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## Thermal Doors

- Series 400-T
- Series 550-T

### SECTION H4

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Project: AP Solis Middle School, Donna, TX

Due to the diversity in state/provincial, local, and federal laws and codes that govern the design and application of architectural products, it is the responsibility of the individual architect, owner, and installer to ensure that products selected for use on projects comply with all applicable building codes and laws. U.S. Aluminum exercises no control over the use or application of its products, glazing materials, and operating hardware, and assumes no responsibility thereof.

The rapidly changing technology within the architectural aluminum products industry demands that U.S. Aluminum reserve the right to revise, discontinue or change any product line, specification or electronic media without prior written notice.

**NOTE:** Dimensions in parentheses ( ) are millimeters unless otherwise noted.

Other metric units shown in this publication are:

m - meter

Kg - kilogram

Pa - pascal

KPa - kilopascal

MPa - megapascal

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# ENTRANCES



## Specifications

## Thermal Doors

- Series 400-T
- Series 550-T

### SECTION 08 11 16 ALUMINUM DOORS AND FRAMES

SERIES	STILES	TOP RAIL	BOTTOM RAIL	GLAZING INFILL
<b>400-T Medium Stile</b>	4-1/4" (108 mm)	4-5/16" (109.5 mm)	7-1/4" (184.2 mm)	1" (25)
<b>550-T Wide Stile</b>	5-1/2" (139.7)	6" (152.4)	7" (177.8)	1" (25)
A.D.A. Bottom Rail Option			10" (254)	

#### I. GENERAL DESCRIPTION

**Work Included:** The glazing contractor shall furnish all necessary materials, labor, and equipment for the complete installation of aluminum entrance doors, door frames, and hardware as detailed on the drawings and specified herein.

**Work Not Included:** Structural support of the framing system, wood framing, structural steel, masonry, and final cleaning.

#### QUALITY ASSURANCE

For purposes of designating type and quality for work in this section, drawings and specifications are based on U.S. Aluminum Series 400-T or 550-T Entrance Doors.

**OPTIONAL:** Door shall have ADA 10" (254) bottom rail.

When substitute products are to be considered, supporting technical literature, samples, and drawings must be submitted 10 days prior to bid date in order to make a valid comparison of the products involved.

#### II. PRODUCTS MATERIALS

Door members shall be extruded architectural aluminum 6063-T5 alloy and temper and joined together by a rigid thermal barrier. Major portions of all door sections, except glazing beads, shall be nominal .125 (3.2). Wall thickness of frame members shall be nominal .093 (2.4). Screws, nuts, washers, bolts, rivets, and other fastening devices shall be aluminum, stainless steel or other non-corrosive materials.

#### DOOR CONSTRUCTION

Door stiles and rails shall be aluminum

extrusions accurately joined by either a polyamide nylon thermal break or a polyurethane polymer thermal break and heavy concealed reinforcement brackets secured with bolts, screws, and then MIG welded. Doors shall have two hook on glass stops with E.P.D.M. glazing gasket on both sides of the glass. No exposed screws shall be permitted. Each door leaf shall be equipped with an adjusting mechanism, located in the top rail near the lock stile, which provides for minor clearance adjustments after installation.

A hard-backed poly-pile weatherstrip shall be installed in both stiles of center hung single doors and in hinge stiles of center hung pair of doors.

Offset pivoted or butt hung doors shall have weatherstripped door stops at frame jambs and header. The active meeting stile of all pairs of doors shall have an adjustable astragal with double line of weatherstripping.

**OPTIONAL:** Door bottom rail will be weathered with an E.P.D.M. blade gasket sweep strip applied with concealed fasteners. **(NOTE:** This option is required for high performance conditions.)

**OPTIONAL:** Door bottom rail shall receive a concealed weatherstripped insert.

#### HARDWARE

Hardware for aluminum doors and door frames shall be the entrance manufacturer's standard. If custom hardware is to be furnished by others, templates and physical hardware must be submitted prior to any fabrication.

#### FINISH

All exposed framing surfaces shall be

free of scratches and other serious blemishes. Aluminum extrusions shall be given a caustic etch followed by an anodic oxide treatment to obtain...

*(Specify one of the following):*

- \_\_\_\_\_ #11 Clear anodic coating
- \_\_\_\_\_ #22 Dark Bronze anodic coating
- \_\_\_\_\_ #33 Black anodic coating

A Fluoropolymer paint coating conforming with the requirements of AAMA 2605. Color shall be *(Specify a U.S. Aluminum standard color)*.

#### III. EXECUTION INSTALLATION

All items under this heading shall be set in their correct locations as shown in the details and shall be level, square, plumb and at proper elevation and in alignment with other work in accordance with the manufacturer's installation instructions and approved shop drawings. All joints between entrance framing and the building structure shall be sealed in order to secure a watertight installation. Upon completion of the installation of the entrances, it shall be the contractor's responsibility to make all necessary final adjustments to attain normal operation of each door and its mechanical hardware.

#### PROTECTION AND CLEANING

After installation the General Contractor shall adequately protect exposed portions of the aluminum entrance work from damage by grinding and polishing compounds, plaster, lime, acid, cement or other contaminants. The General Contractor shall be responsible for final cleaning.

## Technical Data

### Thermal Doors

- Series 400-T
- Series 550-T

Our Series 400-T and 550-T Thermal Entrances offer a two glass stop design, Polyamide Nylon Thermal Break on 400-T Series, and Polyurethane Polymer Thermal Break on 550-T Series, and mechanically fastened and welded corners, offering one of the best thermal properties available in commercial entrance doors. All doors offer clean lines and are supplied with unique Astral II push/pull hardware and maximum security locks. These entrances can easily accommodate a wide variety of custom hardware for specific job requirements. Optional 10" (254) bottom rail is available for A.D.A. requirements.

#### STANDARD FEATURES:

**Glass Stops** - Pressure type glass stop with E.P.D.M. glazing gaskets permit time saving installation of glass. Glass stops are for 1 inch (25) infills. Setting blocks for glass are preset at the factory.

**Adjustable Leveling Screw** - A simple adjustment on the leveling screw, concealed in the top rail of the door, compensates for minor variances in door openings after installation.

**Adjustable Astragal** - All pairs of doors come with spring-loaded fully adjustable dual weathered astragals for optimum air resistance. Binding or gaps at the meeting stiles can be easily corrected by simple adjustments. The full length dual weather stripping on the astragal is not interrupted by the deadlock.

#### ACCESSORIES:

##### Hinging Hardware

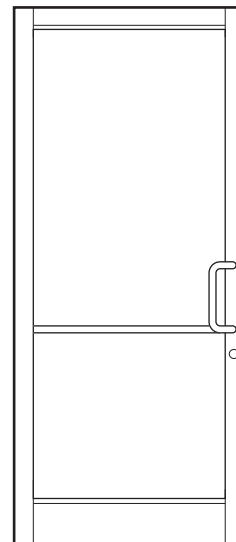
- Offset Pivots for single acting doors
- Butt Hinges for single acting doors

##### Closers

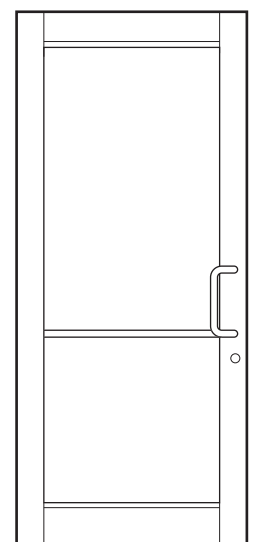
- Exposed Overhead (Surface Mounted)
- Concealed Overhead with Offset Arm
- Floor Mounted

##### Panic Exit Devices

- Conventional Push Panel



**Series 400-T**  
(Offset Hung Door Shown)



**Series 550-T**  
(Offset Hung Door Shown)

SERIES	STILES	TOP RAIL	BOTTOM RAIL	APPLICATION
<b>400-T Medium Stile</b>	4-1/4" (108 mm)	4-5/16" (109.5 mm)	7-1/4" (184.2 mm)	Moderate to Heavy Traffic
<b>550-T Wide Stile</b>	5-1/2" (139.7)	6" (152.4)	7" (177.8)	Heavy Traffic
A.D.A. Bottom Rail Option			10" (254)	A.D.A.

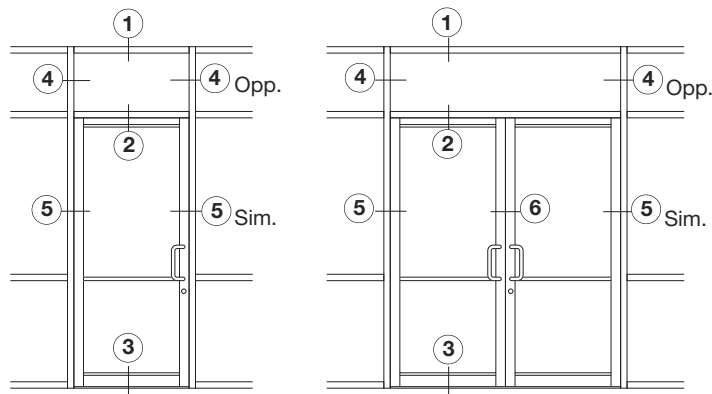
# ENTRANCES

## Typical Details

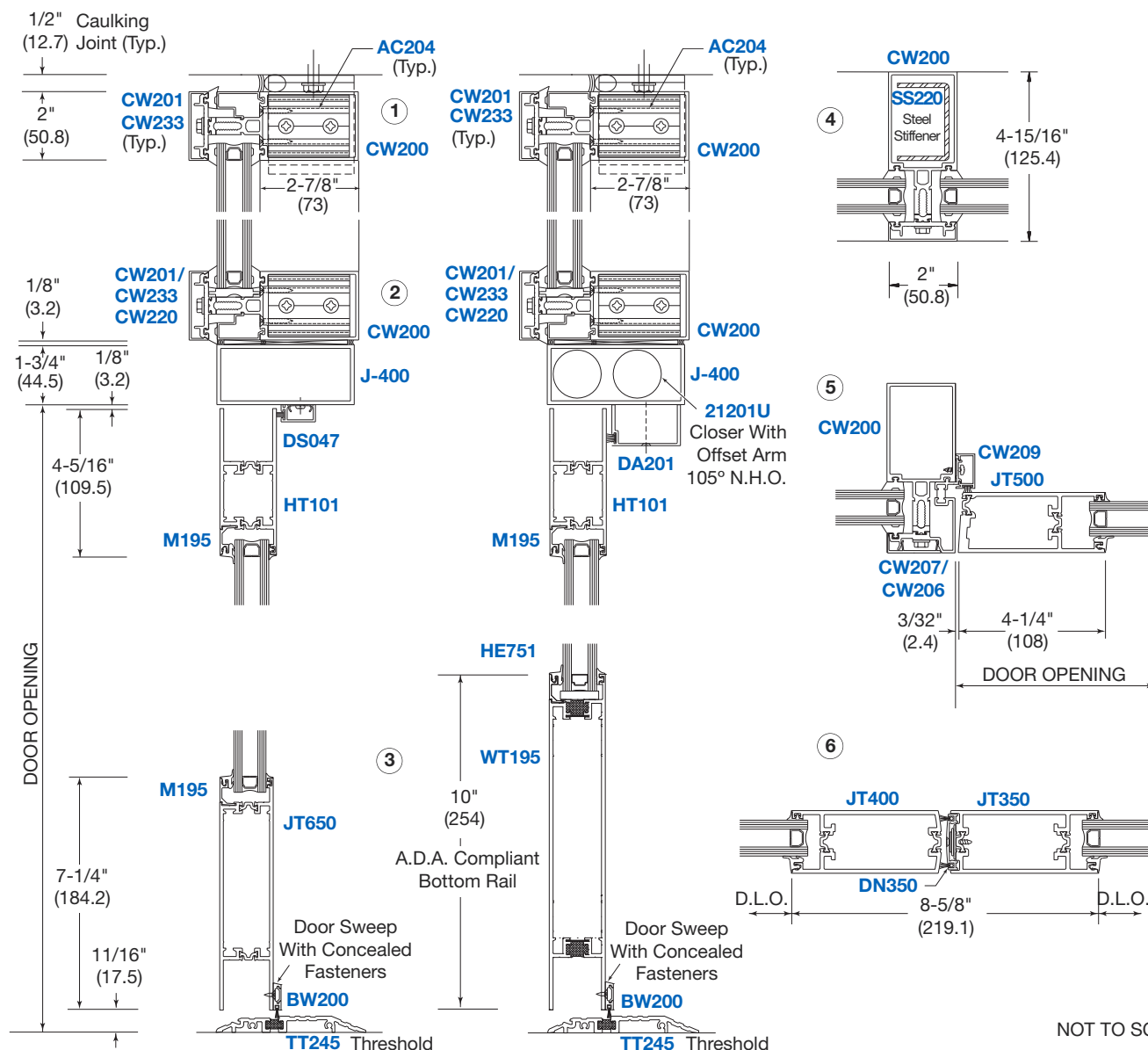
## Thermal Doors

• Series 400-T

**NOTE:** Series 400-T Medium  
 Stile Door Shown in Series 2200  
 Curtain Wall System. For Additional  
 Framing Details visit [usalum.com](http://usalum.com).



TYPICAL ELEVATIONS



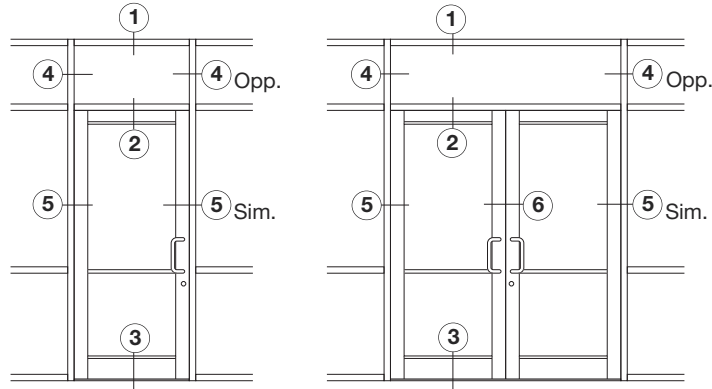
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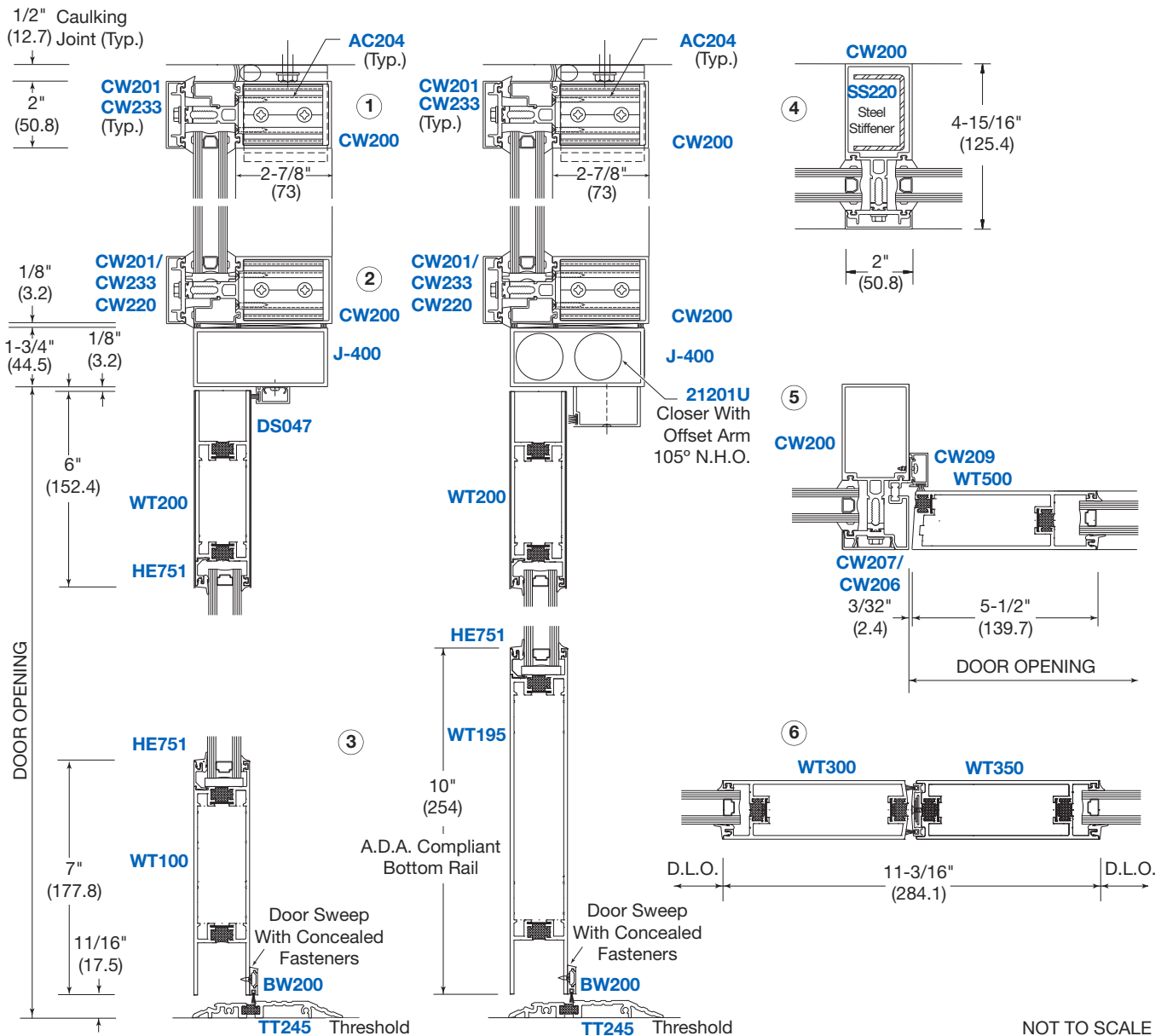
## Typical Details

## Thermal Doors • Series 550-T

**NOTE:** Series 550-T Wide Stile Door Shown in Series 2200 Curtain Wall System. For Additional Framing Details visit [usalum.com](http://usalum.com).



TYPICAL ELEVATIONS



NOT TO SCALE

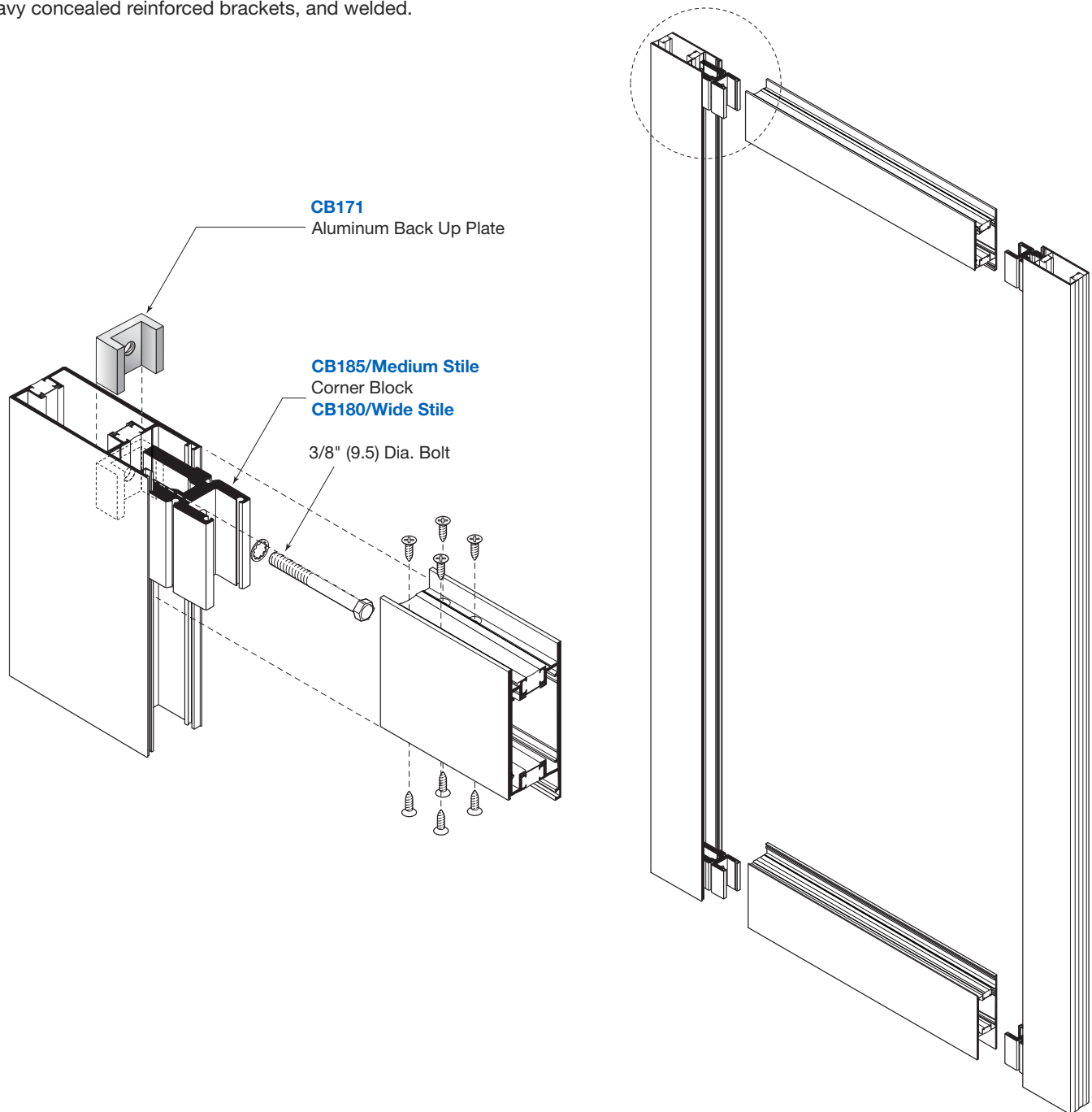
# ENTRANCES

## Door Corner Construction

### Thermal Doors

- Series 400-T
- Series 550-T

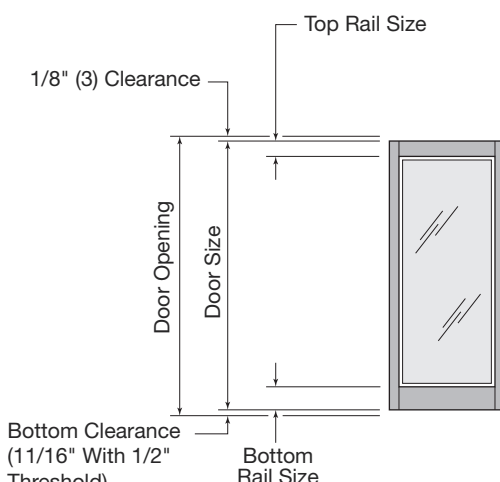
The Series 400-T Medium Stile is constructed with a Polyamide Nylon Thermal Break, and the 550-T Wide Stile is constructed with a Polyurethane Polymer Thermal Break Technology. The corners are accurately joined with heavy concealed reinforced brackets, and welded.



## Glass Formulas for Doors With Standard and A.D.A. Bottom Rails

### Thermal Doors

- Series 400-T
- Series 550-T

GLASS HEIGHT FORMULAS FOR RAIL COMBINATIONS AND SPECIAL HEIGHT DOORS	
<p><b>For 400-T Medium Stile Doors</b></p> <p><b>EXAMPLE 1:</b> 84" Door Opening Height with Butt Hinges or Offset Hinges and 1" (25) Glass: Standard Top Rail and 7-1/4" Bottom Rail with 1/2" Threshold.</p> <p><b>FORMULA:</b> <math>84" - [11-3/8"] = 72-5/8"</math> Glass Height Size.</p> <p><b>EXAMPLE 2:</b> 84" Door Opening Height with Butt Hinges or Offset Hinges and 1" (25) Glass: Standard Top Rail and 10" A.D.A. Bottom Rail with 1/2" Threshold.</p> <p><b>FORMULA:</b> <math>84" - [14-1/4"] = 69-7/8"</math> Glass Height Size.</p>	
<p><b>For 550-T Wide Stile Doors</b></p> <p><b>EXAMPLE 1:</b> 84" Door Opening Height with Butt Hinges or Offset Hinges and 1" (25) Glass: Standard Top Rail and 7" Bottom Rail with 1/2" Threshold.</p> <p><b>FORMULA:</b> <math>84" - [12-3/4"] = 71-1/4"</math> Glass Height Size.</p> <p><b>EXAMPLE 2:</b> 84" Door Opening Height with Butt Hinges or Offset Hinges and 1" (25) Glass: Standard Top Rail and 10" A.D.A. Bottom Rail with 1/2" Threshold.</p> <p><b>FORMULA:</b> <math>84" - [15-3/4"] = 68-1/4"</math> Glass Height Size.</p>	
<p><b>RAIL SIZES:</b></p> <p>HT201 2-7/8"</p> <p>HT101 4-5/16"</p> <p>WT200 6"</p> <p>WT100 7"</p> <p>WT195 10"</p>	<p><b>DOOR CLEARANCES:</b></p> <p>At Top Rail 1/8"</p> <p>At Bottom Rail 11/16" @ 1/2" Threshold</p>

## GLASS WIDTH FORMULAS

### DOORS WITH BUTT HINGES OR OFFSET PIVOTS

DOOR STILE		1" (25) GLASS
Series 400-T Medium Stile	Single Door	Door Opening minus 7-3/4"
	Pair of Doors	Door Opening divided by 2, minus 7-3/4"
Series 550-T Wide Stile	Single Door	Door Opening minus 10-1/4"
	Pair of Doors	Door Opening divided by 2, minus 10-1/4"

## GLASS HEIGHT FORMULAS\*

DOOR STILE	1" (25) GLASS WITH STANDARD BOTTOM RAIL	1" (25) GLASS WITH 10" A.D.A. BOTTOM RAIL
Series 400-T Medium Stile	Door Opening Minus 11-3/8"	Door Opening Minus 14-1/4"
Series 550-T Wide Stile	Door Opening Minus 12-3/4"	Door Opening Minus 15-3/4"

\* Including 1/2" Threshold



# ENTRANCES

## Custom Door Quote/Order Request Form

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### Thermal Doors

- Series 400-T
- Series 550-T

Fax Completed Checklist to U.S. Aluminum Technical Sales at (866) 262-3299. Then call to discuss: (800) 262-5151 (U.S.), (877) 421-6144 (Canada), or (323) 588-1281 (International). Ask for Extension 5305. This form is also available online at [usalum.com](http://usalum.com).

Company Name \_\_\_\_\_  
 Contact \_\_\_\_\_  
 Job Name \_\_\_\_\_

Phone # \_\_\_\_\_  
 Fax # \_\_\_\_\_  
 Date \_\_\_\_\_

When you are ready to order, utilize this form to assist you in covering the details required to complete a Custom Door Entrance installation. Going through this exercise should prevent you from overlooking any details related to your installation.

**IMPORTANT:** Depending on the complexity of your project, one or more of the following may be required to accurately order: sketches or drawings of your particular application with dimensions; printed architectural drawings or CAD files; photos of job site conditions (digital images are preferable).  
**NOTE:** A final sign off is required prior to any custom fabrication.

#### DOOR STILE

- ☐ Series 400-T, Medium
- ☐ Series 550-T, Wide

#### DOOR FINISH

- ☐ Clear Anodized
- ☐ Dark Bronze Anodized
- ☐ Black Anodized
- ☐ Custom Duranar 70% Kynar

#### DOOR OPENING SIZE

- ☐ 36" x 84" (914 x 2134)
- ☐ 42" x 84" (1067 x 2134)
- ☐ 72" x 84" (1829 x 2134)
- ☐ Custom

#### DOOR GLASS (BY OTHERS)

- ☐ With 1" (25) Stops

#### DOOR SWEEP

- ☐ Yes ☐ No
- ☐ Exposed Fasteners
- ☐ Concealed Fasteners

#### DOOR SWING CHART



Use the Door Swing Chart to determine how the door(s) should be handed.

#### DOOR SWING

- |  | QTY      |
|--|----------|
| <input type="checkbox"/> LH Hinge Left Swing In        | ____ ea. |
| <input type="checkbox"/> RH Hinge Right Swing In       | ____ ea. |
| <input type="checkbox"/> LHR Hinge Left Swing Out      | ____ ea. |
| <input type="checkbox"/> RHR Hinge Right Swing Out     | ____ ea. |
| <input type="checkbox"/> LHD Hinge Left Double Acting  | ____ ea. |
| <input type="checkbox"/> RHD Hinge Right Double Acting | ____ ea. |
| <input type="checkbox"/> PAIR Swing In                 | ____ ea. |
| <input type="checkbox"/> PAIR Swing Out                | ____ ea. |
| <input type="checkbox"/> PAIR Double Acting            | ____ ea. |

#### CONCEALED WEATHERSTRIP

- ☐ Top Rail
- ☐ Bottom Rail
- ☐ Both

#### BOTTOM RAIL

- ☐ Standard
- ☐ A.D.A. 10" (254) Rail
- ☐ Custom

#### PUSH/PULL HARDWARE

- ☐ Standard Push Bars
- ☐ Standard Push/Pull
- ☐ Offset Pulls
- ☐ None (Supplied by Others)

#### DOOR HINGING

- ☐ Top/Bottom Offset Pivots
- ☐ 1 Pair Butt Hinges
- ☐ Intermediate Pivots  
Add \_\_\_\_ per Door
- ☐ Intermediate Butt Hinges  
Add \_\_\_\_ per Door



## Custom Door Quote/Order Request Form

### Thermal Doors

- Series 400-T
- Series 550-T

PAGE 2 OF 2

#### PANIC DEVICES

- ☐ Rim Panic With Crashbar
- ☐ Concealed Panic With Crashbar
- ☐ Rim Panic With Push Pad
- ☐ Concealed Panic With Push Pad
- ☐ CRL-Blumcraft Panic
- ☐ Removable Mullion
- ☐ Custom

#### DOOR HARDWARE FINISH

- ☐ Clear Anodized
- ☐ Bronze Anodized
- ☐ Champagne Anodized
- ☐ Other (Specify)

#### THRESHOLD

- ☐ None
- ☐ Standard
- ☐ Custom

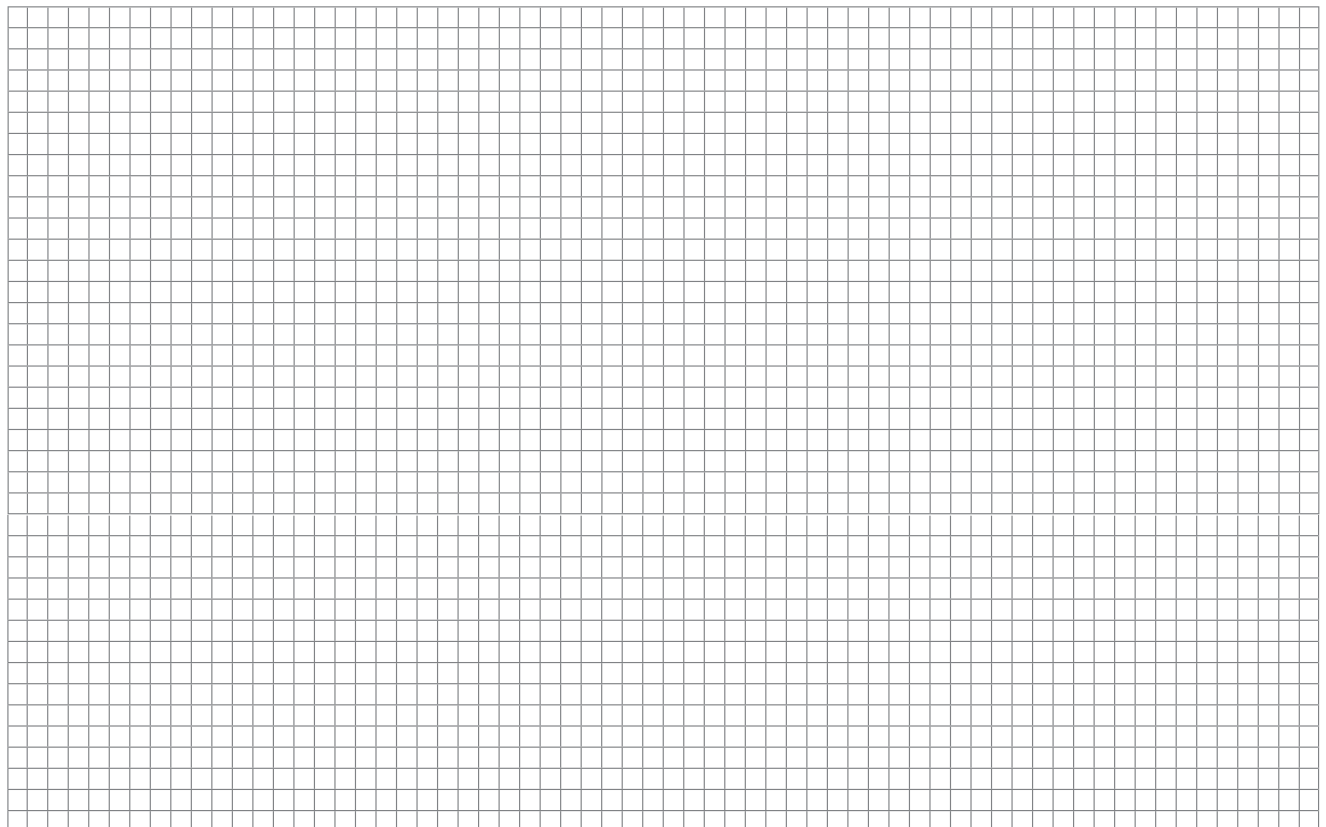
#### DOOR CLOSER

- ☐ O.H. Concealed (Double Acting)
- ☐ O.H. Concealed (Offset)
- ☐ 90°
- ☐ 105°
  - Hold Open ☐ Yes ☐ No
- ☐ Surface Mount
- ☐ Drop Plate
- ☐ Door Stop
- ☐ No Closer Required

#### LOCKING OPTIONS

- ☐ MS Deadbolt With Two Cylinders
- ☐ Thumbturn in Lieu of Cylinder
- ☐ 3-Point Locking @ Pair
- ☐ Lock Indicator
- ☐ Cylinder Guard
- ☐ Flushbolts
- ☐ A.R. Latch/Deadlock
- ☐ A.R. Hook Throw Deadlock
- ☐ Paddle Handle
- ☐ A.R. Lever Handle
- ☐ CRL Lever Handle
- ☐ Electric Strike
- ☐ No Locking Hardware

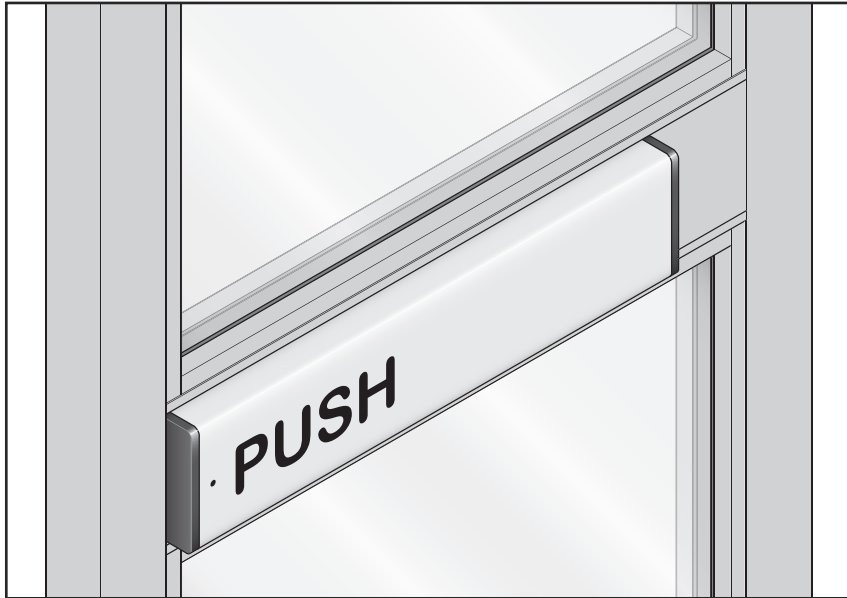
### LAYOUT GRID TO SKETCH DESIGN



# ENTRANCES

## Entrance Door Options

## Mid-Panel Panic Exit Devices



This entrance option is available on the following U.S. Aluminum products:

### MID-PANEL PANIC COMPATIBLE PRODUCTS

Series 250 Narrow Stile Doors

Series 400 Medium Stile Doors

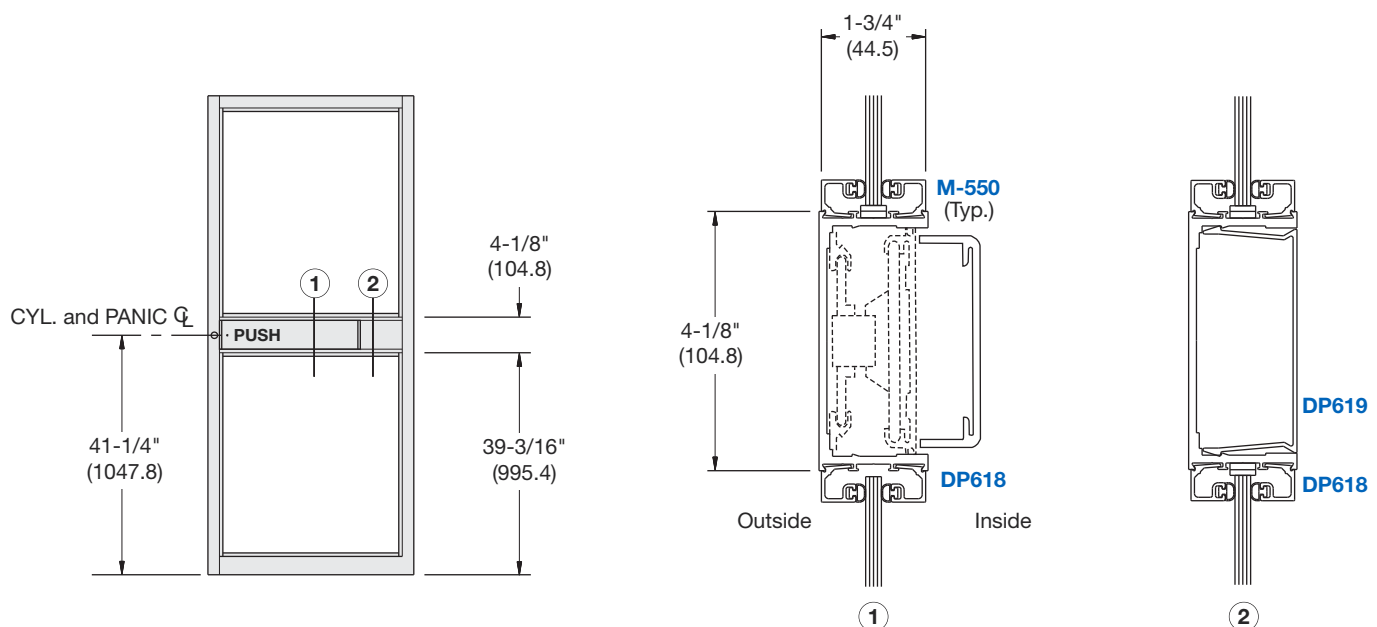
Series 550 Wide Stile Doors

Series 800 Durafront Entrance Systems

Series 850 Durafront Entrance Systems

**NOTE:** CRL Jackson Brand Panics are the standard. However, if you require Von Duprin® or other brand panics we can supply as requested.

Combining contemporary styling with maximum security features, the Mid-Panel Panic option provides a Concealed Vertical Rod Panic Device with a Touch Bar Actuator. Matching mid-panels without hardware are available for sidelites.



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## Entrance Door Options

## Panic Exit Devices

### VON DUPRIN® 33A/35A SERIES EXIT DEVICE PRODUCTS

- Fits Door Stiles as Narrow as 1-3/4" (44)
- Available With Smooth or Grooved Housing
- Non-Handed
- UL Listed and Tested to ANSI A156.3, Grade 1



# VON DUPRIN®

Von Duprin® designs and manufactures Exit Devices to the highest standards of quality and reliability in accordance with U.S. domestic and international standards. All 33A and 35A Series Exit Devices are UL Listed for Panic Exit Hardware, and are tested in accordance to ANSI A156.3, Grade 1 standards. For additional information, contact U.S. Aluminum Technical Sales at (800) 262-5151. You can also visit our web site at [usalum.com](http://usalum.com).



33A Series features a grooved mechanism case



35A Series features a smooth mechanism case

#### RIM DEVICES

33A GROOVED PART NO.	35A SMOOTH PART NO.	DEVICE LENGTH	FINISH
<a href="#">33AE03626</a>	<a href="#">35AE03626</a>	36" (914)	Satin Chrome
<a href="#">33AE03313</a>	<a href="#">35AE03313</a>	36" (914)	Dark Bronze
<a href="#">33AE04626</a>	<a href="#">35AE04626</a>	48" (1219)	Satin Chrome
<a href="#">33AE04313</a>	<a href="#">35AE04313</a>	48" (1219)	Dark Bronze

Minimum order: 1 each.

#### SURFACE MOUNTED VERTICAL ROD DEVICES

33A GROOVED PART NO.	35A SMOOTH PART NO.	DEVICE LENGTH	FINISH
<a href="#">3327AE03626</a>	<a href="#">3527AE03626</a>	36" (914)	Satin Chrome
<a href="#">3327AE03313</a>	<a href="#">3527AE03313</a>	36" (914)	Dark Bronze
<a href="#">3327AE04626</a>	<a href="#">3527AE04626</a>	48" (1219)	Satin Chrome
<a href="#">3327AE04313</a>	<a href="#">3527AE04313</a>	48" (1219)	Dark Bronze

Minimum order: 1 each.

#### CONCEALED VERTICAL ROD DEVICES

33A GROOVED PART NO.	35A SMOOTH PART NO.	DEVICE LENGTH	FINISH
<a href="#">3347AE03626</a>	<a href="#">3547AE03626</a>	36" (914)	Satin Chrome
<a href="#">3347AE03313</a>	<a href="#">3547AE03313</a>	36" (914)	Dark Bronze
<a href="#">3347AE04626</a>	<a href="#">3547AE04626</a>	48" (1219)	Satin Chrome
<a href="#">3347AE04313</a>	<a href="#">3547AE04313</a>	48" (1219)	Dark Bronze

Minimum order: 1 each.



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# ENTRANCES

## Entrance Door Options

- Design for Use With 1-3/4" (44) Narrow, Medium, and Wide Stile Aluminum, Wood, or Hollow Metal Doors
- Concealed Fastening for Added Security

## Panic Exit Devices



### CRL JACKSON 10 SERIES PANIC EXIT DEVICES

#### Features:

- Contoured Field Sizeable 48" (1219) Long Crossbar
- Standard Door Height 84" (2134) – Extension Available
- Dual Dogging Feature – By Outside Cylinder  
– By Dogging Pins on Panic Housing
- Wear Points Insulated by Nylon Sleeves and Rollers

PART NO.	TYPE	HANDING	FINISH
<a href="#">311095LC4628</a>	Rim - 'C' Strike	Left Hand-Reverse Bevel	Satin Aluminum
<a href="#">311095RC4628</a>	Rim - 'C' Strike	Right Hand-Reverse Bevel	Satin Aluminum
<a href="#">311095LC4313</a>	Rim - 'C' Strike	Left Hand-Reverse Bevel	Dark Bronze
<a href="#">311095RC4313</a>	Rim - 'C' Strike	Right Hand-Reverse Bevel	Dark Bronze
<a href="#">31108547628</a>	Concealed Vertical Rod	Non-Handed	Satin Aluminum
<a href="#">31108547313</a>	Concealed Vertical Rod	Non-Handed	Dark Bronze

Minimum order: 1 each.



Model 1095



Model 1085

#### Materials:

Body and Arms: High Tensile Strength Aluminum  
Mechanical Components: Stainless and Hardened, Plated Steel  
Latch and Strikes: Sintered Steel

### CRL JACKSON 20 SERIES PANIC EXIT DEVICES

#### Features:

- Standard 36" (914) Wide Door - Field Sizeable up to 48" (1219) Width Available on Special Order
- Standard Door Height 84" (2134) – Extension Available
- Concealed Easy to Use Dogging System – Optional Cylinder Dogging Available on Special Order
- Wear Points Insulated by Nylon Sleeves and Rollers

PART NO.	TYPE	HANDING	FINISH
<a href="#">312095LC3628</a>	Rim - 'C' Strike	Left Hand-Reverse Bevel	Satin Aluminum
<a href="#">312095RC3628</a>	Rim - 'C' Strike	Right Hand-Reverse Bevel	Satin Aluminum
<a href="#">312095LC3313</a>	Rim - 'C' Strike	Left Hand-Reverse Bevel	Dark Bronze
<a href="#">312095RC3313</a>	Rim - 'C' Strike	Right Hand-Reverse Bevel	Dark Bronze
<a href="#">312085L37628</a>	Concealed Vertical Rod	Left Hand-Reverse Bevel	Satin Aluminum
<a href="#">312085R37628</a>	Concealed Vertical Rod	Right Hand-Reverse Bevel	Satin Aluminum
<a href="#">312085L37313</a>	Concealed Vertical Rod	Left Hand-Reverse Bevel	Dark Bronze
<a href="#">312085R37313</a>	Concealed Vertical Rod	Right Hand-Reverse Bevel	Dark Bronze

Minimum order: 1 each.



Model 2095



Model 2085

#### Materials:

Body and Push-Pad: Extruded Aluminum  
Mechanical Components: Stainless and Hardened, Plated Steel  
Latch and Strikes: Sintered Steel

# ENTRANCES

## Entrance Door Options

### JACKSON 1200 SERIES PANIC EXIT DEVICES

- Designed for Use With 1-3/4" (44) Narrow, Medium, and Wide Stile Aluminum, Wood or Hollow Metal Doors
- "Soft-Touch" Smooth Action Push-Pad
- Field Sizeable

PART NO.	TYPE	HANDING	FINISH
31127537628	36" Surface Vertical Rod	Non-Handed	Satin Aluminum
31127537313	36" Surface Vertical Rod	Non-Handed	Dark Bronze
311285L37628	36" Concealed Vertical Rod	Left Hand-Reverse Bevel	Satin Aluminum
311285R37628	36" Concealed Vertical Rod	Right Hand-Reverse Bevel	Satin Aluminum
311285L37313	36" Concealed Vertical Rod	Left Hand-Reverse Bevel	Dark Bronze
311285R37313	36" Concealed Vertical Rod	Right Hand-Reverse Bevel	Dark Bronze
311295C3628	Rim – 36" Base-'C' Strike	Non-Handed	Satin Aluminum
311295C4628	Rim – 48" Base-'C' Strike	Non-Handed	Satin Aluminum
311295C3313	Rim – 36" Base-'C' Strike	Non-Handed	Dark Bronze
311295C4313	Rim – 48" Base-'C' Strike	Non-Handed	Dark Bronze

Minimum order: 1 each.

#### Specifications:

##### 1275 Surface Vertical Rod Device

- Stocked in Both 36" (914) and 48" (1219) Widths
- Standard Door Height 84" (2134 mm) – Field Sizeable

##### 1285 Concealed Vertical Rod Device

- Stocked in Both 36" (914) and 48" (1219) Widths
- Standard Height 84" (2134) - Extension Available
- Requires Cylinder Mounting Pad When Using Mortise Cylinder for Keyed Outside Entry

##### 1295 Rim Device

- Stocked in Both 36" (914) and 48" (1219) Widths
- Surface Mounted Roller Strike Standard
- Requires Rim Cylinder for Keyed Entry

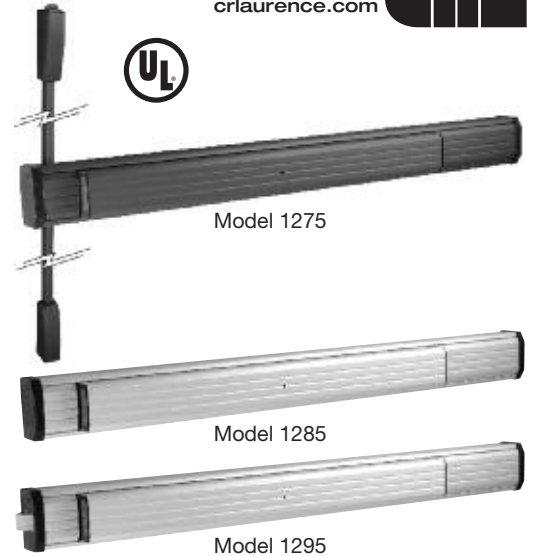
### JACKSON 10 SERIES PUSH-PAD RETROFIT DEVICE

- Sleek, Contemporary Style Push-Pad to Retrofit Existing CRL Jackson 1085 Concealed Vertical Rod Crossbar Exit Device
- Uses Existing 10 Series Rod and Case Assembly
- Easy Installation – Cut to Fit

PART NO.	HANDING	FINISH
311285RL3628	36" Left Hand-Reverse Bevel	Satin Aluminum
311285RR3628	36" Right Hand-Reverse Bevel	Satin Aluminum
311285RL3313	36" Left Hand-Reverse Bevel	Dark Bronze
311285RR3313	36" Right Hand-Reverse Bevel	Dark Bronze



## Panic Exit Devices



#### Materials:

Base and Push-Pad: Extruded Aluminum  
Mechanical Components: Stainless and Hardened, Plated Steel  
Latch and Strikes: Sintered Steel



#### Specifications:

- Stocked in Both 36" (914) and 48" (1219) Widths

#### Materials:

Base and Push-Pad: Extruded Aluminum  
Mechanical Components: Stainless and Hardened, Plated Steel

# ENTRANCES

## Entrance Door Options



- **Access Control Handles With a Large Selection of Exterior Fixed Pulls for Medium and Wide Stile Doors**
- **Available in Polished and Brushed Stainless, Satin and Polished Brass, and Oil Rubbed Bronze**
- **Custom Finishes Available By Special Order**

CRL-Blumcraft manufactures a complete line of Access Control Handles for all your door needs. We have Panic Devices, Deadbolt Handles, and Electronic Egress Control Handles in a wide variety of configurations. We can also supply you with Dummy Handles to match these devices, allowing you to maintain the same appearance throughout the project, but without the added costs. Please review the following pages for the complete selection, or visit [crlaurence.com](http://crlaurence.com) for more information.



## Access Control Handles



For additional information, contact CRL Technical Sales at (800) 421-6144 in the U.S., (877) 421-6144 from Canada, or (323) 588-1281 International, and ask for Ext. 7700. You can e-mail us through our web site at [crlaurence.com](http://crlaurence.com). From the home page click on Contact Us, and then click on Technical Sales for Commercial Products.

Online [usalum.com](http://usalum.com) By Phone (800) 262-5151  
Online [crlaurence.com](http://crlaurence.com) By Phone (800) 421-6144



## Entrance Door Options

- Available in Panic, Deadbolt, Electronic Egress, and Dummy Models
- Stock Sizes Available for Immediate Shipment
- Custom Sizes Ship Within One to Two Weeks



### CRL-BLUMCRAFT PANIC HANDLES

- Elegant Tubular Design
- UL and ANSI/BHMA Certified



The operating mechanism concealed within the vertical tubing of our Panic Handles retracts the latch bolt when the interior actuation bar is pushed. An optional exterior Keyed Access Device can be installed to allow entry. A special dogging feature allows the doors to remain unlocked during business hours. Electronic Strikes are also available, providing a variety of secured entry options.



### CRL-BLUMCRAFT DEADBOLT HANDLES

- Easy Secure Access
- ANSI/BHMA Certified

The locking mechanism is concealed within the vertical tubing of our Deadbolt Handles, providing easy access through the use of a variety of keying options. An optional Top Latch Roller Bolt allows the use of Electronic Strikes for controlled entry systems.



### CRL-BLUMCRAFT ELECTRONIC EGRESS CONTROL HANDLES

- Ideal for Maintaining Security and Aesthetics
- UL Recognized Component
- U.S. Patent No. 7,347,461



An electronic switch concealed within the vertical tubing of our Electronic Egress Control Handle releases the magnetic lock at the top or bottom of the door when the interior actuation bar is pushed. Please consult your local building codes as they relate to electromagnetic locking hardware acceptability.



### CRL-BLUMCRAFT DUMMY HANDLES

- An Endless Variety of Configurations are Available to Match Our Panic, Deadbolt, and Electronic Egress Handles
- Elegant Tubular Design

When functionality is not required, our Dummy Handles can be made to match any of our Panic, Deadbolt or Electronic Egress Handles, giving you the same appearance throughout your project.

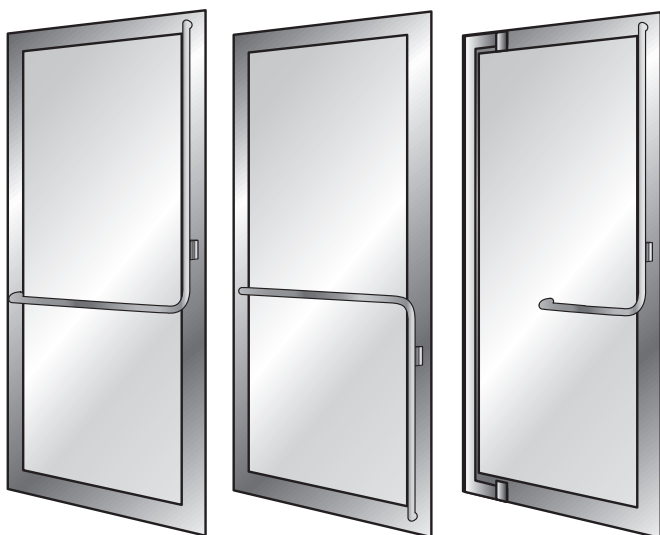




# ENTRANCES

## Entrance Door Options

### STANDARD INTERIOR CONFIGURATIONS FOR CRL-BLUMCRAFT PANIC HANDLES



PA100 Series

Available with or  
without Keyed  
Access Device

PA110 Series

BDA100 Series

For Balanced Door  
Panic Handles see  
opposite page



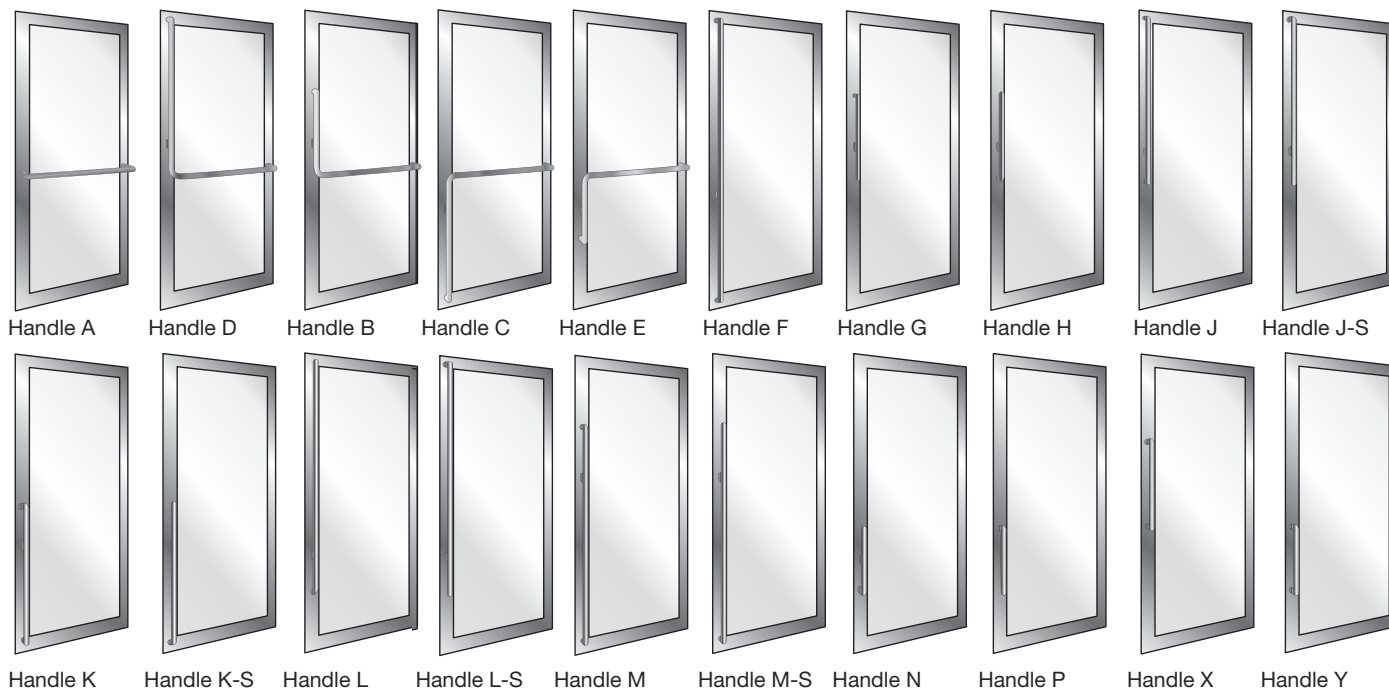
**Blumcraft**  
A DIVISION OF C.R. LAURENCE CO., INC. OF PITTSBURGH



### EXTERIOR HANDLE COMBINATIONS FOR DOORS WITH CRL-BLUMCRAFT PANIC HANDLES

**NOTE:** All Exterior Fixed Handles below can be used in combination with any Panic Handle.

Contact U.S. Aluminum Technical Sales at (800) 262-5151 in the U.S. and Canada, or International at (323) 268-4230, and ask for Ext. 5305. You can also send e-mail from the [usalum.com](http://usalum.com) home page.



**NOTE:** All Access Control Handles on this page function as health and safety tools, and may only be purchased through CRL Authorized Glass Tempereders and Door Manufacturers.

Online [usalum.com](http://usalum.com) By Phone (800) 262-5151  
Online [crlaurence.com](http://crlaurence.com) By Phone (800) 421-6144

# ENTRANCES

## Entrance Door Options

- Specifically Designed for Balanced Doors
- UL, ULC, and ANSI/BHMA Certified
- For 1/2" or 3/4" (12 or 19) Tempered Glass
- Available in Polished and Brushed Stainless, Satin and Polished Brass, and Oil Rubbed Bronze
- Custom Finishes Available By Special Order
- Custom Sizes Ship Within One to Two Weeks

Our Balanced Door Panic Handles were created to meet the building code requirements for Balanced Doors, while maintaining an excellent appearance. The building code states that the push pad shall not extend more than one-half the width of the door measured from the latch side, and this creates an undesirable appearance.

Our BDA100 Series has a fixed handle portion that extends toward the hinge side of the door, with a clearly defined push pad handle portion at the latch side of the door. This wider handle has greatly improved aesthetics over a handle that only spans one-half of the door's width.

Yet another fine example of our commitment to meeting building code requirements, while at the same time delivering the beautiful hardware that our architectural customers demand.

## Panic Handles for Balanced Doors

• Series BDA100



## EXTERIOR HANDLE COMBINATIONS FOR BALANCED DOORS WITH CRL PANIC HANDLES

**NOTE:** Exterior Fixed Handles shown below can be used in combination with our BDA100 Series Panic Handle. For additional Exterior Fixed Handle options, see page 07-A3.



Handle A-BD



Handle D-BD



Handle B-BD

Contact U.S. Aluminum Technical Sales at (800) 262-5151 in the U.S. and Canada, or International at (323) 268-4230, and ask for Ext. 5305. You can also send e-mail from the [usalum.com](http://usalum.com) home page. **NOTE:** All Access Control Handles on this page function as health and safety tools, and may only be purchased through CRL Authorized Glass Temperers and Door Manufacturers.

Online [usalum.com](http://usalum.com) By Phone (800) 262-5151  
Online [crlaurence.com](http://crlaurence.com) By Phone (800) 421-6144