

Wood Doors | Graham

Flush Wood Door Product Catalog



Innovative Products. Beautiful Solutions.



# Introduction

Masonite Architectural Wood Doors, a leading producer of commercial grade architectural flush doors, utilizes the latest in wood door manufacturing technology. Computerized bonding of components and an ultraviolet cured finish system are only two examples of the advanced technologies being employed.

Graham, located in Mason City, Iowa, produces premium and custom grade flush wood doors in a variety of veneers and factory applied finishes. Doors may be modified to fit many standard and custom hardware applications. Precision factory pre-fit and machining ensure proper fit tolerances as described and specified by the Window and Door Manufacturer's Association ANSI/ WDMA I.S. 1-A and the National Fire Protection Association (NFPA) pamphlet 80.

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## Sales, Marketing and Service Support

### **Masonite Architectural Door Security Solutions**

Masonite Architectural Door Security Solutions sales teams and specification consultants, located throughout the U.A., work with distributors and end-users to ensure complete life-safety and security solutions for commercial facilities. This is achieved by understanding end-user needs and incorporating products from industry-leading door and hardware brands. Support services include architectural education, technical expertise, and assistance with code compliance. Visit [www.assaabloydss.com](http://www.assaabloydss.com) to learn how we can help with your security and life-safety needs.

# Products

## Supreme Door (GSD)

### Standard Features

- Lead free
- Face veneer meets WDMA "A" grade
- Face veneer minimum 1/50" thick
- Limited Lifetime Warranty
- Contributes to multiple LEED credits
- Industry leading standard color options

### Serenity Door

- STC ratings from 27 to 46
- Lead free
- Select doors with 20 minute fire ratings & lite cutouts

### Sketch Door

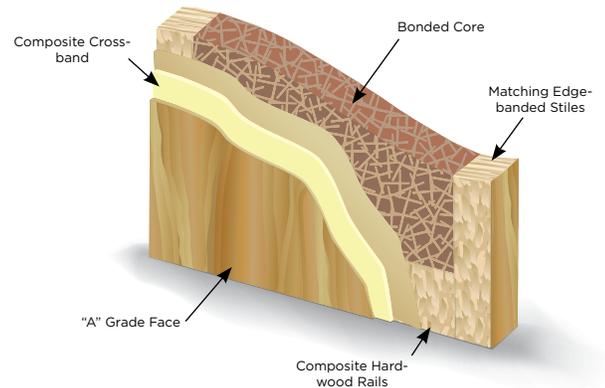
- Standard & Custom face designs
- STC ratings up to 46

### Options

- "AA" grade face veneers
- Core Types
  - PC - Particleboard
  - AF - Agrifiber
  - EC - Engineered

### Composite

- FD - Mineral
- SR - Acoustical
- No added Urea Formaldehyde (NAUF)
- Internal blocking wood or fire rated mineral
- (Sketch Door)



## Premium Door (GPD)

### Standard Features

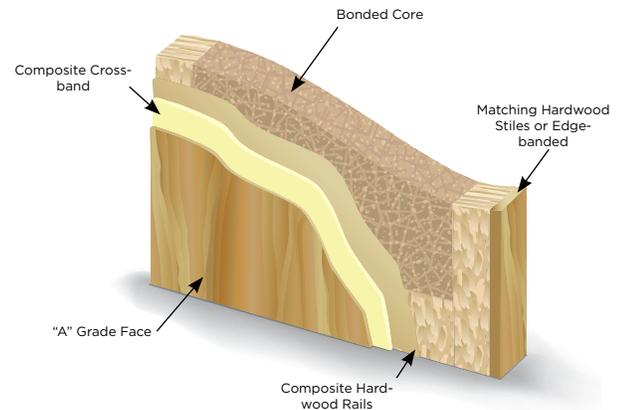
- All bonded construction up to 9'0" tall
- Meets WDMA I.S. 1-A premium grade
- Face veneer meets WDMA "A" grade
- Face veneer minimum 1/50" thick
- Type 1 adhesives - face to core
- Industry leading standard color options
- Limited Lifetime Warranty
- Engineered to meet or exceed industry performance requirements

### Options

- "AA" grade face veneers
- Core Types
  - PC - Particleboard
  - AF - Agrifiber
  - EC - Engineered

### Composite

- FD - Mineral
- No added Urea Formaldehyde (NAUF)
- Internal blocking wood or fire rated mineral



## Custom Door (GCD)

### Standard Features

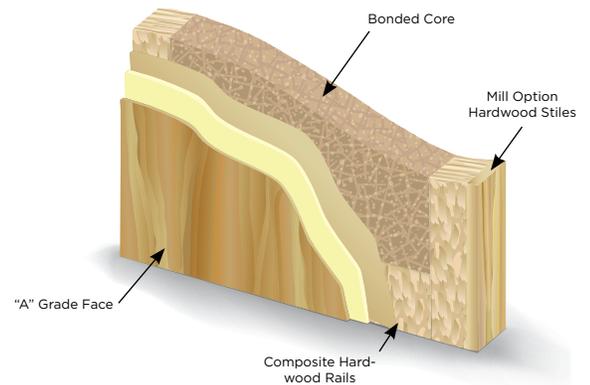
- All bonded construction up to 10'0" tall
- Meets WDMA I.S. 1-A premium grade
- Face veneer meets WDMA "A" grade
- Face veneer minimum 1/50" thick
- Type 1 adhesives - face to core
- Industry leading standard color options
- Limited Lifetime Warranty
- Engineered to meet or exceed industry performance requirements

### Options

- Core Types
  - PC - Particleboard
  - EC - Engineered

### Composite

- FD - Mineral
- No added Urea Formaldehyde (NAUF)
- Internal blocking wood or fire rated mineral



# Colors

Masonite Architectural Wood Doors has always offered a wide range of colors, giving design professionals the freedom to be creative and find the perfect look to match any project.

We have now expanded to include 28 standard prefinish colors. This new offering includes the 9 standard colors you have long relied on, and now also includes many of the same colors used by other vendors in the wood door industry. This makes it easier for you to get the color you want without having to go through the time consuming customer color process.

For a complete presentation of wood veneers and factory finish colors reference the Guide to Wood Doors catalog.

# Manufacturing

Within the Graham Production System, a portion of the process is devoted to bonding the core and frame components of every solid core wood door. Stiles and rails are secured to any of the standard core types including particleboard, staved lumber, agrifiber, and engineered composite core. This takes place through the use of a highly automated computerized process that represents the latest in this type of technology.

The bonding process at Graham allows maximum utilization of material and resources, thereby reducing waste. This is a result of Graham's desire to provide customers with the highest quality architectural flush wood doors available while conserving natural resources.

Using highly automated, state-of-the-art computerized equipment enables Graham to accurately trim a door to size, bevel the latch and hinge stiles, and machine for standard and custom hardware applications. Precision factory pre-fitting and machining for locks, latches and other builders' hardware is completed through the use of sophisticated computer controlled routing and boring equipment. Graham's skilled machine tool operators to ensure that the doors are pre-fit and premachined within the tolerances of the Window and Door Manufacturers Association (WDMA) and the National Fire protection Association (NFPA). This assures quick, easy installation and proper operation of the doors on every project.



## **GREENGUARD Gold Certification**

Graham has taken the steps to insure the doors and frames we manufacture help keep the building atmosphere free from chemicals that can harm children. Graham doors

have been tested and certified by the GREENGUARD Environmental Institute to meet the criteria of their GREENGUARD Gold Certification. GREENGUARD is nationally recognized for helping improve indoor air quality in buildings.

For more information, visit [www.greenguard.org](http://www.greenguard.org)



## **ElectroLynx**

ElectroLynx is a system of universal plug-in connectors and standardized color-coded wiring that makes

installation of electrified openings a snap. Doors, frames and hardware are pre-wired with plug-in connectors that snap together to create a fully-wired opening. The plugs and wires are concealed to preserve the aesthetics of the opening and facilitate future hardware.

For more information, visit [www.masonitearchitectural.com](http://www.masonitearchitectural.com)

# Product Programs

## **GT-5 Quick Ship**

The GT-5 Quick Ship program allows you to get a wide variety of doors in 5 days or less.

## **GT-5+5 Quick Ship**

The GT-5+5 Quick Ship program brings added options and features to our Quick Ship program in 10 days or less.

## **GT-3W**

The GT-3W program expands upon our Quick Ship programs with added versatility while maintaining a speedy 3 week lead time.

## **Swift Pac**

The Swift Pac program is a great way to get a large number of wood doors in a quick, convenient way. With pre-packaged pallets of 15 doors, easy to use order forms, and the ability to add to pool shipments and trans-shipments, lead times are dramatically reduced.

# Services

## **Quotation Services**

The construction industry today demands quotation services that respond to fast track timelines. Graham pledges 24-hour response on most quote requests ensuring that distributors have the most current information for their budgetary and financial needs.

Graham's computerized quotation system and specially designed quote request forms allow for fast accurate recording of project requirements and accurate generation of the quote.

## **Order Coordination**

Graham provides computerized order coordination when needed. Experienced order coordinators collect, review, and enter the information taken from door, frame and hardware schedules. They then review this information with the distributor and convert it to manufacturing instructions. If there are differences in the information provided on the schedules, Graham coordination personnel research and determine the proper product specifications.

Coordination of order information assures that accurate information is entered into the Graham production system. Computerization of this process has helped Graham maintain some of the best and most consistent manufacturing lead times in the industry.

## **Order Entry**

Graham utilizes specifically designed order forms and order entry systems to facilitate quick, easy entry of order information. Order writing options include a time tested system of order codes, order forms and electronic order writing tools developed to speed the order entry process. This translates to less time spent writing orders. Since the information makes its way to the Graham production floor faster, the order is completed sooner.

## **gExpress**

The gExpress program has been created to satisfy your requirements for high quality wood doors when dealing with fast-track construction schedules. The program provides specific door types, wood species, manufacturing options, and finishes on a production schedule designed to meet your short lead-time wood door needs.

## **Pool and Combination Shipping**

Provides a number of different ways to get your products quickly and economically. Using our pool and combination shipping programs will help to lower freight costs, reduce possible damages and eliminate in-transit delays.

# Field Support

Graham has always been dedicated to providing our customers with the support and training they need to understand everything about our products. We strive everyday to provide the best possible, product, but due to the nature of wood, some issues may arise that require a better understanding of what can be done to resolve those concerns. Below are some common subjects that may arise with your wood door and the support available from Graham.

## Telegraphing and Warp

Telegraph or show-through is any distortion in the face veneer of a door caused by variation in thickness between the core materials and/or the vertical or horizontal edge bands.

Warp is any distortion in the door itself and does not refer to the relationship of the door to the frame or jamb in which it is hung. The term "warp" shall include bow, cup or twist.

Wood is a hygroscopic material. It constantly exchanges water vapor with the air, picking it up when atmospheric humidity is high, and giving it off when relative humidity is low. Since wood swells as it absorbs water, and shrinks as it releases water, both its moisture content and its dimensions are controlled by relative humidity of the surrounding air.

Telegraphing and warpage are a reaction of the wood or wood products to the environment. There are many things that man has learned over the centuries about how to stabilize wood and wood products. The most important is a "magic" moisture level called "Equilibrium Moisture Content," or E.M.C.

The recommended moisture content for wood and wood products intended for interior use is 8% for approximately 75% of the continental United States. Data compiled by the USDA Forest Product Laboratory show that 7%-8% moisture content in wood is most suitably achieved at temperatures of 65-75 degrees Fahrenheit and relative humidity's of 35% to 45%. In short, if the temperature and humidity levels of the environment into which the wood or wood products are placed are not controlled, warpage may result.

## Relative Humidity & Moisture Content

It is the responsibility of the design professional to engineer the space in which fine woodwork (not to mention laminates, fabrics and wall coverings) is to be installed with humidity controls required to maintain the optimum humidity. (For additional data on moisture content and relative humidity refer to the USDA Forest Products Laboratory Wood handbook chapter 14, "Control of Moisture Content and Dimensional Changes". The map shows the approximate average moisture content for interior use of finished woodwork recommended for general areas of the United States.

For more information contact your Graham Customer Service Professional.



USDA Forest Service, Agricultural Handbook No. 72