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
ENTRANCES

Specifications

SECTION 08 11 16 ALUMINUM DOORS AND FRAMES

<table>
<thead>
<tr>
<th>SERIES</th>
<th>STILES</th>
<th>TOP RAIL</th>
<th>BOTTOM RAIL</th>
<th>GLAZING INFILL</th>
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<tbody>
<tr>
<td>250-T Narrow Stile</td>
<td>3&quot; (76.2)</td>
<td>2-7/8&quot; (73)</td>
<td>4-5/16&quot; (109.5)</td>
<td>1&quot; (25)</td>
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<tr>
<td>400-T Medium Stile</td>
<td>4-1/4&quot; (108)</td>
<td>4-5/16&quot; (109.5)</td>
<td>7-1/4&quot; (184.2)</td>
<td>1&quot; (25)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>A.D.A. Bottom Rail Option</td>
<td>9-1/2&quot; (241.3)</td>
</tr>
</tbody>
</table>

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 250-T or 400-T Entrance Doors.

OPTIONAL: Door shall have ADA 9-1/2" (241.3) 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 with polyamide strips and heavy concealed reinforcement brackets secured with bolts and screws.

Doors shall have one snap-in glass stop 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 weatherstriped 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.)

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.

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).

A.D.A. Bottom Rail Option: 9-1/2" (241.3)
Our Series 250-T and 400-T Thermal Entrances offer a two glass stop design, Polyamide Nylon Thermal Break, and mechanically fastened 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 9-1/2" (241.3) 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 (Series 400-T only)
- Floor Mounted

**Panic Exit Devices**
- Conventional Push Panel

---

**SERIES** | **STILES** | **TOP RAIL** | **BOTTOM RAIL** | **APPLICATION**
---|---|---|---|---
250-T Narrow Stile | 3" (76.2) | 2-7/8" (73) | 4-5/16" (109.5) | Light to Moderate Traffic
400-T Medium Stile | 4-1/4" (108) | 4-5/16" (109.5) | 7-1/4" (184.2) | Moderate to Heavy Traffic
A.D.A. Bottom Rail Option | 9-1/2" (241.3) | | | A.D.A.
Typical Details

NOTE: Series 400-T Medium Stile Door Shown. For Series 250-T Narrow Stile Door Details, visit usalum.com.

Thermal Doors
• Series 250-T
• Series 400-T

Online usalum.com By Phone (800) 262-5151
Online crlaurence.com By Phone (800) 421-6144
Aluminum Back Up Plate

Corner Block

3/4" (19) Dia. Bolt

(6) #10 x 1/2" (12.7) F.H.S.M.S.

series 250-T

series 400-T

Online usalum.com  By Phone (800) 262-5151
Online crlaurence.com  By Phone (800) 421-6144
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.

NOT TO SCALE

Von Duprin is a registered trademark of Ingersoll-Rand plc, its subsidiaries and/or affiliates in the United States and other countries.

Online usalum.com By Phone (800) 262-5151
Online crlaurence.com By Phone (800) 421-6144
Entrance Door Options

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® 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.

### RIM DEVICES

<table>
<thead>
<tr>
<th>33A GROOVED PART NO.</th>
<th>35A SMOOTH PART NO.</th>
<th>DEVICE LENGTH</th>
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<td>33AE03313</td>
<td>35AE03313</td>
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<td>Dark Bronze</td>
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<tr>
<td>33AE04626</td>
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<td>33AE04313</td>
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Minimum order: 1 each.

### SURFACE MOUNTED VERTICAL ROD DEVICES

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<th>33A GROOVED PART NO.</th>
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Minimum order: 1 each.

### CONCEALED VERTICAL ROD DEVICES

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<td>48&quot; (1219)</td>
<td>Dark Bronze</td>
</tr>
</tbody>
</table>

Minimum order: 1 each.

Von Duprin is a registered trademark of Ingersoll-Rand plc, its subsidiaries and/or affiliates in the United States and other countries.

Online usalum.com By Phone (800) 262-5151
Online crlaurance.com By Phone (800) 421-6144
**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

**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

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TYPE</th>
<th>HANDING</th>
<th>FINISH</th>
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</thead>
<tbody>
<tr>
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<td>311095RC4313</td>
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<td>Dark Bronze</td>
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<tr>
<td>311095LR4728</td>
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<td>Satin Aluminum</td>
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<td>311085LR4713</td>
<td>Concealed Vertical Rod</td>
<td>Non-Handed</td>
<td>Dark Bronze</td>
</tr>
</tbody>
</table>

Minimum order: 1 each.

**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

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<tr>
<th>PART NO.</th>
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<th>HANDING</th>
<th>FINISH</th>
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<td>312085LR3728</td>
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<td>312085LR3713</td>
<td>Concealed Vertical Rod</td>
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<td>Dark Bronze</td>
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</tbody>
</table>

Minimum order: 1 each.

Materials:
CRL JACKSON 10 SERIES Panic Exit Devices
- 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
- Body and Push-Pad: Extruded Aluminum
- Mechanical Components: Stainless and Hardened, Plated Steel
- Latch and Strikes: Sintered Steel
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

<table>
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<tr>
<th>PART NO.</th>
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<td>Rim – 48&quot; Base-‘C’ Strike</td>
<td>Non-Handed</td>
<td>Dark Bronze</td>
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</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>HANDING</th>
<th>FINISH</th>
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<tbody>
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**Specifications:**

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

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

---

**Panic Exit Devices**

Model 1275
Model 1285
Model 1295

**Materials:**
- Base and Push-Pad: Extruded Aluminum
- Mechanical Components: Stainless and Hardened, Plated Steel
Entrance Door Options

CRL-Blumcraft manufacturers 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 for more information.

- 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

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. From the home page click on Contact Us, and then click on Technical Sales for Commercial Products.
Entrance Door Options

Access Control Handles

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
- PA110 Series
- BDA100 Series

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.

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.
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.

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.

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 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  By Phone (800) 262-5151
Online crlalumina.com  By Phone (800) 421-6144