

**IVES**®  
COMMERCIAL

# FINISHES

## KEY TO BASE MATERIALS & PROCESSING

| IVES Material Symbol | Material        | Process   |
|----------------------|-----------------|-----------|
| A                    | Aluminum        | Burnished |
| MA, PA               | Aluminum        | Polished  |
| B, MB                | Brass or Bronze | Polished  |
| BB                   | Brass or Bronze | Burnished |
| F                    | Iron or Steel   | Burnished |
| P                    | Plastic         | N/A       |
| R                    | Rubber          | N/A       |
| S                    | Stainless Steel | Polished  |
| Z                    | Zinc            | Burnished |

## KEY TO FINISHES

| Description of Finishes                | Finish No. | ANSI/BHMA* | Description of Finishes            | Finish No. | ANSI/BHMA* |
|--|------------|------------|------------------------------------|------------|------------|
| Almond Epoxy Coated Aluminum           | A          | N/A        | Bright Nickel Plated, Clear Coated | 14         | 618        |
| Aluminum, Prime Painted                | AP         | N/A        | Satin Nickel Plated, Clear Coated  | 15         | 619        |
| Steel, Prime Painted                   | FP         | 600        | Satin Nickel Plated, Blackened     | 15A        | 620        |
| Black Epoxy Coated                     | BLK        | N/A        | Flat Black Coated                  | 19         | 622        |
| Plastic                                | P          | N/A        | Bright Chromium Plated             | 26         | 625        |
| Rubber                                 | R          | N/A        | Satin Chromium Plated              | 26D        | 626        |
| White Epoxy Coated                     | W          | N/A        | Satin Aluminum, Clear Anodized     | 28         | 628        |
| Zinc Plated                            | 2C         | 603        | Dark Bronze Painted                | 69         | 690        |
| Bright Brass, Clear Coated             | 3          | 605        | Aluminum, Clear Coated             | 92         | 673        |
| Satin Brass, Clear Coated              | 4          | 606        | Matte Black                        | 406        | N/A        |
| Satin Brass                            | 5          | 609        | Bright Brass, Lifetime Finish      | 505        | N/A        |
| Satin Bronze, Clear Coated             | 10         | 612        | Aged Bronze, Steel                 | 716        | N/A        |
| Dark Oxidized Satin Bronze, Oil Rubbed | 10B        | 613        | Aged Bronze, Brass                 | 716E       | N/A        |

\*Standard finish code, includes base metal






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## FLUSH BOLTS & COORDINATORS



### FLUSH BOLTS - METAL DOORS

|   |  |   |   |   |
|---|--|---|---|---|
|    |   |    |    |    |
| <b>FB31P Pair</b>   | <b>FB32</b>  | <b>FB457</b>  | <b>FB458</b>  | <b>FB51P</b>  |
| <p>Automatic<br/>Top and Bottom Bolts<br/>FB31P for hollow metal doors. Both bolts are non handed, but are not identical. The top bolt has no spring tension, resulting in lower actuation force with a smoother operation.</p> | <p>Automatic<br/>Top Bolt with Auxiliary Fire Latch<br/>FB32 combination includes FB31T Top Bolt with auxiliary fire latch. Provides a fire-listed application without a bottom bolt. Meaning no floor prep and strike. The auxiliary fire latch, mounted in the door edge, releases under extremely high temperatures to keep the doors in alignment during a fire.</p> | <p>Manual<br/>Top or Bottom Bolt<br/>When the active door is opened, the lever can be moved to the 'up' position, retracting the bolt and allowing the inactive leaf to be opened. When the inactive leaf is closed, the lever can be moved to the 'down' position, projecting the bolt into the strike and securely locking the inactive leaf. UL listed for Fire Doors.</p> | <p>Manual<br/>Top or Bottom Bolt<br/>When the active door is opened, the lever can be moved to the 'up' position, retracting the bolt and allowing the inactive leaf to be opened. When the inactive leaf is closed, the lever can be moved to the 'down' position, projecting the bolt into the strike and securely locking the inactive leaf. UL listed for Fire Doors.</p> | <p>Constant Latching<br/>Top and Bottom Bolts<br/>FB51P combines FB51T constant latching top bolt with FB31B automatic bottom bolt. Non-handed. UL listed for Fire Doors.</p> |
| Finishes: 3, 10B, 32, 32D   | Finishes: 32D  | Finishes: 3, 10B, 26, 26D   | Finishes: 3, 10, 10B, 26, 26D   | Finishes: 3, 10B, 32D   |


### FLUSH BOLTS - WOOD DOORS

|  |   |   |   |
|--|---|---|---|
|   |    |   |    |
| <b>FB358</b>   | <b>FB41P Pair</b>   | <b>FB42</b>   | <b>FB61P Pair</b>   |
| <p>Manual<br/>Top or Bottom Bolts<br/>When the active door is opened, the lever can be moved to the 'up' position, retracting the bolt and allowing the inactive leaf to be opened. When the inactive leaf is closed, the lever can be moved to the 'down' position, projecting the bolt into the strike and securely locking the inactive leaf. UL listed for Fire Doors. Non-handed.</p> | <p>Automatic<br/>Top and Bottom Bolts<br/>Both bolts are non-handed, but are not identical. The top bolt has no spring tension, resulting in lower actuation force with a smoother operation.</p> | <p>Automatic<br/>Top Bolt with<br/>Auxiliary Fire Latch<br/>FB42 combination includes FB41T Top Bolt with auxiliary fire latch. Provides a fire-listed application without a bottom bolt-meaning no floor prep for strike. The auxiliary fire latch, mounted in the door edge, releases under extremely high temperatures to keep the doors in alignment during a fire.</p> | <p>Constant Latching<br/>Top and Bottom Bolts<br/>FB61P combines FB61T constant latching top bolt with FB41B bottom bolt.</p> |
| Finishes: 3, 10B, 26D  | Finishes: 3, 4, 10, 10B, 32, 32D  | Finishes: 32D   | Finishes: 3, 10, 10B, 32D   |


## DUST PROOF STRIKES

|  |   |
|--|---|
|   |  |
| DPI  | DP2   |
| Designed for use with the bottom bolt of all Ives flush bolts.<br>Spring-loaded plunger returns to floor or threshold level anytime flush bolt is retracted, eliminating need to clean standard floor strikes. |   |
| Finishes: 3, 10B, 26, 26D  | Finishes: 3, 10, 10B, 26, 26D   |



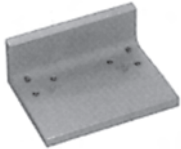
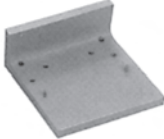
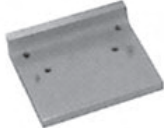
## COORDINATORS - BAR COORDINATORS & FILLER BARS

|   |                      |                      |                          |
|---|----------------------|----------------------|--------------------------|
|   |                      |                      |                          |
| COR32<br>32" Channel  | COR52<br>52" Channel | COR60<br>60" Channel | COR72<br>72" Channel     |
| The COR Series Coordinators are designed for use on pairs of doors when one door needs to close before the other. ALL COR units function easily. The active door lever, located nearest to the active stop, holds the active door open until the trigger mechanism is released by the closing of the inactive leaf. All COR units are equipped with an override feature which allows the active door to close under extreme pressure. The COR Series does not cover the entire length of the stop, so a filler bar can be provided to maintain architecturally clean lines. |                      |                      |                          |
| Finishes: 28  | Finishes: 28, 315AN  | Finishes: 28         | Finishes: 26D, 28, 315AN |


## FILLER BARS

|   |                            |                            |
|---|----------------------------|----------------------------|
|   |                            |                            |
| FL20<br>20" Overall Length  | FL32<br>32" Overall Length | FL44<br>44" Overall Length |
| The FL Filler Bars are available in three sizes for variable frame openings.<br>FL Filler Bars are made of aluminum and are field sized to frame opening. |                            |                            |
| Finishes: 26D, 28, 315AN  | Finishes: 28               | Finishes: 28               |


## MOUNTING BRACKETS

|  |   |   |  |   |
|--|---|---|--|---|
|   |  |    |  |  |
| <b>MB1</b><br>Stop Width: Over 2-1/2"  | <b>MB2</b><br>Stop Width: Up to 2 1/2"  | <b>MB1F</b><br>Jamb Depth: 5" Min<br>Stop Width: 1-1/2" to 2-1/4"   | <b>MB2F</b><br>Jamb Depth: 5-7/8" Min<br>Stop Width: 2-3/8" to 3-1/4"              | <b>MB3F</b><br>Jamb Depth: 6-7/8" Min<br>Stop Width: 3-3/8" and Wider               |
| <p>Allows stop mounted hardware to be properly installed without damaging the COR coordinator, such as a parallel arm closer or a non-fire-rated surface vertical rod strike. Stop mounted hardware will need to be lowered to compensate for the height of the coordinator and mounting bracket. MB mounting brackets are made of aluminum.</p> |   | <p>Allows stop mounted hardware to be properly installed without damaging the COR coordinator. Example: Strike for fire-rated surface vertical rod exit device. Stop mounted hardware will need to be lowered to compensate for the height of the coordinator and mounting bracket. MBF mounting brackets are made of 3/8" thick steel.</p> |  |   |
| Finishes: P  | Finishes: P   | Finishes: P   | Finishes: P  | Finishes: P   |

## GRAVITY COORDINATORS



|   |
|---|
|    |
| <b>COR7G</b>  |
| <p>UL listed for fire doors. Non-handed. Gravity action arm and door bracket are adjustable on the job for ease of installation. Nylon roller provides quiet and efficient operation, and helps protect the astragal and doors from damage. Made of forged brass. For 7" Projection for Pairs of Doors.</p> |
| Finishes: 3, 10, 10B, 26D   |

## CARRY BAR



|   |
|---|
|    |
| <b>CBI</b>  |
| <p>Used when it is possible for the inactive door to be opened before the active door. Prevents damage to the doors and other hardware. Nylon roller insures quiet and efficient operation. Non-handed. Steel construction.</p> |
| Finishes: 10B, 26D, P   |

# ARCHITECTURAL DOOR TRIM




## DOOR PULLS & PULL PLATES

|  |   |
|--|---|
|   |    |
| <b>8103EZ</b>  | <b>8300</b>   |
| Made from the finest architectural brass, stainless steel and aluminum available. Door pulls are packed with standard type fasteners for 1-3/4" doors. | Pull Plates. Made from the finest architectural aluminum, brass and stainless steel. Each pull plate is packaged individually wrapped with mounting screws. |
| 8" Finishes: 26D<br>10" Finishes: 26D<br>12" Finishes: 26D   | Finishes: 28  |

## PUSH PLATES & KICK PLATES

|   |   |   |                      |
|---|---|---|----------------------|
|       |    |   |                      |
| <b>8200</b>   | <b>8400</b>   |   |                      |
| Push Plate.<br>Made from the finest architectural aluminum, brass, and stainless steel. | Kick Plate. Protect the bottom of the push side of doors subject to scuffing from foot traffic.<br>Recommended for all doors subject to normal use (especially doors using a closer). |   |                      |
| Finishes: B15   | 6x28 Finishes: B5<br>6x32 Finishes: B3, B5<br>6x34 Finishes: B3<br>6x36 Finishes: B5<br>6x40 Finishes: B3   | 8x30 Finishes: B5, S32D<br>8x34 Finishes: B3<br>8x36 Finishes: B5<br>8x38 Finishes: B3<br>8x40 Finishes: PA28 | 10x34 Finishes: S32D |

## VANDAL RESISTANT TRIM







|   |   |   |   |
|---|---|---|---|
|  |  |    |   |
| <b>VR810</b><br>DT  | <b>VR810</b><br>NLLHR/NLRHR   | <b>VR900</b><br>LHR/RHR   | <b>VR910</b><br>DT  |
| Vandal-resistant trim for use with Monarch 18 Series Vertical exit devices.         | Vandal-resistant trim for use with Monarch 18 Series Rim and Vertical exit devices. | Includes built-in lock protector and cylinder cutout. Handed design allows trim to be positioned to coordinate with the center line of inside hardware. | For use with Von Duprin 98/99 Series Rim and Vertical exit devices. Thru-bolts directly to device. Pull operation only. No cylinder cutout. |
| Finishes: 32D   | Finishes: 32D   | Finishes: 32D   | Finishes: 32D   |

## FLOOR STOPS, WALL STOPS & BUMPERS




### DOME FLOOR STOPS

|  |   |   |   |   |
|--|---|---|---|---|
|                   |    |    |   |    |
| <b>FS13</b>  | <b>FS436</b>  | <b>R435</b>   | <b>FS438</b>  | <b>R437</b>   |
| Standard FS13 for use where no threshold is used. Heavy-duty cast dome stops constructed of brass. | For doors without threshold. Heavy-duty cast dome stops constructed of brass, bronze or aluminum. Gray, non-marring rubber bumper. Packed with wood screws. | Riser for Floor Dome Stop FS436. Extruded aluminum, mill finish. For conversion of FS436 Dome Stop to carpet installation. Packed with wood screws, lead shield and stud. | For doors with threshold or undercut doors. Heavy-duty cast dome stops constructed of brass, bronze or aluminum. Gray, non-marring rubber bumper. Packed with wood screws and plastic anchor. | Riser for Floor Dome Stop FS438. Extruded aluminum, mill finish. For conversion of FS438 Dome Stop to carpet installation. Packed with wood screws, lead shield and stud. |
| Finishes: 4  | Finishes: 3, 10, 10B, 15A, 26, 26D  | Finishes: 27  | Finishes: 3, 10, 10B, 26, 26D   | Finishes: 27  |





### FLOOR STOPS

|  |   |   |   |   |  |
|--|---|---|---|---|--|
|   |    |              |    |    |   |
| <b>FS18S</b>   | <b>FS434</b>  | <b>FS441</b>  | <b>FS442 &amp;<br/>FS442WS</b>  | <b>FS444</b>  | <b>FS448</b>   |
| Security Door Stop. Ideal for use in high vandalism areas. Molded from flame resistant, resilient material around a heavy-duty stud. Once grouted in concrete, leaves no exposed fasteners to be tampered with or removed. | Burnished wrought steel. Soft resilient gray rubber. For undercut doors up to 1-1/2". | Heavy duty cast brass or aluminum with a non-marring rubber bumper. Door undercut up to 1-1/2". | Heavy duty cast brass or aluminum with a non-marring rubber bumper. Door undercut up to 2".<br><br>FS442WS is the same as FS442 with wood screws added. | Ideal for interior or exterior use. Made of cast brass. Door undercut up to 2-1/2". Non-marring rubber tip. Packed with expansion shield and lead shield. | Ideal for interior or exterior use. Made of cast brass. Door undercut up to 2-1/2". Non-marring rubber tip. Packed with wood screws. |
| Finishes: Black  | Finishes: 2C  | Finishes: 3, 10B, 26D, 28   | FS442 Finishes: 3, 10B, 26, 26D<br>FS442WS Finishes: 26D  | Finishes: 3, 10B, 26, 26D, 28   | Finishes: 3, 10, 10B, 26, 26D  |



## FLOOR DOOR STOPS & MANUAL HOLDERS

|  |  |   |
|--|--|---|
|   |   |    |
| <b>FS446</b>   | <b>FS450</b>   | <b>FS451 &amp; FS451WS</b>  |
| Floor stop with manual hook door holder. Ideal for interior or exterior use. Cast brass or aluminum. Non-marring rubber tip. Door undercut up to 2-1/2". | Floor stop with manual hook door holder. Ideal for interior or exterior use. Cast brass or aluminum. Non-marring rubber tip. Door undercut up to 2-1/2". | Manual type door holder ideal for interior or exterior use. Cast brass. Strike features hinged hook which engages the holder. Door undercut up to 2-1/2". Resilient rubber tip. FS451WS same as FS451 with wood screws. |
| Finishes: 3, 10, 10B, 26, 26D, 28  | Finishes: 3, 10B, 26, 26D, 28  | FS451 Finishes: 3, 26D<br>FS451WS Finishes: 26D   |






## FLOOR DOOR STOPS & AUTOMATIC HOLDERS

|  |  |  |  |
|--|--|--|--|
|    |    |   |    |
| <b>FS40</b>  | <b>FS41</b>  | <b>FS495</b>   | <b>FS496</b>   |
| Ideal for heavy-traffic situations, that require a simple, fool proof, Hold-Open device. Unit is activated automatically when door is opened. A firm pull on door releases the mechanism. Door to Floor Clearance 1/2" or less | Ideal for heavy-traffic situations, that require a simple, fool proof, Hold-Open device. Unit is activated automatically when door is opened. A firm pull on door releases the mechanism. Door to Floor Clearance 9/16" to 1-1/16" | Ideal for heavy-traffic situations that require a simple Hold-Open device. Cast brass. Holds door 3-3/4" from wall. Recommended installation is holder on door and strike on wall. | Ideal for heavy-traffic situations that require a simple Hold-Open device. Cast brass, holds door 3-3/4" from wall. Recommended installation is holder on door and strike on wall. Door to Floor Clearance 3/8" maximum. |
| Finishes: 26D  | Finishes: 26D  | Finishes: 26D  | Finishes: 26D  |

## PLUNGER TYPE DOOR HOLDERS

|   |  |
|---|--|
|    |   |
| <b>FS1153</b>   | <b>FS1154</b>  |
| Spring operated plunger activates with minimal pressure, releasing instantly with a light tap on the plat-form lever. Provides a 1-5/8" throw for all types of doors. Cast aluminum. Ribbed non-marring rubber shoe is securely fastened to unit with a screw and is easily replaced. | Plunger is easily activated with minimal pressure, releasing instantly with a light tap on the plat-form lever. Plunger and internal parts are plated steel and provides a 1-1/4" throw for all types of doors. Heavy duty cast brass or bronze. Round non-marring rubber shoe is securely fastened with a screw in flanged cup to prevent movement or loss. |
| Finishes: 28  | Finishes: 10B, 26, 26D   |






## KICK DOWN DOOR HOLDERS

|  |  |  |   |   |
|--|--|--|---|---|
|   |   |   |    |    |
| FS452-4  | FS452-5  | FS455  | FS544   | FS555   |
| Units provide simple hold and release, activated with a touch of the foot. Cast brass or aluminum construction. Stainless steel spring. Non-marring rubber shoes have corrugated bottoms to provide secure grip. | Units provide simple hold and release, activated with a touch of the foot. Cast brass or aluminum construction. Stainless steel spring. Non-marring rubber shoes have corrugated bottoms to provide secure grip. | Units provide simple hold and release, activated with a touch of the foot. Cast brass or aluminum construction. Non-marring rubber shoes have corrugated bottoms to provide secure grip and a shank which forms its own thread when screwed into threaded cavity. Door to Floor Clearance 2" or less | Units provide an economical method to hold open doors. Cast of durable iron. Non-marring rubber shoes have corrugated bottoms to provide secure grip. Rubber shoe is securely fastened with screw. Door to Floor Clearance 2" or less | Units provide an economical method to hold open doors. Cast of durable iron. Non-marring rubber shoes have corrugated bottoms to provide secure grip. Rubber shoe is securely fastened with screw. Door to Floor Clearance 3" or less |
| Finishes: 26D, 28  | Finishes: 10, 26D  | Finishes: 3, 10B, 26, 26D, 92  | Finishes: 4, 10, 28   | Finishes: 28  |





## WALL BUMPERS

|  |  |   |   |
|--|--|---|---|
|   |   |   |    |
| WS401CVX   | WS404CVX   | WS407CCV  | WS407CVX  |
| Heavy-duty cast brass or aluminum base. Special retainer cup makes rubber tamper resistant. Designed with a convex rubber bumper, packed with wood screw and plastic anchor. | Cast brass. Compact size. Totally concealed mounting discourages vandalism or tampering. Unit furnished with grey convex rubber bumper. Packed with sheet metal screw, rawl plug and brad. | Sturdy yet economical wrought base of brass, aluminum or stainless steel. Features concealed tamper-proof mounting. Concave rubber bumper which avoids damage to locks with projecting buttons and is packed with screw and drywall anchor. | Sturdy yet economical wrought base of brass, aluminum or stainless steel. Feature concealed tamper-proof mounting. Convex rubber bumper packed with screw and drywall anchor. |
| Finishes: 10B  | Finishes: 3, 10B   | Finishes: 3, 5, 10, 10B, 15, 15A, 26, 32D   | Finishes: 3, 10, 10B, 26, 26D, 32D  |




## WALL STOPS

|  |  |   |   |   |
|--|--|---|---|---|
|   |   |    |    |    |
| <b>WS11</b>  | <b>WS33</b>  | <b>WS65</b>   | <b>WS443</b>  | <b>WS447</b>  |
| Heavy duty cast brass. WS11 is furnished with 3 countersunk mounting holes for drywall mounting. WS11X is furnished with a threaded stud and expansion shield which is used for masonry type mounting. | Durable cast brass. Sturdy rubber bumper with offset shoulder screws into cavity on body to prevent loss or theft. Sloping design discourages vandalism. | Burnished cast aluminum. Non-marring rubber bumper. Packed with sheet metal screws. | Constructed in brass. Ideal for interior or exterior use. Non-marring rubber tip. Packed with expansion shield and lead shield. | Constructed in brass or aluminum. Ideal for interior or exterior use. Non-marring rubber tip. Furnished with 3 mounting holes for drywall mounting. |
| Finishes: 26D  | Finishes: 26D  | Finishes: 3   | Finishes: 3, 26, 26D, 28  | Finishes: 3, 10B, 26, 26D, 28   |

## MANUAL WALL HOLDERS & AUTOMATIC WALL HOLDERS

|  |  |   |  |
|--|--|---|--|
|                                     |    |    |    |
| <b>WS20</b>  | <b>WS445</b>   | <b>WS40</b>   | <b>WS45</b>  |
| Constructed in cast brass. Rubber bumpers feature off-set shoulder and threaded shank that screws into body of holder. | Constructed in cast brass or aluminum. Unit functions as a stop but serves as a Hold-Open device when hook is manually engaged in strike. Resilient, non-marring rubber tip. Packed with expansion shield and lead shield. | Cast brass, or aluminum. Holder is mounted on wall and strike is mounted on door. Roller on holder rides up seats itself on strike, with a heavy duty bumper pad deadening the sound and shock. | Cast brass, bronze or aluminum. Spring loaded roller rides up the face of the strike, seating itself on the strike, holding the door firmly in the open position. A heavy rubber pad cushions the shock and absorbs the sound. |
| Finishes: 26D  | Finishes: 3, 10, 10B, 26, 26D, 28  | Finishes: 26D   | Finishes: 26D  |

## ROLLER BUMPERS


|  |  |  |
|--|--|--|
|   |    |   |
| <b>RB470</b>   | <b>RB471</b>   | <b>RB472</b>   |
| Constructed in heavy-duty cast brass. Used where two doors open against each to prevent damages to doors or hardware. Overall Length: 5" | Constructed in heavy-duty cast brass. Ideal for use in situations where doors meet each other at approximate right angles (back to back). Overall Length: 4-1/2" | Constructed in heavy-duty cast brass. Ideal for use in situations where doors meet each other at approximate right angles (back to back). Overall Length: 6" |
| Finishes: 3, 10B, 26D  | Finishes: 3, 10B, 26D  | Finishes: 3, 10B, 26D  |

## DOOR STOP TIPS & DOOR SILENCERS




|   |   |   |   |
|---|---|---|---|
|  |    |   |      |
| <b>RT</b>   | <b>SR64</b>   | <b>SR65</b>   | <b>SR66</b>   |
| Rubber door stop tip.   | For use on metal frames. Features a pneumatic design that, once installed, forms an air pocket to absorb shock and reduce noise of door closing. Tamper-proof once installed on the frame. Also eliminates door rattle and provides constant tension for door latches or locks. | For use on wood frames. Features a pneumatic design that, once installed, forms an air pocket to absorb shock and reduce noise of door closing. | Self adhesive rubber silencers. Economical installation requires no drilling of frames. |
| Finishes: White   | For Metal Frames (100/bag)  | For Wood Doors (100/bag)  | Adhesive Backed   |

## SURFACE BOLTS, DUTCH DOOR BOLTS & DOOR GUARDS

### SURFACE BOLTS






|  |  |  |  |
|--|--|--|--|
|   |  |  |  |
| <b>SBI630T</b><br>Steel / Universal Top Strike   | <b>SBI630B</b><br>Steel / Flat Bottom Strike | <b>SBI630BL</b><br>Steel / Flat Bottom Strike / Locking Bolt | <b>SBI630TL</b><br>Steel / Universal Top Strike / Locking Bolt |
| <p>Standard Surface Bolt has 1" throw for maximum security.<br/>                     Ideal for all types of doors.<br/>                     Fully concealed mounting prevents vandalism.<br/>                     Available in locking version.<br/>                     Constructed of heavy duty steel.<br/>                     Units available with either a universal top strike (T) or a flat bottom strike (B).</p> |  |  |  |
| Finishes: 2G, 26D  | Finishes: 2G                                 | Finishes: 2C, 2G, 10, 26D                                    | Finishes: 2G   |

## SURFACE BOLTS


|   |  |   |                   |
|---|--|---|-------------------|
|    |   |    |                   |
| <b>SB454</b>  | <b>SB360-12T</b>   | <b>SB453-8TB</b>  | <b>SB453-12TB</b> |
| Surface bolt has 1-3/16" throw for maximum security. Jimmy-resistant design, bolt locks automatically when thrown, can be released only by pressing knob toward door while retracting. Ideal for all types of doors. Constructed of heavy duty steel. | Surface Bolt has 1-2/4" throw for maximum security. Jimmy-resistant design, bolt locks automatically when thrown, can be released only by pressing knob toward door while retracting. Ideal for all types of doors. Available in 12" or 24" lengths. | Surface Bolt has 1-3/16" throw for maximum security. Strong tension springs prevent creep. Ideal for all types of doors. Constructed of heavy duty steel. Units packed with universal top strike (T) and a mortise bottom strike (B). |                   |
| 5" Finishes: 2C<br>8" Finishes: 2C, 26D<br>12" Finishes: 2C, 26D  | Finishes: 2C   | Finishes: 2C, 2G, 10, 26D   | Finishes: 2C, 26D |

## EXTERIOR DOOR HARDWARE

### LOCK GUARDS





|  |   |   |  |  |
|--|---|---|--|--|
|   |    |    |   |   |
| <b>LG1</b>   | <b>LG10</b>   | <b>LG11</b>   | <b>LG12</b>  | <b>LG13</b>  |
| Units are non-handed and incorporate security frame pin to prevent separation of the door and frame. Covers the latch bolt area of the door and lock, thereby providing added protection. Ideal for use with mortise or cylindrical locks. | Ideally suited for use with rose or escutcheon 2-3/4" wide or less. No exposed fasteners on face of unit. Unique design provides maximum security, virtually eliminating the opening between door and frame at the latch point. | Designed for use on aluminum doors with latch-type locks or doors equipped with electric strikes. Unit is handed - specify left or right when ordering. No exposed fasteners on face of unit. Unique design provides maximum security, virtually eliminating the opening between door and frame at the latch point. | Narrow design unit for use on rose or escutcheon 3-1/2" or less. No exposed fasteners on face of unit. Unique design provides maximum security, virtually eliminating the opening between door and frame at the latch point. | Designed for use on all Type 161 Cylinder Locks. No exposed fasteners on face of unit. Unique design provides maximum security, virtually eliminating the opening between door and frame at the latch point. |
| Finishes: 32D  | Finishes: 32D   | Finishes: 32D   | Finishes: 32D  | Finishes: 32D  |

## CRASH STOPS


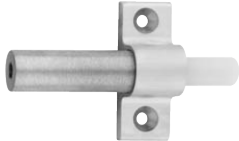
|  |                               |                          |
|--|-------------------------------|--------------------------|
|   |                               |                          |
| CS115-20   | CS115-25                      | CS115-30                 |
| <p>Specially designed for full-size exterior doors. Tear-resistant, gray vinyl cover.<br/>Heavy duty compression spring assembled to both ends of chain and end brackets.<br/>Cast brass with solid, welded steel chain.</p> |                               |                          |
| 20-1/2" Finishes: 3, 26D   | 25-1/2" Finishes: 3, 10B, 26D | 30-1/2" Finishes: 3, 26D |

## LATCHES & CATCHES

### ROLLER LATCHES





|   |   |  |  |
|---|---|--|--|
|    |    |    |   |
| <b>RL30</b>   | <b>RL32</b>   | <b>RL36</b>  | <b>RL1152</b>  |
| <p>Actuation is simple, closing of the door causes the roller to fall in the depression of the strike, thereby holding the door closed. The projection of the roller is easily adjusted using adjusting screws on the face of the unit. Maximum projection is 3/8" allowing for variance in door clearance. Nylon roller standard. Forged brass construction.</p> | <p>Actuation is simple, closing of the door causes the roller to fall in the depression of the strike, thereby holding the door closed. The projection of the roller is easily adjusted by turning knurled knob on back of latch. Maximum projection is 1/2" allowing for variance in door clearance. Nylon roller standard. Brass or stainless steel construction.</p> | <p>Actuation is simple, closing of the door causes the roller to fall in the depression of the strike, thereby holding the door closed. The projection of the roller is easily adjusted by turning slotted screw on back of latch. Maximum projection is 5/16" allowing for variance in door clearance. Nylon roller standard. Stainless steel construction.</p> | <p>Combination of RL30 Roller Latch and Angle Stop. Actuation is simple, closing of the door causes the roller to fall in the depression of the strike, thereby holding the door closed. The projection of the roller is easily adjusted using screws on the face of the unit. Maximum projection is 3/8" allowing for variance in door clearance. Nylon roller standard. Forged brass construction.</p> |
| Finishes: 26D   | Finishes: 32D   | Finishes: 32D  | Finishes: 26D  |

## INVISIBLE LATCHES

|  |   |
|--|---|
|   |   |
| <p style="text-align: center;"><b>CL12</b></p>   | <p style="text-align: center;"><b>CL14</b></p>  |
| <p>Invisible latch is ideal for installations where no visible latch is desired. Unit can be installed at the top, bottom or side of the door. Can be mortised into the stop or surface mounted to the stop. Recommended for use on larger panels or regular size doors. Operation is simple, latching is accomplished by a slight push. To unlatch the door, a harder push releases the door and pushes the door out.</p> | <p>Aid in the operation of the CL12 where hinges of surrounding conditions prevent smooth operation of doors. Provides 1-1/16" throw. Nylon pusher, Brass construction.</p> |
| <p>Finishes: 4, 26D</p>  | <p>Finishes: 4</p>  |






## HOOKS & BRACKETS

### HAND RAIL BRACKETS

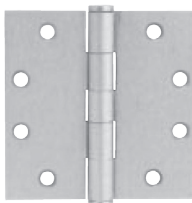


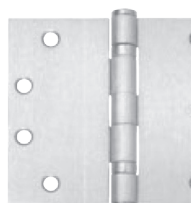
|  |   |  |  |
|--|---|--|--|
|   |    |    |   |
| <p style="text-align: center;"><b>HB158</b></p>  | <p style="text-align: center;"><b>HB159A</b></p>  | <p style="text-align: center;"><b>HB159B</b></p>   | <p style="text-align: center;"><b>HB162</b></p>  |
| <p>For use on commercial applications. Exceeds OSHA and BHMA strength test requirements. Cast aluminum construction. Packed with toggle bolt and screws.</p> | <p>For use on commercial applications. Exceeds OSHA and BHMA strength test requirements. Packed with square head iron lag screw, expansion shield and screws. Cast aluminum construction.</p> | <p>For use on commercial applications. Exceeds OSHA and BHMA strength test requirements. Packed with square head iron lag screw, expansion shield and screws. Cast brass construction.</p> | <p>For horizontal rail installations in institutional and commercial buildings. Rust resistant. Exceeds OSHA and BHMA strength test requirements. Adjustable brackets compensate for irregularities in wall. Extruded aluminum construction.</p> |
| <p>Finishes: 3, 92</p>   | <p>Finishes: 3, 92</p>  | <p>Finishes: 3, 26D</p>  | <p>Finishes: 28</p>  |

# HINGES

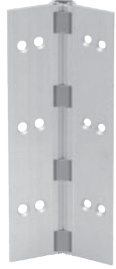


## FULL MORTISE HINGES - 3 KNUCKLE

|  |  |   |  |   |
|--|--|---|--|---|
|   |   |    |  |  |
| <b>3PB1</b>  | <b>3CB1</b>  | <b>3CBIHW</b>   | <b>3CB1SH</b>  | <b>3CB1SHHW</b>   |
| <p>Plain Bearing<br/>Low Frequency<br/>Standard Weight</p> <p>For use on medium weight doors with low frequency usage, not intended for use with door closing devices.</p> | <p>Concealed Bearing<br/>Medium Frequency<br/>Standard Weight</p> <p>For use on medium weight doors with low frequency usage.</p>  | <p>Concealed Bearing<br/>High Frequency<br/>Heavy Weight</p> <p>For use on heavy weight doors with or high frequency usage.</p> | <p>Concealed Bearing<br/>High Frequency<br/>Security Stud</p>                      | <p>Concealed Bearing<br/>High Frequency<br/>Security Stud<br/>Heavy Weight</p>      |
| <p>4.5 x 4 Finishes:<br/>630, 643, 652</p> <p>4.5 x 4.5 Finishes:<br/>600, 630, 643, 646, 651, 652,</p>  | <p>4.5 x 4 Finishes:<br/>630, 643, 652</p> <p>4.5 x 4.5 Finishes:<br/>600, 600N, 630, 643, 643N,<br/>646, 646N, 651, 652, 652N</p> | <p>4.5 x 4.5 Finishes:<br/>600, 600N, 643, 652, 652N</p> <p>5 x 4.5 Finishes:<br/>600, 643, 651, 652</p>                        | <p>4.5 x 4.5 Finishes:<br/>613NRP, 626N</p> <p>5 x 4.5 Finishes:<br/>626N</p>      | <p>5 x 4.5 Finishes:<br/>613N, 626NRP</p>   |

## FULL MORTISE HINGES - 5 KNUCKLE

|  |   |   |  |
|--|---|---|--|
|   |    |                                     |   |
| <b>5PB1</b>  | <b>5BB1</b>   | <b>5BB1HW</b>   | <b>5BB1WT</b>  |
| <p>Plain Bearing<br/>Low Frequency<br/>Standard Weight</p> <p>For use on medium weight doors with low frequency usage, not intended for use with door closing devices.</p> | <p>2 Ball Bearing<br/>Medium Frequency<br/>Standard Weight</p> <p>For use on standard weight doors with medium frequency usage.</p>   | <p>4 Ball Bearing<br/>High Frequency<br/>Heavy Weight</p> <p>For use on heavy weight doors or high frequency usage.</p> | <p>2 Ball Bearing<br/>Medium Frequency<br/>Standard Weight<br/>Wide Throw</p> <p>For use on medium weight doors with medium frequency usage.</p> |
| <p>4.5 x 4 Finishes:<br/>600, 630, 632, 643, 651, 652</p> <p>4.5 x 4.5 Finishes:<br/>600, 600N, 630, 632, 643, 643N, 651,<br/>652, 652N</p>                                | <p>4.5 x 4 Finishes:<br/>600, 630, 643, 651, 652</p> <p>4.5 x 4.5 Finishes:<br/>600, 600N, 600NRP, 613, 632, 643,<br/>643N, 651, 652, 652N, 652NRP</p> <p>5 x 4.5 Finishes: 652</p> | <p>4.5 x 4.5 Finishes:<br/>600, 600N, 630, 640, 640N, 652,<br/>652N</p> <p>5 x 4.5 Finishes:<br/>600, 643, 652</p>      | <p>4.5 x 6 Finishes:<br/>652</p> <p>5 x 6 Finishes:<br/>652</p>  |

## ALUMINUM GEARED CONTINUOUS HINGES

|   |  |  |
|---|--|--|
|                          |   |   |
| <p><b>112HD</b></p>   | <p><b>224HD</b></p>  | <p><b>700</b></p>  |
| <p>Full Mortise<br/>Concealed Hinge<br/>Flush Mounted, No Inset<br/>Non Handed<br/>Length: 85" or 95"</p> | <p>Full Mortise<br/>Concealed Hinge<br/>Door Edge Protector<br/>1/16" Door Inset<br/>Non Handed<br/>Length: 85" or 95"</p> | <p>Pin and Barrel Continuous Hinge<br/>Stainless Steel<br/>Full Mortise<br/>Concealed Hinge<br/>1/8" Inset<br/>Non Handed<br/>Length: 85" or 95"</p> |
| <p>Finishes: 630</p>  | <p>Finishes: 630</p>   | <p>Finishes: 630</p>   |