ASSA ABLOY Group brands Ceco Door and Curries are considered the world’s leading manufacturers of steel doors and frames for commercial, industrial, and institutional construction. With combined manufacturing plants totaling over 1 Million square feet Ceco Door and Curries operate some of the largest production facilities in the industry. Using only the highest quality materials and manufacturing techniques, Ceco Door and Curries produces metal doors and frames to meet the full range of safety, security, and aesthetic requirements. Ceco Door and Curries are also today’s premier providers for specialty door and frame solutions including; acoustical, stainless steel, fiberglass, blast, bullet, lead-lined, RF shielded, water resistant, tornado and hurricane.

Sustainability is a Natural Part of What We Do
Ceco Door and Curries are also committed to implementing sustainable manufacturing processes that provide:

Lower operating costs — many products far exceed ANSI/SDI standards, translating to longer product life and easier maintenance (plus less waste in landfills).

Energy conservation — a clear result of our energy-efficient doors and frames.

Healthier and safer for occupants — comes from our using non-hazardous materials and providing effective life-safety solutions.

Our goal is to make sustainability a central part of our business philosophy and culture, but even more important is the job of integrating sustainability into our business strategy.
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Using the latest revolutionary technology, patented designs, and utilizing lightweight sound absorbing techniques, ASSA ABLOY developed acoustical assemblies to solve the noise problem for any facility.

High Sound Transmission Class (STC) ratings are typically needed to create sound resistant rooms for the government and military, airports, school band rooms, and to isolate performance halls from exterior noise. Relatively lower STC ratings will usually suffice for less-demanding applications, such as solving a noise problem in a hotel or office building. These acoustical solutions cover the low to high STC range allowing them to be the solution for almost any application.
Advantages

- Enhances learning in classrooms
- Promotes healing in healthcare environments
- Provides security and PRIVACY
- All STC values are operable assemblies
- Assemblies have been third-party tested

Applications

- Education
- Healthcare
- Government
- Military
- Hospitality
- Transportation centers
- Commercial offices and conference areas
- Sports arenas

### Acoustical Door Assembles

<table>
<thead>
<tr>
<th></th>
<th>HM</th>
<th>Wood</th>
<th>Laminate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single – Flush</td>
<td>Up to 66</td>
<td>Up to 53</td>
<td>Up to 53</td>
</tr>
<tr>
<td>Single – Glazed</td>
<td>Up to 52</td>
<td>Up to 51</td>
<td>Up to 49</td>
</tr>
<tr>
<td>Borrowed Lite – Glazed</td>
<td>Up to 57</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sliders – Flush</td>
<td>Up to 54</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single – Deco*</td>
<td>Up to 48</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pairs – Flush</td>
<td>Up to 49</td>
<td>Up to 44</td>
<td></td>
</tr>
<tr>
<td>Pairs – Glazed</td>
<td>Up to 47</td>
<td>Up to 44</td>
<td></td>
</tr>
<tr>
<td>Pairs – Deco*</td>
<td>Up to 35</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Stile and Rail or Embossed Panel(s)

Frames

- Some acoustical assemblies can be used with a standard single or double rabbet frame with welded corners.
- Higher acoustical rated assemblies require a custom acoustical frame. Frames need to be backfilled with appropriate sound deadening material.

Hardware

- Locks: Cylindrical, mortise, mortise deadlocks, military
- Hinges: Standard weight 4-1/2", 5", continuous, and cam lift
- Exit Devices: Surface vertical exit devices
- ElectroLynx™ option available for electrified hardware

Testing

Acoustical assemblies are third-party, independently tested under the ASTM E90, ASTM E1332, ASTM E2235, ASTM E413, SDI 128, and HMMA 865 criteria.

Technical Options

Doors

- 3-hour fire rating by Underwriters Laboratories (UL) and ITS
- Wood doors available in several attractive finishes
- Seals, thresholds, and door bottoms (when required) are shipped with the doors along with the attached STC rating label.
Advantages

- Meets stringent performance requirements from governing agency’s
- Available in stainless steel finishes
- Optional sound ratings available
- Bullet resistant ratings available

Applications

- Chemical storage areas
- Courthouses
- Embassies
- Government facilities
- Hospitals, e.g., oxygen storage areas
- Laboratories, research areas
- Military facilities
- Pharmaceutical companies
- Police and fire stations

Technical Options

Blast Assemblies

- Singles – 43 psi
- Pairs – 19.6 psi
- Visions – 34 psi
- Borrowed lites – 8 psi
- Transoms/sidelights – 34 psi

Seated and unseated assemblies are available for requirements beyond limits listed above. For more, contact the factory for available options, and blast test standards criteria.

Testing

Third-Party tested (or calculated) to the following criteria:

- Categories I, II and III
- ASTM 1642 & ASTM 2927
- UFC 4-010-01 9 Feb 2012
- GSA TS-01 Level C & D
Blast resistant opening solutions were developed to meet U.S. government, military, and embassy safety and security objectives for blast resistance. Providing extra protection against explosions and excessive force, our blast resistant openings meet or exceed the stringent manufacturing and performance requirements of the Department of Defense, Department of State, Department of Homeland Security, and other regulatory groups.

Blast resistant doors and frames have a number of options including glazed doors, borrowed lites, transoms, and pairs with increased requirements to meet UL government, military, and embassy safety and security objectives for blast resistance.
Bullet-resistant door and frame assemblies, supplied with the appropriate listed hardware, will meet most job requirements for security and protection. The bullet-resistant assemblies offer eight levels of bullet-resistant protection. This cost-efficient, readily available solution protects against assault and vandalism at vulnerable door openings such as isolated utility buildings, cashier islands, currency exchanges, or box offices.
UL 752 Bullet Protection Ratings

<table>
<thead>
<tr>
<th>Level</th>
<th>Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>9 mm (3 shots)</td>
</tr>
<tr>
<td>2</td>
<td>.357 Magnum (3 shots)</td>
</tr>
<tr>
<td>3</td>
<td>.44 Magnum (3 shots)</td>
</tr>
<tr>
<td>4</td>
<td>.30 Caliber Rifle (1 Shot)</td>
</tr>
<tr>
<td>5</td>
<td>7.62 mm Rifle (1 shot)</td>
</tr>
<tr>
<td>6</td>
<td>9 mm (5 shots)</td>
</tr>
<tr>
<td>7</td>
<td>5.56 mm Rifle (5 shots)</td>
</tr>
<tr>
<td>8</td>
<td>7.62 mm Rifle (5 shots)</td>
</tr>
</tbody>
</table>

Advantages

- Cost efficient openings
- Hollow metal, PLAM veneered hollow metal, and solid wood doors available to match any design requirement
- Bullet-resistant glazing available

Applications

- Public utility field buildings
- Cashier stands
- Remote electrical panels
- Guard shacks
- Government facilities
- Police and fire stations

Technical Options

- Made with a proprietary ballistic armor shield core
- Certified and third-party tested in accordance with UL752 standards
- Bullet-protection ratings for UL752 levels 1-8 (levels 1-3 handguns, levels 4-8 rifles)
- Available with welded seamless door edge; continuously welded frames
- Standard gauge; A60 galvannealed steel (stainless available) frames

Testing

Bullet resistant doors and frames are fabricated with the finest UL listed armor panels that meet or the UL 752 Standard for bullet resistant materials.

All doors and frames are designed to provide the best practical protection for threat levels 1 through 8.
**Advantages**

- Modern materials and durable construction reduce lifecycle cost
- Durable finish reduces maintenance costs and cleans easily

**Applications**

- K-12 Schools
- College/University
- Public buildings
- Sports complexes
- Hospitals
- Locker rooms
- Shower areas
- Kitchens

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**Technical Options**

**Doors**

- Fiberglass Reinforced Polyester (FRP) skins .120” thick
- Available with class “C” (exterior) or class “A” (interior) skins
- 6063-T6 aluminum alloy perimeter extrusions in black, dark bronze and clear
- Water-blown polyurethane core, foam in place
- 4’0” x 8’0’’ singles and 8’0” x 8’0” pairs
- Fire-rated and hurricane-resistant door options

**Pebble (textured) Embossed Faces**

- Black
- Light Gray
- Brick Red
- Colonial Blue
- Dark Bronze
- Dark Gray
- Forest Green
- Tan
- White

**Fieldstone (textured) Embossed Faces**

- Light Gray
- Tan
- Red
- White
- Dark Bronze

**Frame**

- 6063-T6 hardened aluminum alloy
- Jamb depths of 4-1/2”, 5”, and 6”
- Available in dark bronze, black and clear anodized
- Maximum size 8’0” x 8’0”
- Hurricane-resistant option

**Hardware**

- Hinges: 4-1/2’ butt, continuous, and offset pivots
- Locks: Cylindrical, mortise, deadbolt, flush pull, rim exit, and surface vertical rod, with or without Electrolynx®
- Factory-installed flush pull and automatic door bottom option
- Aluminum windows kits available up to 1,296 square inches for 1/4”, 1/2”, and 1” thick glass
- Factory-installed aluminum louvers available in 12” x 12” and 24” x 24” sizes in clear finish
- Flush top cap standard, with bottom-cap sweeps available

**Testing**

- Singles and pairs fire rated up to 90 minutes WH UL 10C
- Hurricane resistant up to +/- 70 PSF singles ASTM E330/E 1886/E 1996/TAS 201/TAS 202/TAS 203
- Sound rated up to STC 27 ASTM E90
- Exceptional thermal performance U-0.26 sealed in place, U-0.35 operable ASTM C1363
The FRP Door System, a FRP door and aluminum frame is perfect for exterior openings such as restaurants and schools in high-use areas, as well as anywhere a strong, lightweight opening is required to withstand abuse. Available with hurricane and fire ratings.
Hurricane resistant products have been tested to the requirements for hurricane-prone and wind-borne debris regions as defined in the International Building Code (IBC) listed by Florida Building Commission, Dade County, and third-party agencies. Assemblies are tested for design pressures, impact resistance, glass and glazing materials, and specific commercial hardware applications. Listed assemblies are available to meet the most stringent design pressure requirements for coastal high rise buildings as well as less severe inland applications. Code officials have standardized this data for construction in regions of the country susceptible to violent wind storms in attempts to safeguard the public health, safety, and general welfare through requirements for buildings and other structures sited in these hurricane-prone areas.
Advantages

• 3rd party certified openings
• UL and ITS/WH fire rated
• Texas Department of Insurance (TDI) certified openings available
• Glazed openings available
• Water infiltration protection

Applications

• For use with any building in Florida or other coastal areas requiring hurricane wind protection
• Hurricane shelters

Technical Options

Doors

• Design Pressure: +/- 50 psf to +/- 150 psf
• Water Infiltration: +/- 50 psf to +/- 60 psf
• 2’8” x 6’8” to 8’0” x 8’0” available
• Polystyrene, polyurethane, honeycomb, temperature rise, steel stiffened cores
• Glazing options available

Frames

• Single and paired openings
• Sidelite options up to 12’10” x 8’0”
• Transom options up to 6’0” x 10’0”

Hardware Options

• Multiple hardware configurations including brands, CORBIN RUSSWIN, RIXSON, SARGENT, YALE and more.

Testing

Hurricane Resistant products have been third-party tested by UL and ITS/WH certified to the following test standards:

• ANSI A250.13
• ASTM E330/E1886/E1996
• PA201, PA202, PA203
• TAS201, TAS202, TAS203
**Advantages**

- Wood doors available to match most design requirements
- Sound ratings available
- RF Shielding options available
- Stainless steel options available

**Applications**

- Microwave transmission rooms
- Airports
- Defense, military, and security environments
- X-ray and imaging rooms
- Medical schools
- Nuclear power plants

**Technical Options**

- Lead sheets, available in 1/32" to 1/4" thickness, integrated into door and frame for strength and vandal resistance (lead thicknesses beyond 1/4" available upon request)
- Vertically steel stiffened doors for added strength and durability
- Standard 1-3/4" thick doors accommodate standard hardware
- Continuously welded, seamless door edge and lead lined frame
- Standard 16-gauge steel; 14-18 gauge available
Achieve effective radiation protection with a full line of high-quality, lead-lined doors and frames. These openings accomplish the important task of reliably containing radiation in sensitive areas.
Radio-frequency shielding in a healthcare, commercial, or government application is critical in controlled environment testing. As the testing is in a contained environment, the RF-shielded enclosure allows for accuracy in equipment function, procedures, and results. The RF-shielded enclosure prevents outside interference, thus allowing for accurate test data. RF-shielding solutions help ensure sensitive and confidential information is contained.

RF openings have been third-party tested in accordance with NSA-94-106, providing greater than 40 decibels (dB) shielding attenuation for electric fields over the 10 kilohertz (kHz) to 10 gigahertz (GHz) frequency range. Conductive perimeter seals, Pemko threshold, and caulk are included with each assembly.
Advantages

- Sound rating up to STC 50
- Bullet rating available to level 8
- Blast openings available
- Lead Lined openings available

Applications

- Healthcare facilities
- Business offices
- Test labs
- Emergency call centers
- Sensitive electronic installations
- Computer data processing security centers
- Military secure facilities
- Financial centers
- RFID scanning areas

Technical Options

Assembly includes:
Door, frame, conductive perimeter seals, copper primer, threshold and conductive caulk
- 2'6" x 6'8" up to 4'0" x 8'0"
- Flush only
- Single swing
- Standard frame anchors
Advantages
- Provides easy maintenance and long-term strength and durability
- Water tight/sanitary design
- Continuously seamless welded door edge (key for corrosive environments) and seamless top and bottom option

Applications
- High style architectural environments
- Commercial or institutional projects
- Health care facilities
- Exterior in coastal areas
- Pharmaceutical plants
- Research laboratories
- Food processing
- Water treatment
- Chemical plants

Technical Options

Doors
- Available with 18-gauge through 14-gauge face skins
- Standard polystyrene Core with visible lock seam edge
- Optional steel stiffened and Honeycomb cores with seamless edge

Frames
- Available in 16-gauge through 12-gauge
- Welded corner conditions
- Standard and custom frame profiles available
- Custom frame elevations (side-lights, borrowed lites, transom units)

Alloy
- No. 304, the most commonly used stainless alloy
- No. 316, for installation in extremely corrosive environments

Finishes
- No. 4 (Brushed Satin)
- No. 6 (Fine Satin)
- No. 8 (Mirror)
- No. 2B (Mill)
- XLB (XL Blend)
Stainless steel doors give architects and designers a sleek aesthetic option to satisfy today’s style preferences. Not only used for its beauty, stainless steel is ideal for clean room environments and areas susceptible to moisture. Stainless steel doors also provide significant safety and security. The complete, high-quality stainless steel door and frame system is ideal for commercial, institutional, and high design environments.
Strong gusts of winds up to 70 miles per hour are not uncommon anywhere in the world, but sustained winds of that magnitude, or winds of higher speed, are generally associated with tornados.

Damage can be caused by flying debris — often referred to as windborne missiles. If wind speeds are high enough, missiles can impact a building with enough force to penetrate windows, walls, or the roof. An object such as a 2” x 4” wood stud weighing 15 pounds, when carried by a 250-mph wind, can have a horizontal speed of 100 mph and impact with enough force to penetrate most common building materials used today.

StormPro tornado resistant products were developed to resist missile penetration for use in buildings designed as shelters to protect occupants from injury.
Advantages

• 3rd Party certified openings
• UL fire rated
• Multiple hardware applications available
• Glazed openings available

Applications

• Community Shelters
• Storm Shelters
• Disaster and Tornado Shelters
• School Shelters
• School “Safe” Rooms
• Residential “Safe” Rooms

Technical Options

StormPro 361

The International Code Council (ICC) 500 standard defines the construction requirements for safe rooms in order to provide inhabitants protection from tornadoes, hurricanes, and straight line winds.

• Storm Pro 361 assemblies have been successfully tested in accordance with ICC 500, and met all performance criteria as set forth by the standard.
• Opening sizes are available up to 4’0” x 8’0” single doors and 8’0” x 8’0” pairs.
• StormPro frames are available 14-gauge A60 galvanneal steel, unequal rabbet, and 2” or 4” face heads.

• Preparation for approved multi-point locks and exit devices by SARGENT or CORBIN RUSSWIN for Storm Pro 361 products are included as specified.

StormPro 320

• Storm Pro 320 assemblies have been successfully tested in accordance with ICC 500, and have met performance criteria as set forth by the standard.
• Doors are available with flush face or 10” x 10” glazed window up to 3’0” x 7’0” with 14-gauge steel.
• The assembly requires 1-1/2 pair of 4-1/2 x 4-1/2 heavy weight stainless steel MCKINNEY hinges, one SARGENT 10 line lock with 808 stainless strike, and three MEDECO MAXUM deadbolts (commercial). The assembly is certified by UL.

StormPro Tornado Shutter

• The StormPro Shutter is designed for safe rooms that require natural lighting from windows during normal, non-threatening conditions.
• StormPro Window Shutter Systems include a 4-sided StormPro frame unit with StormPro door and hardware.
• The units are installed inside the room in front of conventional exterior windows.
• When a severe weather threat occurs, the StormPro Window Shutter is closed creating a safe shelter environment.

Testing

• StormPro Assemblies Meet UL Certification for Fire, ICC 500 and FEMA Guidelines.
Advantages

• Pest resistant
• Easy wipe-down and cleaning
• Maximum corrosion resistance
• Long-term strength and durability
• Penetration resistant
• Superior adhesion of finish coat

Applications

• Chemical storage areas
• Clean room environments
• Food processing plants
• Hospitals
• Laboratories
• Marine areas, piers, berths
• Swimming pool areas
• Wastewater treatment plants

Technical Options

• Sealed door core
• Welded seamless door edge
• Custom sanitary door vision lights available
• 14-gauge or 16-gauge door face sheets and frames
• Continuously welded frames
• 14-gauge or 16-gauge frames available
• Factory prime paint
• Stainless steel available
For specialized applications, a custom sanitary and watertight or water-resistant solution can meet job-specific requirements. Doors are tested and designed so that either a heavy wash-down or pressure washing can be performed without compromising the interior construction of the door. Hardware reinforcements in doors and frames are provided in a sealed condition, allowing for cleaning fluids to drain.
ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience.