Construction Specialties, Inc. holds a patent(s) on one or more of the products listed herein. For detailed patent information, see www.c-sgroup.com/patents.

Any specific design or durability requirement can be met using our standard or custom options.

Acrovyn® Panel Doors

Our frame system matches our door in both durability and design. Together, they keep your entire opening looking like new.

Acrovyn® Frame System

Design and durability are no longer mutually exclusive.

Acrovyn Doors by Design™

Architects and designers choose Acrovyn Doors for their broad range of colors and patterns as well as the ability to withstand heavy facility traffic to meet the extensive design needs of their clients.

Acrovyn® Doors

Barrier-resistant doors for specialized areas are available in a variety of design options to create a warm environment for patients and staff.

Acrovyn® Doors for Behavioral Health Facilities
Acrovyn Doors—the right choice

Our Acrovyn Door is made with a sturdy inner core, clad in durable Acrovyn®, and features rounded, field-replaceable stiles and edges for the ultimate in protection against heavy abuse. No other door with similar features can compare yet provide as many benefits and customizable elements. Found in hundreds of facilities worldwide, Acrovyn Doors are the impact-resistant choice for high-traffic areas.

We conducted a life-cycle study among a number of leading hospitals throughout the United States to compare the total cost of the purchase and maintenance of 500 doors over a ten-year period. We included our Acrovyn Doors along with wood veneer, hollow metal and plastic laminate doors in the study. The results of our in-depth analysis show that our doors would cost $800,000 less than wood doors and $250,000 less than plastic laminate. For a copy of the study, call 800.416.6586 or contact your local CS representative.

Cheap doors aren’t so cheap.

Here is the real cost to buy and maintain 500 doors over a ten-year period.

<table>
<thead>
<tr>
<th>Door Type</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wood Veneer</td>
<td>$1M</td>
</tr>
<tr>
<td>Hollow Metal</td>
<td>$797K</td>
</tr>
<tr>
<td>High-Pressure Laminate</td>
<td>$552K</td>
</tr>
<tr>
<td>Acrovyn Doors</td>
<td>$310K</td>
</tr>
</tbody>
</table>

There are no other doors available that give you all the benefits of our Acrovyn Doors.
Most door damage occurs at the edges.

That’s why Acrovyn® Doors feature radiused edges for extra impact protection.

Impact tests* prove the Acrovyn Door’s superiority.

<table>
<thead>
<tr>
<th>Material</th>
<th>Drop Distance</th>
<th>Damage Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrovyn</td>
<td>3&quot; drop</td>
<td>Wood veneer chipped, exposing sharp edges.</td>
</tr>
<tr>
<td>High-Pressure Laminate (HPL)</td>
<td>8&quot; drop</td>
<td>A slight indentation in the Acrovyn occurred.</td>
</tr>
<tr>
<td>Wood</td>
<td>8&quot; drop</td>
<td>Wood veneer chipped, exposing sharp edges.</td>
</tr>
</tbody>
</table>

*Variations of ASTM F476-76 standard test methods for security of swinging door assemblies were used.

Only Acrovyn Doors are available with replaceable stiles and edges.

- Cost less than replacing the entire door
- Quick and easy to replace
- No downtime or disruption to the facility
- Continue to look as good as the day they were installed

Field Replaceable Acrovyn Door Edges & Stiles
Carts, furniture, equipment and foot traffic damage not only the surface of the door, but the edges as well. Acrovyn Doors feature field-replaceable stiles and edges on doors with up to a 90-minute fire rating. These stiles and edges can easily be replaced on-site if they ever get damaged.

Edge of a Lifetime Warranty
We will warranty the Acrovyn edges against damage for the lifetime of the door.
Acrovyn® Doors & Frames
Redefining durability and transforming design
Our panel doors can promote a warm, non-institutional atmosphere in any facility. These doors can be manufactured to your specific functional requirements (such as shallow reveals for easy cleaning) in any of our eight standard panel designs.

Our panel doors can promote a warm, non-institutional atmosphere in any facility. These doors can be manufactured to your specific functional requirements (such as shallow reveals for easy cleaning) in any of our eight standard panel designs.

**Montclair**
(1352 Fossil Teak)

**Summit**
(376 Northern Oak)

**Chatham**
(386 Honduras Mahogany)

**Somerset**
(372 Classic Maple)

**Montgomery**
(399 Cherry)

**Plymouth**
(1353 Legacy Maple)

**Berkeley**
(1351 Smokey Elm)

Our panel doors can promote a warm, non-institutional atmosphere in any facility. These doors can be manufactured to your specific functional requirements (such as shallow reveals for easy cleaning) in any of our eight standard panel designs.

**Bring your vision to life.**

Explore new ways to bring warmth to your facility with custom panel doors. To discuss your design requirements, please call an Acrovyn Door specialist at 800.416.6586.
Our durable doors now have equally durable frames to match

The industry changed when we developed Acrovyn Doors. Finally, there was a door that could withstand the intense impact abuse in commercial facilities. It didn’t take long for customers to ask, “What about the frames? They get damaged too!” To meet the needs of the evolving industry, we developed the Acrovyn Frame System. This system features our new steel frame, built to your specifications and wrapped in our durable Acrovyn sheet.

**ACROVYN® FRAME SYSTEM**

**DURABILITY**

Just like our doors, the frame system is designed to withstand heavy impacts and frequent foot traffic to keep the entire opening looking like new.

**EASY TO INSTALL**

The Acrovyn wrap, formed for each individual frame, has mitered ends at the jamb and the header and is prepped for hardware. The material securely fits onto the frame, eliminating the need for any adhesives.

**REPLACEABILITY**

Continual door maintenance is costly and time consuming. As with our door edges, the Acrovyn wrap is field replaceable, reducing the need for constant repairs.

**DESIGNABILITY**

The frame system is available in our standard colors and Chameleon™ patterns to coordinate with the design concept at any opening.

**CLEANABILITY**

The steel frame is wrapped in Acrovyn, so it is as easy to clean as our doors. It also features the same bacterial and fungal resistance.

Most frames cannot withstand the abuse in today’s facilities.

Traditional door frames can sustain repeated damage. As the photos at right show, they start “uglying out” almost immediately.
Properly used imagery can have a positive impact on learning, healing, productivity and overall outlook. With Acrovyn by Design®, virtually any image, message or color can be reproduced to create stunning interiors that last. Patterns, photographs, logos and more can safely be embedded behind our durable PVC-free Acrovyn to minimize damage concerns. Acrovyn Doors by Design open a new realm of possibilities.

For complete details, call an Acrovyn Door specialist at 800.416.6586.
Designing a fun, kid-friendly environment at Yale New Haven Children’s Hospital

When it was time to renovate the pediatric MRI suite at the Yale New Haven Children’s Hospital, designers focused on the emotional needs of young patients and their families. Institutional-looking walls and the cold, stainless steel finishes of testing equipment can contribute to a young patient’s fear and anxiety. To reduce negative feelings and create a comfortable, healing space, a kid-friendly environment was needed to evoke fun and lift spirits. With patients, staff and equipment continually moving throughout the suite each day, the use of highly durable materials was paramount.

CS worked closely with Turner Construction of New Haven, CT, and Kelley Bros of Trumbull, CT, to execute this first-of-its-kind project. Imagery and design were provided by BAM Architecture Studio of New York City. This collaboration led to an imaginative masterpiece that will comfort and ease the minds of children and their families for years to come.

“Acrovyn® Doors integrated in the design to create a seamless, playful environment.”

— DANIHEL AHN
BAM Architecture Studio

Location:
New Haven, CT

Architect:
BAM Architecture Studio

Product:
Acrovyn Doors by Design
Specialized Door Solutions for Behavioral Health Facilities

As with other healthcare environments, behavioral health facilities must protect their doors against continual impact damage. These facilities also have certain requirements for patient safety. Our barrier-resistant doors offer a unique solution for designated areas in behavioral health facilities. Fire-rated up to 20 minutes, this model is durable, easy to clean and available in our standard colors and Chameleon™ patterns as well as Acrovyn by Design®. The outer leaf features field-replaceable stiles and edges to extend the life of the door.

Barrier-resistant door

Barrier-resistant doors feature a small, compact door within the main one. The compact door provides staff easy access to a room if a barricade is used by a patient.

James M. Hunt, AIA, NCARB
President of Behavioral Health Facility Consulting, LLC

“Patient room and corridor doors play a significant role in the visual ambience of inpatient units. However, codes and regulations also have a lot to say about the doors going into a behavioral health facility. One solution that meets all of these elements of the patient room and corridor doors is CS Acrovyn Doors. They can provide a variety of durable aesthetic options and a selection of choices in the design to suit the needs of many projects.”
ACROVYN® CHAMELEON™ PATTERNS

372 Classic Maple
379 Royal Oak
654 Urbanwood

NEW 1310 Burma Teak
371 Ginger Root
375 Autumn Maple

385 Royal Oak
381 Figured Amoyna
373 Amber Cherry

704 Brazilian Nut
1361 Honduran Mahogany
393 Shaker Cherry

399 Cherry
379 Royal Mahogany
1653 Steely Walnut

NEW 1353 Legacy Maple
NEW 1350 Indian Elm
NEW 1352 Fossil Teak

NEW 1351 Smoky Elm
NEW 1352 Fossil Teak
Stainless Steel No. 4
(For edge cover only)

410 Brushed Silver
378 Brushed Nickel

ALL colors are available in solid colors.
Visit www.c-sgroup.com/door to view
up-to-date solid color options.

Ask about our pre-matched custom colors.

Due to limitations of the printing process, colors shown may vary. When specifying, obtain color samples by calling the factory.
### Door Selection Guide

<table>
<thead>
<tr>
<th>Door Type</th>
<th>Fire Rating</th>
<th>Door Thickness</th>
<th>Max Size Single</th>
<th>Max Size Double</th>
<th>Lite Kits</th>
<th>Replaceable Edges &amp; Stiles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flush</td>
<td>Non-Rated</td>
<td>1-3/8” or 1-3/4”</td>
<td>4’ x 9’ x 10’</td>
<td>8’6” x 10’</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Flush</td>
<td>20 Minute</td>
<td>1-3/8”</td>
<td>4’ x 9’ x 10’</td>
<td>8’6” x 10’</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Flush</td>
<td>45-90 Minute</td>
<td>1-3/8”</td>
<td>4’ x 9’ x 10’</td>
<td>8’6” x 10’</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Panel</td>
<td>Non-Rated</td>
<td>1-3/8”</td>
<td>4’ x 9’ x 10’</td>
<td>8’6” x 10’</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Panel</td>
<td>20 Minute</td>
<td>1-3/8”</td>
<td>4’ x 9’ x 10’</td>
<td>8’6” x 10’</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Panel</td>
<td>45 and 60 Minute</td>
<td>1-3/8”</td>
<td>4’ x 9’ x 10’</td>
<td>8’6” x 10’</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Lead-Lined</td>
<td>Non-Rated and 20 Minute</td>
<td>1-3/4”</td>
<td>4’ x 8’ x 9’</td>
<td>8’ x 9’</td>
<td>Yes</td>
<td>Edge Covers Only</td>
</tr>
<tr>
<td>Lead-Lined</td>
<td>45 and 60 Minute</td>
<td>1-3/4”</td>
<td>4’ x 8’ x 9’</td>
<td>8’ x 9’</td>
<td>Yes</td>
<td>Edge Covers Only</td>
</tr>
<tr>
<td>Barrier-Resistant</td>
<td>Non-Rated and 20 Minute</td>
<td>1-3/8”</td>
<td>4’ x 9’ x 10’</td>
<td>N/A</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>STC 30</td>
<td>Non-Rated</td>
<td>1-3/4”</td>
<td>4’ x 8’ x 9’</td>
<td>N/A</td>
<td>Yes</td>
<td>Edge Covers Only</td>
</tr>
<tr>
<td>STC 43-46</td>
<td>Non-Rated</td>
<td>1-3/4”</td>
<td>4’ x 8’ x 9’</td>
<td>N/A</td>
<td>Yes</td>
<td>Edge Covers Only</td>
</tr>
<tr>
<td>STC 35/34</td>
<td>45 and 60 Minute</td>
<td>1-3/4”</td>
<td>4’ x 9’ x 10’</td>
<td>N/A</td>
<td>Edge Covers Only</td>
<td>Yes</td>
</tr>
<tr>
<td>STC 36</td>
<td>90 Minute</td>
<td>1-3/4”</td>
<td>4’ x 9’</td>
<td>N/A</td>
<td>No</td>
<td>Edge Covers Only</td>
</tr>
<tr>
<td>Dutch</td>
<td>Non-Rated</td>
<td>1-3/4”</td>
<td>4’ x 8’ x 9’</td>
<td>N/A</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Dutch</td>
<td>20 Minute</td>
<td>1-3/4”</td>
<td>4’ x 8’ x 9’</td>
<td>N/A</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

For complete, up-to-date technical information, please refer to our tech manual at www.c-sgroup.com/door. For any additional questions, please contact the factory at 800.416.6586.

### Frame Selection Guide

<table>
<thead>
<tr>
<th>Frame Type</th>
<th>Fire Rating</th>
<th>Single</th>
<th>Pair</th>
<th>Double Egress</th>
<th>Approved Thickness</th>
<th>Wall Types</th>
<th>Hospital Stop</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three-Sided Frame Single and Pair</td>
<td>3 Hr. Class A</td>
<td>4’ x 9’</td>
<td>8’ x 9’</td>
<td>N/A</td>
<td>16/14/12 ga.</td>
<td>New Masonry</td>
<td>Yes</td>
</tr>
<tr>
<td>New Masonry</td>
<td>Existing Masonry</td>
<td>Pre-set Stud</td>
<td>Wood Slab</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Three-Sided Frame Double Egress</td>
<td>3 Hr. Class A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>16/14/12 ga.</td>
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<td>No</td>
</tr>
<tr>
<td>New Masonry</td>
<td>Existing Masonry</td>
<td>Metal Stud</td>
<td>Wood Slab</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Three-Sided Frame Single and Pair</td>
<td>90 Min. Class B&amp;D</td>
<td>4’ x 9’</td>
<td>8’ x 9’</td>
<td>N/A</td>
<td>16/14/12 ga.</td>
<td>New Masonry</td>
<td>Yes</td>
</tr>
<tr>
<td>New Masonry</td>
<td>Existing Masonry</td>
<td>Pre-set Stud</td>
<td>Wood Slab</td>
<td></td>
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CS creates products that solve complex building challenges around the world:

- Acrovyn by Design®
- Acrovyn® Doors & Frames
- Acrovyn® Wall Panels
- Acrovyn® Wall Protection
- Architectural Louvers
- Cubicle Curtains & Track
- Entrance Flooring
- Expansion Joint Covers
- Grilles & Vision Barriers
- Specialty Venting
- Sun Controls