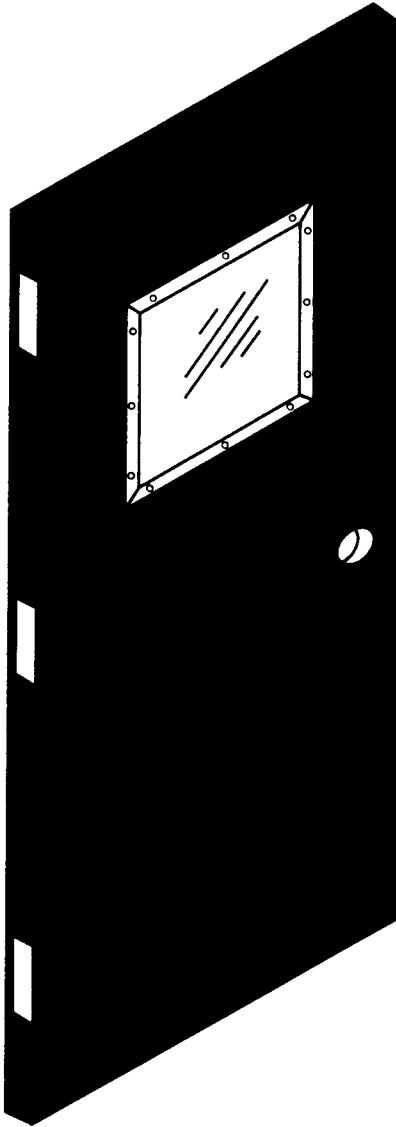


# CORRIM Company

OSHKOSH, WISCONSIN  
**POLYMER DOORS**



In accordance with a continuing program of product research and development, CORRIM Company reserves the right to change design and/or details of its products without notice. All details, drawings, and dimensions are accurate for estimating purposes at the time of publication. Specific information for job details and drawings should be obtained from CORRIM Company offices or distributors.

## CORRIM Company

Corrosion Immune Fiberglass Doors & Frames

3331 County Road A • Oshkosh, WI 54901-1414  
(920) 231-2000 FAX (920) 231-2238

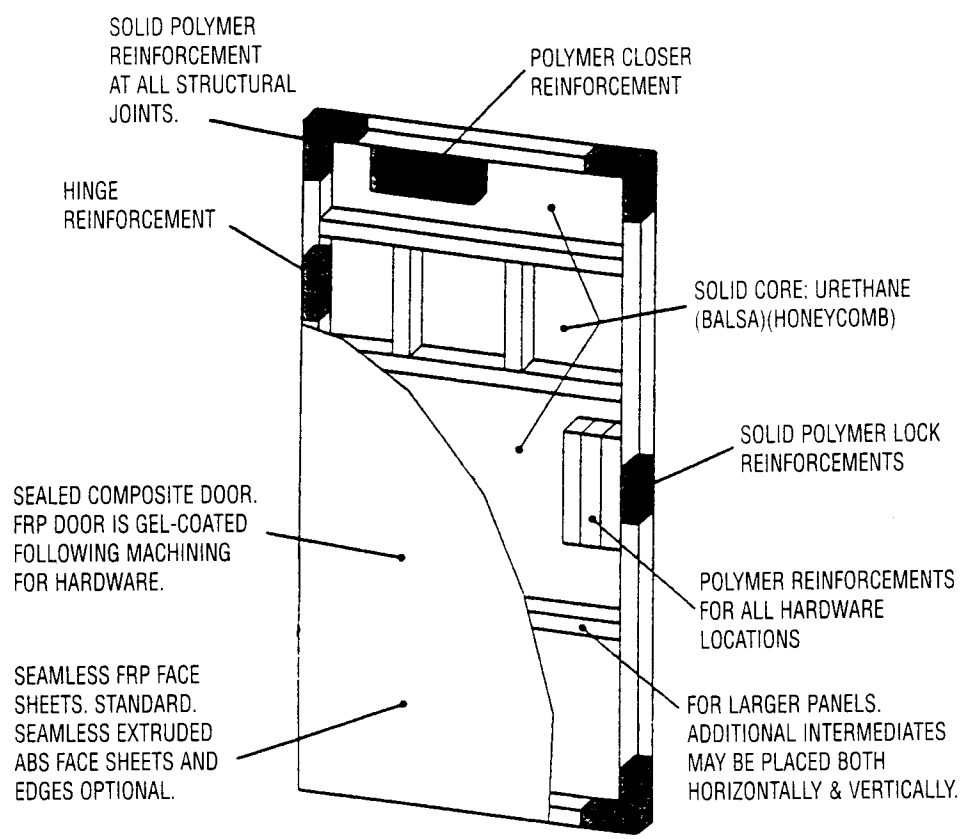
Internet Address:  
[www.corrim.com](http://www.corrim.com)

E-mail Address:  
[info@corrim.com](mailto:info@corrim.com)

**TECHNICAL FACT SHEET**

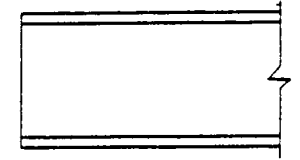
**20-98**

**FIBERGLASS DOOR - SHOWERS**

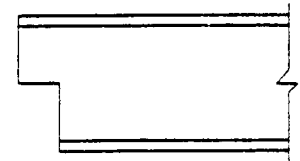


**TYPICAL CONSTRUCTION  
DETAIL**

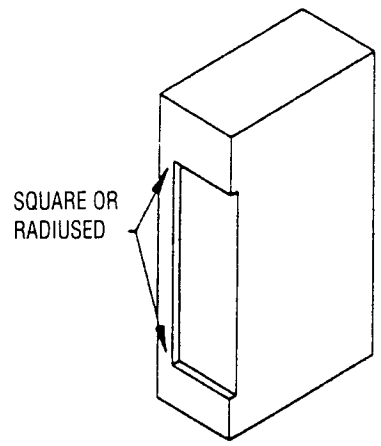
**DOOR EDGE  
DETAILS**



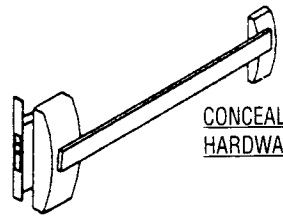
**SQUARE EDGE  
STANDARD**



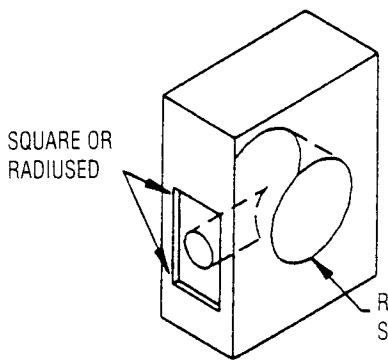
**RABBETED EDGE  
OPTIONAL**



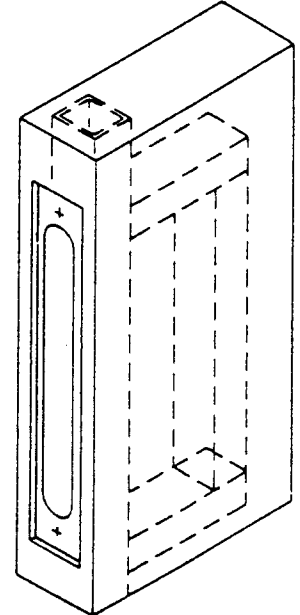
**HINGE PREPARATION  
PER TEMPLATE**



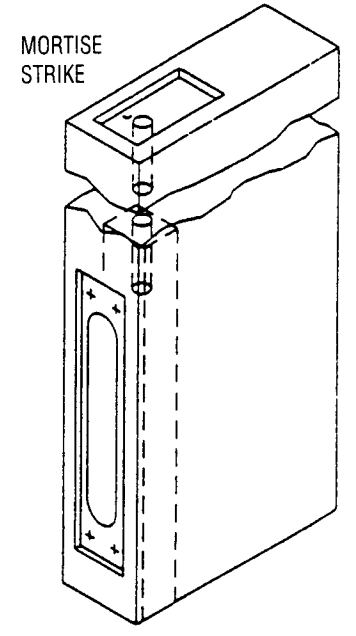
**CONCEALED AND SURFACE PANIC  
HARDWARE PREPS ARE AVAILABLE**



**CYLINDRICAL LOCK**

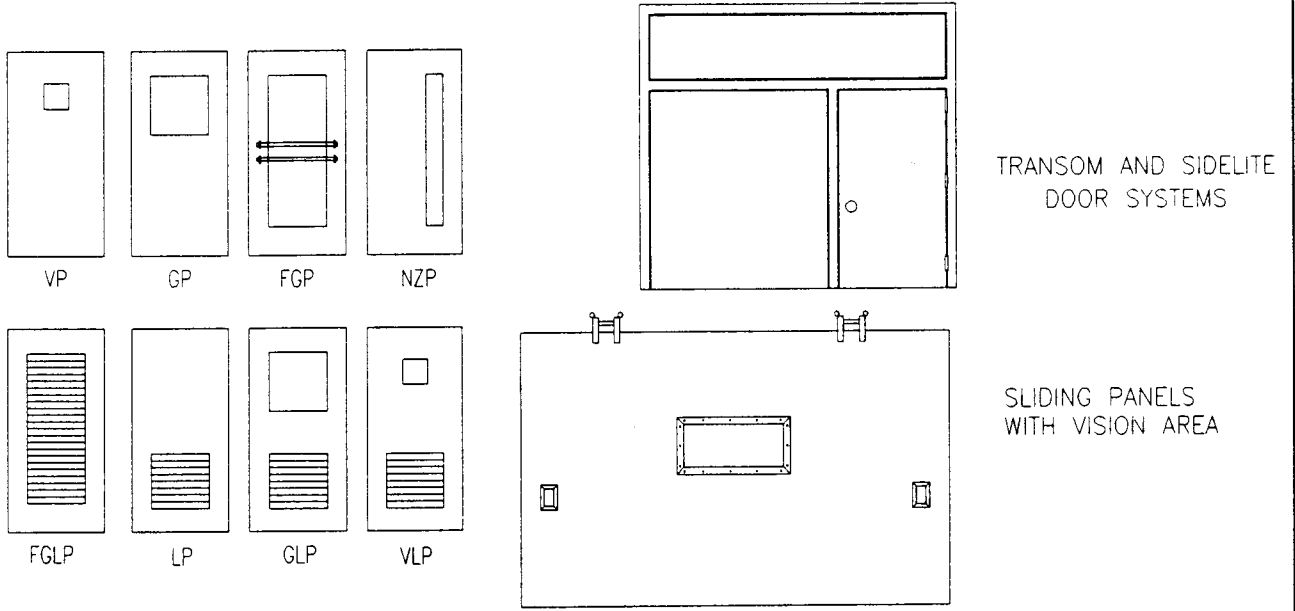


**MORTISE LOCK  
MACHINED & PREPPED  
PER TEMPLATE REQUIREMENTS**

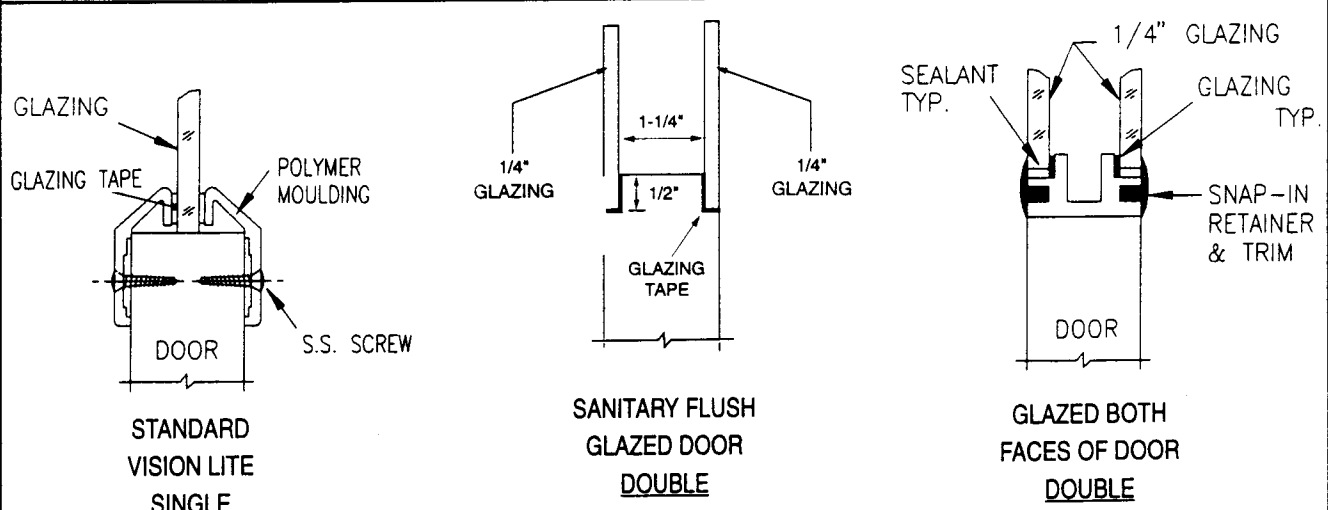


**LEVER EXTENSION FLUSH BOLT  
OR CONCEALED PANIC ROD DEVICE**

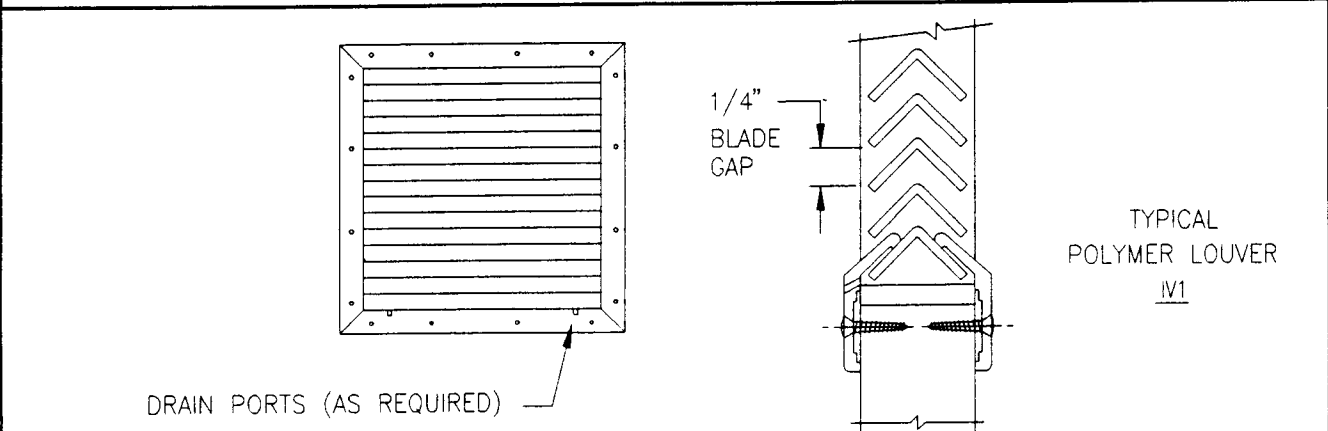
**FIBERGLASS DOOR - SHOWERS**



**DOOR CONFIGURATIONS**



**OPTIONAL GLAZING DETAILS**



**OPTIONAL LOUVER DETAILS**

# SPECIFICATIONS

## 1.0 GENERAL

Doors shall be furnished by CORRIM Company in accordance with the specifications as published in current literature. Installation shall be by the general contractor in strict accordance with manufacturer's recommendations and instructions.

## 2.0 FRP FACE SHEETS (Fiberglass Reinforced Plastic)

### 2.1 FACE SHEETS

Standard face sheets shall be manufactured by others using a corrosion resistant isophthalic polyester resin system with light stabilizing additives. The resin shall be reinforced with fiberglass 40% by weight.

2.1.1 Face sheets shall be 0.070" to 0.125" in thickness. Standard being 0.120".

2.1.2 Where deemed necessary by either the client or the factory, one of the following resin systems shall be substituted to meet the corrosive conditions: vinylester, high temp vinylester, bisphenol polyester, halogenated polyester.

### 2.1.3 FINISH

- White color impregnated gelcoat
- Gray color impregnated gelcoat
- Special colors upon request
- 15 mils thick coverage
- Smooth seamless finish

## 2.2 ABS FACE SHEETS (OPTIONAL)

### 2.2.1 FACE SHEETS

Extruded ABS plastic sheet, fabricated by third parties, whose specifications, chemical composition and structural characteristics are available upon request.

ABS face sheets are 1/8" thick. Other thicknesses are available by request or arrangement.

### 2.2.2 FINISH

- All exterior surfaces shall be ABS textured material
- Banded and sealed doors
- White color impregnated through the entire ABS material thickness
- Special impregnated colors available upon request
- Special applied colors available using 2 part epoxy systems upon request

### 2.2.3 SPECIALTY FACE SHEETS

Non-standard face sheets such as foamed PVC lucite, plexiglass, wood veneers, etc. are available upon request. Consult factory.

**NOTE:** Thermoplastic polymer products can react to extremes of cold and heat. They can only be used for exposure to specific chemicals and U.V. conditions. Please be sure to thoroughly research the operating conditions of the proposed doors or panels for proper application.

## 3.0 INTERNAL CONSTRUCTION

### 3.1 CORE

#### 3.1.1 STANDARD

Urethane core - A 1-1/2 inch thick rigid block of urethane shall be laminated to the interior of face sheets. The "K" factor shall be .14 BTU in/hr./sq.ft. 2 lb. density, or as required, shall be available.

#### 3.1.2 OPTION

Balsa core - A core of end-grain balsa shall be laminated to the interior face sheets. The balsa shall have a density 9.0 lbs./cu.ft. and be 1-1/2 inches thick. Compressive strength, perpendicular to the door panel surface shall be 1,400 psi.

#### 3.1.3 OPTION

Honeycomb core - B flute paper honeycomb shall be laminated to the interior face sheets. (The paper is lightly coated with resin to enhance its strength and corrosion resistance.)

## 3.2 STILES AND RAILS

Stiles and rails shall be 1-1/2 inch square pultruded fiberglass tubes. A polyester-based resin filled with 1/4" chopped glass strands and aerosil shall be used for reinforcements and corner blocks, etc. The bottom rail shall allow 1-1/4 inches of height alterability without less of panel's integrity.

## 4.0 TRANSOMS

Transom panels shall be constructed using the same stile, rail, core material, and face sheets as a standard door. Transoms shall be reinforced with non-swelling polymer blocks where through belts are used to attach to jambs.

## 5.0 HARDWARE PREPARATIONS

### 5.1 REINFORCEMENT BLOCKING

- Lockset...Non-swelling polymer blocking
- Surface Mounted Hardware...Non-swelling polymer blocking
- Through Bolted Hardware...Non-swelling polymer blocking

### 5.2 MORTISE HARDWARE

- Full Mortise Hinges...Non-swelling polymer blocking
- Half Mortise Hinges...Non-swelling polymer blocking
- Mortise Locksets...To suit template provided
- Exit Devices...To suit template provided

All doors may be mortised and reinforced to allow field application of hinges and locks, in accordance with approved hardware schedule and templates supplied by a hardware contractor. Where surface mounted hardware is to be applied, doors shall have reinforcing blocks only; all drilling and tapping shall be by others unless specified at time order is placed. The hinges shall be attached by using wood screws or through belts.

**6.0 LITES AND LOUVERS**

**6.1 LITES**

Lites may be factory installed and glazed prior to shipment. Single and double lites are available. Plastic, aluminum or stainless steel may be selected for glazing stops or moulding.

**6.2 LOUVERS**

Louvers shall be inserted, fiberglass type as provided by CORRIM Company and shall be factory installed. Inverted "V" blades are standard. Screens may be supplied as an option.

**7.0 FACTORY INSTALLATION OF HARDWARE**

Hardware and accessories may be factory installed as an optional service.

**8.0 FLAME SPREAD RATING**

A fire retardant additive is added to the gel coat, face sheet resins, and the polyurethane core to achieve a flame spread of 25 or less according to ASTM E-84 rating for each of the component parts. It should be noted that this rating does not apply to the door section as a composite. The standard construction doors are not fire rated as per ASTM E-152.

**9.0 RECOMMENDATIONS**

CORRIM Company **strongly recommends** that only light colors be used for exterior doors, since polymers, by their nature, expand in the heat and direct sunlight. Temporary bowing may occur, especially in solid core doors. Honeycomb core will further reduce this tendency. Doors will return to "normal" contour when sun is off them.

**HANDING DATA**

**HOW TO DETERMINE  
HAND AND SWING**

1. The hand of a door is determined from the outside.
2. The outside of an entrance door is the street side.
3. The outside of a room door is the corridor side.
4. The outside of a communicating door is the side from which hinges are not visible with door closed.
5. The outside of a closet door is the room side.
6. The key side (x) will be outside, unless otherwise specified.

**ON PAIRS OF DOORS  
KEY SIDE**

Right hand leaf is always active unless specified.

