Ingersoll Rand's Security Technologies Sector is a leading global provider of products and services that make environments safe, secure and productive. The Sector’s market-leading products include electronic and biometric access control systems; time and attendance and personnel scheduling systems; mechanical locks and portable security; door closers and exit devices, steel doors and frames, architectural hardware and technologies and services for global security markets.

www.Falcon.ingersollrand.com
At Falcon, we know that every product you sell not only has to meet local building codes, but also your expectations for performance and quality. We take your expectations seriously, and that’s why we build our door hardware to deliver durability, convenience and unmatched value. After all, we’ve built our reputation on the same standards that you have - providing quality products at a reasonable price delivered on time. It’s the way we do business and it’s what makes Falcon door hardware a powerful choice no matter what your project.

When low cost and dependability are essential, you can count on the Monarch 19 Series. The 19 Series is built to stand up in high traffic applications and is available with a wide variety of function options and a full complement of trim devices. And since it’s backed by one of the best names in the business you can be sure you’re getting the utmost value and reliability.

**Features**

- ANSI Grade 1 rating
- Optional “B” label (1-1/2-hour) fire exit construction
- Available with a full complement of trims
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**FEATURES**

- ANSI Grade 1 rating
- Optional “B” label (1-1/2-2-hour) fire exit construction
- Available with a full complement of trims
How to Order Sequence Example

<table>
<thead>
<tr>
<th>Prefixes</th>
<th>CD</th>
<th>Cylinder Dogging</th>
<th>AE</th>
<th>Touchbar Request to Exit</th>
<th>DM</th>
<th>Latchbolt and Device Monitor Switch</th>
<th>KDR</th>
<th>Key Bypass Switch</th>
<th>LK</th>
<th>Latching Trim Monitor Switch</th>
<th>LN</th>
<th>Latchbolt Stakes Switch</th>
<th>ED</th>
<th>Electric Dogging</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rating</td>
<td>F</td>
<td>Fire Exit Hardware</td>
<td>BL</td>
<td>Panic Exit Hardware</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Device Series</td>
<td>2V</td>
<td>Touch Bar Device, Narrow Stile</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Device Type</td>
<td>R</td>
<td>Rim</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>V</td>
<td>Surface Vertical Rod</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Device Dimensions:**

| Door Width | 3’ | Standard Default | 4’ | Specify Exact Door Width |
| 2’ | 2 1/2’ | 3 1/2’ | 3 3/4’ | 4’ | 2’3” |
| 13/16” | 1 7/8” | 2 1/2” | 8 1/2” | 3’ | 33” |
| 4’ | 44 3/8” |

**Handle Function (see Trim pages for all functions):**

| EO | Exit Only |
| DL | Dummy Trim |
| NL | Night Latch |
| C  | Cylinder Trim Less Pull |
| TP | Thumbpiece |

**Finish:**

| US32D | SP12 | SP932 |

**Handing:**

| RHR | Right Hand Reverse |
| LHR | Left Hand Reverse |

**Less Bottom Rod:**

| LBR | Less Bottom Rod |
| LBR-AFL | LBR w/Auxiliary Fire Latch |

**Other Device Options:**

| EA | Exit Alarm |
| HWEA | Hard Wired Exit Alarm |
| VBP | Black Pad on Touch Bar |

**Accessories:**

| CYL | Cylinder |
| SBL | Screw Bolt |
| SK | Shim Kit |
| AMS | All Machine Screws |

**Other Miscellaneous Door Information:**

| HRD | Hollow Metal Door |
| HMF | Hollow Metal Frame |
| WD | Wood Door |
| WDF | Wood Frame |
| ALD | Aluminum Door |
| AIF | Aluminum Frame |

**Prefixes:**

| CD | Cylinder Dogging |
| AE | Touchbar Request to Exit |
| DM | Latchbolt and Device Monitor Switch |
| KDR | Key Bypass Switch |
| LK | Latching Trim Monitor Switch |
| LN | Latchbolt Stakes Switch |
| ED | Electric Dogging |

**Inside Double Doors:**

19-R x 19-R
19- R x 19-V
19- V x 19-V

**Right Hand Reverse:**

19-R x 19-R
19- R x 19-V
19- V x 19-V

**Left Hand Reverse:**

19-R x 19-R
19- R x 19-V
19- V x 19-V

**Inside Single Doors:**

19-R x 19-R
19- R x 19-V
19- V x 19-V

**Wood Door:**

| F-19-V | 1 1/2 hr. | 8’ x 10’ | Pair, double egress |
| F-19-V-LBR | 20 min. | 8’ x 8’ | Wood or comp., pair |

**Device Information:**

<table>
<thead>
<tr>
<th>DEVICE</th>
<th>Label</th>
<th>Door Opening</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-19-R</td>
<td>1 1/2 hr.</td>
<td>4’ x 7’2”</td>
<td>Single, pair, same egress</td>
</tr>
<tr>
<td>F-19-V</td>
<td>1 1/2 hr.</td>
<td>8’ x 10’</td>
<td>Pair, double egress</td>
</tr>
<tr>
<td>F-19-V-LBR</td>
<td>20 min.</td>
<td>8’ x 8’</td>
<td>Wood or comp., pair</td>
</tr>
</tbody>
</table>

**Hollow Metal Door:**

| F-19-R | 1 1/2 hr. | 4’ x 7’2” | Single, pair, same egress |
| F-19-V | 1 1/2 hr. | 8’ x 10’ | Pair, double egress |
| F-19-V-LBR | 20 min. | 8’ x 8’ | Wood or comp., pair |

**Wood Door:**

| F-19-V-LBR | 20 min. | 8’ x 8’ | Pair, double egress |
| F-19-R | 1 1/2 hr. | 4’ x 7’2” | Single, pair, same egress |

**Hollow Metal Door with Mullion:**

19-R x 19-R
19- R x 19-V
19- V x 19-V

**Inverted Double Door:**

19-R x 19-R
19- R x 19-V
19- V x 19-V

**Other Intermediate Products:**

| HMD | Hollow Metal Door |
| HMF | Hollow Metal Frame |
| WD | Wood Door |
| WDF | Wood Frame |
| ALD | Aluminum Door |
| AIF | Aluminum Frame |

**Product Information and Specifications contained in this catalog are subject to change without notice. Please consult the factory.**
How to Order Sequence Example

How to Order Sequence Example

<table>
<thead>
<tr>
<th>Prefixes</th>
<th>DOOR APPLICATIONADDITIONAL INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD</td>
<td>Cylinder Dogging</td>
</tr>
<tr>
<td>AE</td>
<td>Touch Bar Request to Exit</td>
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<tr>
<td>DM</td>
<td>Latchbolt and Device Monitor Switch</td>
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<td>Key Bypass Switch</td>
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<td>LK</td>
<td>Latching Trim Monitor Switch</td>
</tr>
<tr>
<td>LM</td>
<td>Latchbolt Stakes Switch</td>
</tr>
<tr>
<td>ED</td>
<td>Electric Dogging</td>
</tr>
<tr>
<td>F</td>
<td>Fire Exit Hardware</td>
</tr>
<tr>
<td>LBR</td>
<td>Panic Exit Hardware</td>
</tr>
</tbody>
</table>

**Device Series**  
- 19: Touch Bar Device, Narrow Stile

**Device Type**  
- R: Rim
- V: Surface Vertical Rod

**Trim Function** (see Trim pages for all functions)  
- EO: Exit Only
- TL: Thumb Lever
- KP: Key in Lever
- KIK: Key in Knob
- ED: Electric Dogging

**Finish**  
- US32D
- SP28
- SP313

**Door Width**  
- 3': Standard Default
- 4': Specify Exact Door Width

**Handing**  
- RHR: Right Hand Reverse
- LHR: Left Hand Reverse

**Less Bottom Rod**  
- LBR: Less Bottom Rod

**Other Device Options**  
- EA: Exit Alarm
- KBB: Rounded Bottom Bolt
- SSTR: Stainless Steel Touch Bar
- VTP: Black Pin on Touch Bar
- TAC: Tactile Warning

**Other Miscellaneous Door Information**  
- HRD: Hollow Metal Door
- HNF: Hollow Metal Frame
- WD: Wood Door
- ALD: Aluminum Door
- ALF: Aluminum Frame
- SGL: Single Door
- PR: Pair of Doors Swinging Same Direction

**Device Dimensions:**

<table>
<thead>
<tr>
<th>Device</th>
<th>Label</th>
<th>Door Opening</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-19-R</td>
<td>1 1/2 hr.</td>
<td>4’ x 7’2”</td>
<td>Single, pair, same egress w/ F-4023 mullion and KR-F-4023</td>
</tr>
<tr>
<td>F-19-V</td>
<td>1 1/2 hr.</td>
<td>8’ x 10’</td>
<td>Pair, double egress, same egress</td>
</tr>
<tr>
<td>F-19-V-LBR</td>
<td>1 1/2 hr.</td>
<td>8’ x 8’</td>
<td>Pair, double egress, same egress</td>
</tr>
</tbody>
</table>

**Door Thickness**

All devices and components supplied for 1 3/4" doors standard. Specify door thickness if other than 1 3/4".

<table>
<thead>
<tr>
<th>Door Application Chart</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inside Single Doors</td>
</tr>
<tr>
<td>Inside Double Doors</td>
</tr>
<tr>
<td>Right Hand Reverse</td>
</tr>
<tr>
<td>Left Hand Reverse</td>
</tr>
</tbody>
</table>

**Product Information and Specifications contained in this catalog are subject to change without notice. Please consult the factory.**
NON-HANDED RIM DEVICE 19-R SERIES

The Monarch 19-R Series rim device that delivers superior panic hardware with modern touchbar styling. This non-handed device covers a 161 cutout and may be used on 1 1/16" narrow stile aluminum doors. The “EO” (Exit Only) device is ready to accept any trim function shown on page 12.

Specifications

- **DEVICE & TRIM**
- **ANSI Type**
- **ANSI Function**
  - 19-R-B (bottom)
    - 1 or 4
    - 09
  - 19-R-DT (dutch)
    - 1 or 4
    - 02
  - 19-R-K-NL (or L-NL or KIL-NL)
    - 1 or 4
    - 09
  - 19-R-K (or L or KIL)
    - 1 or 4
    - 08
  - 19-R-TP-NL
    - 1 or 4
    - 06
  - 19-R-TP
    - 1 or 4
    - 05
  - 19-R-NL
    - 1 or 4
    - 03
  - 19-R-DT
    - 1 or 4
    - 02
  - 19-R-EO
    - 1 or 4
    - 01

**Note**: For blank escutcheon specify BE.

**Finishes**: Powder coated aluminum–SP28; powder coated duranodic–SP313; stainless steel US-32D.

**Strikes**: Standard

**Deadlocking Latchbolt**: Standard

**Cylinder Dogging**: No

**Stainless steel US-32D**

**Projection**: 2 1/4" (SNB must be specified on wood or composite doors.)

**Electric Function**: Can be interfaced with building security system. Security monitoring, electric dogging, exit indicator, and exit alarm available. (See separate electrical brochure.)

**Fasteners**: All mounting screws are concealed. Furnished with sheet metal screws. Machine screws available, specify M4.

**Sea Bolts**: 3-4122 (SNB must be specified)

**ANSI**: Certified ANSI A156.1-2000 Grade 1 standard.

**Shim Kit**: For gate feel applications; 5/8" thick specify 19-R-1/8, 7/8" thick specify 19-R-5/8, 1" thick specify 19-R-1."
Panic Exit Hardware
The Monarch 19-R Series rim device that delivers superior panic hardware with modern touchbar styling. This non-handed device covers a 161 cutout and may be used on 1/1” narrow stile aluminum doors. The “EO” (Exit Only) device is ready to accept any trim function shown on page 12.

Specifications
- Handed: Non-Handed
- Functions: All functions built into “EO” device. All 19 Series trim works with non-verical devices. See Trim Selection Chart on pages 12 and 13.
- Finishes: Powder coated aluminum–SP28; powder coated; duranodic–SP313; stainless steel US-32D.
- Deadlocking Latchbolt: Stainless steel, 1/4” throw.
- Cylinder Dogging: Tum Key 3/8” shagging standard. No threaded parts to wear out.

Stock Sizes:
- 161 Cutout: 3 3/4” and 4 1/4”. (See chart on page 15.)
- Narrow Stile Doors: Specify 1655 stile. (See chart on page 15.)
- Projection: 2/4” maximum.
- Electric Function: Can be interfaced with building security system. Security monitoring, electric dogging, exit indicator, and exit alarm available. (See separate electrical brochure.)
- Fasteners: All mounting screws are concealed. Furnished with sheet metal screws. Machine screws available, specify ANSI.

Non-Handed Rim Device F-19-R Series

Specifications
- UL: “B” label (1/1 1/4); “B” label (1/1 1/4). (See chart on page 15.)
- Finishes: Powder coated aluminum–SP28; powder coated; duranodic–SP313; stainless steel US-32D.
- Strike: Standard 1 1/8” thick specify SK 19-R-EO 1 or 4 01.
- Cylinder Dogging: Tum Key 3/8” shagging standard. No threaded parts to wear out.
- Door Types: Can be interfaced with building security system. Security monitoring, electric dogging, exit indicator, and exit alarm available. (See separate electrical brochure.)
- Fasteners: All mounting screws are concealed. Furnished with all machine screws.
- Sex Bolts: When used with wood, composite or non-reinforced Hollow Metal, sex bolts must be specified. 2-3/42 (10-24) SNB standard. An additional 2-3/42 (10-24) SNB must be specified.
- Trim Kit: For glass or applications, 1/8” thick specify SK 19-R-EO 1 or 4 01.
- 161 Cutout: Device covers 161 cutout with KIK/KIL and Centron trims. Other trim requires cover plate.
**Panic Exit Hardware**

Manufactured to the same exacting standards as the 19 Rim, the 19-V Exit Device complies with most exit door requirements, and is fully reversible and surface applied. This device is regularly furnished with deadlocking top latch with latch retention and square bolt at bottom. The “EO” (Exit Only) device is ready to accept any trim function shown on page 12.

### Specifications

<table>
<thead>
<tr>
<th>Device &amp; Trim</th>
<th>ANSI Type</th>
<th>ANSI Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>19-V-DT</td>
<td>2 or 5</td>
<td>02</td>
</tr>
<tr>
<td>19-V-TL</td>
<td>2 or 5</td>
<td>03</td>
</tr>
<tr>
<td>19-VF-FL</td>
<td>2 or 5</td>
<td>05</td>
</tr>
<tr>
<td>19-VF-P</td>
<td>2 or 5</td>
<td>06</td>
</tr>
<tr>
<td>19-VF-FL (or L)</td>
<td>2 or 5</td>
<td>08</td>
</tr>
<tr>
<td>19-VF-K (or KIL)</td>
<td>2 or 5</td>
<td>09</td>
</tr>
</tbody>
</table>

Note: For blank escutcheon specify BE.

**Electrical Function:**
- Can be interfaced with building security systems. Security monitoring, electric dogging, exit indicator, and exit alarm available.

**Fasteners:**
- All mounting screws are concealed. Furnished with sheet metal screws. Machine screws available, specify ANSI.

**Sex Bolts:**

**Vertical Rods:**
- F-19-V: 3788 strike is surface applied. 2130 strike is mortised into floor.
- 19-V: 3788 strike is surface applied. 2130 strike is mortised into floor.

**Shim Kit:**
- For glass lite applications. 1/4” thick specify SK-19-V-1/4.”

**161 Cylinder:**
- Device covers 161 cylinder with 138X-KL and Centron trim. Other trim requires cover plate.

---

**Fire Exit Hardware**

Manufactured to the same exacting standards as the F-19 Rim, the F-19-V Fire Exit Device complies with most exit door requirements, and is fully reversible and surface applied. This device is regularly furnished with deadlocking top latch retention and square bolt at bottom. (This device is listed by UL for B label fire door installations.) The “EO” (Exit Only) device is ready to accept any trim function shown on page 12.

### Specifications

<table>
<thead>
<tr>
<th>Device &amp; Trim</th>
<th>ANSI Type</th>
<th>ANSI Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-19-V-DT</td>
<td>2 or 5</td>
<td>11</td>
</tr>
<tr>
<td>F-19-V-TL</td>
<td>2 or 5</td>
<td>02</td>
</tr>
<tr>
<td>F-19-VF-FL</td>
<td>2 or 5</td>
<td>03</td>
</tr>
<tr>
<td>F-19-VF-P</td>
<td>2 or 5</td>
<td>05</td>
</tr>
<tr>
<td>F-19-VF-FL (or L)</td>
<td>2 or 5</td>
<td>06</td>
</tr>
<tr>
<td>F-19-VF-K (or KIL)</td>
<td>2 or 5</td>
<td>08</td>
</tr>
<tr>
<td>F-19-VF-K (or KIL)</td>
<td>2 or 5</td>
<td>09</td>
</tr>
</tbody>
</table>

Note: For blank escutcheon specify BE.

**Electrical Function:**
- Can be interfaced with building security systems. Security monitoring, electric dogging, exit indicator, and exit alarm available.

**Fasteners:**
- All mounting screws are concealed. All machine screws standard.

**Sex Bolts:**

**Vertical Rods:**
- F-19-V: Latch retention and square bolt at bottom. Latchbolt bottom square bolt 7” throw.
- 19-V: Top stainless steel 7” throw. Bottom square bolt 7” throw.

**Shim Kit:**
- For glass lite applications. 1/4” thick specify SK-19-V-1/4.”

**161 Cylinder:**
- Device covers 161 cylinder with 138X-KL and Centron trim. Other trim requires cover plate.
REVERSIBLE VERTICAL ROD DEVICE 19-V SERIES

**Panic Exit Hardware**

Manufactured to the same exacting standards as the 19 Rim, the 19-V Exit Device complies with most exit door requirements, and is fully reversible and surface applied. This device is regularly furnished with deadlocking top latch with latch retention and square bolt at bottom. The “EO” (Exit Only) device is ready to accept any trim function shown on page 12.

**Specifications**

- **Hand:** Field reversible.
- **Function:** All functions built into “EO” device. All 19 Series trim works with rim or vertical devices. See Trim Selection Chart on pages 12 and 13.
- **Finishes:** Powder-coated aluminum–SP28; powder-coated duranodic–SP313; powder-coated aluminum–SP313; powder-coated duranodic–SP313; stainless steel US-32D.
- **Strike:** 3788 strike is surface applied standard, 2130 strike is mortised into floor.
- **Angle Bracket:** Use 4215 angle bracket in flush transom or rabbeted installations. Allows use of standard 3788 strike.
- **Latchbolt:** Top stainless steel 7/8” throw. Bottom square bolt 7/8” throw.
- **Deadlocking Latchbolt:** Standard.
- **Dogging:** Cylinder dogging: Specify “CD” prefix. Use 1
- **Dogging Feature:** 2789 dogging standard. Bit threaded parts to wear out.
- **Cylinder Dogging:** Specify “CD” prefix. Use 1” long mortise cylinder with standard “A” cam.
- **Stock Sizes:** 35° and 45° (See chart on page 15).
- **Doors:** 1” thick, wood or metal. Specify thickness if other than 1
- **Narrow Stile Doors:** Nu-2” N.S. aluminum. With control trim–2729 screw.
- **Projection:** 1” N.S.
- **Electric Function:** Can be interfaced with building security systems. Security monitoring, electric dogging, exit indicator, and exit alarm available.
- **Fasteners:** All mounting screws are concealed. Single machine screws standard. All machine screws available.
- **Sex Bolts:** 1
- **Shim Kit:** For glass file applications, 1” thick specify SK-19-V.
- **161 Cylindrical:** Device covers 161 cylindrical with KCX-KK and Centron trim.
- **Other trim requires cover plate.

**Fire Exit Hardware**

Manufactured to the same exacting standards as the F-19 Rim, the F-19-V Fire Exit Device complies with most exit door requirements, and is fully reversible and surface applied. This device is regularly furnished with deadlocking top latch retention and square bolt at bottom. (This device is listed by UL for B label fire door installations.) The “EO” (Exit Only) device is ready to accept any trim function shown on page 12.

**Specifications**

- **Hand:** Field reversible.
- **Function:** All functions built into “EO” device. All 19 Series trim works with rim or vertical devices. See Trim Selection Chart on pages 12 and 13.
- **Finishes:** Powder-coated aluminum–SP28; powder-coated duranodic–SP313; stainless steel US-32D.
- **Strike:** 3788 strike is surface applied standard, 2130 strike is mortised into floor.
- **Latchbolt:** Top stainless steel 7/8” throw. Bottom square bolt 7/8” throw.
- **Deadlocking Latchbolt:** Standard.
- **Stock Sizes:** 35° and 45° (See chart on page 15).
- **Doors:** 1” thick, wood or metal. Specify if other than 1
- **Projection:** 1” N.S.
- **Electric Function:** Can be interfaced with building security systems. Security monitoring, electric dogging, exit indicator, and exit alarm available.
- **Fasteners:** All mounting screws are concealed. All machine screws standard.
- **Sex Bolts:** 1
- **Vertical Rods:** Fitted to length based on 45° CL from finished floor and a 7/8” door standard. Variations from these standards must be specified when ordering.
- **Shim Kit:** For glass file applications, 1” thick specify SK-19-V.
- **161 Cylindrical:** Device covers 161 cylindrical with KCX-KK and Centron trim.
- **Other trim requires cover plate.

**Notes:**

- For blank escutcheon specify BE.
- Note: Reversible.
Removable Mullion

- The 2923, (F)4023 and (F)KR4023 steel mullions are for use with the 19–R devices on double door openings. Advantage: increased security and tighter closure. Minimizes door warpage and sag. Regulates the flow of in-and-out traffic.
- Monarch removable mullions are easily removed and reinstalled for full width access. Rim devices are used on both leaves, retaining a perfectly symmetrical opening.
- The mullion assembly consists of a mullion, top and bottom mounting brackets and a screw pack. Soffit adapters are available for use with either the 2923 or the 4023 mullion. Please see Price Book for ordering information.
- The (F)–4023 and KR(F)–4023 fire-rated mullion also includes four stabilizer blocks as required for labeled installations.
- Strikes are not furnished with the mullion. Please see page 11 for strike information.
- KR mullions require 1 1/8" mortise cylinder with standard "A" cam.

Mullion Features

- Mullion fittings - ductile iron.
- (F)4023 and (F)KR4023 - 2" x 3" x height.
- 2923 mullion - 1 1/8" x 2 1/2" x height.
- Prime coat only.
- 7' or 8' door opening standard, other door opening as specified.

Cylinders

Control Trim

- Cylinders for control trim use 1 1/8" mortise cylinder with standard "A" cam (cam measures approximately 1" overall and 3/16" wide at tip), except NL Control which uses rim cylinder with either horizontal or vertical tailpiece.
- Cylinder supplied only when specified. (1 1/2" long and “C” keyway standard.)
- Cylinders available keyed alike and keyed different.

Centron Trim

- Rim cylinder.

Sex Bolts

Sex bolts are available for 1 1/8" door thickness. Screws to fit are available in 3/8" and 2" lengths to cover a wide range of door thicknesses. 2729 (1/4-20 Thread) 4122 (1/4-20 Thread)
Removable Mullion

- The 2923, (F)4023 and (F)KR4023 steel mullions are for use with the 19-R devices on double door openings. Advantage: increased security and tighter closure. Minimizes door warpage and sag. Regulates the flow of in-and-out traffic.
- Monarch removable mullions are easily removed and reinstalled for full width access.
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- The (F)–4023 and KR(F)–4023 fire-rated mullion also includes four stabilizer blocks as required for labeled installations.
- Strikes are not furnished with the mullion. Please see page 11 for strike information.
- Mullions may be cut on the job for doors under stock lengths.

Mullion Features

- Mullion fittings - ductile iron.
- (F)4023 and KR(F)4023 – 2” x 3” x height.
- 2923 mullion – 11/2” x 21/2” x height.
- Prime coat only.
- 7’ or 8’ door opening standard, other door opening as specified.

Cylinders

Control Trim

- Cylinders for control trim use 11/8" mortise cylinder with standard "A" cam (cam measures approximately 1" overall and 3/4” wide at tip), except NL Control which uses rim cylinder with either horizontal or vertical tailpiece.
- Cylinder supplied only when specified. (21/2” long and “C” keyway standard.)
- Cylinders available keyed alike and keyed different.

Centron Trim

- Rim cylinder.

Sex Bolts

- Sex bolts are available for 11/8” door thickness. Screws to fit are available in 3/8” and 2” lengths to cover a wide range of door thicknesses.
  - 2729 (1/4-20 Thread)
  - 4122 (1/4-20 Thread)

Filler Plates

For (F) 19-R Rim Devices (center latching)

- F570 Standard strike.
- F490 Optional strike.
- 565 Adjustable surface mounted for use with blade or applied stops. M Mounts flush for 1 1/2” stop height.

For (F) 19-V Surface Vertical Rod Devices

- 3788 Top strike for 19-V.
- 2130 19-V bottom strike for grouting into concrete or masonry floors.
- 4155 19-V optional bottom strike.

Extension Rods

- Extension rods are available in 12”, 24” and 36” lengths in all finishes. Both ends tapped and all thread included as connector.

Steel Filler Plates

- 3722 Cylindrical Lock Front Filler
- 3721 ASA Strike Filler - set no. SC for 141 cutout
- 3723 Mortise Lock Front Filler
- 3722 ASA Strike Filler - set no. SM for 86 cutout
Control Trim

SP28, SP313 and US-320.

**K-Control**

- **912K**
  - BE
  - KD

**L-Control**

- **912L**
  - BE
  - LD

- **912L**
  - BE
  - LD

- **912L**
  - BE
  - LD

**TP-Control**

- **910TP**
  - BE
  - NL

**DT-Control**

- **910DT**
  - Full when dogged.

**NL-Control**

- **910NL**
  - Key retract latchbolt.

**Cover Plates**

- **4167**
  - 3/4" x 1 1/2" x 2 1/2"
  - Used with TP control & DT control
  - Covers 161 & 86 cutouts

- **4168**
  - 1/2" x 3/4" x 2 1/2"
  - Used with EO device to cover
  - No. 86 cutout for mortise lock
  - Covers 161 & 86 cutouts

**Centron Trim**

- **930 EO**
- **930 C**
- **930 DT**
- **930 NL**

**Key-In-Knob/ Key-In-Lever**

- **913**
- **914KIL**
- **914-KIL-IC**

**Trident Trim**

- **920 DT**
- **920 NL**

**Note:** For “NL” night latch function on TP, K and L, add “NL” after trim number.

All locking trim except KIK and KIL furnished less cylinder.

---

### TRIM CHART

<table>
<thead>
<tr>
<th>DEVICE</th>
<th>DT</th>
<th>NL</th>
<th>TP</th>
<th>T-BE</th>
<th>K</th>
<th>K-BE</th>
<th>K-DT</th>
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<tbody>
<tr>
<td>19-R/19-V</td>
<td>910</td>
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<table>
<thead>
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<th>L</th>
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<td>19-R/19-V</td>
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<table>
<thead>
<tr>
<th>DEVICE</th>
<th>KIK</th>
<th>KIK-LS/LK</th>
<th>KIK-NL</th>
<th>KIL*</th>
<th>KIL-LS/LK</th>
<th>KIL-NL*</th>
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</tbody>
</table>

*Specify hand.

For type 86 cutout specify 4174 inside cover plate.
Control Trim

SP28, SP313 and US-320.

**K-Control**

- 921K
  - BE
  - K-DT
  - NL

**L-Control**

- L-Control-Avalon
  - 922L
  - BE
  - L-DT
  - NL

- L-Control-Dane
  - 922L
  - BE
  - L-DT
  - NL

- L-Control-Sutro
  - 922L
  - BE
  - L-DT
  - NL

- L-Control-Quantum
  - 922L
  - BE
  - L-DT
  - NL

**TP-Control**

- 910TP
  - BE
  - NL

**DT-Control**

- 910DT
  - Pull when dogged.

**NL-Control**

- 910NL
  - Key retracts latchbolt.

Cover Plates

- 4167
  - 31/2” x 15” x .050
  - Used with TP control & DT control
  - Covers 161 & 86 cutouts

- 4168
  - 31/2” x 71/2” x .050
  - Used with EO device to cover
  - No. 86 cutout for mortise lock
  - Covers 161 & 86 cutouts

- 4170
  - 31/2” x 71/2” x .050
  - Used with K control, DT/K control,
  - L control, or DT/L control
  - Covers 161 & 86 cutouts

Key-In-Knob/Key-In-Lever

- 913

- 914KIL
- 914-KIL-IC

Centron Trim

- 930 EO
- 930 C
- 930 DT
- 930 NL

- PULL ONLY 917 DT
  - CETL, 50° Round - 7”
  - Dia./Pull when dogged

Trident Trim

- 920 DT
- 920 NL

TRIM DESIGNS

<table>
<thead>
<tr>
<th>DEVICE</th>
<th>DT</th>
<th>NL</th>
<th>TP</th>
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<th>KIL-NL*</th>
<th>KIL-IC*</th>
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<td>913</td>
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**KIK & KIL**

<table>
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<th>DT</th>
<th>C</th>
<th>DT</th>
<th>NL</th>
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<td>910</td>
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</table>

TRIM CHART

*Specify hand.

Note: For “NL” night latch function on TP, K and L add “NL” after trim number.

All locking trim except KIK and KIL furnished less cylinder.
These pages list all functions available for the 19 Series devices.

**Rim Devices**

**ANSI Type 1 & ANSI Type 4**

- EO or N (03) Exit only, no trim.
- DT (02) Entrance by trim when actuating bar is dogged down.*
- NL (03) Entrance by trim when latchbolt is retracted by key. Key removable only when locked.
- TP (05) Entrance by thumbpiece. Key locks or unlocks thumbpiece. Key removable only when unlocked.
- TP(NL) (06) Entrance by thumbpiece only when released by key. Key removable only when locked.
- K or L or KIK or KIL (08) Entrance by knob or lever. Key locks or unlocks knob.
- K(NL) or L(NL) or KIK(NL) or KIL(NL) Entrance by knob or lever only when released by key. Key removable only when unlocked.

**Vertical Rod Devices**

**ANSI Type 2 & ANSI Type 5**

- EO or N (03) Exit only, no trim.
- DT (02) Entrance by trim when actuating bar is dogged down.*
- NL (03) Entrance by trim when latchbolt is retracted by key. Key removable only when locked.
- TP (05) Entrance by thumbpiece. Key locks or unlocks thumbpiece.
- TP(NL) (06) Entrance by thumbpiece only when released by key. Key removable only when locked.
- K or L or KIK or KIL (08) Entrance by knob or lever. Key locks or unlocks knob.
- K(NL) or L(NL) or KIK(NL) or KIL(NL) Entrance by knob or lever only when released by key. Key removable only when unlocked.

*Fire exit devices cannot be dogged down. Some codes permit electric dogging with fail secure circuitry.

**Security Monitor**

Latch, device, and authorized egress monitors. (See Electrified Hardware catalog.)

**Electric Function**

Electric dogging. (See Electrified Hardware catalog.)

**Fire Exit Hardware**

Use “F” prefix for fire exit hardware.

**Dimensions:**

- Recommended height from finished floor – 40 5/16” at CL.
- Touchbar Projections: Neutral - 2 1/4”, Depressed - 1 3/8”
- Extension rods or longer top rods available upon request. Specify door height.
- Dummy touchbar available. Specify 190 DT 3’ or 4’. Overall length: 3’ 300° 4”, 420°
- Changes for minimum door size for charts on left: For cylinder dogging, add 2 1/4” to minimum door size. For exit alarm, add 4 1/2” to minimum door size. For electric dogging, add 4 1/2” to minimum door size.
- To fit on smaller door consult factory.

**Double Doors**

<table>
<thead>
<tr>
<th>DEVICE &amp; TRIM</th>
<th>Length</th>
<th>Top Strike</th>
<th>Bottom Strike</th>
<th>Min. Stile</th>
<th>Door Opening Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>19-R-EO</td>
<td>3'0&quot;</td>
<td>3'0&quot;</td>
<td>3'0&quot;</td>
<td>3'0&quot;</td>
<td>3'0&quot; TO 4'0&quot;</td>
</tr>
<tr>
<td>19-V-EO</td>
<td>4'0&quot;</td>
<td>3'0&quot;</td>
<td>3'0&quot;</td>
<td>3'0&quot;</td>
<td>3'0&quot; TO 4'0&quot;</td>
</tr>
</tbody>
</table>

*For EO, O with pull and NL functions only. 2 1/4” minimum stile required for control trim.

**Single Doors with 1/2” Stop**

<table>
<thead>
<tr>
<th>DEVICE &amp; TRIM</th>
<th>Length</th>
<th>Strike</th>
<th>Min. Stile</th>
<th>Door Opening Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>19-R-TP</td>
<td>3'0&quot;</td>
<td>3'0&quot;</td>
<td>3'0&quot;</td>
<td>3'0&quot; TO 4'0&quot;</td>
</tr>
<tr>
<td>19-V-TP</td>
<td>4'0&quot;</td>
<td>3'0&quot;</td>
<td>3'0&quot;</td>
<td>3'0&quot; TO 4'0&quot;</td>
</tr>
</tbody>
</table>

**Double Doors with Mullion**

<table>
<thead>
<tr>
<th>DEVICE &amp; TRIM</th>
<th>Length</th>
<th>Strike</th>
<th>Min. Stile</th>
<th>Door Opening Width</th>
<th>Fire</th>
<th>Panic</th>
</tr>
</thead>
<tbody>
<tr>
<td>19-R</td>
<td>3'0&quot;</td>
<td>3'0&quot;</td>
<td>3'0&quot;</td>
<td>2 5/8&quot; TO 3'0&quot;</td>
<td>2929</td>
<td>-</td>
</tr>
<tr>
<td>19-V</td>
<td>3'0&quot;</td>
<td>3'0&quot;</td>
<td>3'0&quot;</td>
<td>2 5/8&quot; TO 3'0&quot;</td>
<td>4022</td>
<td>-</td>
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<tr>
<td>19-R-TP</td>
<td>3'0&quot;</td>
<td>3'0&quot;</td>
<td>3'0&quot;</td>
<td>3'0&quot; TO 4'0&quot;</td>
<td>2929</td>
<td>-</td>
</tr>
<tr>
<td>19-V-TP</td>
<td>4'0&quot;</td>
<td>3'0&quot;</td>
<td>3'0&quot;</td>
<td>3'0&quot; TO 4'0&quot;</td>
<td>4022</td>
<td>-</td>
</tr>
</tbody>
</table>

*To cover 161 cutout on double door installation, specify 2923 mullion with 565 strike.
These pages list all functions available for the 19 Series devices.

### Rim Devices

**ANSI Type 1 & 4**

- **EO (N)**
  - Exit only, no trim.

- **DT (NL)**
  - Entrance by trim when latchbolt is retracted by key. Key removable only when locked.

- **TP (05)**
  - Entrance by thumbpiece. Key locks or unlocks thumbpiece.

- **TP (NL) (06)**
  - Entrance by thumbpiece only when released by key. Key removable only when locked.

**ANSI Type 2 & 5**

- **K or L or KIK or KIL (08)**
  - Entrance by knob or lever. Key locks or unlocks knob.

- **K (NL) or L(NL) or KIK(NL) or KIL(NL) (09)**
  - Entrance by knob or lever only when released by key. Key removable only when locked.

### Vertical Rod Devices

**ANSI Type 2 & 4**

- **EO or N (01)**
  - Exit only, no trim.

- **DT (02)**
  - Entrance by trim, when actuating bar is dogged down.

- **NL (03)**
  - Entrance by trim when latchbolt is retracted by key. Key removable only when locked.

- **TP (05)**
  - Entrance by thumbpiece. Key locks or unlocks thumbpiece.

- **TP (NL) (06)**
  - Entrance by thumbpiece only when released by key. Key removable only when locked.

**Electric Function**

- **Electric dogging:** (See Electrified Hardware catalog.)

**Security Monitor**

- **Latch, device, and authorized egress monitors. (See Electrified Hardware catalog.)**

**Fire Exit Hardware**

- Use “F” prefix for fire exit hardware.

### Dimensions

- **Recommended height from finished floor:** 40-1/16” at CL.
- **Touchbar Projections:** Neutral - 2-1/2”, Depressed - 1-1/2”
- **Extension rods or longer top rods available upon request.** Specify door height.
- **Dummy touchbar available.** Specify 190 DT 3” or 4”.
- **Overall length:** 3” 300°; 4” 420°.
- **Changes for minimum door size for charts on left:** For cylinder dogging, add 2-1/4” to minimum door size. For exit alarm, add 4-1/2” to minimum door size. For electric dogging, add 4-1/2” to minimum door size.
- **To fit on smaller door consult factory.*

### Double Doors

<table>
<thead>
<tr>
<th>DEVICE &amp; TRIM</th>
<th>Length</th>
<th>Strike</th>
<th>Min. Stile</th>
<th>Door Opening Width</th>
<th>Fire</th>
<th>Mullion</th>
<th>Panic</th>
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</thead>
<tbody>
<tr>
<td>F-19-V-EO</td>
<td>3’0”</td>
<td>3788</td>
<td>2130</td>
<td>3’1” TO 4’0”</td>
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<tr>
<td>F-19-V-EO</td>
<td>4’0”</td>
<td>3788</td>
<td>2130</td>
<td>3’1” TO 4’0”</td>
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<td></td>
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</table>

*Fire exit devices cannot be dogged down. Some codes permit electric dogging with fail secure circuitry.*

### Double Doors with Mullion

<table>
<thead>
<tr>
<th>DEVICE &amp; TRIM</th>
<th>Length</th>
<th>Strike</th>
<th>Min. Stile</th>
<th>Door Opening Width</th>
<th>Fire</th>
<th>Mullion</th>
<th>Panic</th>
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<tbody>
<tr>
<td>F-19-R-TP(NL)</td>
<td>3’0”</td>
<td>F570</td>
<td>31/8”</td>
<td>2’5-1/4” TO 3’0”</td>
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<td></td>
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<tr>
<td>F-19-R-TP(NL)</td>
<td>4’0”</td>
<td>F570</td>
<td>31/8”</td>
<td>3’0” TO 4’0”</td>
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</table>

*To cover 161 cutout on double door installation, specify 2923 mullion with 565 strike.

### Single Doors with ¾” Stop

<table>
<thead>
<tr>
<th>DEVICE &amp; TRIM</th>
<th>Length</th>
<th>Strike</th>
<th>Min. Stile</th>
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<th>Fire</th>
<th>Mullion</th>
<th>Panic</th>
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</thead>
<tbody>
<tr>
<td>F-19-R</td>
<td>3’0”</td>
<td>F570</td>
<td>31/8”</td>
<td>2’5-1/4” TO 3’0”</td>
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<td></td>
</tr>
<tr>
<td>F-19-R</td>
<td>4’0”</td>
<td>F570</td>
<td>31/8”</td>
<td>3’0” TO 4’0”</td>
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<td></td>
<td></td>
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</table>

*For EO, D with pull and NL functions only. 2-1/4” minimum stile required for control trim.*

### Double Doors with Mullion

<table>
<thead>
<tr>
<th>DEVICE &amp; TRIM</th>
<th>Length</th>
<th>Strike</th>
<th>Min. Stile</th>
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<th>Mullion</th>
<th>Panic</th>
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<td>31/8”</td>
<td>2’5-1/4” TO 3’0”</td>
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<td></td>
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<tr>
<td>F-19-V-LBR</td>
<td>4’0”</td>
<td>F570</td>
<td>31/8”</td>
<td>3’0” TO 4’0”</td>
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*For (F-) 19-V-LBR use “V” information less bottom strike. F-19-V-LBR requires use of auxiliary fire latch.*

### Rim Devices

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<thead>
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<th>ANSITYPE</th>
<th>DEVICE &amp; TRIM</th>
<th>Length</th>
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<td>F-19-R</td>
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<td>2’5-1/4” TO 3’0”</td>
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<td>F-19-R(K)</td>
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</tbody>
</table>

**Dimensions:**

- **Recommended height from finished floor:** 40-5/16” at CL.
- **Touchbar Projections:** Neutral - 2-1/2”, Depressed - 1-1/2”
- **Extension rods or longer top rods available upon request.** Specify door height.
- **Dummy touchbar available.** Specify 190 DT 3” or 4”.
- **Overall length:** 3” 300°; 4” 420°.
- **Changes for minimum door size for charts on left:** For cylinder dogging, add 2-1/4” to minimum door size. For exit alarm, add 4-1/2” to minimum door size. For electric dogging, add 4-1/2” to minimum door size.
- **To fit on smaller door consult factory.**

### Security Monitor

- **Latch, device, and authorized egress monitors. (See Electrified Hardware catalog.)**
Ingersoll Rand’s Security Technologies Sector is a leading global provider of products and services that make environments safe, secure and productive. The Sector’s market-leading products include electronic and biometric access control systems; time and attendance and personnel scheduling systems; mechanical locks and portable security; door closers and exit devices, steel doors and frames, architectural hardware and technologies and services for global security markets.

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