

Corrosion Resistant Doors

Fiberglass and Rotationally Molding Doors



Chase Doors® - Attention to Detail



Founded in 1932, Chase Doors has become the global leader and most recognized manufacturer of high-quality, made-to-order specialty door systems. Chase Doors offers a complete line of corrosion resistant doors that are designed for use in extremely corrosive environments. No matter what model you choose, Fib-R-Max™, Fib-R-Dor®, Fib-R-Lite™ or Durulite® CR1400, Chase Doors' manufacturing capabilities and exceptional customer service has empowered Chase Doors to earn a reputation for high quality products that are reliable, durable, and competitively priced.

Durability, Quality and High Performance

Chase Doors offers superior design and engineering processes which enhance the functionality, durability, and life of its products. All Chase corrosion resistant doors utilize premium materials and manufacturing methods ensuring that every corrosion resistant door system can withstand highly corrosive environments. All Chase fiberglass doors (Fib-R-Max, Fib-R-Dor and Fib-R-Lite) are covered under a lifetime warranty against failure due to corrosion.



Dependability and Value

Chase corrosion resistant door systems are custom manufactured. Our team of in-house engineers and customer service professionals work with you every step of the way throughout the order process to ensure accuracy before sending it to production. Our experienced production team includes craftspeople with years of experience in the fiberglass industry. All door systems are manufactured and finished to perform well in harsh environments with minimal maintenance and care. Our state of the art manufacturing facility includes cutting edge CNC equipment and a finishing department that looks more like an automotive body shop than a door manufacturing facility. Our expertise in automation and manufacturing allows Chase to offer high quality corrosion resistant door systems at competitive prices.

Why Choose a Corrosion Resistant Door?

- Rust will never be an issue
- Eliminates the high cost of replacing and maintaining hollow metal doors
- Molded in color never needs painting, even in coastal applications
- Durable, long lasting construction, backed by an exceptional warranty
- Custom built to meet your specific requirements, your choice of colors, options and sizes
- Accepted for use in USDA Regulated Facilities
- Attractive finish
- Can be repaired in the field
- Perfect for new and existing construction



Fiberglass Fire Rated & Storm Rated Doors

Fib-R-Max™, Fib-R-Dor® and Fib-R-Lite™ doors are designed for interior and exterior applications and when required can be equipped with labels to meet fire and storm rating requirements.

Fire Rated Fiberglass Doors

Fib-R-Max, Fib-R-Dor and Fib-R-Lite door systems have been tested and approved for both neutral and positive pressure by Intertek Testing Services. All three door systems are available with 20/ 45/ 60 and 90 minute labels by Warnock-Hersey with UBC 7-2-1997 and UL 10c NFPA 252 for positive pressure fire rated doors. Under positive pressure, the test is performed with the neutral plane 40" above the floor. This method causes hot gases to be forced out around the edge of the door, making it easier for flames to transfer to the outer door and surface. To prevent flames from transferring, Chase's fiberglass fire door utilizes intumescent seals. Intumescent seals expand under heat, filling the gap between the door and frame. The intumescent seals can be molded in during the manufacturing process (UL 10c-A) or surface applied (UL 10c-B).



Storm Rated Fiberglass Doors

Fib-R-Max, Fib-R-Dor and Fib-R-Lite doors have received the Florida Building Code (FBC) approval for installation in high velocity wind zones. All three doors meet and exceed the standards set forth for large missile impact (ASTM-E1886/1996 missile level D), both positive and negative cycle pressure and wind load. Fib-R-Max has also received Texas Department of Insurance (TDI) approval for installation in high wind coastal areas.

Fib-R-Max, Fib-R-Dor and Fib-R-Lite Perform to the Following Standards

CYCLE TEST

| | |
|------------------|---|
| AAMA 920-03 | Specification for operating cycle performance of side-hinged exterior door systems. |
| NWWDA TM-7 | Physical endurance of wood doors & associated hardware under accelerated operating conditions. |
| ANSI A250.4-2001 | Acceptance criteria for physical endurance for steel doors, frames, frame anchors & hardware reinforcement. |

ASTM TEST

| | |
|------------|--|
| ASTM D638 | Tensile strength LW |
| ASTM C365 | Compressive strength LW |
| ASTM D790 | Flexural strength LW |
| ASTM E 84 | Surface burning characteristics |
| ASTM D792 | Density |
| ASTM D696 | Expansion LW |
| ASTM D 635 | Horizontal position burn rate, extent and time |
| ASTM C 518 | Steady state thermal transmission properties by means of the heat flow meter apparatus |
| ASTM C177 | Thermal conductivity PF |
| ASTM E84 | Tunnel test |
| ASTM D 882 | Tensile strength |
| ASTM D 790 | Flexural strength |

FIRE RATED DOOR

| | |
|--------------|--|
| UBC-7-2-1997 | |
| UL 10b | Neutral Pressure |
| UL 10c-B | Positive Pressure with Surface Applied Intumescent |
| UL 10c-A | Positive Pressure with Concealed Intumescent |

STORM RATED DOOR - IMPACT TEST

| | |
|---|-----------------------------|
| (High Velocity Zones Wind pressure 70+/- PSF) | |
| TAS 201 | Large missile impact |
| TAS 202 | Uniform static air pressure |
| TAS 203 | Cycle wind pressure load |

Fib-R-Max™



Designed for pharmaceutical manufacturing, chemical manufacturing and cleanroom applications, Fib-R-Max is the strongest, most durable and dependable fiberglass door on the market meeting USDA, FDA and cGMP compliance. Fib-R-Max is manufactured with 25 mils of gel coat integrally molded into the door creating an impenetrable barrier against corrosive and environmental elements. Fib-R-Max door systems are engineered to withstand repeated washdowns and rigorous cleanings with corrosive agents such as acids, disinfectants and cleaning solutions while remaining beautiful year after year.

Exceptional Manufacturing Design

Fib-R-Max's strength resides in the manufacturing design. Fib-R-Max fiberglass door systems are manufactured utilizing only the highest quality raw materials. Fib-R-Max's door skins are hand laid and integrally molded using high quality Class 1 fire rated resins. The skins measure 0.125" thick and weigh 1.0 lb/ft², making them one of the strongest in the industry. Not only are these skins impervious to corrosive attack, they provide outstanding protection against impact caused by high wind debris. As a matter of fact, the Fib-R-Max door skin alone far surpassed the large impact requirements of the Florida Building code TAS 201 and ASTM E 1886/1996 Level D.

Fib-R-Max has a cast in place inverted 1/2" thick "U-Channel" around the entire perimeter of the door, allowing a chemical weld to be formed between the door edge and door skins. This design forms a solid exterior structure where no dirt, bacteria or moisture can ever penetrate.

The Easiest of All Installations

Save time, money and labor with Fib-R-Max's exclusive complete door package option. When you purchase a door, frame and hardware, the entire door system (including hardware) is factory assembled and shipped ready for installation in the opening. Installation time of the door system is reduced by as much as 70%. Double doors are pre-hung to ensure a proper fit and that hardware functions properly, then broken down for shipping purposes.



Every Fib-R-Max door is engineered and custom manufactured to your specific requirements, from exact dimensions to specially formulated resins for FDA, USDA and cGMP compliance. Fib-R-Max doors are available with a variety of options including custom finishes and textures, lite kits, and essentially any hardware configuration available on hollow metal doors. Doors can also be equipped with astragals, weatherstrips, thresholds and FRP Louvers.



Door Surface

Industry leading, 25 mils of integrally molded gel coat finish provides a beautiful aesthetic appeal with a high gloss and an impenetrable barrier against corrosive chemicals and environmental attack. When requested, Fib-R-Max is available with specifically formulated gel coat for FDA/USDA applications, or high UV resistance. Standard high gloss colors for Fib-R-Max include white, tan, brown and gray, but additional pre-matched colors and custom color options are available.

Core

The interior cavity of the fiberglass door is completely filled with a corrosion-resistant material. The standard core material is polypropylene honeycomb. Optional cores include polyisocyanurate foam and gypsum materials. Gypsum core material is used on fire rated doors and frames. Fib-R-Max doors can be engineered for excellent sound attenuation, high R Values and durability.

Optional Lite Kits

Many lite kit options are available including our pharmaceutical window that is completely sealed with no mechanical fasteners or ledges to harbor bacteria or standing water. Pharmaceutical lite kits also incorporate a glazing retainer that matches the FRP door panel in color and finish. As a standard all Fib-R-Max FRP lite kits match the FRP door and frames in color and finish.

Optional Accessories

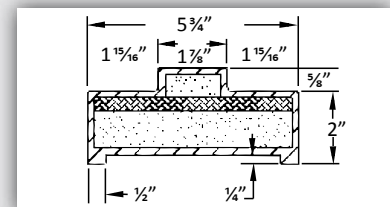
Fib-R-Max FRP door accessories such as FRP thresholds, astragals and sweeps are designed and manufactured to complement the door and frame in color and finish offering complete protection against corrosive environments.

Optional Hardware

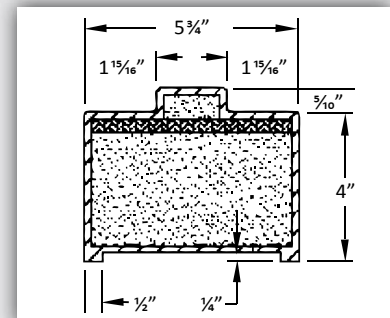
Chase Doors maintains an inventory of top quality hardware from the world's leading manufacturers. Our highly skilled and trained personnel can install the hardware of your choice for a turnkey door system that is ready to be hung at the jobsite.

Frames

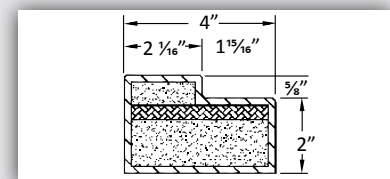
Precision engineered, color-matched FRP frames are manufactured with the same integrally molded 25 mil layer of gel coat as the doors creating the perfect complement to the Fib-R-Max door. All internal components are non-organic and completely encapsulated; leaving a frame that is free of cavities and exposed reinforcements. Additional reinforcements can be placed in the mold cavity and electrical raceways can be added to easily accommodate electrically controlled hardware. There are many frame styles and profiles to choose from; like our doors, we can provide a custom frame for your application.



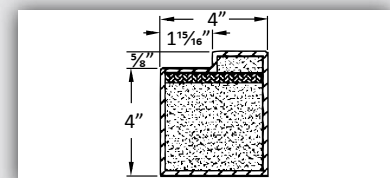
5-3/4" Double Rabbet



5-3/4" Double Rabbet - 4" Header



4" Single Rabbet



4" Single Rabbet - 4" Header

Fib-R-Dor®



Fib-R-Dor fiberglass door system is a beautiful, durable door designed for use in pharmaceutical manufacturing, food processing, water and wastewater treatment, chemical manufacturing, oil refineries, pulp and paper mills and any other application where doors are subject to severe corrosive conditions. Fib-R-Dor door systems are for use in exterior and interior applications and are USDA, FDA and cGMP compliant.

Unique Manufacturing Process

Fib-R-Dor utilizes a unique “outside-in” manufacturing process, creating a highly durable panel with no seams, gaps or potential failure points. Designed for use in facilities that require regular cleaning with harsh chemicals, the seamless construction eliminates particulate “catch” points that make traditional doors difficult to sanitize. The entire exterior of the door panel is molded fiberglass with a permanent bond to the core material, ensuring a beautiful, durable, low maintenance door that will last an extremely long time. Fib-R-Dor fiberglass door color is a molded gel coat finish, so it will never corrode, need to be painted or discolor like steel and aluminum doors.

The unique panel manufacturing technique is one of the key differences when it comes to panel durability. Even the panel edge is molded fiberglass that is chemically welded to the door skins. This combination of “outside-in” manufacturing and fiberglass technology makes Fib-R-Dor extremely durable and up to 3 times stronger than tubular or channel door designs. Competitors use glue to attach the face sheets to tubes or channels, resulting in a potential separation point over time. The Fib-R-Dor method of permanently welding the door edge to the door face plates creates a one-piece exterior shell that will not peel, separate or delaminate.

Installation is Fast and Easy

All Fib-R-Dor panels are CNC machined to fit perfectly in their matching frames, making installation of Fib-R-Dor door systems fast and easy. As a door system that battles rust, corrosion, fire and hurricanes, Fib-R-Dor is an extremely valuable component in a wide range of markets and applications!





Fib-R-Dor door systems are designed for quality and dependability, every Fib-R-Dor door system is custom manufactured to the specific requirements of each job. Fib-R-Dor door systems can be ordered with windows, passage/locksets, door closers, panic devices, push/pull handles, kick plates, louvers, flush bolts, astragals, bottom sweeps and weather-stripping.

Door Surface

Fib-R-Dor requires no painting or finishing, the mirror smooth gel coat fiberglass panels are constructed with impact resistant, premium grade resins. The resin is reinforced with hand laid glass fibers that are integrally molded creating a corrosion resistant, one-piece seamless exterior surface. In addition to being beautiful, the smooth gel coat finish is corrosion resistant, highly durable and able to withstand repeated washdowns with cleaning agents. Coastal installations with saltwater environments are no match for Fib-R-Dor panels. Standard colors are white, gray, brown and tan in a high gloss, pebble, or matte finish. Optional colors are also available, please contact factory.

Core

Fib-R-Dor is available with a variety of cores including its standard core polypropylene honeycomb; other optional cores include, polyisocyanurate foam, end grain balsa, and gypsum. Polypropylene honeycomb is lightweight and extremely durable. Polyisocyanurate foam has excellent insulating qualities, and is known as an excellent sound attenuation material. An optional non-absorptive end-grain balsa core is available, providing superior strength with an 11 lb density rating. Gypsum is used when a fire rated door is required.

Door Edge

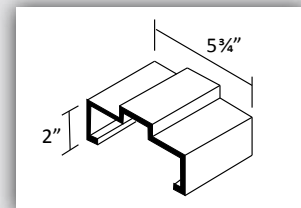
A fiberglass matrix of pigmented resin chemically welded to the door skin, creates a monolithic one-piece exterior. This design combined with structural FRP pultrusions buried beneath the fiberglass matrix provides superior door strength. Door edges are CNC machined for an accurate fit and finish.

Lite Kit Options

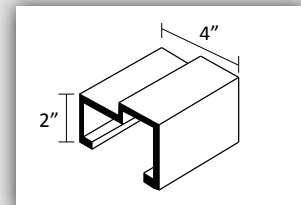
Fib-R-Dor has three standard size lite kits with no miters or fasteners on one side, creating a seamless frame that is easy to clean and used as a security feature. Optional glazing includes polycarbonate, laminate, temper or wire glass. Surface mounted stainless steel lite kits are also available.

Frames

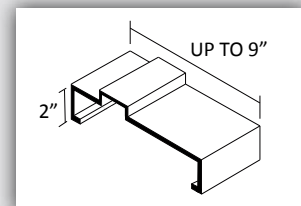
By design, the Fib-R-Dor pultruded frame system conforms to industry standards in shape and installation methods. The durable, corrosion resistant frame is constructed with FRP pultruded material in conformance with Steel Door Institute standards. Corners are mitered and reinforced providing a durable and clean product. Additional reinforcement can be added if required by the application or to accommodate specialty hardware. The Fib-R-Dor frame comes standard with a satin finish in white, gray, tan or brown. A variety of configurations and mounting options are also available, allowing Fib-R-Dor products to be installed on concrete, brick, block, foam panel, drywall and tilt-up wall systems.



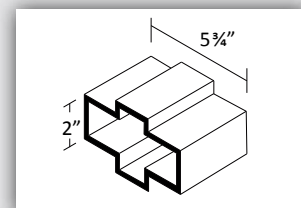
5-3/4"



4" Single Rabbet



Variable Frame



Mullion

Fib-R-Lite™

Fib-R-Lite fiberglass door systems are the only choice when your application demands durability, quality, performance and value in a corrosion resistant door. Fib-R-Lite fiberglass doors are designed to stand the test of time in challenging conditions including food processing, food service, institutions, and car washes. Fib-R-Lite doors are also an excellent choice for coastal applications including exterior openings with high humidity and severe wind conditions.



Manufacturing Method

Fib-R-Lite door systems utilize corrosion resistant materials and manufacturing methods, resulting in a door system that will stand up to harsh chemicals, strong cleaning agents, saltwater and other corrosive elements. The standard fine pebble finish on the Fib-R-Lite has proven to be a cost effective solution in applications that require a fiberglass door. All Fib-R-Lite door systems are covered under a lifetime warranty against failure due to corrosion.

Every Fib-R-Lite fiberglass door is fabricated using the most advanced composite materials and technology. Each fiberglass component is engineered, designed and constructed specifically for superior door construction. The doors are manufactured utilizing fiberglass pultruded components, maximizing strength, chemical resistance and eliminating the possibility of delamination.

Installation is Fast and Easy

Like Fib-R-Dor, all Fib-R-Lite panels are CNC machined to fit perfectly in their matching frames. They conform with Steel Door Institute standards, making the installation a snap. Fib-R-Lite doors are factory prepared for hardware, including custom hinges, locksets, flush bolts, or specialty hardware. Fib-R-Lite Doors are available with hardware, or can be shipped ready for installation of hardware provided by the customer.



Fib-R-Lite doors are custom manufactured to your exact specifications and can be ordered with a variety of louvers, transoms, astragals, bottom sweeps and weather-stripping. Louvers are constructed using FRP material in an inverted "V" design, which allows proper airflow without sacrificing privacy. All transom panels are identical to the doors in materials, construction, finish and color. Astragals for pairs of doors are fabricated using FRP material.



Door Surface

Fib-R-Lite's door surface comes standard with a fine pebble textured finish and is available with a post-applied 15 mil gel coat matte finish. Both finishes are resistant to harsh chemicals, cleaning agents and saltwater. The standard gel-coat finish eliminates the need for field finishing, and is comparable to the strength and durability of 20 coats of paint.

Internal Construction

Structural pultruded fiberglass components permanently bond to the door skin and core material, creating a strong yet lightweight, durable panel. The same structural pultrusion is used for internal reinforcement at hinge locations.

Core Materials

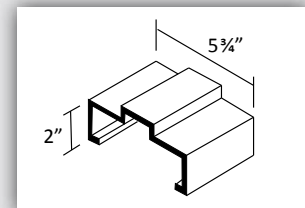
The standard Fib-R-Lite door is filled with a phenolic impregnated resin honeycomb core. Optional cores including polypropylene honeycomb, polyisocyanurate foam, or a mineral core used for fire rated doors with up to 90 minute labels are available.

Lite Kit Options

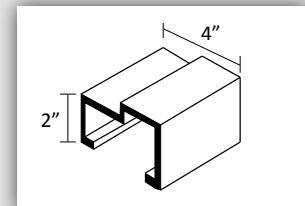
Fib-R-Lite doors can be supplied with an optional two piece post-applied FRP Lite Kit in an array of sizes. These attractive two piece kits are secured with no exposed fasteners and are available with polycarbonate or glass products, including laminate, temper or wire glass.

Frames

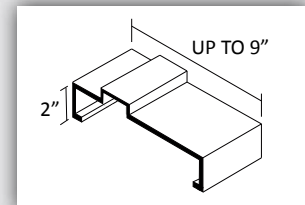
Fib-R-Lite frames are available in a variety of styles and profiles and adapt to all types of wall construction, including metal stud and gypsum construction, insulated wall panel, block and CMU. Whether you require a fire rated frame, storm rated frame, variable frame or standard frame the Fib-R-Lite frame will complement the door. Additional frames are available contact the factory for more information.



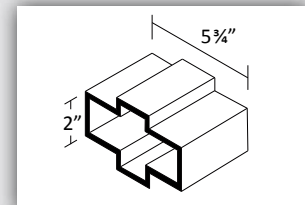
5-3/4"



4" Single Rabbet



Variable Frame



Mullion

Durulite® CR1400

Chase Doors invented the roto-molded door in 1976. Since that time, we have sold over a half million rotationally molded doors and our manufacturing process is second to none. The Durulite CR1400 utilizes the rotationally molded manufacturing process and is extremely durable for interior applications.

Rotationally Molded Technology

The process starts by placing a specific amount of colored plastic resin into an aluminum mold. The mold is then closed and attached to a long arm on an automated molding machine. The mold first moves into an oven chamber and then slowly spins on two axis, causing resin to melt and adhere to the inside of the hot mold. After the proper amount of "cooking time," the mold swings to the next station where air is used to cool down the mold, allowing the material to set as it continues to spin—assuring an even wall thickness. When it is completely cooled, it swings to the original station where the mold is opened and a hollow door shell is removed. The rotational speed, heating and cooling times are all controlled throughout the process. The end result is a seamless, one piece high density cross-linked polyethylene door shell that is naturally resilient and impervious to acids, petroleum products, animal fats and cleaning solvents.

After cooling is complete, the hollow panel is put into a hydraulic press where it is injected with high density, NON-CFC urethane foam which completely fills the cavity inside the hollow door shell. The foam provides a variety of benefits, including thermal insulating characteristics and increased shock absorbency. The Durulite CR1400 will retain an attractive appearance in the most difficult conditions.



Perfect for High Abuse Interior Applications

In high abuse interior applications, consider the Durulite CR1400 corrosion resistant door system. The CR1400 is impervious to acids, petroleum products, animal fats and cleaning solvents, and will take a punch like no other door system. The door panel is constructed using rotational molding technology, creating a one-piece outer skin of high density, cross-linked polyethylene. The interior core is ultra-high density urethane foam. This combination results in a panel that will absorb impact and perform well in the most difficult conditions. Durulite CR1400 door panels are not designed for exterior applications.



Durulite® CR1400

The Durulite CR1400 door is designed for use in heavy duty interior applications that require durability, corrosion resistance and ease of maintenance in a door system. Every Durulite CR1400 is custom manufactured to the exact specifications of each opening. Durulite CR1400 doors can be ordered with windows, passage/locksets, door closers, panic devices, push/pull handles, kick plates, louvers, astragals, flush bolts, bottom sweeps and weather-stripping.

Door Surface

Seamless panel construction makes this door ideal for abusive, washdown applications. The sanitary surface never needs painting and cleans easily with soap and water. The Durulite CR1400 is available in 14 standard colors.

Door Panel

Constructed with a 1/8" thick outer skin of cross-linked polyethylene with an ultra-high density, NON-CFC urethane foamed-in-place core. The panel can retain its properties from 30°F to 100°F continuous service, and 140°F intermittent service with temperature differences of up to 40°F. The overall thickness of the panel is 1-3/4", yet weighs only 3.66 pounds per square foot, making it lightweight and easy to open.

Insulation

The Durulite CR1400 has excellent insulation qualities with an EcoMate foamed-in-place NON-CFC urethane core. EcoMate insulation is designed to be environmentally friendly; it was awarded VOC (Volatile Organic Compound or SMOG) Exempt Status by the EPA.

Gasketing

All doors come standard with a replaceable bottom sweep, and are available with a drop down seal. Full perimeter gasketing is also available.

Hinges

Optional high quality stainless steel hinges mount the CR1400 securely to the frame and provides years of service.

Lite Kit Options

Durulite CR1400 door systems can be equipped with a variety of lite configurations. Optional glazing includes clear polycarbonate in single or double pane units and can be set in your choice of stainless steel or two-piece injection molded, low profile PVC lite kits. The stainless steel lite kits can either be surface mounted or flush mounted for pharmaceutical applications.



Frames

Chase offers both pultruded fiberglass frames and stainless steel frames for the Durulite CR1400 door system. Either frame can be butt mounted or wrapped for most wall conditions, including insulated panel walls. The frames are available with a variety of mounting systems.

Fiberglass frames are constructed of 1/4" thick, pultruded fiberglass. The corners are mitered with no exposed fasteners for a clean finish. Fiberglass frames are available in 4" wide (single rabbet) or 5-3/4" wide (double rabbet) profiles. Reinforcements are placed inside the frame for additional strength.

The stainless steel frames come standard with type 304 material, and are available in 316 Stainless if required. Stainless steel frames are available for virtually any wall thickness and can ship knock down, face welded or fully welded. Single or double rabbet frames can be manufactured for walls as narrow as 3" or as wide as 12".

Optional Accessories

Hinge Options

Fib-R-Max™, Fib-R-Dor®, Fib-R-Lite™ and Durulite CR1400® will accept virtually any hinge offered for hollow metal doors. Chase Doors maintains an inventory of top quality hinges from the world's leading manufacturers. The most common hinges we stock include 4-1/2" x 4-1/2" full mortise stainless steel ball bearing hinges with non-removable pins, continuous hinges and hospital hinges. Contact Chase for other specialty hinge systems.

Hardware Options

Chase corrosion resistant doors are available with virtually any hardware configuration that is available on a standard hollow metal door, including passage and locksets, push/pull and panic devices to name a few. Adjustable closers can be attached to either side of the door and are available with optional hold open or time delay features.

FRP Accessories

Optional accessories such as FRP astragals, weatherstrips, transom panels are available on all corrosion resistant doors. FRP louvers that utilize an inverted FRP "V" design are also available for all fiberglass doors. Contact Chase for more information.

Available Colors for Fib-R-Max, Fib-R-Dor and Fib-R-Lite

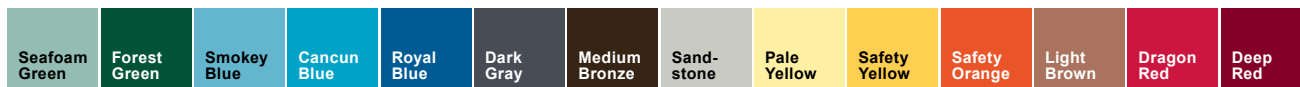
Chase stocks the most popular colors for all three fiberglass door systems; FDA White, Light Gray, Dark Brown, and Camel Tan. Chase also has custom color options available along with 15 additional pre-matched colors. Fib-R-Max and Fib-R-Dor standard finish is a high gloss, but additional finishes and textures are available.

Fib-R-Lite is available in both a fine pebble textured finish or a matte gel coat finish.

Standard Colors:



Pre-matched Colors:



Available Colors for Durulite CR1400



Color shown may differ from actual color. Consult factory for exact color match.



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