

Innovative Products. Beautiful Solutions.



Graham[®]
wood doors

ASSA ABLOY

ASSA ABLOY, the global leader in door opening solutions

Introduction

Graham Wood Doors is one of the leading producer of commercial grade architectural flush doors, utilizing 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 in Graham's facilities.

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.

Graham's product construction and diversity of material usage ensures that the most critical engineering and life safety requirements will be met.



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Our Website

Online at www.grahamdoors.com, Graham's website offers complete product information as well as the latest product updates and corporate information. Find a local distributor, view common wood species and color options, meet the team, and much more all in one place.
www.grahamdoors.com

This brochure effective as of October 2010

Sales, Marketing and Service Support

ASSA ABLOY Door Security Solutions

ASSA ABLOY 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 to learn how we can help with your security and life-safety needs.

Phone: 1-800-DSS-EZ4U (377-3948)
Address: 110 Sargent Drive
New Haven, CT 06511
Web site: www.assaabloydss.com

Email: Contact your local Door Security Solutions representative via email by going to assaabloydss.com.

Products

Graham Supreme Door (GSD)

Standard Features

- No added urea-formaldehyde
- Lead free
- Face veneer meets WDMA "A" grade
- Face veneer minimum 1/50" think
- Limited Lifetime Warranty
- Contributes to multiple LEED credits
- Industry leading standard color options

Serenity Door

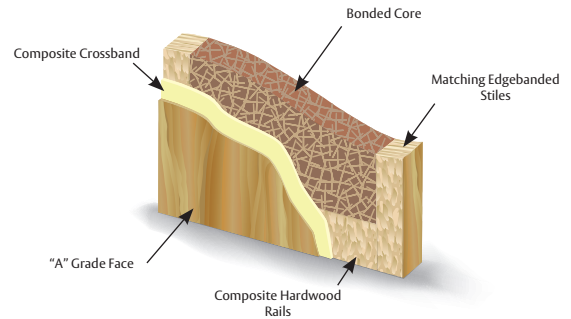
- STC ratings from 27 to 46
- Lead free
- Select doors with 20 minute fire ratings & lite cutouts

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
 - SL - Staved Lumber
 - FD - Mineral
 - SR - Acoustical
- Internal blocking wood or fire rated mineral (Sketch Door)
- FSC certification



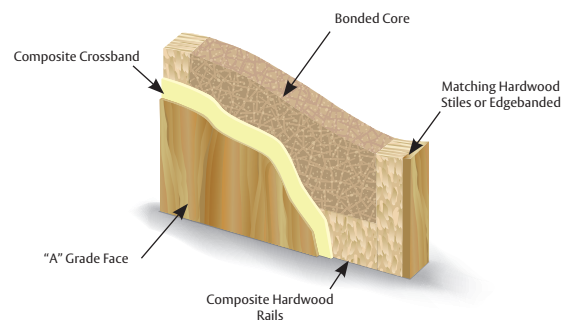
Graham Premium Door (GPD)

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" think
- Type 1 adhesives - face to core
- Adhesives contain no formaldehyde
- 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
 - SL - Staved Lumber
 - FD - Mineral
- Internal blocking wood or fire rated mineral
- FSC certification



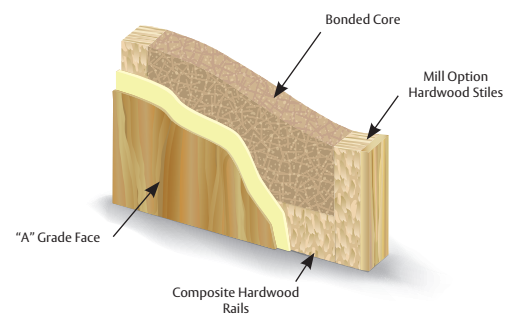
Graham Custom Door (GCD)

Standard Features

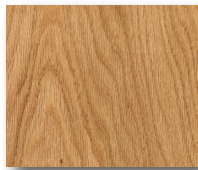
- All bonded construction up to 10'0" tall
- Meets WDMA I.S. 1-A premium grade
- Face veneer meets WDMA "A" grade
- Face veneer minimum 1/50" think
- Type 1 adhesives - face to core
- Adhesives contain no formaldehyde
- Industry leading standard color options
- Limited Lifetime Warranty
- Engineered to meet or exceed industry performance requirements

Options

- Core Types
 - PC - Particleboard
 - EC - Engineered Composite
 - SL - Staved Lumber
 - FD - Mineral
- Internal blocking wood or fire rated mineral



Colors



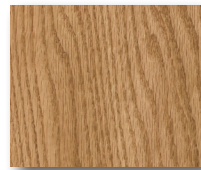
#100 Clear



#125 Fallow



#175 Barley



#200 Spiced Walnut



#225 Zin



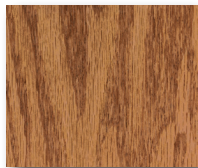
#250 Copper



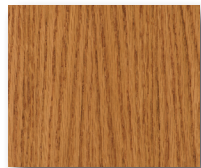
#275 Russet



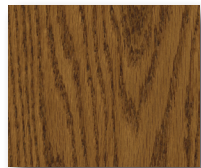
#300 Medium Brown



#325 Rose



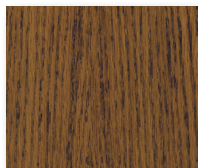
#350 Cocoa



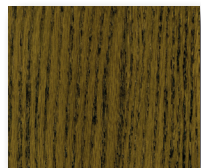
#375 Hazel



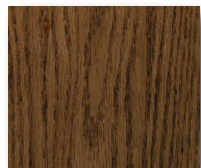
#380 Corsica



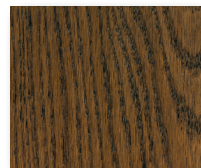
#400 Dark Walnut



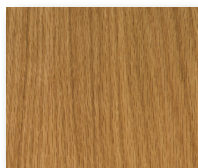
#425 Cactus



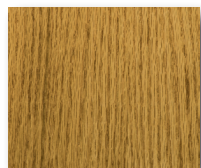
#500 Medium Red



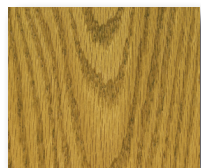
#550 Umber



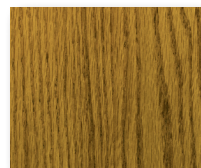
#600 Wheat



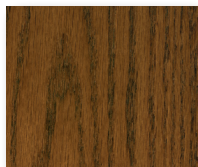
#625 Buff



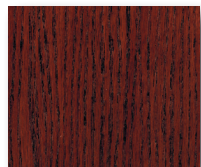
#650 Sandy



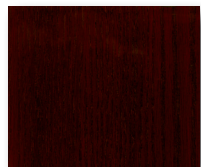
#675 Apricot



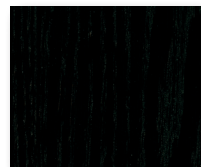
#700 Dark Brown



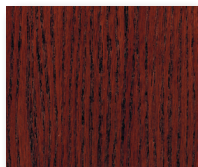
#775 Auburn



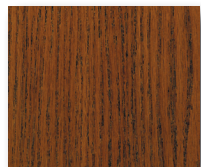
#800 Dark Red



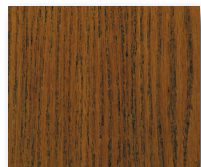
#850 Midnight



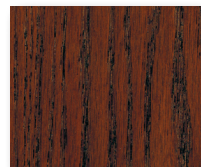
#901 Burgundy



#902 Cayenne



#925 Ochre

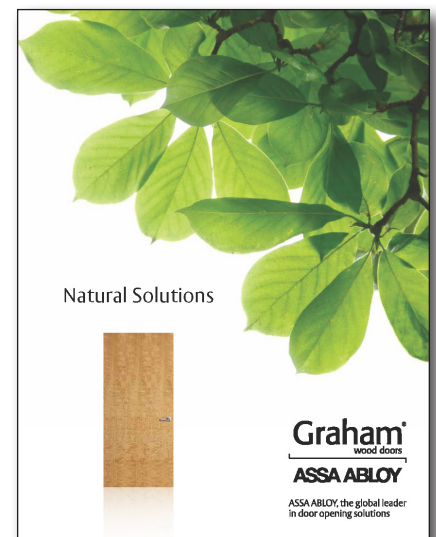


#950 Sedona

Graham 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.

Now, we have now expanded to include 28 standard prefinish colors. This new range not only includes the 9 standard Graham colors you have long relied on, but also includes many of the same colors used by other companies in the wood door industry, making 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
Graham Natural Solutions



Actual colors may vary from those represented on this page. Do not use this page for sample or product comparison

Samples shown are Plain Sliced Red Oak

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 facilitated through the use of sophisticated computer controlled routing and boring equipment. Graham's machine tool operators have the skill to ensure that the doors pre-fit and premachined within the tolerances of the Window and Door Manufacturers Association (WDMA) and the National Fire protection Association (NFPA). This assures that quick, easy installation and proper operation of the doors on every project.



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 changes.

For more information, visit www.assaabloydss.com



ReadySet®

When customers opt for the ReadySet system from ASSA ABLOY brands, openings arrive at the jobsite fully prefinished and preassembled, with all hardware installed and ready to use. Final installation of the opening takes under 10 minutes and punchlist items are virtually eliminated. Openings are available with a multitude of choices for hardware (mechanical and electromechanical), finishes, and more.

For more information, visit www.readysetsystem.com

Product Programs

Graham leads the wood door industry with speed and flexibility. Our wide range of product programs gives you all the options you will need to get your doors promptly and correctly.

GT-5 Quick Ship

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

GT-5+5 Quick Ship

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

GT-3W

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

Swift Pac

The Graham 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.

gExpress

The Graham 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 Graham 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

Graham 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.

For more information on all of Graham's product programs, contact your Graham Customer Service Professional or visit www.grahamdoors.com.



Services

A lot of companies talk about their great customer service. At Graham, we don't just talk about it, we live it. We believe that providing our customers with the highest level of attention builds strong, lasting partnerships that will grow into the future.

Quotation

The construction industry today demands quotation services that respond to fast track timelines. GRAHAM prides itself on its reputation for supplying fast accurate quotations based on job specifications. GRAHAM pledges 24-hour response on most quote requests ensuring that distributors have the most current information for their budgetary and financial needs. The company quotes and produces wood doors specified to meet ANSI/WDMA I.S. 1-A or Architectural Woodwork Institute quality standards for premium or custom grade constructions.



The company'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

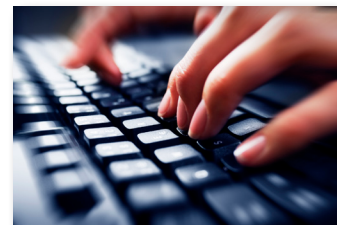


Graham provides computerized order coordination when needed. Experienced order coordinators collect, review, and enter the information taken from door, frame and hardware schedules. They then review this information with the distributor and convert it to manufacturing instructions. If there are differences 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 W.O.W. electronic wood door 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.



Field Support

Graham has always been dedicated to providing our customers with the support and training they need to understand everything about our products. And while we strive everyday to provide the best possible product, due to the nature of wood, some issues may arise that require a better understand of what is happening and what can be done to resolve those issues. Below are some common issues that may occur with your wood door and how you can get support 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.

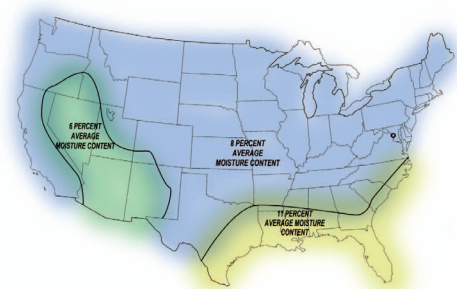
Telegraphing and Warpage are a reaction of the wood or wood products to the environment. There are many things that man has learned over the centuries about how to stabilize wood and wood products. The most important is a “magic” moisture level called “Equilibrium Moisture Content,” or E.M.C.

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.

In short, if the temperature and humidity levels of the environment into which the wood or wood products are placed are not controlled, telegraphing and 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 as shown on the attached charts and tables. (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.



USDA Forest Service, Agricultural Handbook No. 72

For more information and assistance with these type of issues, contact your Graham Customer Service Professional.

Graham[®]

wood doors

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ASSA ABLOY, the global leader
in door opening solutions

Discover the possibilities at
www.thegooddesignstudio.com



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