FIBERGLASS REINFORCED PLASTIC COMPOSITE DOORS AND FRAMES

The world's finest fiberglass reinforced plastic composite doors and frames.

TIGER Door
For more than 40 years, Tiger Door has been in the forefront of research and development in the field of Fiberglass Reinforced Plastic (FRP) products. The result is the finest FRP products in the marketplace – the unanimous choice of demanding architects, designers, owners and contractors worldwide.

Tiger Door FRP door and frame units include: Heavy Duty and Pharmaceutical Duty Door Series; Extreme Duty UL Fire Rated and Extreme Duty Hurricane/Windstorm Door Series; as well as Fixed Window Systems, Louvers, Thresholds, and Light Kits.

Every Tiger Door is custom CAD designed and hand fabricated by our craftsmen to your requirements. It is important to note that all Tiger Door products can be provided in custom sizes and will contain no ferrous metal or wood components in their construction that could lead to premature failure. Tiger Door – the first choice of FRP doors.

**Overview**

**Typical Uses for FRP Products**

- Municipal/Industrial Water and Wastewater Treatment
- Chemical Manufacturing, Processing and Storage
- Pulp and Paper Operations
- Pharmaceutical Production
- Transportation Systems
- Educational Facilities
- Gas, Oil & Mineral Mining and Refining Systems
- Research Laboratories, Hospitals and Veterinary Facilities
- Zoos, Aquariums, and Theme Parks
- Marine and Offshore Applications
- Food, Beverage and Additives Processing and Packaging
- Power Generation Facilities
- Swimming Pools and Outdoor Recreation Structures
- Car and Vehicle Wash Facilities
- Seaside, Lake and Waterway Environments
The Tiger Heavy Duty Door Series comes with a limited lifetime warranty and provides excellent service life and corrosion resistance for the most severe environments.

The Tiger Heavy Duty Door Series starts with a core that consists of a 3/8" triangular cell phenolic-impregnated kraft honeycomb surrounded by a rigid high-modulus, pultruded FRP tubular structural stile, rail and mid-rail sub-frame. At each of the sealed corner joints and hardware locations of the sub-frame, non-hygrosopic polymer blocking is inserted as reinforcement, providing the ultimate in strength for screw retention and compression resistance.

The skins for the door begin with the application of an "in-mold" 25-30 mil gel coat. Then a chopped strand glass fiber mat is applied to form the connective tissue, followed by a muscular bi-axial glass fiber structural reinforcement layer that further strengthens the door skins.

Finally, the composite skins are simultaneously fused onto both faces and all edges of the door under pressure until cured — not only to the FRP sub-frame but to the entire honeycomb core—forming a bond that fully integrates all the components. This highly advanced method of assembly using press-mold technology is only available from Tiger Door. Each door is factory finished with a specially formulated multi-component polyurethane industrial chemical coating for the semi-gloss color topcoat.
EXTREME DUTY SERIES

The Tiger Door Extreme Duty Series of products are engineered to specific performance criteria in addition to providing the ultimate environmental resistance. Some of the Extreme Duty Series ratings include, but are not limited to: fire, forced entry, water penetration, air infiltration, extreme wind resistance (in excess of 150 mph), wind born small missile impact, wind born large missile impact, blast static load, and blast dynamic load.

UL LISTED HURRICANE/SEVERE WINDSTORM

Tiger Door has successfully tested its glazed and flush FRP door and frame units to meet or exceed the stringent requirements of the Florida Building Code (FBC), and the International Building Code (IBC) for hurricane rated openings. This product has been assigned Florida Product Approval Number FL7026 and is fabricated to Underwriters Laboratories manufacturing procedures ZHDL.R25222 and ZHCW.R25108.

These requirements include meeting specific design pressures up to and including +/- 150 pounds per square foot (225 psf over-pressure) and large missile impact resistance with no shutters required. These pressures can translate to protection from wind speeds in excess of 300 mph*.

Test standards used to evaluate the product to these various requirements include:

- ASTM E1886/1996
- ASTM E330
- ASTM E283
- ANSI A250.13
- AAMA 1304

As determined by ASCE 7-98 "Minimum Design Loads for Buildings and Other Structures." Topographic, importance and wind directional factors not included.

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**UL Fire Rated**

Tiger Door has successfully tested its FRP Doors and Frame units to both UL 10B (neutral pressure) and UL 10C/UBC 7-2 (positive pressure) test standards. These door and frame constructions blend the latest technologies in fire protection components with the attributes of fiberglass to provide the ultimate FRP UL fire rated barrier. Seamless designs utilizing concealed category A intumescent, in combination with factory pre-finishing available in 3 standard, 24 custom, or project specific color matched colors, provide aesthetically pleasing FRP openings to satisfy the most demanding architectural requirements.

Tiger Door fiberglass fire doors are guaranteed for 10 years against delamination due to corrosion from the specific chemical environment named at the time of purchase. Furthermore, all products are inspected prior to shipment and guaranteed against defective workmanship for a period of ten (10) calendar years after the date of purchase.

**Pharmaceutical Duty Series**

Designed exclusively for interior pharmaceutical and medical environments where cleanliness is a must, the Tiger Pharmaceutical Duty Door Series is seamless and manufactured with all non-organic materials.

The core of the Tiger Pharmaceutical Duty Door consists of a 4mm cell polypropylene honeycomb surrounded by a rigid tubular FRP subframe. The skins for the door begin with the application of an “in-mold” 25-30 mil gel coat. Then a chopped strand glass fiber mat is applied to form the connective tissue, followed by a muscular bi-axial glass fiber structural reinforcement layer that further strengthens the door skins.

Finally, the composite skins are simultaneously fused onto both faces and all edges of the door under pressure until cured — not only to the FRP subframe but to the entire polypropylene honeycomb core—forming a bond that fully integrates all the components. This highly advanced method of assembly using press-mold technology is only available from Tiger Door. Each door is factory finished with a specially formulated multi-component polyurethane industrial chemical coating for the semi-gloss color topcoat.

The Tiger Pharmaceutical Duty Door Series comes with a limited lifetime warranty and provides excellent service life and corrosion resistance for interior pharmaceutical and medical environments where cleanliness is a must.
**FRP Frames**

All Tiger Door fiberglass frames are constructed with heavy walled fiberglass pultrusion profiles with bonded fiberglass reinforcements for hardware where required. The standard frame profile provided is a 5-3/4” double rabbeted, 2” face comparable with common hollow metal frame shapes.

Frames are provided standard with a mitered corner, and are provided in three pieces for field assembly prior to installation. A proprietary “no exposed” fastener system is used to attach frame jambs to the frame header. A choice of anchors is available for bolt in, grouted or bonded installation into various wall constructions.

Frames can be supplied as knock-down for wrapped wall installation or with chemically welded frame corners and throats. Expanded and compressed jamb depths, mullion profiles, 4” headers along with various other frame options are also available. UL Fire Ratings on most of the Tiger Door frame profiles are also available. Tiger Door offers a limited lifetime warranty on all frame products and bonded connections.

**FRP Accessories**

**Louvers**

Tiger Door offers two types of FRP louvers that can be integrated to our non-fire rated Commercial and Heavy Duty FRP door series.

The first is a flat blade design made from FRP flat stock that provides excellent air flow while keeping out the rain and snow.

The second is a V-blade design made from FRP angle stock that provides excellent air flow, protection of the elements, and visual privacy.

Both styles of louvers come factory installed, and can be supplied with a fiberglass bug/insect screen. Louvers can be painted to match the color of the door or, when desired, with a different color.

Standard sizes are 12” x 12”, 18” x 18” and 24” x 24”. Custom sizes are available. Consult factory with your specific project requirements.
SCREWLESS WINDOWS

Tiger Doors Screwless Vision Light System is a unique snap-together installation design gives you a smooth, clean look without the need to use exposed fasteners.

- Pultruded sloped loose stop profile for limited dust/dirt accumulation
- Fully "welded" corners on vision light stops to eliminate seams
- Vision light stops can be painted to match door or a complimentary color
- Doors with vision lights can come fully glazed from the factory, or shipped loose for field glazing at the jobsite
- Public side loose stops permanently affixed to door to provide maximum security
- Screwless Vision Light System can accommodate any type of 1/4" - 3/8" thick or 3/4" to 1" thick glazing material

APPLIED MOULDING

When your project calls for a more decorative look, Tiger Door offers an applied moulding appliqué system to enhance the appearance of the standard FRP door. These appliqués can be applied to any of our FRP door series including our 1-1/2 hour UL fire rated construction.

You can choose a standard 2, 4 or 6 panel look, or create your own unique design. Appliqués can be placed on one or both sides.

Appliqués are provided factory bonded to the face or faces of the door prior to finish painting.

Standard sizes available for individual appliqués include the following. Custom size appliqués are available by special order.

- 7" x 12"
- 12" x 24"
- 10" x 24"
- 9" x 18"
- 24" x 14"
- 10" x 7"
- 9" x 24"
- 10" x 15"
- 10" x 10"
- 24" x 30"
- 24" x 24"
- 24" x 14"
- 10" x 24"
- 9" x 24"
- 10" x 15"
- 10" x 10"
- 24" x 36"

THRESHOLDS

If your FRP opening requires a threshold, Tiger Door can provide its own pultruded FRP threshold. These thresholds are

1/2" high x 5-1/2" wide and are drilled, countersunk, and cut to size up to 20'
maximum length. Flat head threshold mounting anchors are provided based on the floor type specified at time of order.

Standard color for these thresholds is gray, but they can be painted any color desired with our two part semi-gloss polyurethane coating.

Tiger Door’s FRP thresholds also can be coated with a grip surface to meet anti-slip requirements. Specify at time of order.
AVAILABLE COLORS

All Tiger Door products come with a multi-component polyurethane chemical coating finish in 3 standard and 24 optional pre-matched colors with custom color match availability. Visit our website at www.tigerdoor.com, to view these color choices. Actual colors may vary. Please request a color chip for a representative sample of the actual color to be provided.

GET THE BINDER

In addition to this catalog, Tiger Door’s project binder is available to provide interested parties with detailed information on each of the Company’s FRP products. This detailed information includes:

- Anchorage details
- Glazing details
- Frame details
- Door details
- Fixed window details
- Specifications
- Door Data Sheets
- Installation instructions
- Color Guide

For copies of any of the Tiger Door information above, please call, write or email us. With fax, email or express mail service, we will answer your inquiries immediately. If access to the internet is available, this brochure, along with much more in-depth information including a PowerPoint presentation, can be viewed and downloaded from the Tiger Door website, www.tigerdoor.com.

TIGER Door

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