



Welcome to our ASSA ABLOY Door Security Solutions AIA/CES presentation for Aesthetically Designed Architectural Door Openings. As the name implies, you will learn about decorative commercial, door, frame, and hardware solutions today.

Consider for a moment that doors and door hardware may be the most intimate points of contact we have with a building. Think about it: We are affected by the way a door looks, and by the way the lever or pull on that door feels. And while the first job of doors and hardware may be to keep what is behind them safe and secure, they should also insulate us from noise, create a barrier against the heat and the cold, be sustainable and energy efficient, and be aesthetically harmonious with the dominant character of a space.

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## Course Description

This program will provide an overview of the importance and choices available to improve the aesthetics of architectural door openings with a continuous design scheme. Understanding the benefits of aesthetically pleasing door opening designs without compromising performance.

We will also take a look at varied options to differentiate design concepts from commodity products with an emphasis on improving the occupant experience.

Public

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## Learning Objectives

At the conclusion of this program, participants should be able to:

1. Write clear, correct, and concise specifications for aesthetically designed architectural openings.
2. Explore benefits and understand challenges of utilizing aesthetic doors and hardware.
3. Consider the various codes related to doors and hardware, which affect product selection.
4. Describe various designs and color/finishes available to create an aesthetically pleasing opening.



## “Good” Product Design in Door+Hardware Industry

Traditionally defined in terms of:

- Durability
- Strength
- Features and functions
- Code compliance
- Life safety and security

Performance “above and beyond” industry test standards

But how have they looked???

Does it **MATTER** how they look?



“Good” product design in the door and hardware industry has traditionally been defined in terms of how robust our doors and hardware are; whether or not they are code compliant; and we often spend most of our time discussing features and functions.

## Life Safety and Security Are Job No. 1 for Door Openings —but Aesthetics (and other Attributes) Matter Too!



It is important to have robust doors and hardware with many features and functions that meet life safety and security requirements. The good news is that buildings and owners can now have aesthetics and robust doors and hardware.

Consider: Doors may be the most intimate points of contact that we have with a building.



Juhani Pallasmaa  
Honorary FAIA  
Professor of Architecture

Pallasmaa's attention to detail has sometimes earned him the label "jewel-box architect."

*The door handle is the handshake of the building.*



Finish Architect Juhani Pallasmaa said, "The door handle is the handshake of the building."

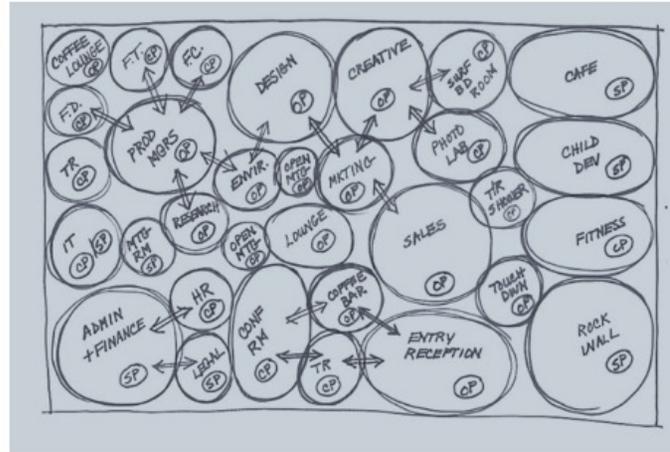
Consider for a moment that doors and door hardware may be the most intimate points of contact we have with a building. We are affected by the way a door looks and how the lever or pull on that door feels.

We focus on so many of the design details on our buildings, and doors and hardware should not be any different.

## When Does Door and Hardware Design Begin?

**Answer:** As soon as you begin to consider what a door opening must do!

- Security
- Life safety
- Sound control
- Sustainability
- Aesthetics
- Blast
- Windstorm
- Access control



The door and hardware discussion should begin in space planning, once adjacencies are being considered, and where you need security, sound control, and dynamite aesthetics.

## Door and Hardware Consultant – Not Involved



When an architect or designer begins to render an area, many times the door is a flat rectangle on the drawing, as seen in the blue rectangle on the slide. This rendering can look different if a door and hardware consultant and his or her Revit plug-in get involved.

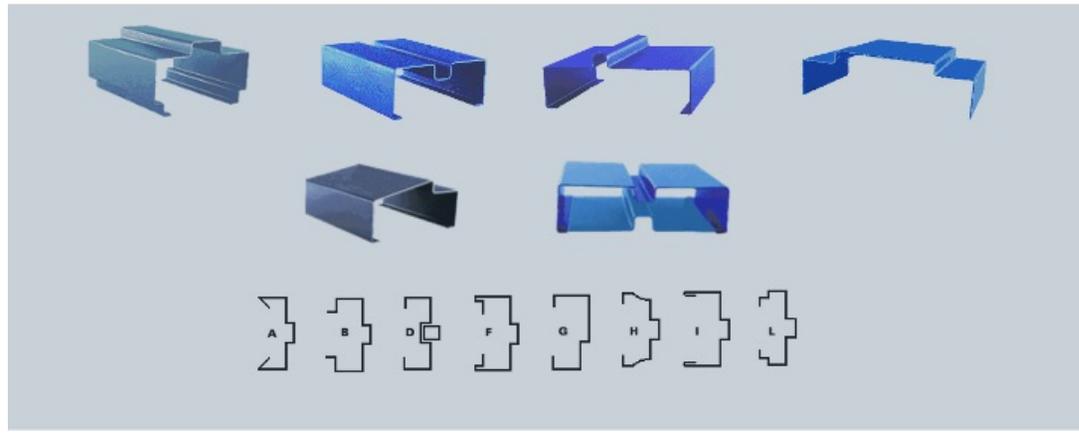
## Door and Hardware Consultant – Involved



The updated blue rectangle on the slide is one example of a rendering that, when a door and hardware consultant is involved, the flat rectangle can change into an opening that matches the design.

## Hollow Metal Standard and Decorative Profiles

More than a standard 2-inch flat face! Consider manufacturer options.



An opening starts with a frame. Hollow metal frames are specified quite often in commercial construction, and most of them are commodity frames with 2-inch flat face profiles.

There are manufacturers that offer decorative profiles. There are profiles that look just like wood or can have custom bends. A good manufacturer will take your designs, sketches, and drawings and bend the metal to your specification at little or no additional cost. Many of those profiles will meet fire-rating requirements without additional testing. A decorative metal frame can change the entire appearance of a door opening.

## Frames

### Standard and Decorative Steel Frames for Energy Efficiency

- Energy-efficient frame types
  - Kerf frames
  - Groove along the frame section
  - Simplifies weather stripping installation
  - No additional fasteners required
- Thermally broken frames
  - Prevent frost/condensation
  - Reduce heat loss
  - Ideal for openings directly exposed to cold weather



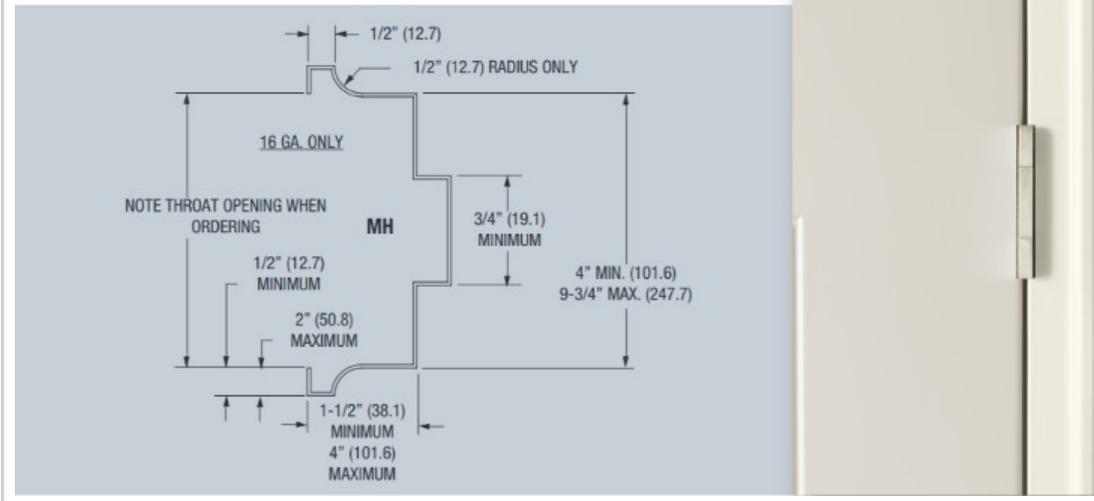
Weather stripping on door openings, typically used to mitigate the transfer of air and/or sound, has traditionally been surface applied to a frame with an adhesive or mechanically fastened to a frame with hardware.

There are other options that reduce the visibility of the applied weather stripping and improves energy and thermal efficiency.

Kerf frames are manufactured with grooves in the stops on the frames. Gasketing securely slides into the grooves. It is more resilient than an adhesive or mechanical application, and it is certainly less visible and more aesthetically appealing.

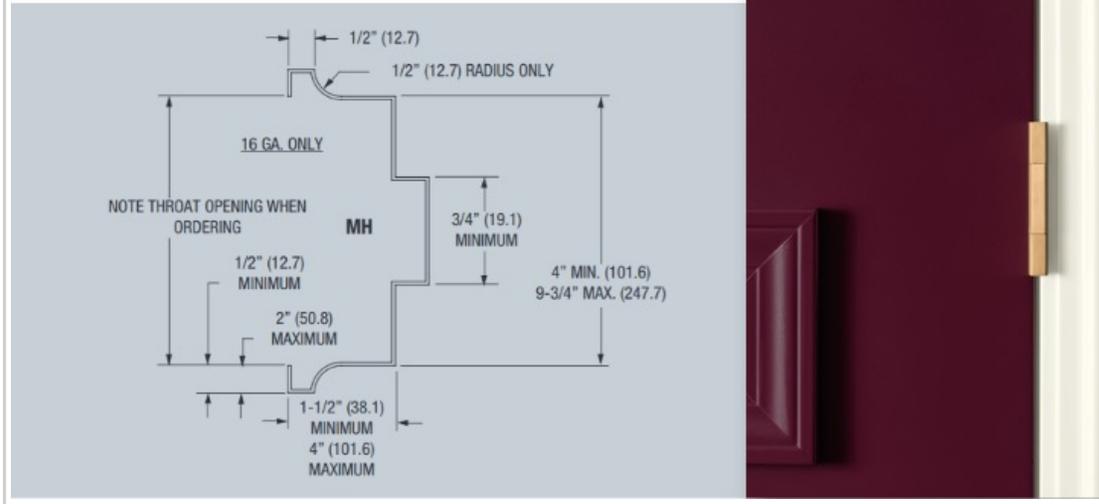
Thermally broken frames are integral and critical components of energy-efficient door-opening solutions. A gasket between the inside and outside faces of the frame serves a thermal break, which stops the transmission of heat or cold from one side of the opening to the other. And aesthetically, it is an incredibly clean-looking solution.

## Decorative Steel Frame Profiles



Decorative frames are available in a variety of sizes, gauges, and aesthetic profiles.

## Decorative Steel Frame Profiles



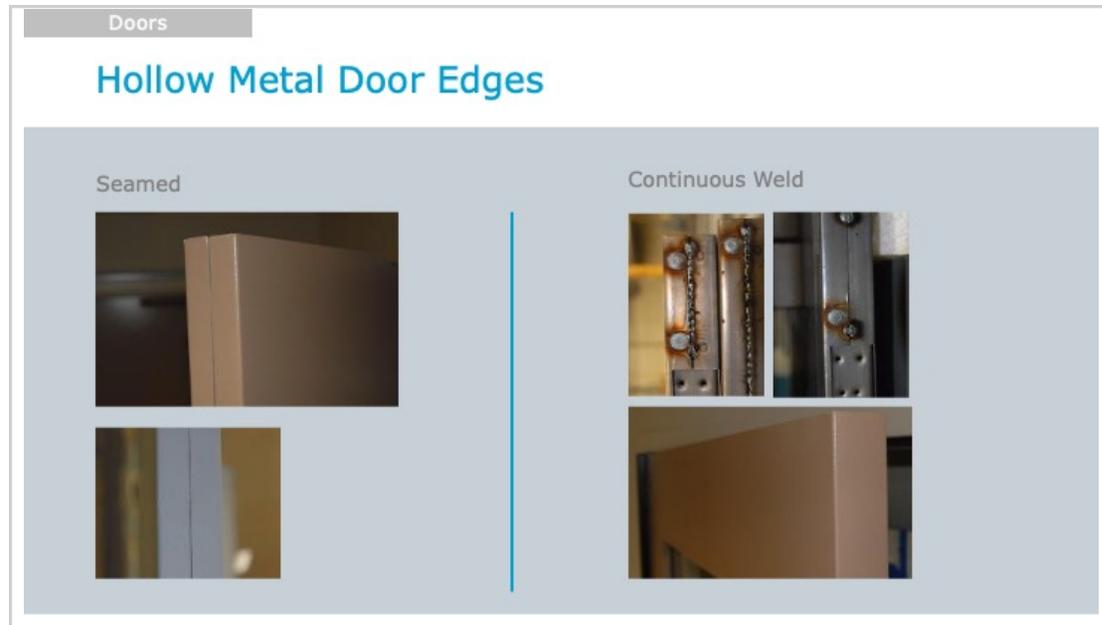
These decorative frame profiles are like the frame around a work of art.

## Decorative Hollow Metal Doors

- High-definition embossed wood grain
  - Combines beauty with durability of steel
  - Architecturally accurate S+R design
  - Factory pre-finished or custom color matching
  - Available with rated cores (fire, STC, thermal/energy)
  - Available with glass/vision lites
  - High recycled steel content
- Applications
  - Schools/universities/libraries
  - Health care/senior living
  - Hospitality
  - Multifamily housing/student housing
  - Commercial/mixed-use properties



Typically, when we think of hollow metal doors, we think of flush, painted, commodity metal doors, specified for their functional attributes and price point. Hollow metal doors are available with high-definition embossed panels and wood grains, and these type of doors can meet and exceed life safety and security codes, accommodate stringent STC requirements, and look very credible.



When specifying metal doors, it is important to specify the door edge detail.

Metal door edges are manufactured with a “seam on edge” or “seamless” as shown in the photos. Depending on the manufacturer, the seam on edge can be in the center of the edge band as shown in these photos or closer to the face. It depends on the manufacturer.

In “seamless edge” hollow metal door construction, the door may be constructed in one of two ways.

In “seam filled and welded” construction, the door edge is spot welded and the seam is filled with a putty-type material, which is then sanded smooth and painted. In “fully welded construction,” the door edge is fully welded then ground down smooth and painted. Once painted, it is nearly impossible to discern the difference between seam filled or fully welded construction, other than knowing what you paid for it. Fully welded construction costs more, and it’s the better construction method of the two.

## Stainless Steel with Frames

- Cores
  - Blast rated
  - Ballistic rated
  - Lead lined
  - Site hardening
- Site hardening
- Aesthetically appealing vision lites, louvers
- Applications
  - Highly corrosive environments
  - Clean rooms
  - Emergency rooms
  - Laboratories
  - Biomedical facilities



Stainless steel doors and frames can be utilized in schools, universities, laboratories, biomedical facilities, and hospitals in anticorrosive environments, clean rooms, emergency rooms, food-prep facilities, and aquatic centers. Blast- and ballistic-rated and attack-resistant door and frame solutions are available from certain manufacturers to meet site-hardening requirements.

## Integrated Door Assemblies



This is **NOT** an integrated assembly!



The above picture on the right is a door, frame, and hardware that built this opening—including the hinges and the exit device—with separate components. The picture on the left is just a sample of the pieces and parts it took to build this opening in the field.

## Integrated Hollow Metal/ Wood Door Assemblies

- Hollow metal door/flush wood door
- Top-latching, eliminating need for astragals in cross corridor and elevator lobby applications
- Low-profile, 3/8-inch projection, integrated exit device in variety of finishes
- 3-hour fire-rated HMD/90-minute fire-rated WD
- Primed, pre-finished to match existing paints, or faced with decorative high-pressure or metallic laminates for hollow metal
- 28 standard finishes, pre-finished to match
- Available with glass lites



The above opening is a sample of an integrated door opening. A more streamlined installation with hardware preinstalled on the door. This integrated door opening assembly is clean and code compliant.

## Integrated Acoustic Sliding Door Assemblies

- STC34 and NA
- 20-minute smoke rated
- Aluminum frame
- Applications
  - Patient rooms
  - Exam rooms
  - Conference rooms
  - Hospitality
  - Multifamily
  - Office
  - Public



Acoustic sliding assemblies are engineered for a wide of array of applications including projects where sound control and space are critical design considerations.

Door Hardware

## Sequence and Format of the Door Hardware Schedule

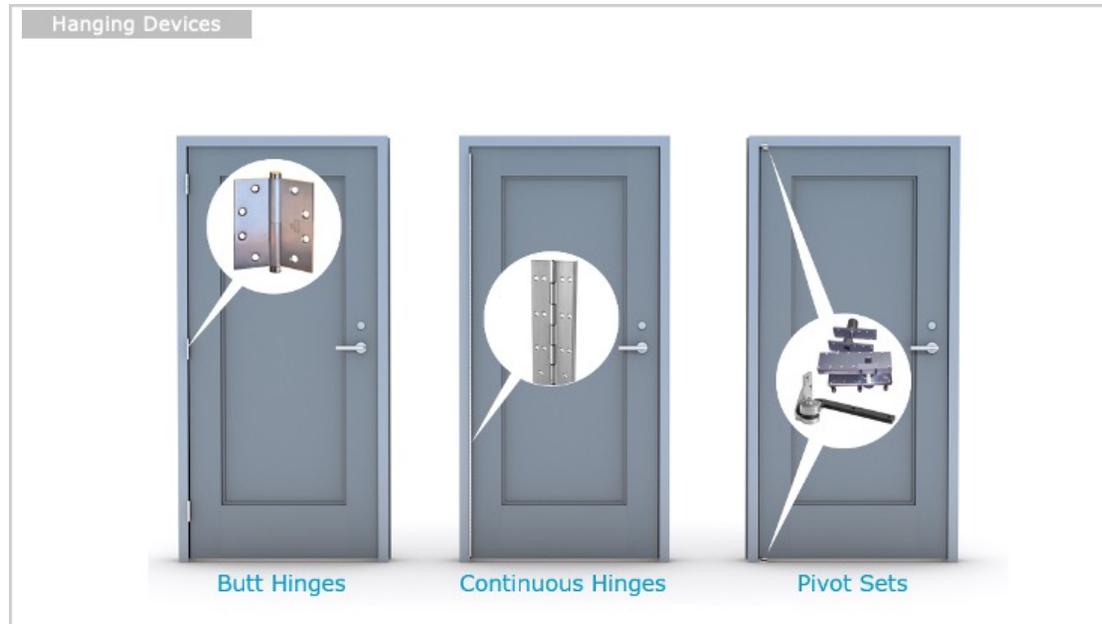
Good practice to follow the Door and Hardware Institute Schedule

- Hanging Devices
- Securing Devices
- Controlling Devices
- Protection
- Trim



The Door and Hardware Institute recommends following this format when specifying hardware:

- Hang the door – hanging devices: standard hinges, continuous hinges, pivots
- Secure the door – securing devices: locks, exit devices, etc.
- Control the door – controlling devices: surface-mounted closers, concealed closers, floor closers
- Protect the door – protection: kick plates, mop plates, edge guards, stops, overhead stops
- Trim the door – trim: thresholds, weather strip, door bottoms and astragals



Butt hinges, continuous hinges, and pivots are all samples of ways to swing a door.

Pivot sets are also popular as a design element, taking the barrels of the hinge off of the edge of the door, and creating the pivot points at the top and bottom of the door. Pivots are available as offset, where the knuckles are seen at the top and bottom face of the door (intermediate pivots should be used to help carry the weight of the door and are required by some manufacturers) and center pivots are available, which disappear when the door is in the closed position. But be careful: The door edges must have a radius to accommodate this type of pivot, which typically allows daylight to show through the edges. Pivots are the best way to hang a door because the weight of the door is borne on the floor instead of the edge and on the frame, always pulling in tension away from the frame, and causing gaps in clearance, which may affect the fire rated door compliance.

## Decorative and Concealed Hinges

2-, 3-, 5-knuckle hinges; standard and heavy weight; electrified



Hang the door – Hanging Devices: standard hinges, continuous hinges, pivots

Some manufacturers make stunning 2-, 3-, and 5-knuckle standard and heavyweight decorative hinges with flat, ball, round, steeple, and other unique tip designs. Hinges with square- and olive-shaped barrels are unique, distinctive, and eye-catching design elements. Some have called them “jewelry for the door.” Most decorative hinges are available in a variety of architectural finishes and can be fire rated and/or electrified.

Fire-rated and electrifiable concealed hinges are available from a number of manufacturers with a variety of weight ratings and in a variety of finishes. Some of these hinges are three-way field adjustable, significantly easing installation.

## Sliding Track Hardware

- Stainless steel hangers
- Hangers equipped with anti-rise pin
- Stainless steel bar stock
- Requires less space than standard swinging door
- Up to a 240-pound door
- Applications
  - Hospital patient room baths
  - Hospitality baths
  - Multifamily residential
  - Commercial office
  - Assisted living



Track sliding hardware is being specified in many different project types, such as patient rooms in health care, restrooms, hotel baths, multifamily housing units, assisted living applications, and commercial office interiors.

There are a variety of sliding hardware systems on the market today. When shopping for surface-mounted (“barn door”) sliding hardware, most important is that you select a hanger that is compatible with the material and weight of your door.

## Sliding Track Hardware

- Industrial and rustic appeal
- Stainless steel hangers
- Solid stainless rollers
- Coordinating door pulls
- Holds up to a 500-pound door
- Available in five architectural finishes
- Applications
  - Schools
  - Hotels
  - Multifamily housing
  - Commercial/mixed-use properties



As noted in the previous slide, there are multiple different options of styles and finishes.

## Locksets, Exit Devices, Locking Pulls, Auxiliary Latching Devices



## Commercial-Grade Locksets

- Mortise locksets
  - Greatest functionality
  - Durable at high-frequency use
- Tubular locksets
  - Privacy
  - Passage
  - Dummy
- Access-control devices
- Panic and exit devices
- Locking pulls
  - Wood doors
  - Glass doors
  - HM/aluminum doors



The appearance of locking hardware has come a long way with greater emphasis on aesthetics. In the past, designers had only a few levers and finishes to choose from. Now the options are exponentially greater.

As you can see in this slide, this lock has the card reader integrated into the lock with a square rose, providing form and function.

## Auxiliary Latching Hardware

- Push/pull trim
  - Trim for mortise and bored locks
  - 40+ functions, including electrified
  - ADA compliant
  - Utilized in health care, behavioral health, assisting living, K-12, retail
- Integrated low-profile trim
  - Accepted by the New York State Office of Mental Health (OMH)
  - 30+ functions, including electrified
  - ADA compliant
  - Utilized in behavioral health, K-12



Today's design demands have also required the door and hardware industry to grow past just the lever and into many different types of auxiliary trims for latching hardware.

## Commercial-Grade Locking Pulls, Square Pulls/Tubular Pulls

- Glass, aluminum, hollow metal or wood doors
- Available in a variety of architectural finishes; can be leather wrapped
- Offered with latching options:
  - Floor
  - Door head
  - Both locations



The locking pull is a great application for all glass doors and sliding-track applications.

## Commercial-Grade Panic Devices

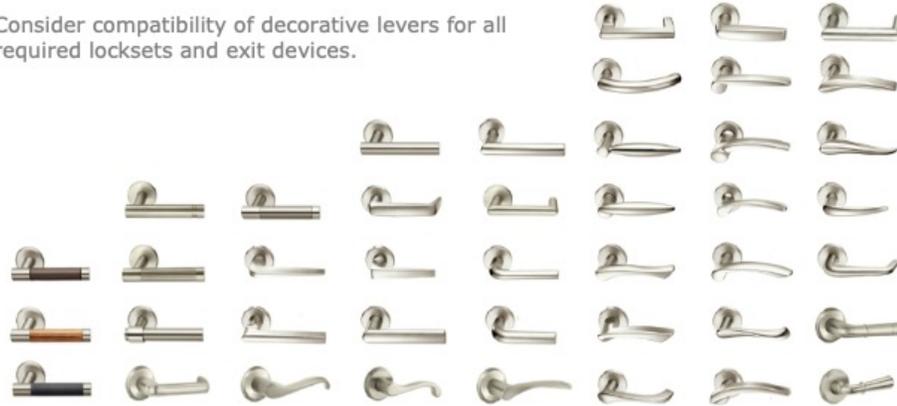
- Glass, aluminum, hollow metal, or wood doors
- Top latching, secure panic device
- Less than 5-pound push force
- Available in a variety of architectural finishes; can be leather wrapped



The glass door panic devices combines the safety an opening would require with the elegance and design that a glass opening needs.

## Commercial-Grade Levers

Consider compatibility of decorative levers for all required locksets and exit devices.



A number of manufacturers offer decorative levers for their locksets and exit devices. Those levers may be cast in brass, bronze, stainless steel, or zinc base metals and are likely available in a number of architectural finishes. It is important to determine the compatibility of those levers with all required locksets and exit devices. Decorative lever trim should be compatible with the mortise, tubular, access-control, and exit-locking devices specified for a project to ensure a consistent aesthetic on every door in a building.

## Roseless Trim

Kordyban Lodge  
Cancer Care Clinic  
Vancouver



“Roseless trim” or lever trim that appears to connect to the door without a rose is a clean, minimal, and distinctive trim solution for a variety of applications. It is available from certain manufacturers in a variety of base metals and architectural finishes.

This is an image of roseless trim installed with an integrated weigand access-control device at the Kordyban Lodge Cancer Care Clinic in Vancouver, British Columbia, Canada.

## Commercial Grade

Consider accessory options:

- Square rosette
- Square thumb turn
- Square cylinder collar



Today's commercial hardware offers many different lever, rose, thumb turns, cylinder collars, and finish options. This slide shows an example of a square suite design: rosette, thumb turn, and cylinder collar.

## Architectural Door Pulls



Not every door requires a locking device. Surface-mounted sliding (barn) doors are routinely specified with door pulls. There are many to choose from. Custom pulls are available in different lengths, leather wrapped, with wood inserts, and many finishes.

## Surface and Concealed Devices

- Floor closers
- Overhead concealed closers
- Surface closers
  - Decorative covers
  - Plated finishes
- Applications
  - All glass openings
  - Executive offices
  - Conference rooms
  - High-profile areas



Controlling devices: surface-mounted closers, concealed closers, floor closers

We can touch on a few aesthetic options for controlling devices.

The floor closer or overhead concealed closer can avoid common problems that surface-mount closers can have on decorative doors or doors that do not have a top rail to place a door closer on.

Decorative closer covers and powder coat or plated finishes on the door closer can tie the design of an opening together.

## Decorative Stops and Accessories



Protection: kick plates, mop plates, edge guards, stops, overhead stops

Protecting the door is very important in sustaining the longevity of the opening. When protecting the door, until recently there were not many options in aesthetics.

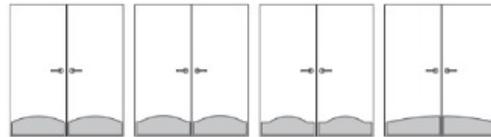
Today, some manufacturers will make custom-design radius plates, which can even incorporate a logo or design of your choice. Make sure you check out all of the manufacturers options to choose the proper design for your projects.

Floor and wall stops and coat hooks are also available in many different decorative options:

- Push plates
- Protection plates
- Kick plates
- Wall stops
- Overhead stop/holders
- Floor stops
- Door hooks

## Protection Plates and Seals

- Protection plates
  - Mop, kick, and armor plates
  - Variety of shapes
  - Broad finish options
- Seals
  - Broad finish options
  - Concealed
  - Integrated into frame



Trim: thresholds, weather strip, door bottoms, astragals

There are also many options for finishes on seals along with concealed hardware to complete each opening.

## Suited Hardware Collections



A beautiful door lever looks great, but it looks even better with aesthetically coordinated hinges, pulls, stops, and hooks. Decorative hardware makes a difference. And you can “suite” or match the aesthetic and the finish for every door opening with decorative hardware from certain manufacturers. These are examples of how hardware can be suited to create uniformity in the look throughout the building.

## Decorative Finish Options

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Many finish options are available.

Typical base metals include: brass, bronze, iron steel, stainless steel, aluminum, zinc

Surface characteristics: natural, applied, bright, satin, and PVD (physical vapor deposition)

## Decorative Finish Options



Use suited hardware to get the same finish on all hardware, or add custom colors to utilize wayfinding design.

Decorative

Example #1  
**Decorative Opening**

- Flush steel door
- Narrow profile 1-inch flat face steel frame
- High recycled steel content
- Mortise lock, roseless trim
- Concealed hinge (UL Listed)



Decorative

Example #2  
**Decorative Opening**

- High-definition embossed steel door
- Decorative profile steel frame
- High recycled steel content
- Mortise Lock with decorative lever and escutcheon
- 3-knuckle square barrel hinges (UL listed)



Decorative

Example #3  
**Decorative Opening**

- Steel door with applied moldings
- Decorative profile steel frame
- High recycled steel content
- Decorative door pull
- 3-knuckle square barrel hinges



Decorative

Example #4  
**Decorative  
Opening**

University of  
California  
San Francisco  
Benioff Children's  
Hospital



Custom or color hardware finished could be utilized.

Decorative

Example #5  
**Decorative  
Opening/  
Finishes**

Children's  
Hospital of  
Philadelphia  
Buerger Center  
for Advanced  
Pediatrics



Custom or color hardware finished could be utilized.

Decorative

Example #6  
**Decorative  
Opening/  
Finishes**

Angie Fowler  
Adolescent and Young  
Adult Cancer Center  
University Hospitals  
Rainbow Babies &  
Children's Hospitals



Custom or color hardware finished could be utilized.

Decorative

Example #7  
**Decorative  
Opening/  
Finishes**

Carrie Busey  
Elementary  
School  
Savoy, Illinois



Custom or color hardware finished could be utilized.

This concludes the AIA  
continuing education  
program.



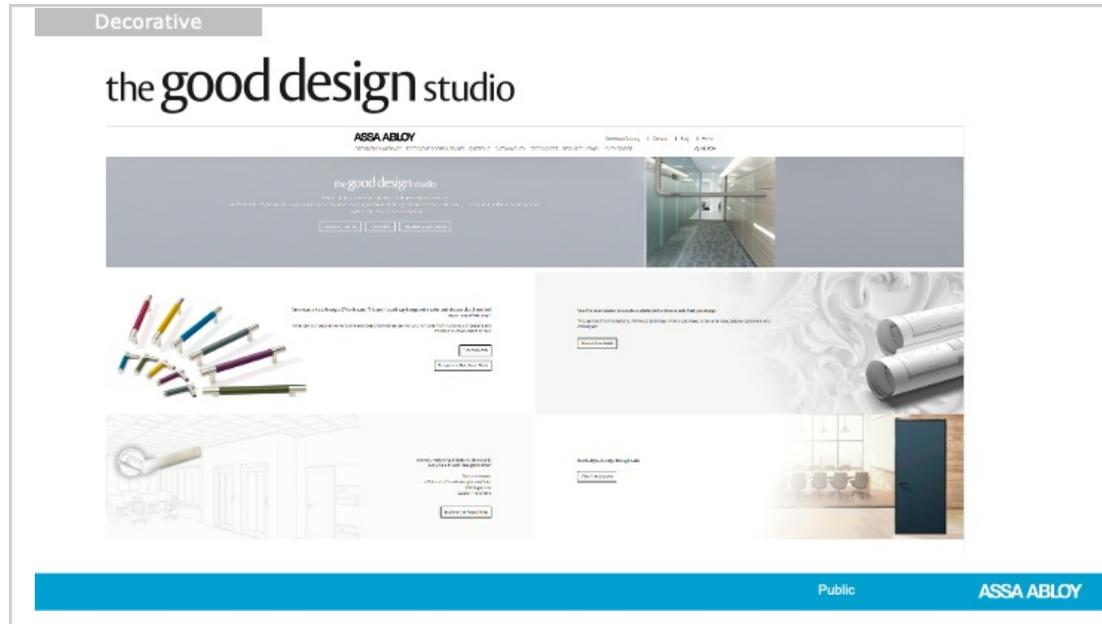
## Explore These Informational Resources

**Decorative Doors and Hardware:** [www.thegooddesignstudio.com](http://www.thegooddesignstudio.com)  
Evidence Based Design for Healthcare: [www.healthdesign.org](http://www.healthdesign.org)

**Codes:**  
National Fire Protection Association: [www.nfpa.org](http://www.nfpa.org)  
International Code Council (ICC): [www.iccsafe.org](http://www.iccsafe.org)

**Institutes:**  
International Interior Design Association: [www.iida.org](http://www.iida.org)  
American Society of Interior Designers: [www.asid.org](http://www.asid.org)  
Construction Specifications Institute: [www.csinet.org](http://www.csinet.org)  
Window & Door Manufacturers Association: [www.wdma.com](http://www.wdma.com)  
Architectural Woodwork Institute: [www.awinet.org](http://www.awinet.org)  
Door and Hardware Institute: [www.dhi.org](http://www.dhi.org)  
United States Green Building Council: [www.usgbc.org](http://www.usgbc.org)

These are great informational resources that relate to the door and hardware industry.



We have talked about a lot today, and you can learn more about all of it, on our good design studio website. This website is a phenomenal information resource. It is loaded with information and images: You will find PDFs of the most current literature for all of our decorative door and hardware products; LEED documentation that you can download; mechanicals for the doors and hardware; links to hardware product selectors.



**Openings Studio™**

A suite of collaborative software tools for the planning, design, construction, and operational life of openings.

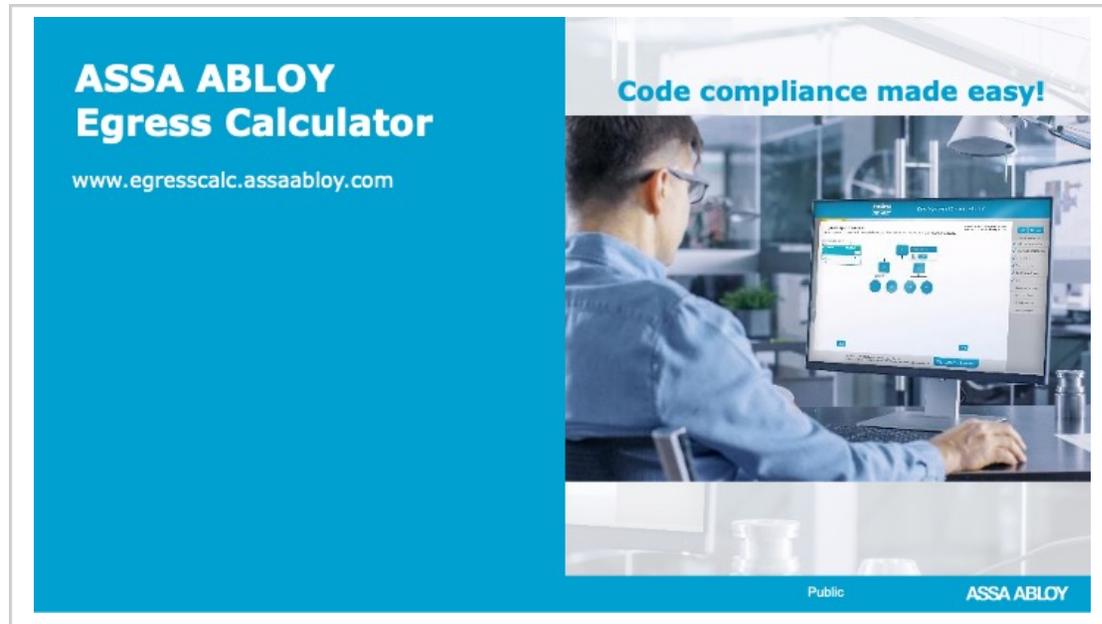
- Coordination with Division 8 and 28 specifications
- Integration with Autodesk Revit and Graphisoft ARCHICAD
- Simplified review, tracking, and information
- Visualization of openings with hardware
- Database of product collateral
- Product list pricing
- Intelligent, parametric door families
- Access control drawings and coordination
- Punch outs, surveys, and inspections
- Mobile app and smart tags

Learn more: [www.openingsstudio.com](http://www.openingsstudio.com)

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Our software integrates with BIM software such as Autodesk Revit and Graphisoft ARCHICAD.

- Seamless data transfer for families and schedules
- 3-D visualizations of openings
- Tracking of opening revisions
- Reduced errors and inaccuracies
- Improved collaboration in building life cycle
- Drawing of access control security elevations
- Punch lists, inspections, and site surveys through the mobile applications
- Mobile app with contractor software integration such as Procore and PlanGrid
- Smart tags for tracking on-site information

The advertisement features a blue background on the left with the text 'ASSA ABLOY Egress Calculator' and the website 'www.egresscalc.assaabloy.com'. On the right, a man in a blue shirt is shown from the side, working at a computer. The monitor displays a software interface with a flowchart and various input fields. Above the man, the text 'Code compliance made easy!' is written in blue. At the bottom right of the image, the words 'Public' and 'ASSA ABLOY' are visible.

**ASSA ABLOY**  
**Egress Calculator**  
www.egresscalc.assaabloy.com

Code compliance made easy!

Public ASSA ABLOY

The new ASSA ABLOY Egress Calculator is a tool that you can use on your desktop, tablet, or smart phone. It will calculate the occupant load, egress width, quantity of exits, swing direction of doors based on the International Building Code. It includes quick reference to the IBC hardware requirements. You can download and save a pdf to your project file for future reference. It is free to use with SSO, Connect, or guest login. Look for the ASSA ABLOY Academy training course “Calculating Occupant Loads and Egress Width” and register for more detailed instructions on how to maximize the use of this handy tool.



The ASSA ABLOY Group is the global leader in access solutions. Every day, we help billions of people experience a more open world.

ASSA ABLOY Opening Solutions leads the development within door openings and products for access solutions in homes, businesses and institutions. Our offering includes doors, frames, door and window hardware, locks, perimeter fencing, access control and service.

We have our own operations in more than 70 countries, and through authorized distribution we cover the world.

Since the Group was founded in 1994, we have grown from a regional company to an international Group with about 48,000 employees and sales close to US 8.3 billion.

# ASSA ABLOY Opening Solutions



Public

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**ASSA ABLOY**  
Opening Solutions

Door Security Solutions Offering

ARCHITECTURAL DOOR ACCESSORIES\*  
Marter | McKinney | Penko | Redwood

ELECTRONIC SECURITY HARDWARE  
HES | Securiton



**SARGENT**

**Ceco Door**

**CONCEPT  
FRAME**

**Yale**

**Corbin  
RUSSWIN**

**CURRIES**

**Fleming  
Door Products**

**ARROW**

**PIONEER**

**RIXSON**

**Norton**

**Adams  
Rite**

**ALARM  
CONTROLS**

**ASSA**

**medeco**

Public

ASSA ABLOY



Demands vary widely between customer segments, but ASSA ABLOY has solutions for all types of doors in a range of environments. We work with architects, authorities and major end customers to create and offer the best security solutions for all kinds of door openings.

Airports, hospitals, offices and private homes have different security needs. Accordingly, the security solution for each door is adapted to the door's location and how it will be used.

**Major customers** include airports, commercial institutions and hospitals, with a large number of people passing through daily.

**Small and midsize customers** are characterized by the customers' need for professional advice and installation. This need is mainly met by specialized distributors and installers, such as locksmiths.

The majority of **consumer** sales are replacements or upgrades of existing security products. The typical private consumer needs extensive advice and help with installation. ASSA ABLOY has developed a range of home security concepts to meet these needs.



**ASSA ABLOYs business is total door opening solutions seamlessly connected to the building**

ASSA ABLOY is the global leader in access solutions; we offer a more complete range of door opening solutions than any other company on the market. In, for example, the rapidly growing electromechanical security sector, the Group has a leading position in fields such as access control, identification technology, door automation and hotel security.

Our market is everywhere in the world where there is a need for secure, safe, and convenient door opening solutions. ASSA ABLOY’s business is built around the total door solution, and almost everything that is connected to the door, attached to the door, or surrounds the door. Our goal is to make door solutions seamlessly connected to the building.

Our focus remains firmly on the door opening. By concentrating on what we do best, we continue to provide the best possible total door opening solutions.

ASSA ABLOYs business is focused on six product areas: mechanical locks and hardware, electromechanical and electronic locks, physical and logical access control, secure identity and issuance, entrance automation, and security doors. Our products and solutions are used in commercial, industrial, institutional, and residential areas.

**ASSA ABLOY**