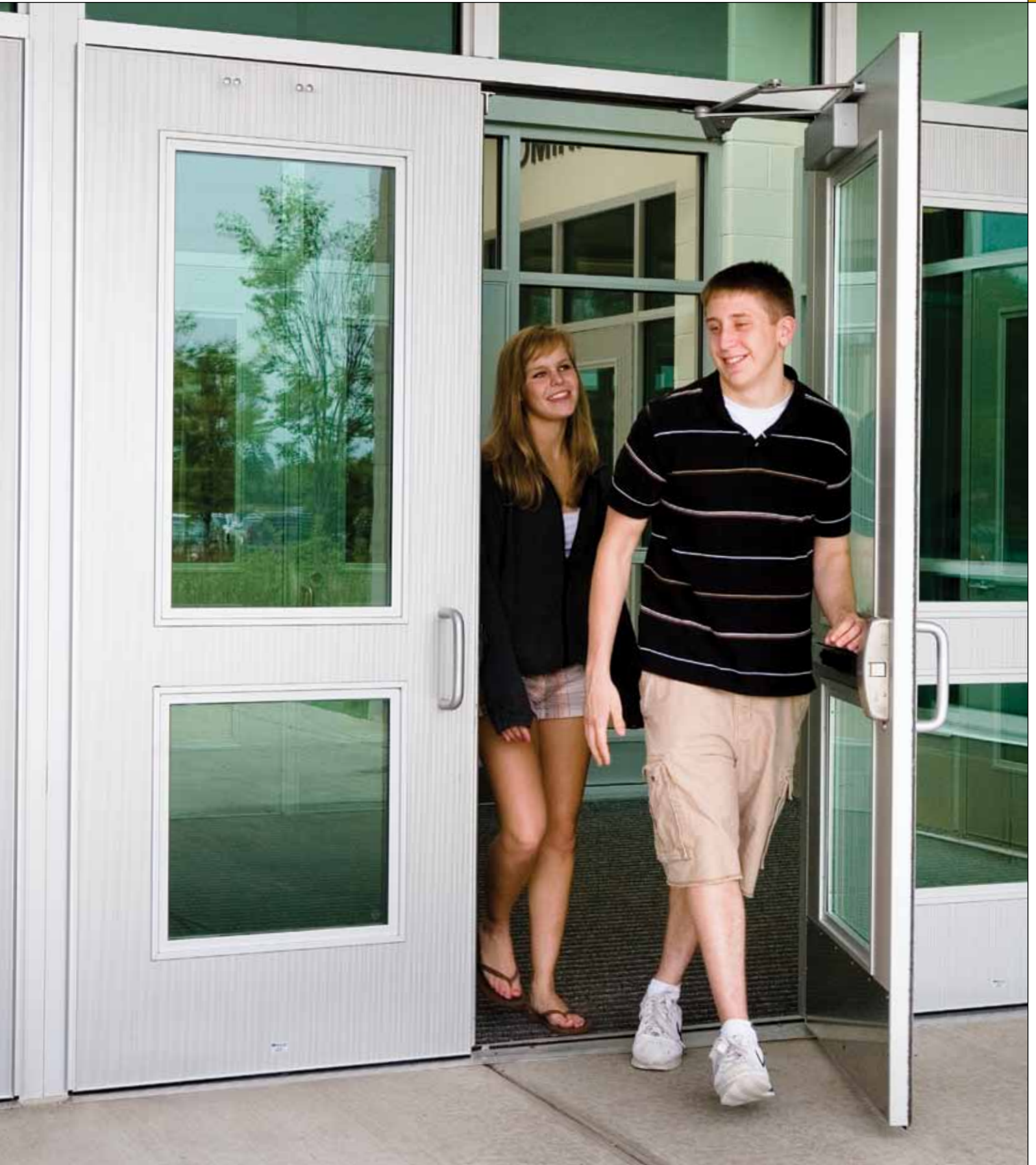




# Aluminum Flush Doors



# Special-Lite® Aluminum Flush Doors: lightweight beauty, but not light-duty

**W**hen aesthetic considerations are as important as ease of maintenance and long life, Special-Lite® SL-16 Aluminum Flush Doors are the perfect answer. They provide an attractive, easy-care option for applications where reduced glass area is desired, but only moderate abuse tolerance is required. They offer excellent design flexibility and feature an elegant, contemporary look that's particularly well-suited for commercial and educational facility applications subjected to moderate to heavy traffic.

## SL-16 Aluminum Flush Door

Challenging environmental conditions such as high humidity or corrosive chemicals that quickly destroy hollow metal doors are not a problem for the SL-16. This makes them the ideal choice for water and wastewater treatment plants and industrial facilities. In addition, our SL-16 has been tested to Florida Building Protocols TAS 201, 202 and 203 making it hurricane-rated and Florida approved so you can specify for coastal areas.

## SL-16SS Stainless Steel Aluminum Flush Door

The SL-16 is also available with stainless steel face sheets as the SL-16SS model for sanitary environments such as hospitals, laboratories and kitchens.



## Why a heavier, more rigid door isn't a more durable door

Conventional wisdom says that a heavier, more rigid door is a stronger door. We say that employing sound engineering principles results in a lighter door that's actually a better door.

Heavy, rigid doors place high loads on hardware and framing. Installing heavier hardware isn't the solution, though, because it simply increases the weight of the door, stressing hardware and framing all the more. The result is eventual entrance failure.

In contrast to the Heavier is Better philosophy, we make Special-Lite® doors as light as possible. We give them a high degree of flexibility and fatigue endurance to absorb the forces involved and prevent structural degradation over time. Less door mass not only means reduced wear and tear on hardware and framing for longer entrance system life, but reduced opening effort as well. But don't confuse lightweight with light-duty. All Special-Lite doors are heavy-duty doors, and should only be compared to other heavy-duty doors.



## Each Special-Lite® Door is made to order

Every door and frame we make is a custom solution, made to order. We can do what it takes to bring your design ideas to life with the right entrance system to suit your application. We can even provide you with submittal drawings or computer-generated design renderings to help with the specification and design process. Unique configurations such as arched doors and transoms, odd sizes, unequal pairs, monorail cut-outs or dutch doors are no problem for our experienced craftsmen. We can make SL-16 Doors as large as 48" wide x 120" high, and can fabricate panels with matching face sheet materials for coordinated entrance designs.

# Better materials and designs for better doors

The first doors made by Special-Lite—way back in 1971—were aluminum flush doors. Of course, a lot has changed since then, but our uncompromising approach to handcrafted quality has remained the same. Our aluminum flush doors are manufactured with stiles and rails of extruded 6063-T6 aluminum alloy, sized and configured for maximum strength without unnecessary, non-functional bulk. All anodized finishes are Class I (.7 mil) to ensure long-lasting beauty with only routine cleaning using mild soap and water.

Stiles and rails are joined with mitered corners secured by angle blocks and  $\frac{3}{8}$ " diameter full-width galvanized steel tie rods. The tie rods run through integral splines in the top and bottom rails, effectively making the tie rod a part of the rail. This method of construction provides the necessary flexibility to withstand abuses that would cause a mechanically-joined or welded corner to fail.

## Aluminum face sheets resist fading and corrosion—and look good doing it

Our aluminum face sheets are .062" thick architectural-quality 5005 alloy, and are available in smooth, fluted, or embossed textures in any of our standard or optional anodized colors. We can also paint aluminum face sheets in any of our available finishes, or your own custom color.

Face sheets are secured on all four sides by full-length integral reglets on the edges of the stiles and rails. Securing the face sheet continuously on four sides without troublesome screw-applied capping is only possible with mitered corner joinery. Of course, it's definitely more difficult to manufacture doors this way, so other door makers don't do it. But the fact that it results in a more durable door is all the reason we need.

Standard and optional internal reinforcements provide secure attachment for the exact hardware specified. We can supply doors with hardware installed, or prepped for field installation of hardware.

Internal hardware reinforcements





**At the core of our door's durability is our door's core**

The poured-in-place urethane core of our SL-16 Aluminum Flush Door is not just a passive filler—it's a functional component that contributes significantly to the durability of Special-Lite doors. After the door has been completely assembled, the core material is injected using our proprietary foam injection technology, ensuring a complete fill with a minimum five pounds per cubic foot density. This strong, lightweight, structural urethane foam bonds firmly to the rails, stiles, reinforcements and face sheets to transform the door into a solid, completely sealed unit with incredible flexural strength. Our urethane foam won't absorb or be damaged by water.

- Mitered corner joints secured by angle blocks
- Full-width 3/8" galvanized steel tie rods
- Poured-in-place urethane core
- Face sheets secured by integral reglets on stiles and rails
- .062" thick 5005 aluminum alloy face sheets
- Aluminum alloy stiles and rails



# Sustainable by design— for better quality of life

## **GREENGUARD Certified for better indoor air quality**

**E**xterior doors may not be the first thing you think of with respect to indoor air quality (IAQ), but the fact is that one side of every exterior door is inside, and can impact IAQ. In addition, the corrosion resistance and durability of our doors make them ideal in pool areas, locker rooms, and showers, which are clearly interior locations.

Special-Lite's Flush Doors were the first doors of any kind to be GREENGUARD Indoor Air Quality Certified®, including the stringent GREENGUARD Children & Schools standard. GREENGUARD Certification provides independent assurance of IAQ performance.

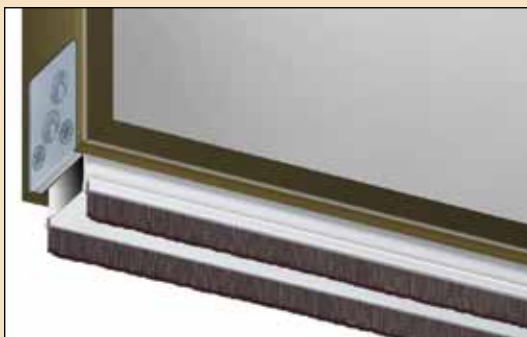


## **Excellent corrosion resistance makes doors last longer**

Special-Lite Aluminum Flush Doors provide corrosion resistance that's superior to hollow stainless or galvanized steel. Not only do the aluminum face sheets and 6063-T6 aluminum alloy stiles and rails offer excellent corrosion resistance on the exterior of the door, the foam core locks out water and all corrosive materials so corrosion cannot start from inside the door either.

## **All extrusions are 100% reprocessed aluminum**

We source aluminum extrusions made from prime-equivalent billet produced from 100% reprocessed 6063-T6 alloy recovered from industrial processes. These extrusions are equal in all respects to those made from virgin material while using only 5% of the energy necessary to produce virgin aluminum.



## **Adjustable bottom brush reduces energy usage**

Our patent-pending SL-301 Adjustable Bottom Brush can be specified to compensate for out-of-level or out-of-position floors in new construction as well as normal settling of older buildings to reduce air infiltration and energy loss under the door bottom.

# Add your own finishing touches

**W**e offer a wide variety of color choices for our entrance products. Choose from our standard clear, dark bronze, or black anodized colors, or optional champagne, light bronze, and medium bronze. We also offer 20 established Kynar® 500 paint colors, or we can match any custom color. All of the same finish choices are available in our framing and panel products so you can design a perfectly color-matched entrance.

## Add flair and functionality

Our vision lites, aluminum panels, pulls, push bars, louvers, screens, grates and removable mullions are specifically designed to complement the performance and good looks of our door and framing products. Manufactured to the same high quality standards as all of our products, they enhance the functionality, security, safety and appearance of your Special-Lite entrance.



Special-Lite® Vision Lites may be specified with ¼", ½", or 1" glazing. Aluminum surface-applied muntins in ½" and 1¼" widths are also available, allowing you to create just the look you want. Custom vision lites may be specified in any size or configuration, subject to the following guidelines:

- Consult the factory when total vision lite area exceeds 50% of the foam area.
- To avoid hardware conflicts, vision lites should be located at least 8" from the top, 12" from the bottom and 7" from the sides of the door.

Louvers installed in doors are subject to the size and position guidelines that apply to vision lites. Insect screens are an available option and must be specified. Louvers are also available for transom and side lite applications. Special-Lite manufactures a selection of removable mullions, push bars and pulls, designed to improve entrance safety and security. Security grates can protect lites in extreme environments, while our vandal screens protect against casual abuse. Additional information can be found in our Hardware & Lites brochure.

Kynar 500® is a registered trademark of Arkema Inc.



# Simplify your life

## with entrance solutions from Special-Lite

### A complete entrance from a single source

Special-Lite can supply a complete entrance solution — doors, frames, hardware, and panels. Enjoy the convenience, reliability and performance advantages of having a complete, ready-to-install entrance supplied by a single source, delivered to the job site in a single, on-time shipment. Single-sourcing ensures proper door and frame fit, correct hardware operation, exact finish match, and longer entrance life. We can even ship doors with hardware and glazing installed, significantly reducing expensive job site labor and installation time, and preventing last-minute problems.



### Simplify field installation with factory-applied hardware

Glass can be factory-installed or installed in the field. Rectangular vision lites are furnished with aluminum glass stops. Curved lites are typically glazed with black EPDM gasket, but may be available with aluminum glass stops. Consult the factory for details.

### A warranty that really works

We stand behind all of our products with a 10-year, 100% parts and labor warranty. Plus, we offer an additional limited lifetime warranty on our flush door models. Ask your sales representative for a copy of our warranty statement, and compare it to what other supplier warranties actually cover after all of their exclusions and limitations. You'll see that when you specify Special-Lite, you're really covered.



#### Special-Lite, Inc.

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