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CHOOSING THE CORRECT DOOR

Door selection is based on FREQUENCY OF USE and IMPACT PROBABILITY. High traffic areas and openings subject to abuse require doors of heavy-duty construction. Openings in the category of MODERATE to LOW frequency and impact do not generally require heavy-duty doors.

FREQUENCY OF USE is classified as HIGH, MODERATE or LOW depending of the location in the building and the number of times per day the door will be used. Most building entrances are HIGH frequency openings, as are toilet rooms in schools and office buildings. MODERATE frequency doors are those found in apartment entrance units and school classrooms. Doors that normally remain in the open or closed position are considered LOW frequency. On a normal project, the majority of doors are of MODERATE to LOW frequency use, and doors designed for these applications should be used. Using doors of heavy-duty construction in all openings results in unnecessary cost; however, selecting doors based primarily on their low initial cost may result in abnormal maintenance and replacements.

IMPACT PROBABILITY is also classified as HIGH, MODERATE or LOW. Doors subject to high impact are usually the same doors that receive high frequency use. However, some doors, such as rear delivery entrances and service doors, may be subject to HIGH impact even though they are of MODERATE to LOW frequency. MODERATE impact openings are found in nursing homes, hospital patient rooms or school classrooms. LOW impact doors are those in closets, private offices, hotel communicating doors and other such openings.

DOOR LEVEL refers to ANSI/SDI A250.8 recommendation criteria.

MODEL	TYPE	GAGE	DEC	MM
LEVEL 1 - LIGHT COMMERCIAL				
1	Flush	20	0.032	0.8
2	Seamless	20	0.032	0.8
LEVEL 2 - HEAVY-DUTY COMMERCIAL				
1	Flush	18	0.042	1.0
2	Seamless	18	0.042	1.0
LEVEL 3 - EXTRA HEAVY-DUTY COMMERCIAL				
1	Flush	16	0.053	1.3
2	Seamless	16	0.053	1.3
3	Stile & Rail	16	0.053	1.3
LEVEL 4 - MAXIMUM DUTY COMMERCIAL				
1	Flush	14	0.067	1.7
2	Seamless	14	0.067	1.7
2	Seamless	12	0.093	2.3
COMMERCIAL SECURITY PRODUCTS				
2	Seamless	14	0.067	1.7
2	Seamless	12	0.093	2.3

Product Selection Guide

BUILDING TYPE AND OPENING LOCATION	FREQUENCY OF USE	IMPACT PROBABILITY	DOOR LEVEL				DOOR THICKNESS	SPECIAL CONDITIONS
			1	2	3	4		
OFFICES - PROFESSIONAL BUILDINGS								
Entrance	High	High			■	■	1-3/4"	Two-way vision
Individual Office	Low	Low	■				1-3/4"	Privacy & acoustics
Toilet Rooms	High	High		■			1-3/4"	
Stairwells	Moderate	Moderate		■	■		1-3/4"	Two-way vision & fire label
Equipment Rooms	Moderate	Moderate		■	■	■	1-3/4"	
Boiler Room	Moderate	Moderate		■	■	■	1-3/4"	Fire label
Storm Shelters	Low	Low				■	1-3/4"	Impace threat (Tornados)
SCHOOLS - UNIVERSITIES - LIBRARIES								
Entrance and Exits	High	High			■	■	1-3/4"	Two-way vision
Classrooms	Moderate	Moderate		■			1-3/4"	Two-way vision & acoustics
Toilet Rooms	High	High		■	■	■	1-3/4"	
Gymnasiums	Moderate	High		■	■	■	1-3/4"	Impact & two-way vision
Cafeteria	Moderate	Moderate to High		■	■	■	1-3/4"	Two-way vision
Stairwells	High	High		■	■	■	1-3/4"	Two-way vision & fire label
Storm Shelters	Low	High				■	1-3/4"	Impact threat (Tornados)
Safe Rooms	Low	High				■	1-3/4" / 2"	Aggression
HOSPITALS - NURSING HOMES - CONVALESCENT HOMES								
Entrance	High	High			■	■	1-3/4"	Two-way vision
Patient Rooms	Moderate	Moderate		■			1-3/4"	Privacy & acoustics
Stairwells	Moderate	Moderate		■	■		1-3/4"	Two-way vision & fire label
Operating Rooms	High	High		■	■		1-3/4"	Sanitation
Examination Rooms	High	High			■		1-3/4"	Sanitation
Recreation Rooms	Moderate	Moderate		■		■	1-3/4"	Acousitcs
Kitchen	Moderate	Moderate		■	■		1-3/4"	Two-way vision
Cafeteria	High	High			■	■	1-3/4"	Two-way vision
Storm Shelters	Low	Low				■	1-3/4"	Impact threat (Tornados)
APARTMENTS - DORMITORIES - CONDOMINIUMS								
Building Entrance	High	High			■	■	1-3/4"	Two-way vision
Room Entrance	Moderate	Moderate	■	■			1-3/4"	Privacy & acoustics
Bedrooms	Low	Low	■				1-3/4"	
Bathrooms	Low	Low	■				1-3/4"	
Closets	Low	Low	■				1-3/4"	
Stairwells	Moderate	High		■			1-3/4"	Two way vision & fire label
Storm Shelters	Low	High				■	1-3/4"	Impact threat (Tornados)
HOTELS - MOTELS - TOURIST CABINS								
Building Entrance	High	Moderate	■	■			1-3/4"	Two-way vision
Room Entrance	Moderate	Moderate	■				1-3/4"	Privacy, acoustics, insulation
Bathrooms	Low	Low	■				1-3/4"	
Closets	Low	Moderate	■				1-3/4"	
Stairwells	Moderate	High		■			1-3/4"	Two-way vision & fire label
Storage & Utility	Moderate	High		■	■		1-3/4"	
Offices	Low	Low	■				1-3/4"	Privacy
COMMUNITY SHELTERS - TORNADO SHELTERS								
Entrance & Exits	High	High			■	■	1-3/4"	Impact threat (Tornados)
Toilet Rooms	High	High		■	■	■	1-3/4"	
Storage & Utility	Moderate	High		■	■		1-3/4"	

GUIDE Product Selection Guide

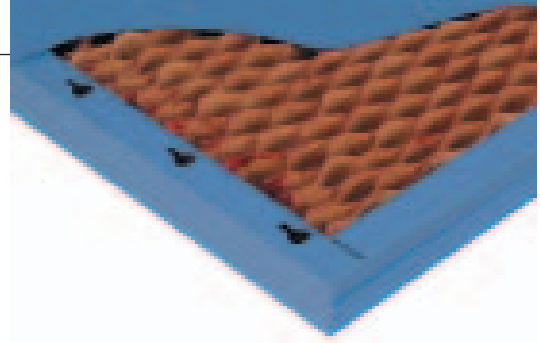


RECOMMENDED CECO DOOR								
Regent®	Legion	Imperial®	Medallion®	ThruLite®	Fuego®	StormPro®	RestrictDor®	Stainless
■	■	■	■	■				
■		■						
■			■					
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Honeycomb Core

Features

- 1-3/4" (44.4mm) general purpose full flush design, rated for light to extra heavy-duty use
- Kraft Honeycomb core provides structural strength and exceptional flatness
- Full-coat internal contact adhesive for permanent pressure bond and rust prevention
- Mechanically interlocked, hemmed vertical edge seams for added strength and rigidity
- Inverted end channels welded to both face sheets
- 7 gage (4.2mm) steel hinge reinforcement
- Electrostatically applied prime base coat



Available Options

- 14 gage (1.7mm) closer reinforcement
- A60 Galvannealed, G90 Galvanized, or textured pattern steel
- Steel or plastic end channel filler cap
- Seamless Design by application of epoxy filler or continuous welding
- Beveled or flush-welded glass trim kits
- Embossed panel designs
- Factory installed, insulated glazing
- Colorstyle factory finish (see page 37)
- Electrolynx™ pre-wired quick connect cable (see page 29)

Regent®

- Handed as specified
- Lock edge beveled 1/8" in 2" (1:16)
- For cylindrical or mortise locks and other standard template hardware
- For 4-1/2" (114.3mm) or 5" (127mm) standard or heavy weight, full mortise hinges

Omega®

- Non-handed
- Square lock edge
- For cylindrical or mortise locks and other standard template hardware
- For 4-1/2" (114.3mm) standard or heavy weight, full mortise hinges



DOOR LEVEL AVAILABILITY

MODEL	TYPE	GAGE	DEC	MM
LEVEL 1 LIGHT COMMERCIAL				
1	Flush	20	0.032	0.8
2	Seamless	20	0.032	0.8
LEVEL 2 HEAVY-DUTY COMMERCIAL				
1	Flush	18	0.042	1.0
2	Seamless	18	0.042	1.0
LEVEL 3 EXTRA HEAVY-DUTY COMMERCIAL				
1	Flush	16	0.053	1.3
2	Seamless	16	0.053	1.3

Performance

- Core Material: Honeycomb
- Thermal Characteristics: U Factor 0.41 R Factor 2.44
- Sound Transmission: STC 32 (18 gage operable)
- Physical Endurance (Cycle Testing)

20 gage	Level C	250,000 cycles
18 gage	Level B	1,000,000 cycles
16 gage	Level A	1,000,000 cycles

- Fire Label (Rating): see page 43 for additional information on fire doors

T	20 minute
C	3/4 hour
B	1-1/2 hour
A	3 hour

- Designs Available: see page 42 for designs
- Maximum Size

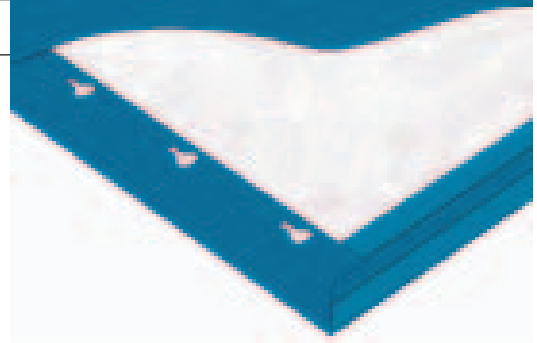
Single	40 x 90 (1219mm x 2743mm)
Pair	80 x 90 (2438mm x 2743mm)

POLYSTYRENE Legion®/UltraDor

Polystyrene Core

Features

- 1-3/4" (44.4 mm) insulated full flush design - rated for light to extra-heavy-duty use
- Polystyrene core provides insulation characteristics and resistance to impact
- Core is chemically bonded to face sheets providing total surface support
- Mechanically interlocked, hemmed vertical edge seams for added strength and rigidity
- 7 gage (4.2 mm) steel hinge reinforcement
- Inverted end channels welded to both face sheets
- Electrostatically applied prime base coat



Available Options

- 14 gage (1.7mm) closer reinforcement
- A60 Galvannealed, G90 Galvanized or textured pattern steel
- Steel or plastic end channel filler cap
- Seamless design by application of epoxy filler or continuous welding
- Beveled or flush-welded glass trim kits
- Factory installed, insulated glazing
- Colorstyle factory finish (see page 37)
- Electrolynx™ pre-wired quick connect cable (see page 29)

Legion

- Handed as specified
- Lock edge beveled 1/8" in 2" (1:16)
- For cylindrical or mortise locks and other standard template hardware
- For 4-1/2" (114.3 mm) or 5" (127 mm) standard or heavy weight, full mortise hinges

UltraDor

- Non-handed
- Square lock edge
- For cylindrical or mortise locks and other standard template hardware
- For 4-1/2" (114.3 mm) standard or heavy weight, full mortise hinges



Polystyrene Core

DOOR LEVEL AVAILABILITY

MODEL	TYPE	GAGE	DEC	MM
LEVEL 1 LIGHT COMMERCIAL				
1	Flush	20	0.032	0.8
2	Seamless	20	0.032	0.8
LEVEL 2 HEAVY-DUTY COMMERCIAL				
1	Flush	18	0.042	1.0
2	Seamless	18	0.042	1.0
LEVEL 3 EXTRA HEAVY-DUTY COMMERCIAL				
1	Flush	16	0.053	1.3

Performance

- Core Material: Polystyrene
- Thermal Characteristics: U Factor 0.31 R Factor 3.23
- Sound Transmission: STC 23 (18 gage operable)
- Physical Endurance (Cycle Testing)

20 gage	Level C	250,000 cycles
18 gage	Level B	500,000 cycles
16 gage	Level A	1,000,000 cycles

- Fire Label (Rating): see page 43 for additional information on fire doors

T	20 minute
C	3/4 hour
B	1-1/2 hour
A	3 hour

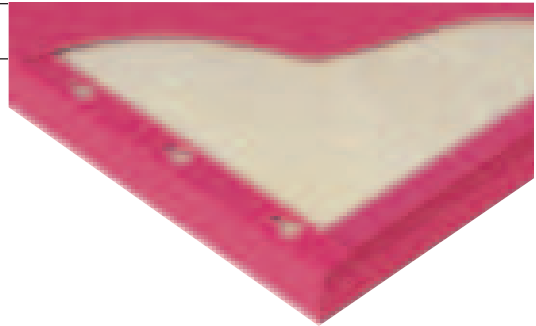
- Designs Available: see page 42 for designs
- Maximum Size

Single	40 x 90 (1219mm x 2743mm)
Pair	80 x 90 (2438mm x 2743mm)

Polyurethane Core

Features

- 1-3/4" (44.4 mm) insulated full flush design - rated for light to maximum-duty use
- Foamed-in-place polyurethane core provides total surface support, impact resistance and exceptional thermal resistance
- Mechanically interlocked, hemmed vertical edge seams for added strength and rigidity
- Inverted end channels welded to both face sheets
- 7 gage (4.2 mm) steel hinge reinforcement
- Electrostatically applied prime base coat



Available Options

- 14 gage (1.7mm) closer reinforcement
- Seamless design by application of epoxy filler or continuous welding
- A60 Galvannealed, G90 Galvanized or textured pattern steel
- Steel or plastic end channel filler cap
- Beveled glass trim kits
- Embossed panel design
- Factory installed, insulated glazing
- Colorstyle factory finish (see page 37)
- Electrolynx™ pre-wired quick connect cable (see page 29)

Imperial®

- Handed as specified
- Lock edge beveled 1/8" in 2" (1:16)
- For cylindrical or mortise locks and other standard template hardware
- For 4-1/2" (114.3 mm) or 5" (127 mm) standard or heavy weight, full mortise hinges

VersaDoor®

- Non-handed
- Square lock edge
- For cylindrical or mortise locks and other standard template hardware
- For 4-1/2" (114.3 mm) standard or heavy-weight, full mortise hinges



Polyurethane Core

DOOR LEVEL AVAILABILITY				
MODEL	TYPE	GAGE	DEC	MM
LEVEL 1 LIGHT COMMERCIAL				
1	Flush	20	0.032	0.8
2	Seamless	20	0.032	0.8
LEVEL 2 HEAVY-DUTY COMMERCIAL				
1	Flush	18	0.042	1.0
2	Seamless	18	0.042	1.0
LEVEL 3 EXTRA HEAVY-DUTY COMMERCIAL				
1	Flush	16	0.053	1.3
2	Seamless	16	0.053	1.3
LEVEL 3 EXTRA HEAVY-DUTY COMMERCIAL				
2	Seamless	14	0.067	1.7

Performance

- Core Material: Foamed-in-Place Polyurethane
- Thermal Characteristics: U Factor 0.067, R Factor 14.97 (core)
- Sound Transmission: STC 26 (18 gage operable)
- Physical Endurance (Cycle Testing)

20 gage	Level C	250,000 cycles
18 gage	Level B	1,000,000 cycles
16 gage	Level A	1,000,000 cycles
14 gage	Level A	1,000,000 cycles

- Fire Label (Rating): see page 43 for additional information on fire doors
Note: Imperial and Versadoor are labeled in compliance with UL10C, Positive Pressure Fire Tests of Door Assemblies

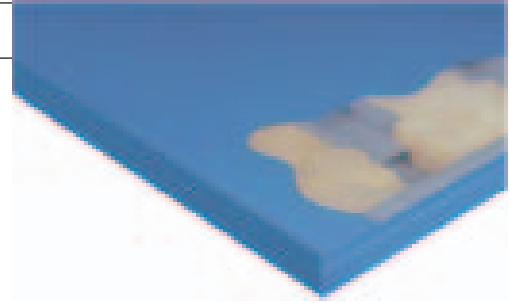
T	20 minute
C	3/4 hour
B	1-1/2 hour
A	3 hour

- Designs Available: see page 42 for designs
- Maximum Size

Single	40 x 90 (1219mm x 2743mm)
Pair	80 x 90 (2438mm x 2743mm)

Features

- 1-3/4" (44.4 mm) custom construction seamless design - rated for heavy-duty to maximum-duty use
- Designed for high frequency, severe traffic openings
- 22 gage vertical steel stiffeners spaced 6" apart, welded to face sheets every 5"
- Fully welded edge seams enhance strength and appearance
- Fiberglass insulation to limit thermal and sound transmission
- Lock and hinge edge beveled 1/8" in 2" (1:16)
- Inverted end channels welded to both face sheets
- 7 gage (4.2 mm) steel hinge reinforcement
- Neutral prime base coat



Available Options

- 20 gage (.08mm) or 18 gage (1.0mm) vertical steel stiffeners
- 14 gage (1.7mm) or 12 gage (2.3mm) closer reinforcement
- A60 Galvannealed or G90 Galvanized steel
- Steel end channel filler cap
- Flush welded glass lite trim kits
- Colorstyle factory finish (see page 37)
- Electrolynx™ prewired quick connect cable (see page 29)

Performance

- Core material: Steel Stiffeners/Fiberglass batt insulation
- Thermal Characteristics: U Factor 0.69, R Factor 1.44
- Sound Transmission: STC 38 (18 gage operable)
- Physical Endurance (Cycle Testing)

18 gage	Level B	500,000 cycles
16 gage	Level A	4,000,000 cycles
14 gage	Level A	1,000,000 cycles

- Fire Label (Rating) (See page 46 for additional information on fire doors)

T	20 minute
C	3/4 hour
B	1-1/2 hour
A	3 hour

- Designs available: see page 42 for designs
- Maximum size*

Single	50 x 100 (1524mm x 3084mm)
Pair	100 x 100 (3084mm x 3084mm)

***Doors over 5'0" in width and 10'0" in height are available. Consult your Ceco representative for pricing and availability.**

DOOR LEVEL AVAILABILITY				
MODEL	TYPE	GAGE	DEC	MM
LEVEL 2 HEAVY-DUTY COMMERCIAL				
2	Seamless	18	0.042	1.0
LEVEL 3 EXTRA HEAVY-DUTY COMMERCIAL				
2	Seamless	16	0.053	1.3
LEVEL 3 EXTRA HEAVY-DUTY COMMERCIAL				
2	Seamless	14	0.067	1.7
2	Seamless	12	0.093	2.3

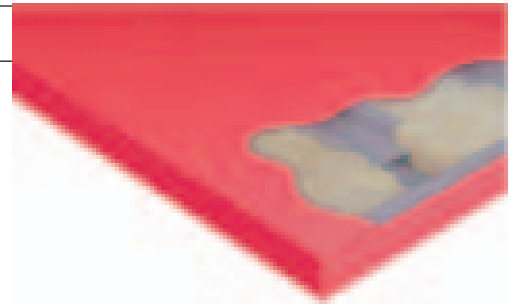
Medallion® 450°



Temperature Rise-Rated Fire Door

Features

- 1-3/4" (44.4mm) custom construction seamless design - rated for heavy-duty to maximum-duty use
- Designed for high frequency, severe traffic openings
- 22 gage vertical steel stiffeners spaced 6" apart, welded to face sheets every 5"
- Fully welded edge seams enhance strength and appearance
- Inorganic thermal barrier between stiffeners
- Rock wool insulation to limit thermal and sound transmission
- Inverted end channels welded to both face sheets
- 7 gage (4.2mm) steel hinge reinforcement
- Neutral prime base coat



Available Options

- 20 gage (.08mm) or 18 gage (1.0mm) vertical steel stiffeners
- 14 gage (1.7mm) or 12 gage (2.3mm) closer reinforcement
- A60 Galvannealed or G90 Galvanized steel Electrolynx™ pre-wired quick connect cable (see page 29)
- Steel end channel filler cap
- Flush welded glass lite trim kits
- Colorstyle factory finish (see page 37)

Performance

- Core Material: Steel Stiffeners/Rock Wool
- Thermal Characteristics: U Factor 0.69, R Factor 1.44
- Sound Transmission: STC 41 (18 gage operable)
- Physical Endurance (Cycle Testing)

18 gage	Level B	500,000 cycles
16 gage	Level A	1,000,000 cycles

- Fire Label (Rating): see page 43 for additional information on fire doors

T	20 minute
C	3/4 hour
B	1-1/2 hour
A	3 hour

- Designs Available: see page 42 for designs
- Maximum Size*

Single	50 x 100 (1524mm x 3084mm)
Pair	100 x 100 (3084mm x 3084mm)

*Doors over 5'0" in width and 10'0" in height are available. Consult your Ceco representative for pricing and availability.

DOOR LEVEL AVAILABILITY

MODEL	TYPE	GAGE	DEC	MM
LEVEL 2 HEAVY-DUTY COMMERCIAL				
2	Seamless	18	0.042	1.0
LEVEL 3 EXTRA HEAVY-DUTY COMMERCIAL				
2	Seamless	16	0.053	1.3

Note: Classified for openings rated up to 1-1/2 hours (Class B, C and 20 minute) which have 450° temperature rise restrictions.

TEMPERATURE

Fuego® 250°

Temperature Rise-Rated Core Fire Door

Features

- 1-3/4" (44.4mm) full flush temperature rise fire door rated for light to extra-heavy duty use
- Fuego satisfies local building code requirements for temperature rise rated fire doors to *250° (121°C) maximum
- Solid mineral fibre core
- Inverted end channels welded to both face sheets
- 7 gage (4.2 mm) steel hinge reinforcement



*250°F (121°C) maximum temperature rise at the end of the first 30 minutes of fire test.

Available Options

- A60 Galvannealed, G90 Galvanized
- Seamless design by application of epoxy filler or continuous welding
- Steel or plastic end channel filler cap
- 14 gage closer reinforcement
- Colorstyle factory finish (see page 37)
- ElectroLynx™ pre-wired quick connect cable (see page 29)

Performance

- Core material: solid mineral fibre
- Thermal Characteristics: U Factor 0.437, R Factor 2.2
- Sound Transmission: STC 33
- Physical Endurance (Cycle Testing)

20 gage	Level C	250,000 cycles
18 gage	Level B	500,000 cycles
16 gage	Level A	1,000,000 cycles

- Fire Label (Rating)

T	20 minute
C	3/4 hour
B	1-1/2 hour
A	3 hour

- Designs available: see page 42 for designs
- Maximum size

Single	40 x 90 (1219mm x 2743mm)
Pair 3 Hours	74 x 90 (2235mm x 2743mm)
Pair 1-1/2 Hours	80 x 90 (2438mm x 2743mm)

DOOR LEVEL AVAILABILITY				
MODEL	TYPE	GAGE	DEC	MM
LEVEL 1 LIGHT COMMERCIAL				
1	Flush	20	0.032	0.8
2	Seamless	20	0.032	0.8
LEVEL 2 HEAVY-DUTY COMMERCIAL				
1	Flush	18	0.042	1.0
2	Seamless	18	0.042	1.0
LEVEL 3 EXTRA HEAVY-DUTY COMMERCIAL				
1	Flush	16	0.053	1.3
2	Seamless	16	0.053	1.3



Acoustical Noise Reduction System

Features

- 1-3/4" (44.4mm) seamless acoustical design rated for heavy through extra heavy-duty use
- For STC 39 through STC 52 applications
- Acoustical core throughout
- Sound resistant septum
- High mass noise barrier
- Flush top, seamless vertical edges
- Reinforced for closer
- Furnished as a complete system with door, frame, perimeter and bottom sound seals, and threshold



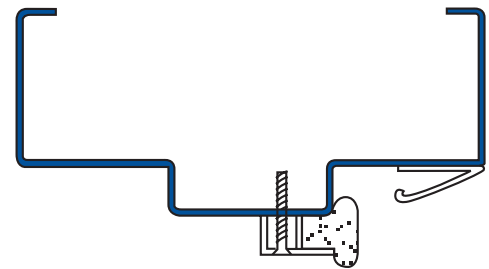
Available Options

- Factory installed acoustical glazing for rating up to STC 46 with 300 sq. in. max. exposed glass area
- Colorstyle factory finish (see page 37)
- ElectroLynx™ pre-wired quick connect cable (see page 29)

Performance

- Core Material: manufacturer's proprietary standard
- Maximum size

Single	40 x 80 (1219mm x 2438mm)
Pair	80 x 80 (2438mm x 2438mm)



Acoustic Steel Frame Profile

AREA	SOUND LEVEL	DOOR STC	ADJACENT SPACE	SOUND LEVEL
Band/Music Room	90 dB	STC 52	Private Office	38 dB
Mechanical Room	75 dB	STC 50	Classroom	25 dB
Audio/Visual room	84 dB	STC 49	Conference Room	35 dB
Amplified Sound	86 dB	STC 46	Corridor, Lobby	40 dB
Manufacturing	75 dB	STC 40	Cafeteria	45 dB

THE BEAUTY OF WOOD...THE DURABILITY OF STEEL!

Features

- Insulated, general purpose, rated for light to extra heavy-duty use
- The natural beauty of wood in a durable, fire-rated stainable steel door
- Rich wood grain pattern engraved into a stainable steel surface
- Won't warp, rot or wear and weather like wood
- Moisture and vermin resistant
- Galvannealed steel face sheets
- Factory finished in stained natural wood tones with accessories and trim to match
- Tough, clear top coat with Ultra Violet (UV) protectors
- Glass lights feature frame trim finished to match door
- Handed door for use in single or paired openings
- Polystyrene core provides structural strength and resists impact
- Doors may be fire-rated to 3 hours, following typical fire-rated door restrictions based on series, gauge and size

Available Options

- Astragals for pairs of doors are available in an "h" profile, screw applied to door edge, and are stained to match the color of the door
- Embossed doors and doors with windows are available (see page 42 for Designs)
- Steel or plastic end channel filler cap
- Colorstyle factory finish (see page 37)
- Electrolynx™ pre-wired quick connect cable (see page 29)





Polystyrene Core

Performance

- Core Material: Polystyrene
- Thermal Characteristics: U Factor 0.31, R Factor 3.23
- Sound Transmission: STC 23 (18 gage operable)
- Physical Endurance (Cycle Testing)

20 gage	Level C	250,000 cycles
18 gage	Level B	2,000,000 cycles
16 gage	Level A	2,000,000 cycles

- Fire Label* (Rating): see page 43 for additional information on fire doors

T	20 minute
C	3/4 hour
B	1-1/2 hour
A	3 hour

- Designs Available: see page 42 for designs
- Maximum size

Single	40 x 90 (1219mm x 2743mm)
--------	---------------------------

*Not all ratings are available in all sizes, designs and material

DOOR LEVEL AVAILABILITY				
MODEL	TYPE	GAGE	DEC	MM
LEVEL 1 LIGHT COMMERCIAL				
1	Flush	20	0.032	0.8
LEVEL 2 HEAVY-DUTY COMMERCIAL				
1	Flush	18	0.042	1.0
LEVEL 3 EXTRA HEAVY-DUTY COMMERCIAL				
1	Flush	16	0.053	1.3



THE ABSOLUTE BEST IN SEVERE WEATHER PROTECTION.

Features

Strong gusts of wind, up to 70 miles per hour, are not uncommon anywhere in the world, but sustained winds of that magnitude, or higher, are generally associated with tornados, hurricanes, and tropical storms. The potential for loss of lives and a great deal of damage is routine with these storms.

In tornados, the added loading caused by wind is a major cause of damage to buildings and property. However, in addition to severe winds, tornados generate extremely high positive and negative pressures that create forces strong enough to pick up and carry debris known as wind-blown missiles. These missiles move with enough force to penetrate windows, doors, walls, and other parts of a building. Damaged buildings are susceptible to collapse, so occupants require more than just a simple dry shelter to survive.

While protecting property is not always possible, protecting lives is critical. That's why we developed *StormPro*. In the mid-80s, Homeland Security, Federal Emergency Management Agency, established guidelines for the design and testing of doors used in shelters. To meet the guidelines, *StormPro* doors were subjected to Design Wind Pressure tests to simulate negative tornado pressure, and Missile Impact Load tests, where 2" x 4" wood sections were fired at the door face in three locations. *StormPro* passed the tests, remained closed and didn't allow missile penetration.

Today, *StormPro* is available in either a swing-in or swing-out design, in either single door or paired door openings.





Severe Weather Door System

StormPro® 320

Door:

- 1-3/4" (44.4mm) in-swing door system
- Complies with Homeland Security FEMA 320 Guidelines
- Heavy-duty 14 gage cold-rolled steel (opt galvanized)
- 16 gage steel stiffened core
- Polystyrene insulation between stiffeners
- Reinforced with 12 gage channels
- Special 12 gage internal reinforcements
- Fully welded edge seams
- 12 gage welded top and bottom channels

Frame:

- Heavy-duty 16 gage cold-rolled steel (opt galvanized)
- Reinforced for hardware application
- Supplied with required wall anchors

Required Hardware:

- 3 - heavy weight hinges
- 3 - Medeco® Maxum security deadbolts with thumbturn, Yale® 5400LN lever handle latch set

StormPro® 361

Door:

- 1-3/4" (44.4mm) out-swing door system
- Complies with Homeland Security FEMA 361 Guidelines
- Heavy-duty 14 gage galvanized steel construction
- 2# density foamed-in-place polyurethane core
- Tested to 1 million open/close cycles
- Reinforced with 12 gage channels
- Special 12 gage internal reinforcements
- Fully welded edge seams
- 14 gage welded top and bottom channels
- UL Fire Label: may be fire rated up to and including 3 hours in accordance with UL10B

Frame:

- Heavy-duty 14 gage galvanized steel construction
- Reinforced for hardware application
- Supplied with required wall anchors

Required Hardware:

- 3 - heavy weight hinges
- #8344-SBO-HD mortise exit device with 3-point latching
- Reinforced for door closer application

DOOR LEVEL AVAILABILITY

MODEL	TYPE	GAGE	DEC	MM
LEVEL 4 MAXIMUM-DUTY COMMERCIAL				
2	Seamless	14	0.067	1.7

DOOR LEVEL AVAILABILITY

MODEL	TYPE	GAGE	DEC	MM
LEVEL 4 MAXIMUM-DUTY COMMERCIAL				
2	Seamless	14	0.067	1.7

Medallion Maxim[®]

The Student-Proof Door and Frame System

GUARANTEED TO LAST AS LONG AS THE SCHOOL BUILDING ITSELF.

Medallion Maxim doors were design engineered for long-lasting performance in educational buildings. Internal steel stiffeners, spaced 6" apart, are welded to the door face surfaces every 5" for a maximum-duty rating. The door features a lifetime warranty.

Features

- Steel stiffened core
- 1-3/4" (44.4mm) custom seamless design rated for maximum-duty use
- Designed for high frequency, severe traffic openings
- Internal steel stiffeners welded to face sheets
- Welded edge seams enhance strength and appearance
- Rock wool insulation limits thermal and sound transmission
- Lock and hinge edge beveled 1/8" in 2" (1:16)
- Inverted end channels welded to both face sheets
- 7 gage (4.2mm) steel hinge reinforcement



Available Options

- Closer Reinforcement
- A60 Galvannealed steel
- Steel end channel filler cap
- Flush welded glass lite trim kits
- ElectroLynx™ pre-wired quick connect cable (see page 29)
- Colorstyle factory finish (see page 37)

Performance

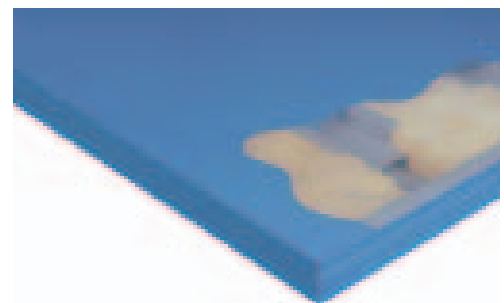
- Core Material: Steel stiffeners/Fiberglass Batt insulation
- Thermal Characteristics: U Factor 0.69, R Factor 1.44
- Sound Transmission: STC 38
- Physical Endurance (Cycle Testing)

14 gage	Level A	1,000,000 cycles
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- Designs available: see page 42 for designs
- Maximum Size

Single	40 x 90 (1219mm x 2743mm)
Pair	80 x 90 (2438mm x 2743mm)

DOOR LEVEL AVAILABILITY				
MODEL	TYPE	GAGE	DEC	MM
LEVEL 4 MAXIMUM-DUTY COMMERCIAL				
2	Seamless	14	0.067	1.7





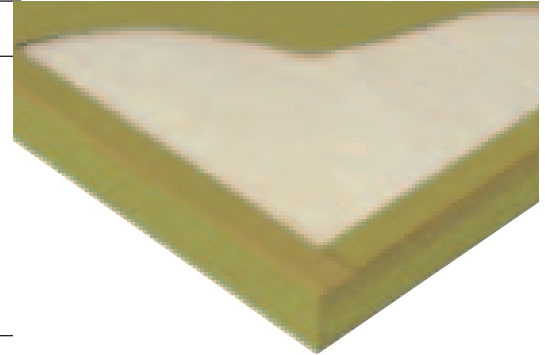
The Student-Proof Door and Frame System

GUARANTEED TO LAST AS LONG AS THE SCHOOL BUILDING ITSELF.

Imperial Maxim doors provide long-lasting performance. A foamed-in-place polyurethane core provides total surface reinforcement, giving the well-insulated seamless door a maximum-duty rating. We guarantee the door to last as long as the school building itself.

Features

- 1-3/4" (44.4 mm) insulated seamless design rated for maximum-duty use
- Exceptional thermal and impact resistance
- Foamed-in-place polyurethane core
- Thermal Characteristics: U Factor 0.067, R Factor 14.97
- Inverted end channels welded to both face sheets
- 7 gage (4.2mm) steel hinge reinforcement



Available Options

- Closer Reinforcement
- A60 Galvannealed steel
- Steel end channel filler cap
- Steel glass lite trim kits
- ElectroLynx™ pre-wired quick connect cable (see page 29)
- Colorstyle factory finish (see page 37)

Performance

- Core Material: Polyurethane
- Thermal Characteristics: U Factor .067, R Factor 14.97 (core)
- Sound Transmission: STC 26
- Physical Endurance (Cycle Testing)

14 gage	Level A	1,000,000 cycles
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- Designs Available: see page 42 for designs
- Maximum Size

Single	40 x 90 (1219mm x 2743mm)
Pair	80 x 90 (2438mm x 2743mm)

DOOR LEVEL AVAILABILITY

MODEL	TYPE	GAGE	DEC	MM
LEVEL 4 MAXIMUM-DUTY COMMERCIAL				
2	Seamless	14	0.067	1.7

Stile and Rail Door Assembly

Features

- 1-3/4" (44.4mm) insulated tubular seamless construction rated for extra heavy-duty use
- Ideal for building entrance, schools, hotels, theaters
- 16 gage (1.3mm) reinforced fully welded construction
- 5-5/8" (144mm) stiles and top rail
- 12" (305mm) bottom rail
- Integral flush glazing
- Glass size 1/4" (6mm) to 1" (25mm)
- Flush tubular steel door top
- 7 gage (4.2mm) steel hinge reinforcement

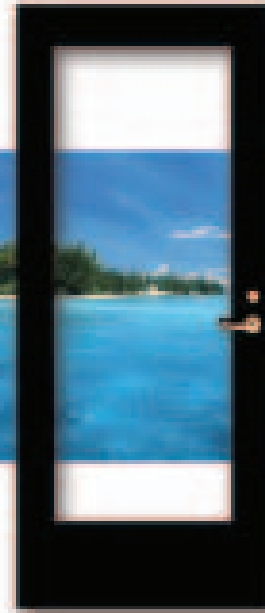
Available Options

- 3-5/8" (92mm) stiles and top rail
- Optional center rail(s)
- 10" (254mm), 14" (356mm), or 16" (406mm) bottom rail
- Closer reinforcement
- A60 Galvannealed
- Colorstyle factory finish (see page 37)
- Electrolynx™ pre-wired quick connect cable (see page 29)

Performance

- Sound Transmission: STC 29 (operable)
- Fire Rating: 20 minute or 45 minute
- Designs Available: see page 42 for designs
- Maximum Size

Single	40 x 80 (1219mm x 2438mm)
Pair	80 x 80 (2438mm x 2438mm)



DOOR LEVEL AVAILABILITY

MODEL	TYPE	GAGE	DEC	MM
LEVEL 3 EXTRA HEAVY-DUTY COMMERCIAL				
3	Stile & Rail	16	0.053	1.3



Marine Door and Frame System

Features

- 1-3/4" (44.4mm) seamless marine design rated for heavy-duty to extra heavy-duty use
- U.S. Coast Guard approved non-combustible insulation limits thermal and sound transmission
- Internal steel stiffeners welded to face sheets
- Welded edge seams enhance strength and appearance
- Inverted end channels welded to both face sheets
- 7 gage (4.2mm) steel hinge reinforcement
- 18 gage doors for bulkheads to B-15, 16 gage up to A-60
- 14 gage or 16 gage welded galvanized 3-sided or 4-sided steel frames for hatchway or deck application
- Integral gasket weatherstrip



Available Options

- Closer reinforcement
- Galvannealed steel
- Steel end channel filler cap
- Flush welded glass lite trim kits
- Colorstyle factory finish (see page 37)
- Electrolynx™ pre-wired quick connect cable (see page 29)

Performance

- Core Material: Non-combustible U.S. Coast Guard approved
- Thermal Characteristics: U Factor 0.69, R Factor 1.44
- Sound Transmission: STC 38 (operable)
- Physical Endurance

- Designs available: see page 42 for designs
- Maximum size

18 gage	Level B	500,000 cycles
16 gage	Level A	1,000,000 cycles

Single	40 x 90 (1219mm x 2743mm)
Pair	80 x 90 (2438mm x 2743mm)

- Labeling: Bears U.S. Coast Guard compliance label: Complies with U.S. Coast Guard requirements as defined in 46CFR72.05-25 for bulkhead doors"

DOOR LEVEL AVAILABILITY				
MODEL	TYPE	GAGE	DEC	MM
LEVEL 2 HEAVY-DUTY COMMERCIAL				
2	Seamless	18	0.042	1.0
LEVEL 3 EXTRA HEAVY-DUTY COMMERCIAL				
2	Seamless	16	0.053	1.3

Stainless Steel Door System

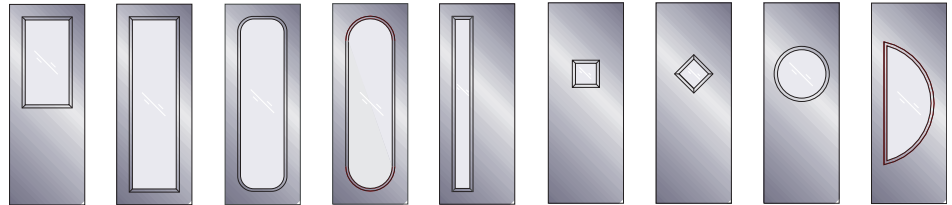
Features

- 1-3/4" (44.4mm) #304 alloy stainless steel full flush
- Construction rated for heavy-duty through maximum-duty use
- Ideal for high-style architectural environments: health care, pharmaceutical, sanitation, nanatoriums, water treatment, chemical plants, coastal areas
- Polystyrene core provides insulation characteristics and resistance to impact
- Core is chemically bonded to face sheets providing total surface support
- Hemmed hairline vertical edge seams for added strength and rigidity



Available Options

- Seamless design by continuous welding
- #316 alloy high corrosive-resistant stainless steel
- Honeycomb, polyurethane core chemically bonded to face sheets
- Vertically steel stiffened core with mineral rock wool or fiberglass batt insulation between stiffeners
- 12 gage (2.3mm) closer reinforcement
- Stainless flush top closure cap
- Various surface finishes and textures
- Seamless flush top and bottom
- Stainless steel glass trim kits



Performance

- Core Material: Polystyrene
- Thermal characteristics: U Factor 0.31, R Factor 3.23
- Sound Transmission: STC 23 (18 gage operable)
- Physical Endurance

18 gage	Level B	500,000 cycles
16 gage	Level A	1,000,000 cycles
14 gage	Level A	1,000,000 cycles

- Fire Rating: 20 minute or 45 minute

T	20 minute
C	3/4 hour
B	1-1/2 hour
A	3 hour

- Designs Available: see page 42 for designs
- Maximum Size

Single	40 x 90 (1219mm x 2743mm)
Pair	80 x 90 (2438mm x 2743mm)



Stainless Steel Door System

DOOR LEVEL AVAILABILITY

MODEL	TYPE	GAGE	DEC	MM
LEVEL 2 HEAVY-DUTY COMMERCIAL				
1	Flush	18	0.042	1.0
2	Seamless	18	0.042	1.0
LEVEL 3 EXTRA HEAVY-DUTY COMMERCIAL				
1	Flush	16	0.053	1.3
2	Seamless	16	0.053	1.3
LEVEL 4 MAXIMUM-DUTY COMMERCIAL				
2	Seamless	14	0.067	1.7
2	Seamless	12	0.093	2.3

Finishes

Number 2B	A bright, general-purpose cold-rolled finish that can be used "as is."	
No. 4	A general purpose bright finish with a visible "grain" which prevents mirror reflection.	
No. 6	A dull satin finish for use where a high luster is undesirable.	
No. 8 (Mirror)	The most reflective surface. For applications where a mirror or reflector finish is desirable.	
Non-Directional	A dull satin finish, low reflectivity, no directional "grain." Used in architectural applications where a "grain" is undesirable.	
Random Swirl	A polished surface to which a visible decorative random swirl pattern is applied.	

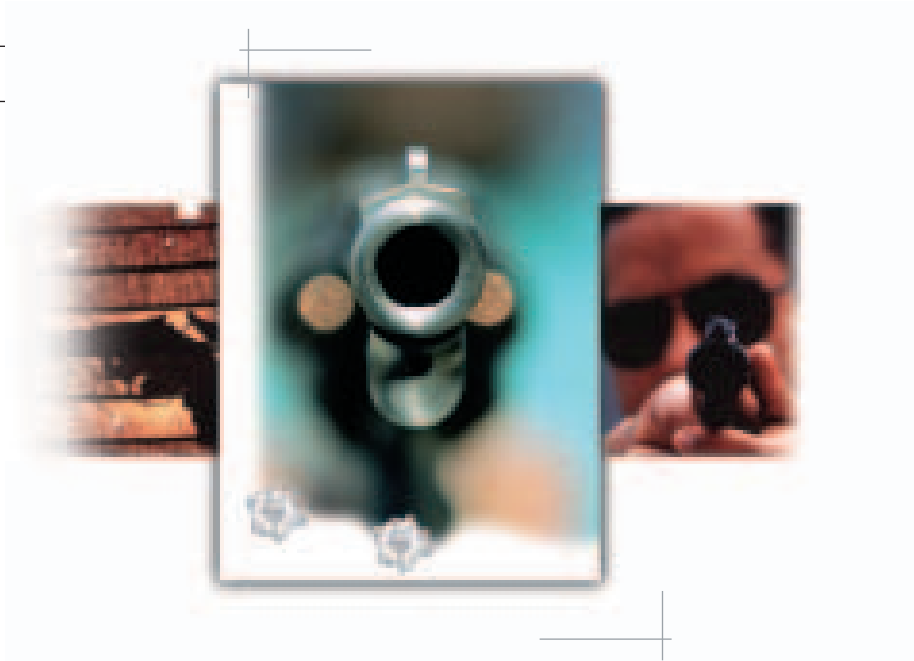
Textures

Deco	A stainless steel texture at random locations with low reflectivity.	
Large Oval	Embossed oblong circular texture approximately 1/4" in diameter with 1/64" projection.	
Wide Ridged Stripe	1/8" wide alternating ridges and valleys in #4 finishes.	
Linen	Continuously embossed circular pattern of 1/16" circles. Low projection, low reflectivity.	
Small Diamond	An embossed pattern of 1/8" diamonds 3/16" on center. Low projection, low reflectivity.	
Mirror Stripe	An 1/8" engraved vertical line applied to stainless Mirror #8.	

Bullet Resistant Door System

Features

- 1-3/4" (44.4mm) thick custom construction seamless design bullet resistance rated for extra heavy-duty or maximum-duty, interior or exterior use
- ArmorShield is effective against a wide range of firearms when used with structures similarly rated
- Designed for openings where a bullet resistance rated door is a requirement, such as Utility field buildings, cashier islands, ticket booths, currency exchanges, box offices, courthouses, casinos
- Fully welded vertical edge seams for enhanced strength and aesthetic appearance
- Internal door construction and concealed armorplate vary and is dependent on the required ballistic rating
- 7 gage (4.2mm) steel hinge reinforcement
- Inverted end channels welded to both face sheets
- Neutral prime base coat
- Lock and hinge edge beveled 1/8" in 2" (1:16)



Available Options

- G90 Galvanized steel
- Steel end channel filler cap
- Bullet resistant glass light kits
- Colorstyle factory finish (see page 37)
- ElectroLynx™ pre-wired quick connect cable (see page 29)

Performance

- Core Material: Steel Stiffened
- Thermal Characteristics: UFactor 0.69, R Factor 1.44
- Sound Transmission: STC 38 (18 gage operable)
- Physical Endurance

16 gage	Level A	1,000,000 cycles
14 gage	Level A	1,000,000 cycles
12 gage	Level A	1,000,000 cycles

- Fire Label Rating:

T	20 minute
C	3/4 hour
B	1-1/2 hour
40 x 80 (1219mm x 2438mm) Flush Design, 14 or 16 gage	

- Designs Available: see page 42 for designs
- Maximum Size

Single	40 x 90 (1219mm x 2743mm)
Pair	80 x 90 (2438mm x 2743mm)



Bullet Resistant Door System

DOOR LEVEL AVAILABILITY				
MODEL	TYPE	GAGE	DEC	MM
LEVEL 3 EXTRA HEAVY-DUTY COMMERCIAL				
2	Seamless	16	0.053	1.3
2	Seamless	14	0.067	1.7
2	Seamless	12	0.093	2.3

BALLISTIC LEVEL	LEVEL 1 MEDIUM POWER (MPSA)	LEVEL 2 HIGH POWER (HPSA)	LEVEL 3 SUPER POWER (SPSA)	LEVEL 4 30-06 HUNTING SPORT RIFLE
WEAPON	Super 38 Automatic	.357 Magnum Revolver	.44 Magnum Revolver	30-06 Rifle
BULLET TYPE	130 Grain Metal Case	158 Grain Soft Point	240 Grain Soft Point	220 Grain Springfield
MUZZLE VELOCITY	1,280 FPS (390 MPS)	1,450 FPS (442 MPS)	1,470 FPS (448 MPS)	2,523 FPS (769 MPS)
MUZZLE ENERGY	475 Ft. Lb. (7.07mbar)	740 Ft. Lb. (11.01 mbar)	1,250 Ft. Lb. (18.60 mbar)	3,102 Ft. Lb. (46.16 mbar)

Steel Stiffened Core

Features

- 2" (50.8mm) thick Custom Construction Seamless Design - rated for Extra Heavy-Duty or Maximum duty, interior or exterior use
- Designed for openings where detention, retention or security must be addressed such as holding areas in public venues - courthouses, stadiums, shopping centers, casinos.
- Extra strong 18 gage (1.0mm) vertical steel stiffeners placed 4" (101.6mm) apart and welded to the face sheets every 3-1/2" (88.9mm) along their length.
- Fully welded vertical edge seams for enhanced strength and aesthetic appearance
- Fiberglass batt insulation between stiffeners to limit thermal and sound transmission
- Lock and hinge edge beveled 1/8" in 2" (1:16)
- 12 gage (2.3mm) Closer Reinforcement
- 10 gage (3.1 mm) inverted steel end channels welded to both face sheets
- 7 gage (4.2 mm) steel hinge reinforcement
- Neutral prime base coat



Available Options

- G90 Galvanized steel
- Electrolynx™ pre-wired quick connect cable (see page 29)
- Steel end channel filler cap
- Flush welded glass lite trim kits
- 12 gage Level 3 Rated Bullet Resistance
- Colorstyle factory finish (see page 37)

Performance

- Core Material: Steel Stiffened
- Thermal Characteristics: U Factor 0.69, R Factor 1.44
- Sound Transmission: STC 38 (18 gage operable)
- Physical Endurance

16 gage	Level A	1,000,000 cycles
14 gage	Level A	1,000,000 cycles
12 gage	Level A	1,000,000 cycles

DOOR LEVEL AVAILABILITY				
MODEL	TYPE	GAGE	DEC	MM
COMMERCIAL SECURITY PRODUCTS				
2	Seamless	16	0.053	1.3
2	Seamless	14	0.067	1.6
2	Seamless	12	0.093	2.3

- Fire Label Rating:

T	20 minute
C	3/4 hour
B	1-1/2 hour
A	3 hour

- Designs Available: see page 42 for designs
- Maximum Size

Single	40 x 90 (1219mm x 2743mm)
Pair	80 x 90 (2438mm x 2743mm)



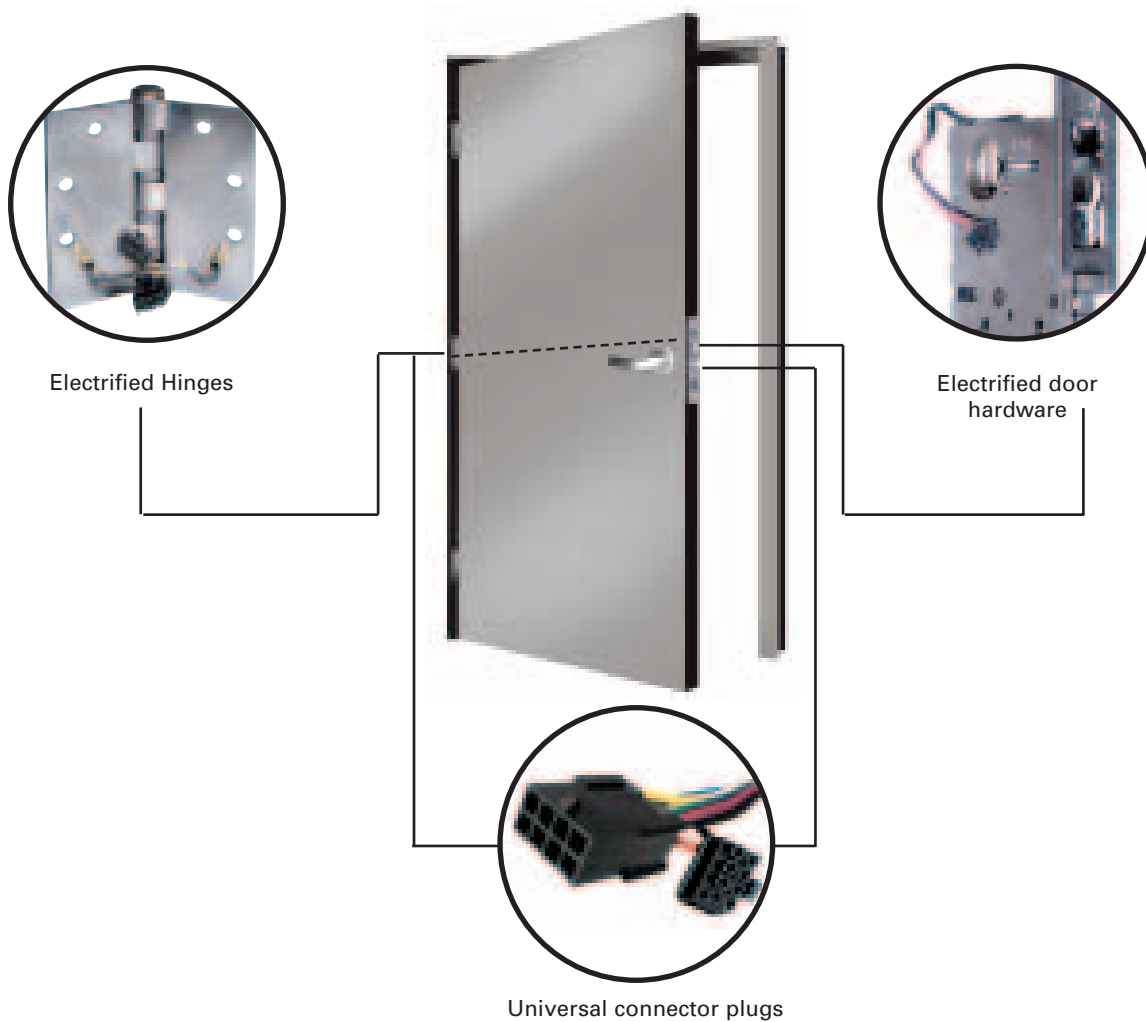
Pre-Wired Door and Frame System

ElectroLynx™, a new quick connect feature of ASSA ABLOY Group companies, takes the guesswork out of installing electrified door hardware products. It's ...Hardwiring Made Easy. By using standard "plug and play" connectors, a simple "click" links power from the incoming source to the electrified locking products, including hinges, locks, exit devices, magnetic holders, and strikes. What normally takes an hour or more can be connected in virtually minutes. The concealed plug connectors eliminate the need for separate or exposed wiring, and armored wire exit locations add durability.

ElectroLynx gives you a whole new way to connect with your customers. It's simple. It's quick. And it's ASSA ABLOY... the world's leading manufacturer and supplier of locking solutions.

When the application calls for electrified door hardware

...Look for the Lynx™.



Sight Light™ System

Light Guide® Egress Marking System

In an emergency, building tenants have one goal in mind - evacuate! Oftentimes during this time of high stress, they are presented with only marginal emergency lighting to navigate out of the building. Sometimes, no light at all. Accompanied by fire and dense smoke, evacuating becomes an almost impossible task. Pathway marking speeds evacuation in the event of an emergency. Light Guide was designed to assist people in just such emergencies by providing light for building egress. It is aesthetically pleasing when the lights are on, and an absolute necessity when the lights go off.

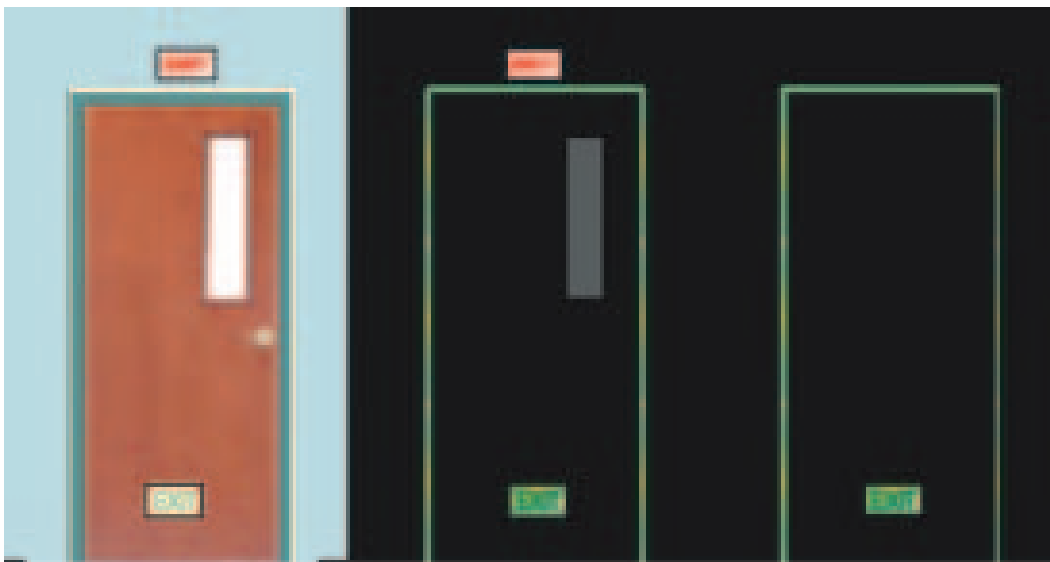
Two Systems

Photo-Luminescent System

- Bright lighted pathway for up to 90 minutes without power
- Superior illumination formula, product illuminated for days
- Economical. Small areas can be equipped at minimal cost
- No maintenance - only occasional surface cleaning
- No system function checks required, only visual inspections
- Provides egress marking for rescue workers
- Abrasion does not lead to system failure
- System failures are impossible

Electro-Luminescent System

- Provides bright lighted pathway to exit
- Brighter than non-electrified system
- Wired into building's emergency system
- Provides NFPA 101 required 1-1/2 hours of emergency illumination
- System stays bright when illuminated, does not decrease over time
- Not necessary to illuminate to ensure system functionality
- Battery backup ensures system functionality in power failure



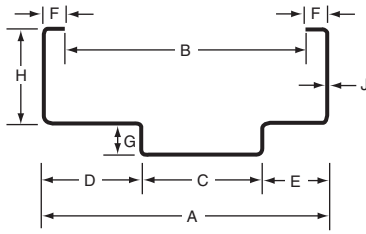
LIGHTS ON - POWER ON LIGHTS OFF - POWER ON LIGHTS OFF - POWER OFF

Standard Frames

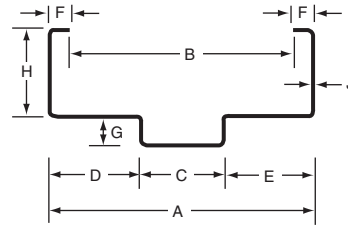
STANDARD FRAMES



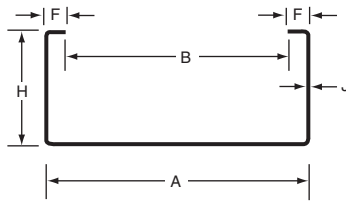
Series SU, SQ, SR and SC Steel Frames



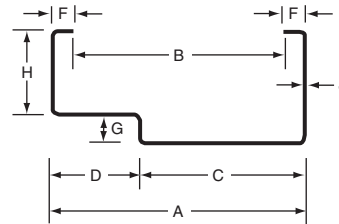
SU



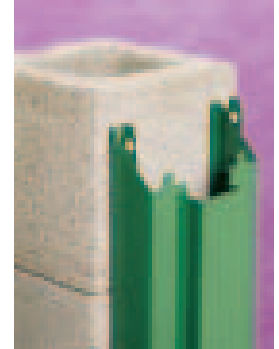
SQ



SC



SR



FRAME SERIES		SU DOUBLE RABBET	SQ DOUBLE RABBET	SR SINGLE RABBET	SC CASED OPEN
FRAME DEPTH	(A)	4-3/4" (120.6mm) 5-3/4" (146.0mm) 6-3/4" (171.4mm) 7-3/4" (196.8mm) 8-3/4" (222.2mm)	3" (76.2mm) through 24" (6.9.6mm) in 1/8" (3.1mm) increments	3" (76.2mm) through 24" (6.9.6mm) in 1/8" (3.1mm) increments	3" (76.2mm) through 24" (6.9.6mm) in 1/8" (3.1mm) increments
THROAT	(B)	(A) minus 1" (25.4mm) Except 5-3/4" (146.0) minus 7/8" (22.2mm)	Variable	Variable	Variable
SOFFIT	(C)	Fixed	Variable	Variable	Variable
RABBET	(D)	1-15/16" (49.2mm)	1-15/16" (49.2mm)	1-15/16" (49.2mm)	—
RABBET	(E)	1-9/16" (39.7mm)	1-15/16" (49.2mm)	—	—
BACKBEND	(F)	1/2 (12.7mm) Except 5-3/4" (146.0mm) minus 7/16" (11.1mm)	Variable	Variable	Variable
STOP	(G)	5/8" (15.8mm)	5/8" (15.8mm) to 1-1/4" (31.8mm)	Variable	—
FACE	(H)	2 (50.8mm)	Variable	Variable	Variable
STEEL	Gage	(J)	16, 14	16, 14, 12	16, 14, 12
	mm		1.3, 1.7	1.3, 1.7, 2.3	1.3, 1.7, 2.3
	dec		.053, .067	.053, .067, .093	.053, .067, .093

SU indicates a standard frame with "unequal" frame rabbets

SQ indicates a standard frame with "equal" frame rabbets

SR indicates a standard frame with "one" frame rabbet

SC indicates a standard cased frame with no rabbet

Drywall Frames

Series DU, BU, DQ, BQ, DR and DC
Steel Frames



DU/BU



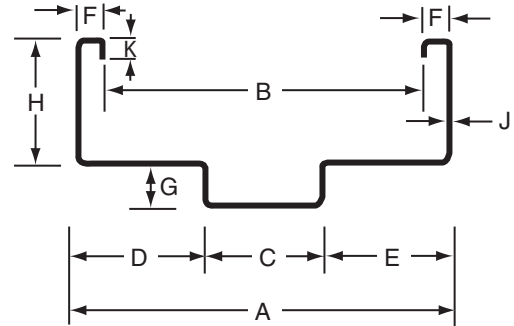
DR



DQ/BQ



DC



FRAME SERIES		DU DOUBLE	BU RABBET	DQ DOUBLE RABET	DR SINGLE RABBET	DC CASED OPEN
FRAME DEPTH	(A)	(A) 4-3/4" (120.6mm)	(B) 3-1/2" (88.9mm)	2-5/8" (66.6mm) through 13"	3-5/8" (92.0mm) through 6"	2-5/8" (66.6mm) through 7-1/8"
THROAT	(B)	5-3/4" (146.0mm)	4-5/8" (117.8mm)	(330.2mm) in 1/8" (3.2mm) increments	(152.4mm) in 1/8" (3.2mm) increments	(180.9mm) in 1/8" (3.2mm) increments
SOFFIT	(C)	Fixed		(A) - 3-7/8" (98.4mm)	(A) - 1-15/16" (49.2mm)	—
RABBET	(D)	1-15/16" (49.2mm)		1-15/16" (49.2mm)	1-15/16" (49.2mm)	—
RABBET	(E)	1-9/16" (39.7mm)		1-15/16" (49.2mm)	1-15/16" (49.2mm)	—
BACKBEND	(F)	4-3/4" (120.1mm) 5-3/4" (146.0mm) 5-3/4" (146.0mm)	5/8" (15.8mm) 7/16" (11.1mm) 9/16" (14.2mm)	1/2" (12.7mm)	1/2" (12.7mm)	1/2" (12.7mm)
STOP	(G)	5/8" (15.8mm)		5/8" (15.8mm)	5/8" (15.8mm)	Variable
FACE	(H)	2" (50.8mm)		2" (50.8mm)	2" (50.8mm)	2" (50.8mm)
STEEL	Gage	16		16, 14	16, 14, 12	16, 14, 12
	mm	1.3		1.3, 1.7	1.3, 1.7, 2.3	1.3, 1.7, 2.3
	dec	.053		.053, .067	.053, .067, .093	.053, .067, .093
BACKBEND RETURN	(K)	4-3/4" (120.1mm) 5-3/4" (146.0mm) 5-3/4" (146.0mm)	1/4" (6.35mm) 5/16" (9.94mm) 7/16" (11.1mm)	5/16" (7.9mm)	5/16" (7.9mm)	5/16" (7.9mm)

DU drywall frames have "unequal" rabbets and are designed to be installed AFTER the drywall board.
 BU drywall frames have "unequal" rabbets and are designed to be installed BEFORE the drywall board.
 DQ drywall frames have "equal" frame rabbets and are designed to be installed AFTER the drywall board.
 BQ drywall frames have "equal" frame rabbets and are designed to be installed BEFORE the drywall board.
 DR drywall frames have "one" frame rabbet (single rabbet).
 DC drywall frames with no frame rabbet (cased opening).

Made-To-Order Frames

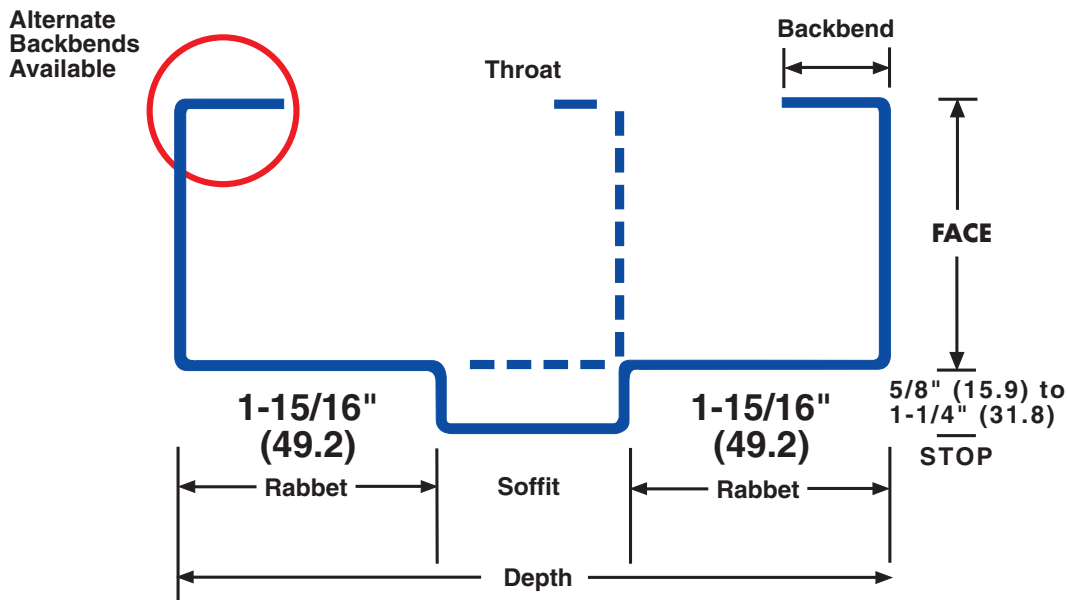


Ceco Made-to-order frames are available in hundreds of made-to-order combinations, profiles and backbends to suit your design needs:

- 18 gage
- 16 gage
- 14 gage
- 12 gage
- Cold rolled
- A60 galvanized
- G90 galvanized steel
- Underwriters Laboratories (UL)
- Warnock Hersey (WH)
- Factory Mutual (FM) fire labels

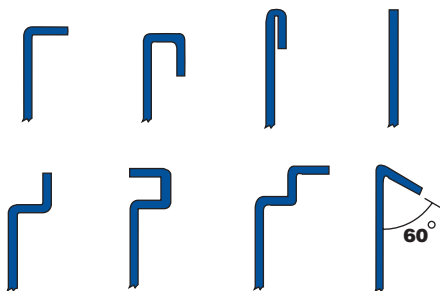
Custom frame profile variables include the DEPTH, THROAT, FACE, RABBET, SOFFIT, and BACKBEND*.

- Electrolynx™ pre-wired quick connect cable (see page 29)

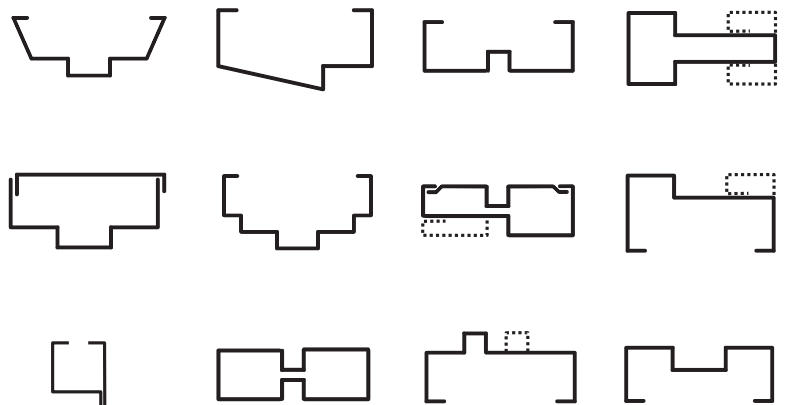


Note: Single Rabbet and cased opening shown dotted.

Alternate Backbends Available



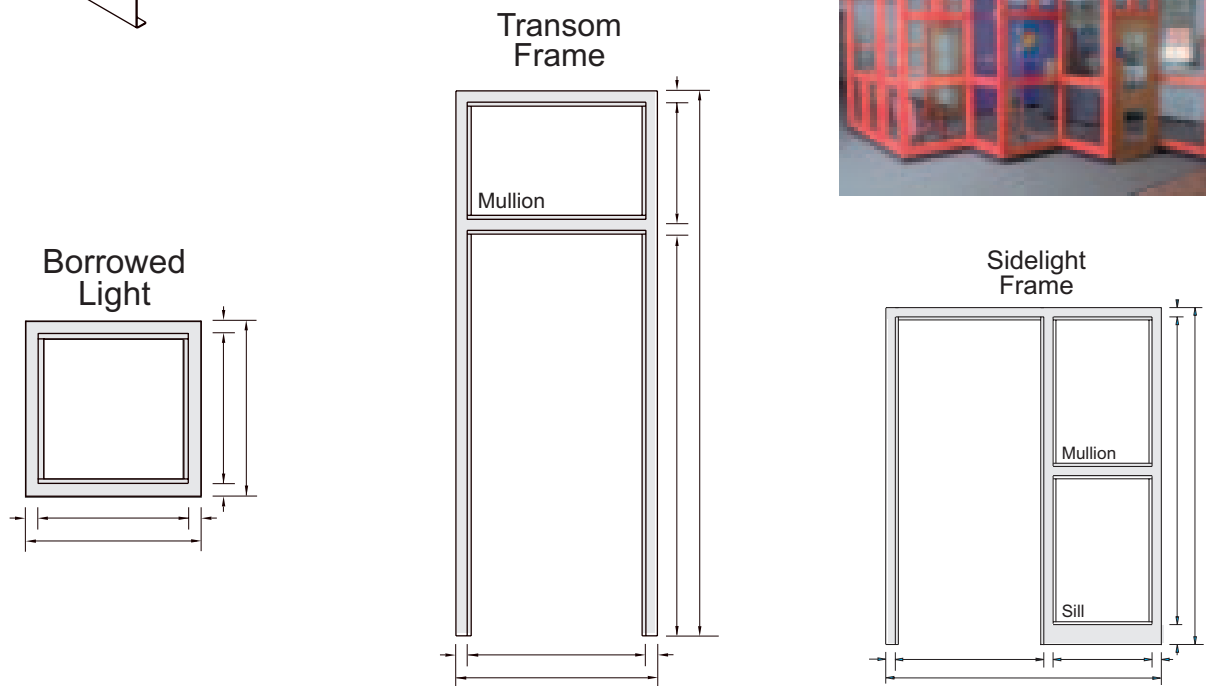
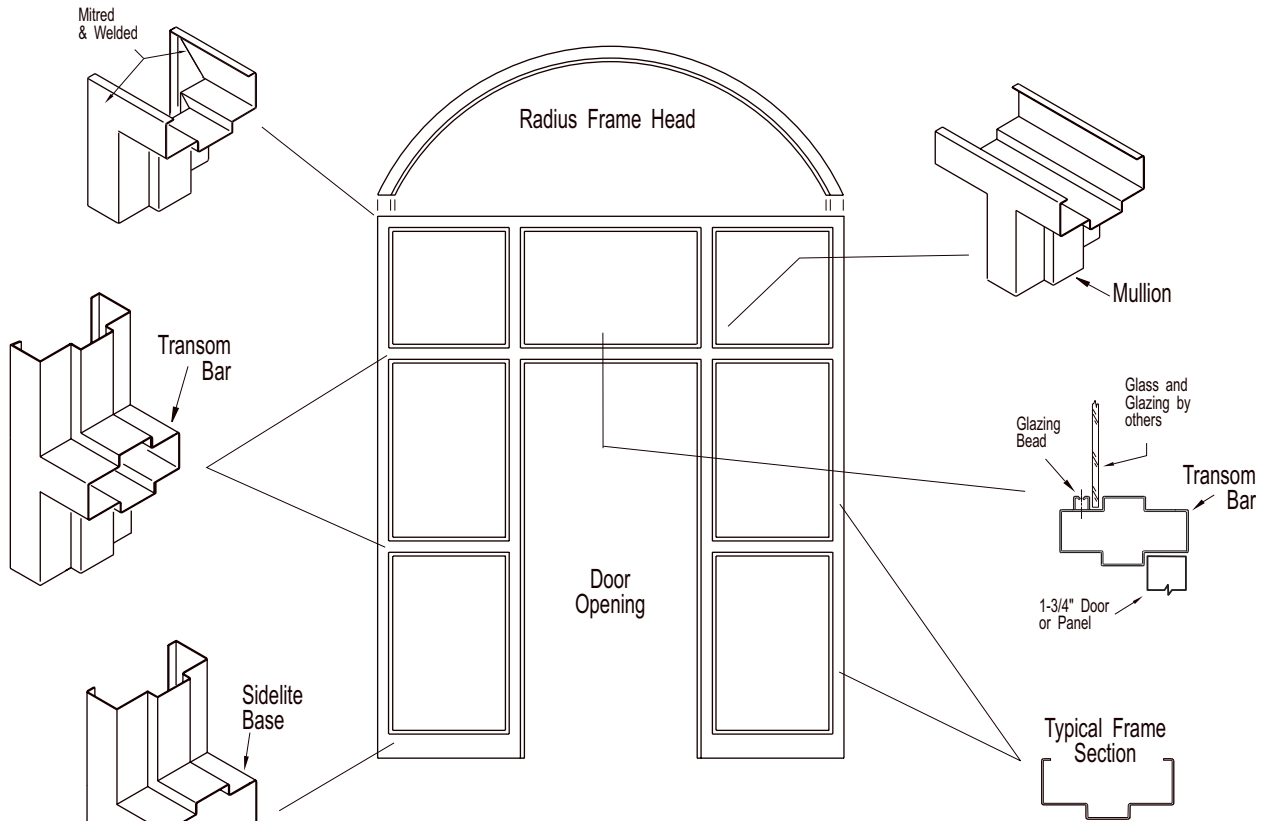
Alternate Profiles Available



*Made-to-order frame variations are limited by the equipment tooling; please consult us with questions.

FABRICATED FRAMES

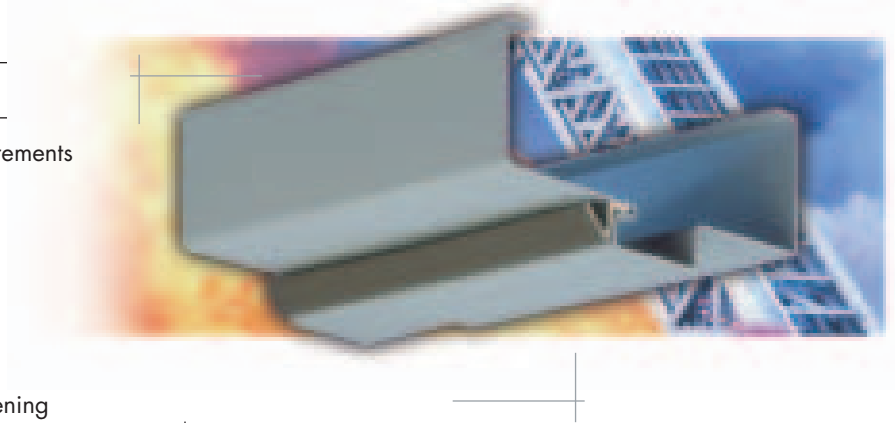
Borrowed Light, Transom and Sidelight Frames



Draft and Smoke Control System

Features

- Effective Smoke Seal meets Life Safety Requirements
- Fire Rated to meet National Fire Codes
- Standard or Drywall profile
- Double or Single Rabbet
- 14, 16, or 18 gage steel
- Concealed gasket protects system integrity
- Integral kerf formed into door stop
- Knocked down construction
- Mate with a Ceco fire door for complete opening



Available Options

- A60 Galvannealed material
- Setup and welded
- Closer reinforcement
- Sidelites and transom frames
- Fire Rating: 20 min, 3/4 hour, 1 1/2 hour, or 3 hour
- Sizes Available:
 - 40 (1219mm) x 80 (2438mm) Single
 - 80 (2438mm) x 80 (2438mm) Pair

Performance

- Fire Rating: 20 min, 3/4 hour, 1-1/2 hour, or 3 hour
- Size Available

Single	40 (1219mm) x 80 (2438mm)
Pair	80 (2438mm) x 80 (2438mm)

Weatherstripped Frames

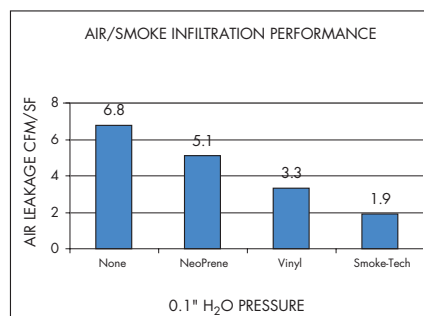
Draft and Smoke Control System

Features

- Compression-type foam-filled gasketing for minimal air infiltration
- Concealed gasket protects system integrity
- Integral kerf formed into door stop
- Reduced installation costs
- Standard or drywall profile
- Double or single rabbet
- 18, 16 or 14 gage steel
- Knocked down construction
- Fire rated to meet national fire codes

Available Options

- A60 Galvannealed material
- Setup and welded
- Closer reinforcement
- Sidelites and transom frames



THERMAL

Thermal Break

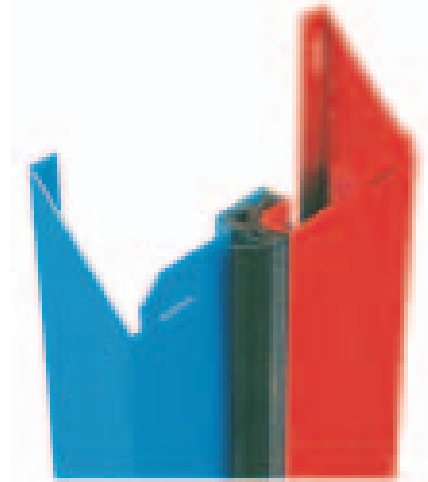
Made-To-Order Positive Thermal Brake Frame System

Features

- Insulates, eliminates frost build-up
- Energy efficient, seals, prevents drafts
- Positive 3/8" vinyl thermal break
- Integral vinyl weatherstrip
- Simplified installation
- 14 gage or 16 gage steel
- Reduced installation costs
- Double or single rabbet
- Knocked down construction

Available Options

- A60 Galvannealed material
- Setup and welded with sealed face seams
- Closer reinforcements
- Borrowed lights, sidelites and transom frames



Arched-Tech®

Made-To-Order Curved Frame System

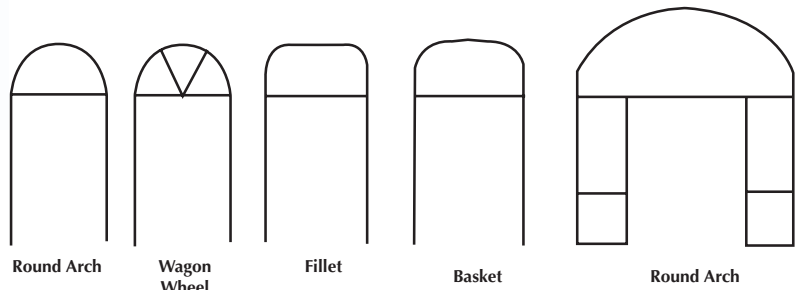
Features

- Arched heads or curved-in-plan
- Sidelites, Transoms, Borrowed Lites
- Transoms with Sidelites
- SQ (equal) or SU (un-equal) frame profile
- 4-5/8" through 9-3/4" depth in 1/8" increments
- 14 gage or 16 gage cold rolled steel



Available Options

- A60 Galvannealed steel
- Fire Rating



Round Arch

Wagon Wheel

Fillet

Basket

Round Arch



Prefinished Doors and Frames

Colorstyle doors are factory-finished commercial grade, standard or custom, full flush or seamless designs with flat blemish-free faces. Style and design alternatives are available to blend with most any architectural setting.

Features

- Bold eye intriguing or subtle accent colors
- Superior, durable, uniform color finish
- Durability, security, ruggedness of steel
- Aesthetically pleasing designs
- Wood-grained or leather-patterned steel available
- Knocked-down Colorstyle frames also available
- Your Ceco Distributor has complete information

An array of sample colors is shown below; over 1,900 palette colors available

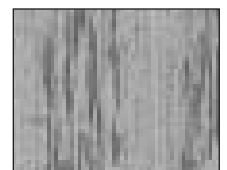


Smudge-resistant textured steel with factory applied Colorstyle finish. The pattern is permanent, random design, etched into the steel itself



Etched leather grained steel

Handsome wood-grained steel with applied Colorstyle finish. The pattern is permanently etched into the steel itself



Etched wood grained steel

Colors printed on this page are representative. Actual color selection is made from a color palette book. Contact your Ceco representative for additional information. Applied colors have satin finish. Doors are finish painted to a gloss of 20° ±5° as measured on a 60° meter.

Conformance to International Specifications and Standards

When properly specified, Ceco doors and frames will conform to the document requirements of the internationally recognized agencies listed below. The list is not all inclusive.

IFGS-08110: Steel Doors and Frames - Unified Facilities Guide Specification
04-01M Section 08110: Veterans Administration Master Specification
A250.3: Test Procedure and Acceptance Criteria for Factory Applied Finish Painted Steel Surfaces for Steel Doors and Frame
ANSI A250.4: Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors and Hardware Reinforcing
ANSI A250.6: Hardware on Standard Steel Doors (Reinforcement & Application)
ANSI A250.7: Nomenclature: Standard Steel Doors & Frames
ANSI A250.8: Recommended Specifications for Standard Steel Doors and Frames
ANSI A250.10: Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames
ANSI A250.13: Testing and Rating of Severe Windstorm Resistant Components for Swinging Door Assemblies
ANSI/NAAMM HMMA861: Commercial Hollow Metal Doors and Frames
ANSI/NAAMM HMMA863: Guide Specifications for Detention Security Hollow Metal Doors and Frames
ANSI/NAAMM HMMA865: Guide Specifications for Swinging Control Doors and Frames
ANSI/NAAMM HMMA866: Guide Specifications for Stainless Steel Hollow Metal Doors and Frames
ANSI A115: Standard Specifications for Door and Frame Hardware Preparation
ANSI A117.1: Acceptable and Usable Buildings and facilities
ANSI A156.7: Standard Template Hinge Dimension.
ANSI/NFPA 101: Life Safety Code
ANSI/NFPA 105: Installation of Smoke and Draft Control Assemblies
ANSI/NFPA 80: Fire Doors and Windows
ANSI/NFPA 252: Standard Methods of Tests of Door Assemblies
ANSI/NFPA 257: Fire Test of Window Assemblies
BS 476 Part 22: Fire Test on Bldg. Mtls. and Structures (British)
CEGS-08110: Steel Doors and Frames - Corps. of Engineers Guide Specification
CFR Title 46: US Coast Guard Requirement
FEMA 320: Taking Shelter from the Storm: Building a Safe Room Inside Your Home
FEMA 361: Design and Construction Guidance for Community Shelters
H-08-1, 0810: Hollow Steel Doors and Frames, Master Guide Spec. VA.
HMMA810: Hollow Metal Doors, NAAMM.
HMMA820: Hollow Metal Frames, NAAMM.
HMMA860: Hollow Metal Doors and Frames, NAAMM.
INTERNATIONAL BUILDING CODE (IBC)
NBR 11742: Fire Test of Door Assemblies (Brazil)
NCH 935 / 2.0: Fire Test of Door Assemblies (Chile)
STATE OF FLORIDA BUILDING CODE - 2003 EDITION
SS 332: Fire Test of Door Assemblies (Singapore)
UBC 7-2: Fire Test of Door Assemblies Under Positive Pressure
UBC 7-4: Fire Test of Window Assemblies Under Positive Pressure
UFGS-08110: Steel Doors and Frames United Facilities Guide Specifications
UL9: Fire Test of Window Assemblies
UL10B: Fire Test of Door Assemblies
UL10C: Standard for Positive Pressure Fire Tests of Door Assemblies
UL305: Standard for Panic Hardware
UL752: Bullet Resistant Equipment
UL1784: Air Leakage Tests of Door Assemblies



Physical Endurance

Measures a door assembly's ability to resist deterioration caused by use.

Physical endurance testing is a two-part test conducted in conformance with ANSI A250.4 (Door) and ANSI A250.5 (Frame). The test consists of two parts:

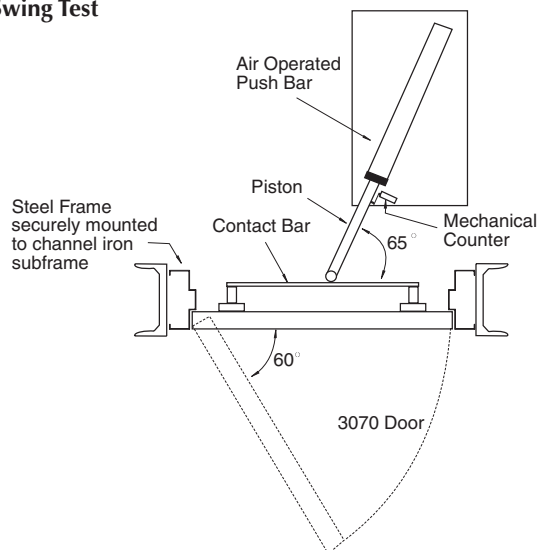
SWING TEST: The test door is opened and closed (cycled) mechanically a prescribed number of times.

CECO PERFORMANCE

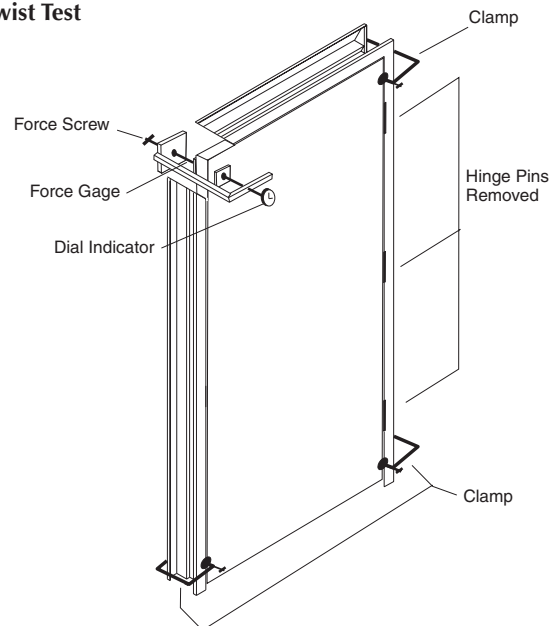
DOOR FACE SHEET MSG (GAGE)	MINIMUM THICKNESS		ANSI A250-4 & 5 - PERFORMANCE LEVELS			
	IP (")	SI (MM)	250,000	500,000	1,000,000	2,000,000
20	.032	0.8	●	●		
18	.042	1.0	●	●	●	●
16	.053	1.3	●	●	●	
16	.067	1.7	●	●	●	

TWIST TEST: During the Swing Test, a 300# load is applied to the upper lock edge corner of the door to gauge the door's ability to resist permanent deflection. Frequency: Before test begins, then at 25,000 cycles, 50,000 cycles, 75,000 cycles, 100,000 cycles and every 50,000 cycles until the test is completed.

Swing Test



Twist Test



Windstorm (Hurricane)

Product Matrix Listed by Swing, Size and Design Pressure

Ceco Door Products offers a broad range of products tested and approved for use in coastal areas subject to windstorms (hurricanes force winds). Specific commercial hardware requirements exist for windstorm-tested products. Contact Ceco, or your Ceco Distributor, for information on hardware requirements. The following chart is not all inclusive.

DESIGN PRESSURE (PSF)	ORIENTATION	DOORS				MAXIMUM SIZE (W X H)	FRAMES		
		CORE CONSTRUCTION	GAGE	STYLE	SWING		GAGE	CONSTRUCTION	FRAME ANCHORS
+65-85	In-swing	Honeycomb or Polystyrene	18	Flush or 6 panel Embossed	Single	3'0" x 7'0"	16	Welded	Masonry Wire, Wood & Metal Stud EWA-Masonry EWA-Lag Bolt
±70	In-swing	Honeycomb	16	Flush or 6 panel Embossed	Single	3'0" x 7'0"	16	Welded	Masonry T, EWA-Masonry or EWA-Lag Bolt
±60	Out-swing	Polystyrene	16	Flush	Single	3'0" x 7'0"	16	KD or Welded	Masonry T, EWA-Masonry or EWA-Lag Bolt
±60	Out-swing	Honeycomb	18	Flush	Single	3'0" x 7'0"	16	KD or Welded	Masonry T, EWA-Masonry or EWA-Lag Bolt
±70	Out-swing	Honeycomb	16	Flush or 6 panel Embossed	Single	3'0" x 7'0"	16	Welded	Masonry T, EWA-Masonry or EWA-Lag Bolt
±72	Out-swing	Polystyrene	18	Flush or Half Light (24" max w 32" max H)	Single	3'0" x 7'0"	16	KD or Welded	Masonry T, EWA-Masonry or EWA-Lag Bolt
±80	Out-swing	Polystyrene	18	Flush	Single	3'0" x 7'0"	16	KD or Welded	Masonry T, EWA-Masonry or EWA-Lag Bolt
+85-60	Out-swing	Honeycomb	18	Flush	Single	3'0" x 7'0"	16	KD or Welded	Masonry T, EWA-Masonry or EWA-Lag Bolt
±85	Out-swing	Polystyrene	18	Flush	Single	3'0" x 7'0"	16	KD or Welded	Masonry T, EWA-Masonry or EWA-Lag Bolt
±85	Out-swing	Honeycomb or Polystyrene	18	Flush or 6 panel Embossed	Single	3'0" x 7'0"	16	Welded	Masonry Wire, Wood & Metal Stud EWA-Masonry EWA-Lag Bolt
±100	Out-swing	Polystyrene	18	Flush	Single	3'0" x 7'0"	16	KD or Welded	Masonry T, EWA-Masonry or EWA-Lag Bolt
±50	Out-swing	Polystyrene	16	Up to Full Louver Doors	Single	4'0" x 8'0"	16	KD or Welded	Masonry T, EWA-Masonry or EWA-Lag Bolt
+53-45	Out-swing	Honeycomb	18	Flush	Single	4'0" x 7'0"	16	KD or Welded	Masonry T, EWA-Masonry or EWA-Lag Bolt
±57	Out-swing	Steel-Stiffened	16	Flush	Single	4'0" x 7'0"	16	KD or Welded	Masonry T, EWA-Masonry or EWA-Lag Bolt
±62	Out-swing	Steel-Stiffened	16	Flush	Single	4'0" x 7'0"	16	KD or Welded	Masonry T, EWA-Masonry or EWA-Lag Bolt
±65	Out-swing	Honeycomb or Polystyrene	18	Flush or Vision Light (max 100 in ²) or 6 panel embossed	Single	4'0" x 7'0"	16	Welded	Masonry Wire, Wood & Metal Stud EWA-Masonry EWA-Lag Bolt
±75	Out-swing	Steel-Stiffened	16	Flush	Single	4'0" x 7'0"	16	KD or Welded	Masonry T, EWA-Masonry or EWA-Lag Bolt
±85	Out-swing	Steel-Stiffened	16	Flush	Single	4'0" x 7'0"	16	KD or Welded	Masonry T, EWA-Masonry or EWA-Lag Bolt
+45-40	Out-swing	Steel-Stiffened	18	Flush	Pair	6'0" x 7'0"	16	KD or Welded	Masonry T, EWA-Masonry or EWA-Lag Bolt
±45	Out-swing	Steel-Stiffened	18	Flush	Pair	6'0" x 7'0"	16	KD or Welded	Masonry T, EWA-Masonry or EWA-Lag Bolt
±50	Out-swing	Polystyrene	16	Up to Full Louver Doors	Pair	8'0" x 7'0"	16	KD or Welded	Masonry T, EWA-Masonry or EWA-Lag Bolt
±60	Out-swing	Polystyrene	16	Flush	Pair	6'0" x 7'0"	16	KD or Welded	Masonry T, EWA-Masonry or EWA-Lag Bolt
±62	Out-swing	Steel-Stiffened	16	Flush	Pair	8'0" x 7'0"	16	KD or Welded	Masonry T, EWA-Masonry or EWA-Lag Bolt
±65	Out-swing	Honeycomb or Polystyrene	18	Flush or Vision Light (max 100 in 2) or 6 panel embossed	Pair	8'0" x 7'0"	16	Welded	Masonry Wire, Wood & Metal Stud EWA-Masonry EWA-Lag Bolt
+65-85	Out-swing	Honeycomb or Polystyrene	18	Flush or Vision Light (max 100 in 2) or 6 panel embossed	Pair	8'0" x 7'0"	16	Welded	Masonry Wire, Wood & Metal Stud EWA-Masonry EWA-Lag Bolt
±75	Out-swing	Steel-Stiffened	16	Flush	Pair	8'0" x 7'0"	16	KD or Welded	Masonry T, EWA-Masonry or EWA-Lag Bolt

Standard Door Sizes



Door Thickness 1-3/4" (44.4mm) Unless Noted

- A Regent®/Omega®, Legion/Ultra, Imperial Maxim® /Versadoor®, Marine-Tech®
- B Medallion®, Medallion Maxim®
- C RestrictDor® 2" (50.8mm) thickness, Armorshield®, ThruLite®, Fuego®, Stainless-Tech®, Sound-Tech®, StormPro®
- D Madera®

Door Opening Width	DOOR OPENING HEIGHT								DOORS OVER 10'0" HEIGHT
	6'8" (2032mm)	6'10" (2083mm)	7'0" (2134mm)	7'2" (2184mm)	7'10" (2388mm)	8'0" (2438mm)	9'0" (2743mm)	10'0" (3084mm)	
2'0" (610mm)	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D			
2'4" 711mm)	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D			
2'6" (762mm)	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D			
2'8" (813mm)	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D			
2'10" (864mm)	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D			
3'0" (914mm)	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D	A, B	B	
3'4" (1016mm)	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D	A, B	B	
3'6" (1067mm)	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D	A, B, C, D	A, B	B	
3'8" (1118mm)	A, B, C	A, B, C	A, B, C	A, B, C	A, B, C	A, B, C	A, B	B	
3'10" 1168mm)	A, B, C	A, B, C	A, B, C	A, B, C	A, B, C	A, B, C	A, B	B	
4'0" (1219mm)	A, B, C	A, B, C	A, B, C	A, B, C	A, B, C	A, B, C	A, B	B	
5'0" (1524mm)								B	B
DOORS OVER 5'0" WIDE								B	B

Sizes shown are for single doors. Use twice the width for pairs of doors.

Relative Pricing of Doors and Frames

Doors

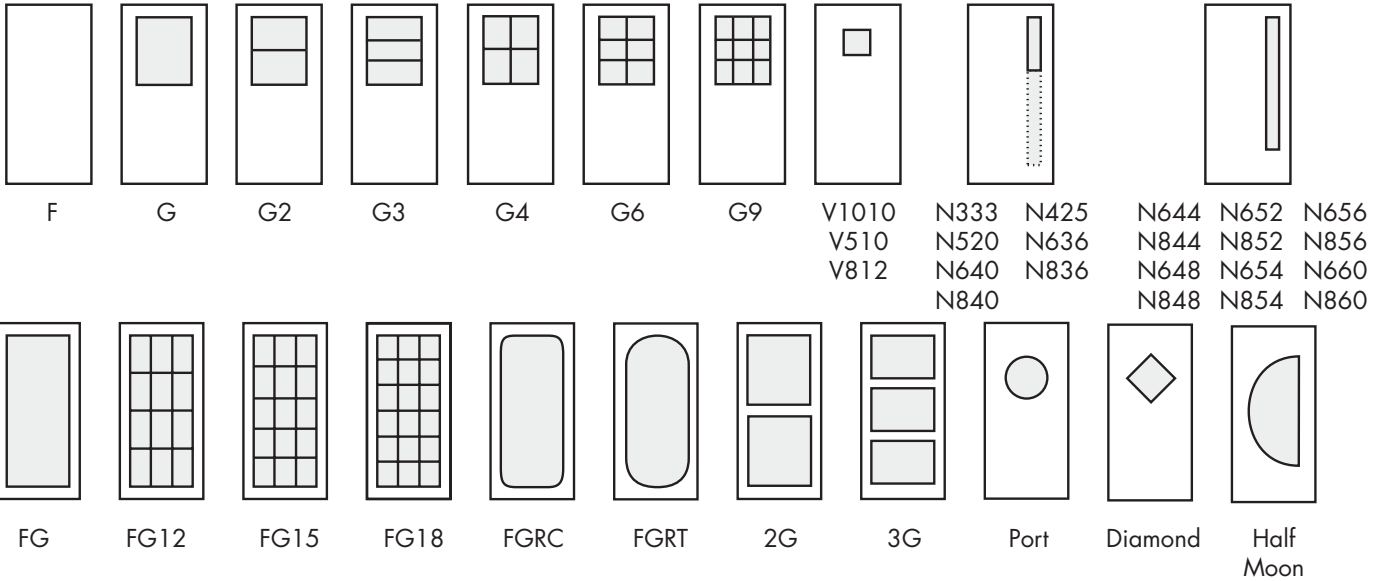
The price of a standrad flush (F) design, Regent door was a used as a base 1.00. Doors are 18 gage unless otherwise noted.

Frames

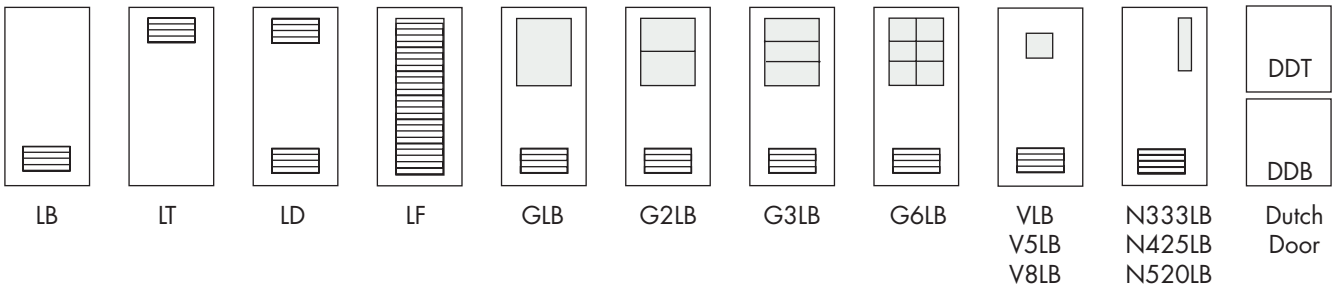
The price of a 5-3/4" depth, Series SU, 3'0" x 7'0" size was used as base 1.00. Frames are 16 gage.

DOOR	FACTOR	DOOR	FACTOR	FRAME	FACTOR
<i>Regent</i>	1.00	<i>Medallion</i>	1.25	Series SU 5-3/4"	1.00
<i>Regent</i> 20 gage	0.90	<i>Medallion</i> 16 gage	1.39	Series SU 5-3/4" Labeled Fire Frame	1.10
<i>Omega</i>	1.02	<i>Medallion</i> 450° Fire Door	1.45	Series SQ 5-3/4"	1.00
<i>Regent</i> Labeled Fire Door	1.11	<i>Fuego</i> 250° Fire Door	1.56	Series DU 5-3/4"	1.12
<i>Regent</i> 1/2 Glass Design	1.37	<i>ThruLite</i> 16 gage Full Glass	2.24	Series DQ 5-3/4"	1.61
<i>Legion</i>	1.10	<i>Sound-Tech</i> STC50	15.88	Series SQW 5-3/4" Weatherstrip	1.61
<i>Legion</i> 20 gage	1.00	<i>Stainless-Tech</i>	8.34	CCA 5-1/4" Custom Profile	1.31
<i>UltraDor</i>	1.09	<i>StormPro</i> 361	5.53	CCA 6-1/4" Custom Profile	1.43
<i>Imperial</i>	1.22	<i>ArmorShield</i> 16 Gage	3.88	CCC 5-3/4" Custom Profile	1.31
<i>Imperial</i> 1/2 Glass Design	1.59	<i>RestrictDor</i> 14 Gage	3.16	CCC 6-1/4" Custom Profile	1.43
<i>VersaDoor</i>	1.25	<i>Marine-Tech</i> 16 Gage	1.66	SQT 5-3/4" Thermal Break	4.17

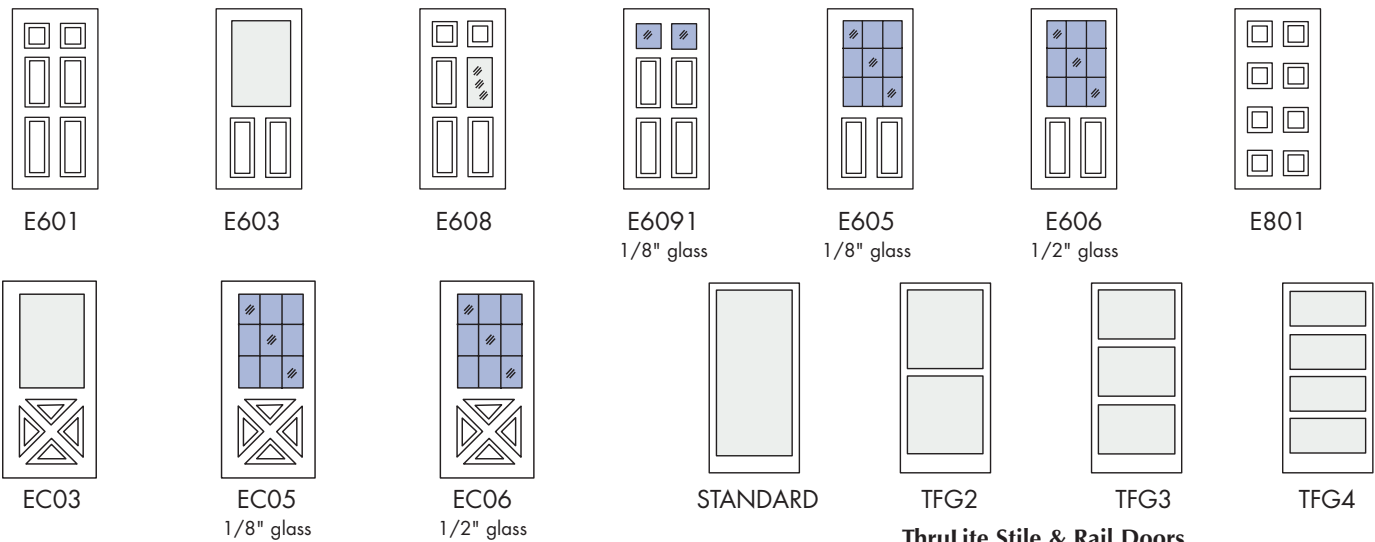
Flush Doors and Doors with Windows



Doors and Louvers



Embossed Panel Doors





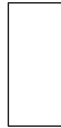










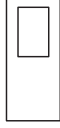

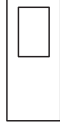
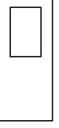
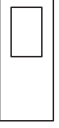


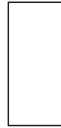



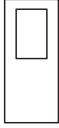
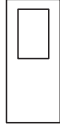
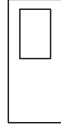
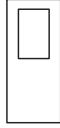
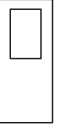
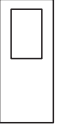

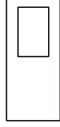

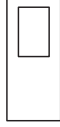

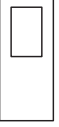
ThruLite Stile & Rail Doors

 Indicates door with glass lite kit installed for field glazing

 Indicates molded polystyrene plastic glass kit with glass installed as indicated

Fire Door Labeling



LABEL	OPENING	RATING	GLASS	DOOR SERIES					
				REGENT® OMEGA®	LEGION ULTRADOR	IMPERIAL® VERSADOOR®	MEDALLION®	MEDALLION® 450°	FUEGO® 250°
A	Walls separating buildings or walls dividing a building into fire zones	3 hr (180 min.)	Special glazing See page 44						
B	Enclosures of vertical communication, stairwells, elevator shafts	1-1/2 hr (90 min.)	100 square inches per door leaf						
C	Corridors and room partitions	3/4 hr (45 min.)	1296 square inches per lite with no dimension larger than 54" minimum 6" stile						
D	Exterior walls subject to severe fire exposure from outside	1-1/2 hr (90 min.)	None						
E	Exterior walls subject to light or moderate fire exposure from outside	3/4 hr (45 min.)	1296 square inches per lite						
F	Openings between living quarters and corridors where smoke is primary concern	1/3 hr (20 min.)	1296 square inches per lite						

Note: Always reference the most recent edition of ANSI NFPA 80 - Fire Doors and Fire Windows

Temperature-rise Rated Doors

Temperature-rise rated doors allow people to pass by the door safely when fire is on the other side. When an opening is required to retard the transmission of heat from one area to an adjacent area, a temperature-rise rated door is required. These doors are typically required in locations such as stairwell access doors, electrical control rooms, paint storage, etc. Temperature-rise designations indicate the maximum rise in temperature above ambient on the non-fire side of the door during the first 30 minutes of exposure in a standard fire test.

Ceco manufactures two types of temperature-rise rated fire doors.

- Medallion 450° is a temperature-rise rated door which allows the unexposed side of the door to reach a maximum of 450° during the first 30 minutes of testing
- Fuego is a 250° temperature-rise rated door which will allow the unexposed side of the door to reach a maximum of 250° during the first 30 minutes of testing

Fire Doors

With Vision Panel Trim

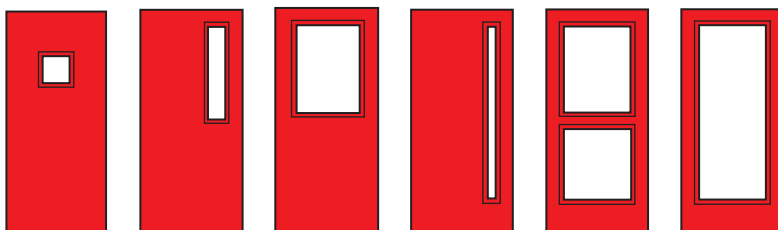
DOOR MODEL	AGENCY	HOURLY RATING (MAXIMUM)	TEMP RISE F° DEGREES	MAX GLAZED AREA (SQ., IN.)	MAX GLAZED AREA (SQ., MM.)	DOOR MODEL	AGENCY	HOURLY RATING (MAXIMUM)	TEMP RISE F° DEGREES	MAX GLAZED AREA (SQ., IN.)	MAX GLAZED AREA (SQ., MM.)
RI, OI, LS, US, IU, VU, MS	UL/WH	3*	NTR	100/door	2540/door	FT	UL/WH	3*	250	100/door	2540/door
RI, OI, LS, US, IU, VU, MS	UL/WH	2*	NTR	1296/lite	32918/door	FT	UL/WH	2*	250	100/door	2540/door
RI, OI, LS, US, IU, VU, MS	UL/WH	1-1/2	NTR	100/door	2540/door	FT	UL/WH	2*	NTR	1296/door	32918/lite
MB4	UL/WH	1-1/2	450	100/door	2540/door	FT	UL/WH	1-1/2	250	100/door	2540/door
RI, OI, LS, US, IU, VU, MS	UL/WH	1-1/2	NTR	1296/lite	32918/lite	FT	UL/WH	1-1/2	NTR	1296/lite	32918/lite
MS	UL/WH	1	NTR	100/door	2540/door	FT	UL/WH	1	250	100/door	2540/door
MB4	UL/WH	3/4	450	100/door	2540/lite	FT	UL/WH	1*	NTR	1296/door	32918/lite
MS	UL/WH	1*	NTR	100/door	2540/door	FT	UL/WH	3/4	250	100/door	2540/door
RI, OI, LS, US, IU, VU	UL/WH	3/4	NTR	1296/lite	32918/lite	FT	UL/WH	3/4	NTR	1296/lite	32918/lite
MB4	UL/WH	3/4	450	100/door	2540/lite	FT	UL/WH	3/4*	NTR	2856/lite	72542/lite
RI, OI, LS, US, IU, VU	UL/WH	3/4	NTR	2856/lite	72542/lite	FT	UL/WH	1/3	NTR	1296/lite	32918/lite
MS	WH	3/4	NTR	2880/lite	73152/lite	FT	UL/WH	1/3	NTR	2856/lite	72542/lite
RI, OI, LS, US, IU, VU	UL/WH	1/3	NTR	1296/lite	32918/lite	FT	UL/WH	1/3*	NTR	2971/lite	75463/lite
RI, OI, LS, US, IU, VU, MS	UL/WH	1/3	NTR	2856/lite	72542/lite	FT	UL/WH	1/3 no hose	NTR	1296/lite	32918/lite
MS	UL	1/3 no hose	NTR	2880/lite	73152/lite	TX	UL/WH	3/4	NTR	2842/lite	72187/lite
MS	WH	1/3*	NTR	2880/lite	73152/lite	TX	UL/WH	3/4*	NTR	2842/lite	72187/lite
RI, OI, LS, US, IU, VU	UL/WH	1/3 no hose	NTR	2971/lite	75463/lite						

*Requires special glazing

CECO LABELED STEEL FRAMES: e.g., standard, custom, slip-on drywall, Dutch, double egress, communicating, multiple door opening, transom, sidelite, fire windows — are available for rated walls and all the above doors. Ask for details.

RI or OI = Regent or Omega, LS or US = Legion or UltraDor, IU or VU = Imperial or VersaDoor, MS = Medallion, MB4 = Medallion 450°, TX = ThruLite, FT = Fuego

Designs



Glass and glazing are not included.



With Single Point Latching

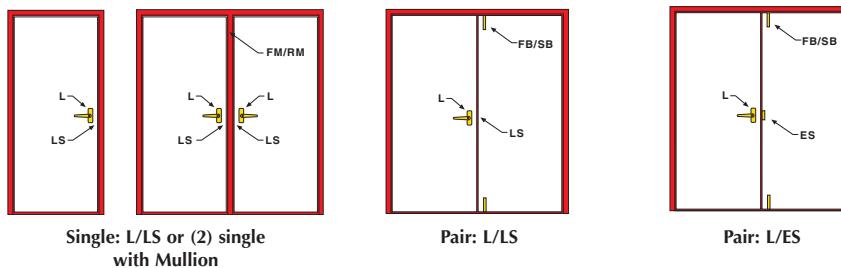
DOOR	AGENCY	HOURLY RATING (MAXIMUM)	FACE SHEET GAGE	FACE SHEET MM	UL 10B				UL 10C				ASTRAGAL	MEMO
					MAX WIDTH (FT.IN.)	MAX WIDTH (MM)	MAX HEIGHT (FT.IN.)	MAX HEIGHT (MM)	MAX WIDTH (FT.IN.)	MAX WIDTH (MM)	MAX HEIGHT (FT.IN.)	MAX HEIGHT (MM)		
RO or OI	UL/WH	3	16, 18	1.3, 1.0	4.0	1219.2	9.0	2743.2	4.0	1219.2	9.0	2743.2	—	LS
RO or OI	UL	1-1/2	20	0.8	3-4	1016.0	7-2	2184.4	3-4	1016.0	7-2	2184.4	—	LS
RO or OI	WH	1-1/2	20	0.8	4-0	1219.2	8-0	2438.4	4-0	1219.2	8-0	2438.4	—	LS
FT	UL	3	16, 18	1.3, 1.0	4-0	1219.2	9-0	2743.2	4-0	1219.2	9-0	2743.2	—	LS
FT	UL/WH	3	20	0.8	4-0	1219.2	8-0	2438.4	4-0	1219.2	8-0	2438.4	—	LS
FT	WH	3	16, 18	1.3, 1.0	4-0	1219.2	9-0	2743.2	4-0	1219.2	9-0	2743.2	—	LS
MS	UL	3*	14	1.7	4-0	1219.2	9-0	2743.2	4-0	1219.2	9-0	2743.2	—	LS
MS	UL	3*	16, 18	1.3, 1.0	4-0	1219.2	10-0	3048.0	4-0	1219.2	10-0	3048.0	—	LS
MS	WH	3*	14, 16, 18	1.7, 1.3, 1.0	4-0	1219.2	9-0	2743.2	4-0	1219.2	8-0	2438.4	—	LS
TX	UL/WH	3/4	16, 18	1.3, 1.0	4-0	1219.2	9-0	2438.4	4-0	1219.2	8-0	2438.4	—	LS
IU or VU	UL/WH	3	14, 16, 18	1.7, 1.3, 1.0	4-0	1219.2	8-0	2438.4	4-0	1219.2	7-0	2133.6	—	LS
IU or VU	UL/WH	1-1/2	20	0.8	4-0	1219.2	8-0	2438.4	4-0	1219.2	7-0	2133.6	—	LS
RO or OI	UL/WH	1-1/2	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.2	8-0	2438.4	9-0	2743.2	Optional	LS
RO or OI	UL/WH	3	16, 18	1.3, 1.0	8-0	2438.4	8-0	2438.4	8-0	2438.4	8-0	2438.4	Required	LS
RO or OI	UL/WH	1-1/2	20	0.8	6-0	1828.8	7-0	2133.6	6-0	1828.8	7-0		Required	LS
RO or OI	UL/WH	1-1/2	20	0.8	8-0	2438.4	8-0	2438.4	8-0	2438.4	8-0	2438.4	Required	LS
FT	UL	1-1/2	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.2	8-0	2438.4	9-0	2743.2	Optional	LS
FT	WH	3	20	0.8	7-4	2235.2	7-2	2184.4	7-4	2235.2	7-2	2184.4	Required	LS
FT	UL	3	16, 18	1.3, 1.0	7-4	2235.2	9-0	2743.2	7-4	2235.2	9-0	2743.2	Required	LS
FT	UL/WH	1-1/2	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.2	8-0	2438.4	9-0	2743.2	Required	LS
FT	WH	1-1/2	20	0.8	8-0	2438.4	8-0	2438.4	8-0	2438.4	8-0	2438.4	Required	LS
FT	WH	3	16, 18	1.3, 1.0	7-4	2235.2	9-0	2743.2	7-4	2235.2	8-0	2438.4	Required	LS
MS	UL	1-1/2	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.2	8-0	2438.4	9-0	2743.2	Optional	LS
MS	UL	3*	16, 18	1.3, 1.0	8-0	2438.4	10-0	3048.0	8-0	2438.4	10-0	3048.0	Required	LS
MS	UL/WH	3*	14	1.7	8-0	2438.4	9-0	2743.2	8-0	2438.4	9-0	2743.2	Required	LS
MS	WH	3*	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.2	8-0	2438.4	9-0	2743.2	Optional**	LS
TX	UL/WH	3/4	16	1.3	8-0	2438.4	8-0	2438.4	8-0	2438.4	8-0	2438.4	Optional	LS
IU or VU	UL/WH	1-1/2	16, 18, 20	1.3, 1.0, .08	8-0	2438.4	8-0	2438.4	8-0	2438.4	8-0	2438.4	Optional	LS
IU or VU	UL/WH	3	16, 18	1.3, 1.0	8-0	2438.4	8-0	2438.4	8-0	2438.4	8-0	2438.4	Required	LS
RO or OI	UL/WH	1-1/2	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.2	8-0	2438.4	9-0	2743.4	Optional	ES
RO or OI	UL/WH	3	16, 18	1.3, 1.0	6-0	1828.8	7-2	2184.4	6-0	1828.8	7-2	2184.4	Required	ES
MS	UL/WH	1-1/2	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.0	8-0	2438.4	9-0	2743.2	Optional	ES
MS	UL	3*	16, 18	1.3, 1.0	6-0	1828.8	7-2	2164.4	6-0	1828.8	7-2	2184.4	Required	ES
MS	UL	3*	16, 18	1.3, 1.0	6-0	1828.8	7-2	2784.2	6-0	1828.8	7-2	2184.4	Optional**	ES

L = Latch, LS = Latch Strike, ES = Electric Strike, FS/SB = Flush or Surface Bolts, F/M = Fixed or Removable Mullion, OPT = Optional, REQ'D = Required, STD SWG = Standard Swing

* Medallion 450° temperature rise door maximum rating is 1-1/2 hours

** Local codes may require astragal for 3 hour pairs.

RI or OI = Regent or Omega, LS or US = Legion or UltraDor, IU or VU = Imperial or Versadoor, MS = Medallion, MB4 = Medallion 450°, TX = ThruLite, FT = Fuego



FIRE DOORS

Fire Doors With Fire Exit Hardware

DOOR	AGENCY	HOURLY RATING (MAXIMUM)	FACE SHEET GAGE	FACE SHEET MM	UL 10B				UL 10C				ASTRAGAL	MEMO
					MAX WIDTH (FT.IN.)	MAX WIDTH (MM)	MAX HEIGHT (FT. IN.)	MAX HEIGHT (MM)	MAX WIDTH (FT.IN.)	MAX WIDTH (MM)	MAX HEIGHT (FT. IN.)	MAX HEIGHT (MM)		
RI or OI, LS or US	UL/WH	3	16, 18	1.3, 1.0	4-0	1219.2	9-0	2743.2	4-0	1219.2	9-0	2743.2	—	LS
RI or OI, LS or US	UL	1-1/2	20	0.8	3-4	1016.0	7-2	2184.4	3-4	1016.0	7-2	2184.4	—	LS
RI or OI, LS or US	WH	1-1/2	20	0.8	4-0	1219.2	8-0	2438.4	4-0	1219.2	8-0	2438.4	—	LS
FT	UL	3	16, 18	1.3, 1.0	4-0	1219.2	9-0	2743.2	4-0	1219.2	9-0	2743.2	—	LS
FT	UL/WH	3	20	0.8	4-0	1219.2	8-0	2438.4	4-0	1219.2	8-0	2438.4	—	LS
FT	WH	3	16, 18	1.3, 1.0	4-0	1219.2	9-0	2743.2	4-0	1219.2	8-0	2438.4	—	LS
MS	UL	3*	14	1.7	4-0	1219.2	9-0	2743.2	4-0	1219.2	9-0	2743.2	—	LS
MS	UL	3*	16, 18	1.3, 1.0	4-0	1219.2	10-0	3048.0	4-0	1219.2	10-0	3048.0	—	LS
MS	WH	3*	14, 16, 18	1.7, 1.3	4-0	1219.2	9-0	2743.2	4-0	1219.2	9-0	2743.2	—	LS
TX	UL/WH	3/4	16, 18	1.3, 1.0	4-0	1219.2	8-0	2438.4	4-0	1219.2	8-0	2438.4	—	LS
IU or VU	UL/WH	3	14, 16, 18	1.7, 1.3	4-0	1219.2	8-0	2438.4	4-0	1219.2	7-0	2133.6	—	LS
IU or VU	UL/WH	1-1/2	20	0.8	4-0	1219.2	8-0	2438.4	4-0	1219.2	7-0	2133.6	—	LS
RI or OI, LS or US	UL/WH	1-1/2	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.2	8-0	2438.4	9-0	2743.2	Optional	LS or ES
RI or OI, LS or US	UL/WH	3	16, 18	1.3, 1.0	6-0	1828.8	7-2	2184.2	8-0	1828.8	7-2	2184.2	Required	ES
RI or OI, LS or US	UL/WH	3	16, 18	1.3, 1.0	8-0	2438.4	8-0	2438.4	6-0	2438.4	8-0	2438.4	Required	LS
RI or OI, LS or US	UL/WH	1-1/2	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.2	8-0	2438.4	9-0	2743.2	Optional	OBS
RI or OI, LS or US	UL	1-1/2	20	0.8	8-0	2438.4	8-0	2438.4	8-0	2438.4	8-0	2438.4	Optional	LS
FT	WH	1-1/2	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.2	8-0	2438.4	9-0	2438.4	Required	LS
FT	UL	1-1/2	20	0.8	8-0	2438.4	8-0	2438.4	8-0	2438.4	8-0	2438.4	Required	LS
FT	UL/WH	3	16, 18	1.3, 1.0	7-4	2235.2	9-0	2743.2	7-4	2235.2	9-0	2743.2	Required	LS
FT	WH	3	20	0.8	7-4	2235.2	7-2	2184.2	7-4	2235.2	7-0	2184.2	Required	LS
FT	WH	1-1/2	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.2	8-0	2235.2	8-0	2438.4	Required	LS
FT	UL	3	16, 18	1.3, 1.0	7-4	2235.2	9-0	2743.2	7-4	2438.4	9-0	2743.2	Optional	LS
MS	UL	1-1/2	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.2	8-0	2235.2	9-0	2743.2	Optional	LS
MS	UL/WH	3	16, 18	1.3, 1.0	8-0	2438.4	10-0	3048.0	8-0	2438.4	10-0	3048.4	Required	LS
MS	WH	3	14	1.7	8-0	2438.4	9-0	2743.2	8-0	2438.4	9-0	2743.2	Required	LS
MS	WH	1-1/2	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.2	8-0	2438.4	9-0	2743.2	Optional	ES
MS	WH	3	16, 18	1.3, 1.0	6-0	1828.4	7-0	2184.2	6-0	1828.8	7-2	2184.2	Required	ES
MS	WH	1-1/2	16, 18	1.3, 1.0	8-0	2438.4	8-0	2438.4	8-0	2438.4	8-0	2438.4	Optional	OBS
MS	WH	1-1/2	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.2	8-0	2438.4	9-0	2743.2	Optional	LS or ES
MS	WH	3*	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.2	8-0	2438.4	9-0	2743.2	Optional	LS
MS	WH	3*	16, 18	1.3, 1.0	6-0	1828.8	7-2	2184.2	6-0	1828.8	7-2	2184.2	Optional	ES
MS	UL/WH	1-1/2	14	1.7	8-0	2438.4	8-0	2438.4	8-0	2438.4	8-0	2438.4	Required	OBS

RI or OI = Regent or Omega, LS or US = Legion or UltraDor, IU or VU = Imperial or Versadoor, MS = Medallion, MB4 = Medallion 450°, TX = ThruLite, FT = Fuego
 * Medallion 450° temperature rise door maximum rating is 1-1/2 hours

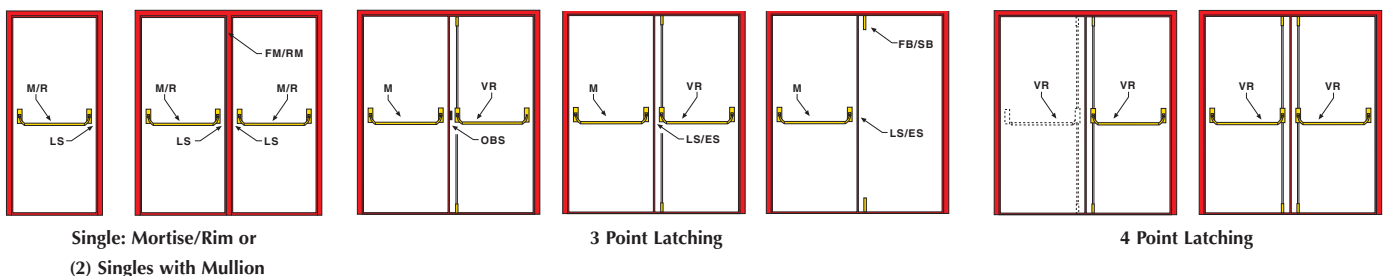


With Fire Exit Hardware

DOOR	AGENCY	HOURLY RATING (MAXIMUM)	FACE SHEET GAGE	FACE SHEET MM	UL 10B				UL 10C				ASTRAGAL	MEMO
					MAX WIDTH (FT.IN.)	MAX WIDTH (MM)	MAX HEIGHT (FT. IN.)	MAX HEIGHT (MM)	MAX WIDTH (FT.IN.)	MAX WIDTH (MM)	MAX HEIGHT (FT. IN.)	MAX HEIGHT (MM)		
TX	UL/WH	3/4	16	1.3	8.0	2438.4	8-0	2438.4	8-0	2438.4	8-0	2438.4	Optional	LS orES
TX	UL/WH	3/4	16	1.3	8.0	2438.4	8-0	2438.4	8-0	2438.4	8-0	2438.4	Optional	OBS
IU or VU	UL/WH	1-1/2	20	20	8.0	2438.4	8-0	2438.4	8-0	2438.4	7-0	2133.6	Optional	LS
IU or VU	UL/WH	3	16, 18	1.3, 1.0	8.0	2438.4	8-0	2438.4	8-0	2438.4	7-0	2133.6	Required	LS
IU or VU	UL/WH	1-1/2	16, 18	1.3, 1.0	8.0	2438.4	9-0	2743.2	8-0	2438.4	7-0	2133.6	Optional	VR
IU or VU	UL/WH	1-1/2	16, 18	1.3, 1.0	8.0	2438.4	8-0	2438.4	8-0	2438.4	7-0	2133.6	Optional	FB/SR
RI or OI, LS or US	UL/WH	1-1/2	16, 18	1.3, 1.0	8.0	2438.4	9-0	2743.2	8-0	2438.4	9-0	2743.2	N/A	STD SWG
RI or OI, LS or US	UL/WH	1-1/2	16, 18	1.3, 1.0	8.0	2438.4	9-0	2743.2	8-0	2438.4	9-0	2743.2	Optional	DE
RI or OI, LS or US	UL/WH	3*	16, 18	1.3, 1.0	8.0	2438.4	7-2	2184.2	8-0	2438.4	7-0	2184.2	Required	DE
RI or OI, LS or US	UL/WH	1-1/2	20	0.8	8.0	2438.4	8-0	2438.4	8-0	2438.4	8-0	2438.4	N/A	STD SWG
FT	UL	1-1/2	16, 18	1.3, 1.0	8.0	2438.4	9-0	2743.2	8-0	2438.4	9-0	2743.2	N/A	STD SWG
FT	UL/WH	1-1/2	20	0.8	8.0	2438.4	8-0	2438.4	8-0	2438.4	8-0	2743.2	N/A	STD SWG
FT	WH	1-1/2	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.2	8-0	2438.4	8-0	2438.4	N/A	STD SWG
FT	UL/WH	3	16, 18	1.3, 1.0	6-0	2438.4	8-0	2438.4	8-0	2438.4	8-0	2438.4	Required	DE
MS	UL	1-1/2	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.2	8-0	2438.4	9-0	2743.2	N/A	STD SWG
MS	UL	1-1/2	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.2	8-0	2438.4	9-0	2743.2	Optional	DE
MS	UL	3*	16, 18	1.3, 1.0	8-0	2438.4	10-0	3048.0	8-0	2438.4	10-0	3048.0	Required	DE
MS	WH	3*	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.2	8-0	2438.4	9-0	2743.2	N/A	STD SWG
MS	WH	3*	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.2	8-0	2438.4	9-0	2743.2	Optional	DE
TX	UL/WH	3/4	16	1.3	8.0	2438.4	8-0	2438.4	8-0	2438.4	8-0	2438.4	Optional	DE
TX	UL/WH	3/4	16	1.3	8.0	2438.4	8-0	2438.4	8-0	2438.4	8-0	2438.4	N/A	STD SWG
IU or VU	UL/WH	1-1/2	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.2	8-0	2438.4	7-0	2133.6	Optional	DE
IU or VU	UL/WH	3	16, 18	1.3, 1.0	8.0	2438.4	7-2	2184.2	8-0	2438.4	7-0	2133.6	Required	DE
IU or VU	UL/WH	1-1/2	16, 18	1.3, 1.0	8-0	2438.4	9-0	2743.2	8-0	2438.4	7-0	2133.6	N/A	STD SWG
IU or VU	WH	1-1/2	20	0.8	8.0	2438.4	8-0	2438.4	8-0	2438.4	7-0	2133.6	N/A	STD SWG

LS = Latch Strike, FB/SB = Flush or Surface Bolts, FM/RM = Fixed or Removable Mullion, M = Mortise FEH, VR = Vertical Rod FEH, OBS = Open Back Strike (M/VR), M/R = Mortise or Rim FEH, DE = Double Egress, STD SWG = Standard Swing, NA = Not Allowed.
 RI or OI = Regent or Omega, LS or US = Legion or UltraDor, IU or VU = Imperial or Versadoor, MS = Medallion, MB4 = Medallion 450°, TX = ThruLite, FT = Fuego

Latch Types



Two point latching (top rod only) is also available — 1-1/2 hour rating maximum.



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