



10641 Highway 36  
Covington, GA  
30014

[www.sunbeltbuilders.com](http://www.sunbeltbuilders.com)

t 770.786.3031  
f 770.786.3046

## FACTORY SHOALS PARK

Engineered Openings  
192 Anderson Circle  
Alto, GA 30510  
ph: 706-776-7356  
Jeff DeFoor

[jeffdefoor@engineeredopenings.com](mailto:jeffdefoor@engineeredopenings.com)

08-1000 Doors, Frames & Hardware O&M

**SPECIFICATIONS:****MATERIAL:**

Stainless, Brass

**DESCRIPTION:**Five Knuckle Standard  
Weight Hinge**FASTENERS:**

- (8) 1/2" x 12-24 Machine Screws
- (8) 1 1/4" x #12 Wood Screws

**OPTIONS:**

- NRP–Non-Removable Pin
- TB–Ball Bearing
- TCA–Concealed Bearing
- RC–Round Corner - 1/4" radius furnished unless specified
- HT–Hospital Tip
- BT–Ball Tip
- FT–Flat Decorative Tip
- GT–Grooved Tip
- LT–Lined Tip
- RT–Round Tip
- ST–Steeple Tip
- SSF–Safety Stud Feature
- QC–4, 8, or 12 wire available
- CC–4, 8, or 12 wire available
- CC-18–2, 4, 6, 8, or 10 wire available (2-18AWG wires and the remainder 28AWG wires)
- MM–Magnetic Monitoring

**NOTES:**

- When doors are beveled specify TA4314

**SIZE:**

4 1/2" x 4 1/2"

**AVAILABLE FINISHES:**

- P–Prime Coat
- US3/605
- US4/606
- US10/612
- US10A/614
- US10B/613
- US15/646
- US26/625
- US26D/626
- US32/629
- US32D/630
- 10BE–Bronze Satin Powder Coat
- BSP–Black Suede Powder Coat
- WSP–White Suede Powder Coat

**PACKAGED/WEIGHT:**

- 3 ea Per Box
- 48 ea Per Case
- Case Weight–57 lbs

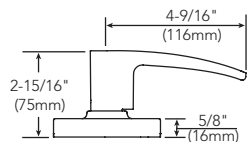
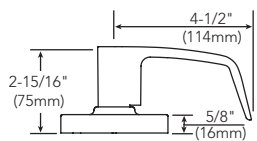
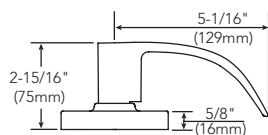
**UL/ANSI:**

NFPA 80 UL Openings  
A5112 Grade 2  
A2112

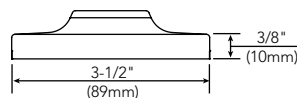
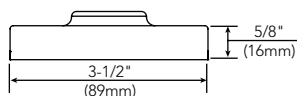
## Lever &amp; Rose Designs

**SARGENT®****ASSA ABLOY**

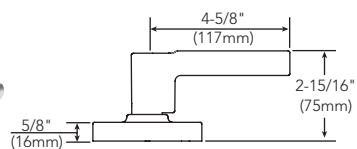
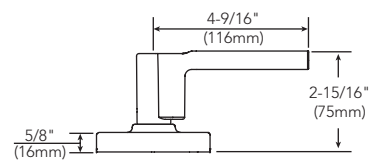
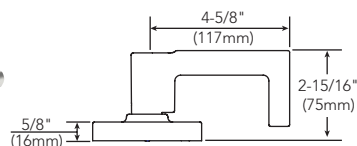
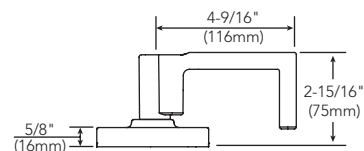
## LEVERS - SOLID CAST ZINC

**B****L\*****P\***

## ROSES - WROUGHT BRASS OR BRONZE

**G****L**

## DECORATIVE LEVERS

**MD****MB****ND\*****MW\***

Any rose or lever on this page can be combined to suit individual taste.

All lever height measurements represent total distance from door face. Dimensions shown using L rose.

\*Lever with return to within 1/2" of door face.

# 460 Series Grade 2 Deadbolts

## Specifications

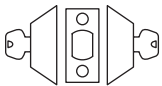
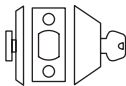
|                           |                                                                                                                                                                                                                                                                                                                                       |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>For Doors</b>          | 1-3/8" (35mm) to 1-3/4" (44mm) thick standard<br>For doors over 1-3/4" (44mm) consult factory (2-1/4" Thick door max)                                                                                                                                                                                                                 |
| <b>Door Prep</b>          | Fits 161 (standard) cut outs and Fits 160 with 2-3/8" (60mm) backset with 1" (25mm) front and for 1-3/8" (35mm) thick door                                                                                                                                                                                                            |
| <b>Backsets</b>           | 2-3/4" (70mm) standard. 2-3/8" (60mm) optional (20- option)                                                                                                                                                                                                                                                                           |
| <b>Strike</b>             | Wrought brass, bronze or stainless steel. Each unit includes a metal and wood frame strike with dust box                                                                                                                                                                                                                              |
| <b>Bolt</b>               | Solid steel with hardened steel pin insert and nickel silver plating 7/8" (22mm) x 5/8" (16mm) x 1" (25mm) throw                                                                                                                                                                                                                      |
| <b>Cylinder</b>           | Brass, 6 pin. 2 nickel silver keys                                                                                                                                                                                                                                                                                                    |
| <b>Masterkeying</b>       | Can be masterkeyed. Construction key system available                                                                                                                                                                                                                                                                                 |
| <b>Front</b>              | Wrought brass, bronze or stainless steel 2-1/4" (57mm) x 1-1/8" (29mm) with fixed bevel 1/8" (3mm) in 2" (51mm) furnished standard                                                                                                                                                                                                    |
| <b>Hand</b>               | Non handed, field reversible                                                                                                                                                                                                                                                                                                          |
| <b>Thumb Turn</b>         | Non-ferrous                                                                                                                                                                                                                                                                                                                           |
| <b>Housing</b>            | Non-ferrous, reinforced, one piece 2-1/2" (64mm) diameter<br>Concealed screws on double cylinder function                                                                                                                                                                                                                             |
| <b>ANSI/BHMA</b>          | A156.36 Certified Grade 2                                                                                                                                                                                                                            |
| <b>UL/cUL Listed</b>      | 460 series deadbolts, when used in conjunction with the primary latching device, are UL/cUL listed for use with Classified steel covered composite or hollow metal doors rated up to and including 3 hours; wood and plastic covered composite doors rated up to and including 1-1/2 hours; and wood core doors rated for 20 minutes. |
| <b>Positive Pressure</b>  | Meets ANSI/UL 10C, Positive Pressure Fire Test of Door Assemblies                                                                                                                                                                                                                                                                     |
| <b>Mechanical Options</b> | Cylinder Options see page 12-13<br>20- 2-3/8" (60mm) backset. 2-3/4" (70mm) x 1" (25mm) wide front                                                                                                                                                                                                                                    |
| <b>Finishes</b>           | 03, 04, 10B, 10BE, 26, 26D, BSP                                                                                                                                                                                                                                                                                                       |

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

## How To Order

| 10-V01                       | 465               | 26D            |
|------------------------------|-------------------|----------------|
| Options                      | Series x Function | Finish         |
| Cylinder Options Pages 12-13 | 464               | 03, 04, 10B,   |
|                              | 465               | 10BE, 26, 26D, |
| Indicator Options Page 8     | 468               | BSP            |

## Functions

| *464 Double Cylinder                                                                                                | 465 Single Cylinder                                                                                                                                     | 468 Thumb Turn x Indicator                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                  |                                                                      |                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>Key from either side operates deadbolt</li> <li><b>ANSI E0142</b></li> </ul> | <ul style="list-style-type: none"> <li>Key outside operates deadbolt</li> <li>Thumb turn inside operates deadbolt</li> <li><b>ANSI E0152</b></li> </ul> | <ul style="list-style-type: none"> <li>Thumb turn inside operates deadbolt</li> <li>Emergency override key outside</li> <li>Indicator standard both sides, specify indicator option code (V21 standard)</li> <li><b>ANSI E01112</b></li> </ul> |

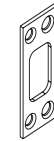
\*Use only on rooms with more than one exit

## 460 Series Deadbolt



### Metal Frame Strike

Standard  
2-3/4" (70mm) x 1-1/8" (29mm). To order separately, specify 404 x Finish



### Wood Frame Strike

Standard  
2-3/4" (70mm) x 1-1/8" (29mm). To order separately, specify 410 x Finish.



### Dust Box

Standard. To order separately, specify part number 16-0277.

## Packaging — 460 Series

| Approximate Shipping Weights |               |
|------------------------------|---------------|
| 2 lbs. (.9 kg)/Box           | 12 Boxes/Case |

Indicators

Available on the 460 Series, ANSI/BHMA Grade 2, deadbolts, status indicators can be used in a variety of applications and are most commonly used to identify occupancy status of a room.

With indicator option codes that are designed to convey wording and color in one simple code, indicators are provided on the 465 function as an option, and standard on both sides for the 468 function. Indicator option codes must be specified when ordering.



Features:

- Multiple indicator windows
- Large indicator windows
- Color, wording and symbols
- Options for wording/color
- Oversized thumbturn
- Patent pending thumbturn indicator
- Handed and field reversible

Applications:

- Restrooms
- Quiet rooms
- Nursing mother's rooms

Indicator Option Codes

| Single Indicator (Available for 465 function) |                 |                 |           |
|-----------------------------------------------|-----------------|-----------------|-----------|
| Option Code                                   | Outside Wording | Inside Wording  | Color     |
| V01                                           | No Indicator    | Unlocked/Locked | Green/Red |
| V01F                                          | No Indicator    | Ouvert/Fermé    | Green/Red |
| V04                                           | No Indicator    | Unlocked/Locked | White/Red |
| Double Indicator (Available for 468 function) |                 |                 |           |
| Option Code                                   | Outside Wording | Inside Wording  | Color     |
| V21*                                          | Vacant/Occupied | Unlocked/Locked | Green/Red |
| V21F                                          | Libre/Occupée   | Ouvert/Fermé    | Green/Red |
| V54                                           | Vacant/Occupied | Unlocked/Locked | White/Red |

\* V21 provided standard for 468 function unless otherwise specified

| Outside     |               | Inside               |                  |
|-------------|---------------|----------------------|------------------|
| VACANT<br>🔓 | OCCUPIED<br>🔒 | UNLOCKED<br>UNLOCKED | LOCKED<br>LOCKED |
| LIBRE<br>🔓  | OCCUPÉE<br>🔒  | OVERT<br>OVERT       | FERMÉ<br>FERMÉ   |
| VACANT<br>🔓 | OCCUPIED<br>🔒 | UNLOCKED<br>UNLOCKED | LOCKED<br>LOCKED |

# 10X Line Cylindrical Locks

The Keypad Operated Products 10X Line Cylindrical lock is available with a wide selection of lever designs and hardware finishes. Its unique design provides uniformity when used with other SARGENT locks at a facility. The KP products offer economical, standalone access control solutions.

## FEATURING ECOFLEX®



- Reduces energy consumption up to 92%, as certified by GreenCircle
  - Lower operating costs
  - Assists with load reduction in optimizing energy performance credit in LEED
  - Reduces number of power supplies required
- Field configurable to fail-safe or fail-secure
- Operates from 12-24VDC, offering greater flexibility in system design
- Innovative actuator design provides superior reliability
  - Higher performance and reduced maintenance
  - Ability to have longer cable runs without negatively impacting lock function
  - Reduces risk of voltage drops and eliminates inductive kickback
  - Lower total cost of ownership

## MECHANICAL FEATURES

- Certified ANSI/BHMA A156.2 Series 4000 - Grade 1
- UL listed to U.S.A. and Canadian safety standards Listed for 3 hour doors (double doors require 41 - option)
- EcoFlex® motor driven 10X Line cylindrical lock
- Latchbolt brass, 1/2" (13mm) throw; UL Listed 3/4" (19mm) throw (41- option) available
- 2-3/4" (70mm) backset standard. Consult factory for other backsets available
- Non handed
- Heavy duty lever spring return rose assembly
- Steel spacer bushing and extended one-piece bearing sleeves
- Steel mounting studs
- Key override standard
- Includes code to activate horn when keypad buttons are pushed
- Not available with 82-, F1-82, 83-, F1-83, or 84- options
- For 1-3/4" (44mm) thick doors standard
- Freewheeling levers optional

## KP10XG77 ENTRY LOCK WITH CYLINDER

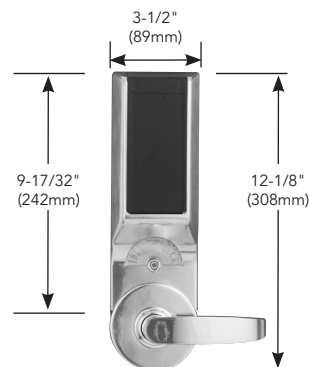
- Lever inside always retracts latchbolt
- Key outside retracts latchbolt
- Outside lever rigid except when in passage mode or valid user code entered

## CYLINDRICAL LOCK FUNCTIONS

| If the lock needs to have:         | Then select: |      |          |
|------------------------------------|--------------|------|----------|
|                                    | Series       | Type | Function |
| Cylinder override standard feature | KP           | 10X  | G77      |

## INSIDE ESCUTCHEON

- Zinc die cast
- Projection at bottom 9/32" (7mm)
- Projection at top 2-1/8" (54mm)  
9-17/32" (242mm) Inside Escutcheon



## ORDERING KP CYLINDRICAL LOCKS

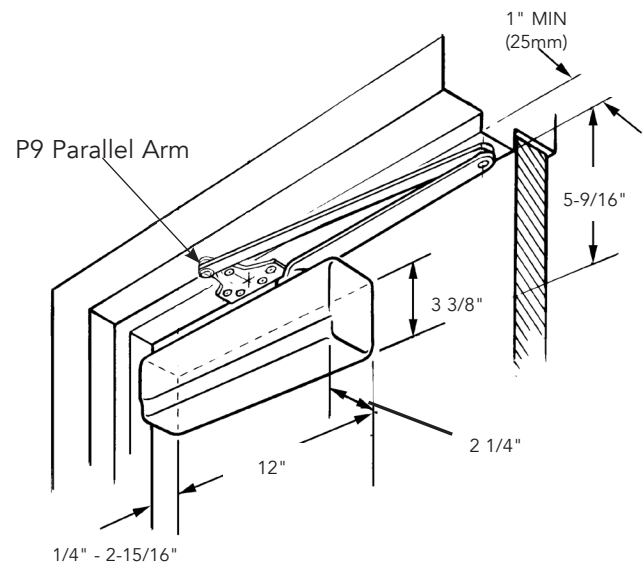
| Options                 | Series                                               | Type | Function | Roses                                                                      | Levers   | Finish    | Hand      |
|-------------------------|------------------------------------------------------|------|----------|----------------------------------------------------------------------------|----------|-----------|-----------|
| Select from pages 14-16 | Select from KP Cylindrical Lock Function chart above |      |          | Select rose from page 11, lever from pages 10, 12, and finish from page 10 |          |           |           |
| <b>23-</b>              | <b>KP-10XG77</b>                                     |      |          | <b>G</b>                                                                   | <b>L</b> | <b>03</b> | <b>RH</b> |

# Parallel Arm Applications

## 1431-P9 REGULAR PARALLEL ARM APPLICATION



Parallel Arm Applications – The 1431 closer is mounted on the push side of the door with the arm under the frame parallel to the face of the door. This application is well suited for narrow face frames and deep reveal applications. The closer arm does not project into the room, and the door can be swung open much farther than in Top Jamb Application.



## HEAVY DUTY PARALLEL ARMS

### For use in high traffic and abusive environments

- Friction and positive hold open arms available
- Use friction hold open arms for doors subject to moderate hold open use
- Use positive stop hold open arms for doors subject to frequent hold open use
- Dead stop and compression stop arms available

### Non hold-open arms

- Two mounting positions for 120° and 180° maximum door openings

### Stop arms

- 6 mounting positions allow stop from 85° – 110°

### Positive stop hold open arms

- 6 mountings provide hold open positioning from 85° – 110°

### Friction hold open arm

- Two mountings provide adjustable hold open positions from 75° – 180°

## REGULAR DUTY PARALLEL ARMS

### Available Arms for institutional installations:

- Regular Duty Parallel Arms
- Offset Bracket Arms for use with Auxiliary Holders & Stops
- Parallel flush frame arms
- Flush frame arms for use with Auxiliary Holders & Stops
- Flush frame, friction hold open arms
- Friction hold open arms
- Use friction hold open arms for doors subject to moderate hold open use

### Standard Mounting Position

- 120° Maximum door opening
- Holding range of friction hold open arms: 75° – 110°

### Alternate Mounting Position

- Maximum door opening: 180°
- Holding range of friction hold open arms: 85° – 170°

# Heavy Duty Parallel Arms

## P10 - Heavy Duty Parallel Arm



- Forged Steel Arm 11-1/4" (286mm) long
- Non-handed
- Easily installed
- Permits 120° opening at standard mounting
- Permits 180° opening at alternate mounting

For arm only, order as 25-P10 x finish

### Includes:

63-0641 - Main arm  
63-3727 - Arm and bracket assembly  
64-2407 & 63-2392 - Screw packs

## PS - Heavy Duty Parallel Arm with Positive Stop



- Forged Steel Arm 11-1/4" (286mm) long
- Handed arm is field-reversible
- Provides built in stop from 85° – 110°
- Permits 110° opening maximum
- Easily installed
- Permits 85° – 110° door opening

For arm only, order as 25-PS x finish

### Includes:

63-0641 - Main arm  
63-3837 - Arm and bracket assembly  
64-2407 & 63-2392, 63-2396 - Screw packs

## CPS - Heavy Duty Parallel Arm with Compression Stop



- Forged Steel Arm 11-1/4" (286mm) long
- Provides built in compression stop from 85° – 105°
- Permits 105° opening maximum
- Easily installed
- Handed arm is field-reversible
- Dead stop within 3°

For arm only, order as 25-CPS x finish

### Includes:

63-0641 - Main arm  
63-3830 - Arm and bracket assembly  
63-0516 - Bumper holder  
63-3493 - Bumper  
64-2407 & 63-2398 - Screw packs

## PH10 - Heavy Duty Friction Hold Open Parallel Arm



- Equipped with adjustable friction holder
- Adjustable hold open from 75° – 180°
- Forged steel arm 11-1/4" (286mm) long
- Handed same as door
- Use friction hold open arms for doors subject to moderate hold open use

For arm only, order as 25-PH10 x finish

### Includes:

63-0641 - Main arm  
63-3839 - Left hand arm and bracket assembly  
63-3840 - Right hand arm and bracket assembly  
64-2407 & 63-2392 - Screw packs

## PSH - Heavy Duty Parallel Hold Open Arm with positive Stop



- Provides holder and stop features
- Handed arm is field-reversible
- Easily installed/adjusted
- Permits 85° – 110° door opening

For arm only, order as 25-PSH x finish

### Includes:

63-0641 - Main arm  
63-3833 - Arm and bracket assembly  
64-2407 & 63-2392, 63-2396 - Screw packs

## CPSH - Heavy Duty Hold Open Parallel Arm with Compression Stop

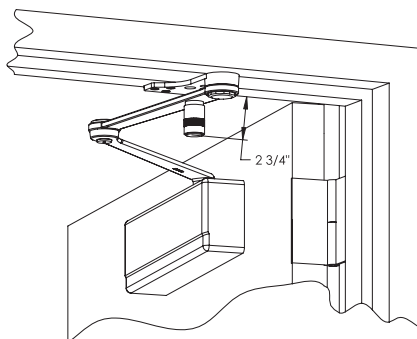


- Forged Steel Arm 11-1/4" (286mm) long
- Handed arm is field-reversible
- Provides built in compression stop and holder mechanism from 85° – 105°
- Easily installed/adjusted
- Permits 105° opening maximum
- Dead stop within 3°

For arm only, order as 25-CPSH x finish

### Includes:

63-0641 - Main arm  
63-3836 - Arm and bracket assembly  
63-0516 - Bumper holder  
63-3493 - Bumper  
64-2407 & 63-3487 - Screw packs



The PSH and CPSH arms project 2 3/4" below the head stop

### Positive Stop Hold Open Arms (PSH & CPSH ARMS)

- Use on doors subject to repetitive hold open use
- 6 hold open angle installation
- Hold open function may be disengaged
- Hold open tension is easily adjustable

# Architectural Door Accessories

ASSA ABLOY

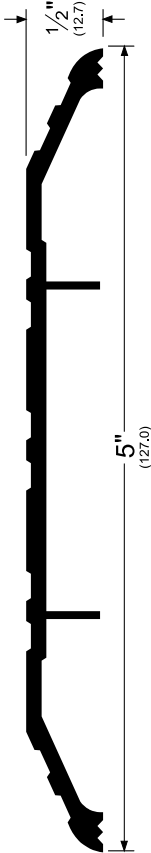
## Pemko Commercial Thresholds: Saddle Thresholds

The global leader in  
door opening solutions



171 \_

AVAILABLE FINISHES: A, B, BDG, D, G, SN  
WIDTH: 5" (127.0 mm)  
HEIGHT: 1/2" (12.7 mm)



- A (Mill Finish Aluminum)
- B (Mill Finish Extruded Bronze [Brass])
- BDG (Bright Dip Gold Anodized)
- D (Dark Bronze Anodized)
- G (Gold Anodized)
- SN (Satin Nickel Anodized)

|               |
|---------------|
| TITLE:        |
| PREPARED FOR: |
| PREPARED BY:  |
| DATE:         |
| COMMENTS:     |

# Architectural Door Accessories

ASSA ABLOY

## Pemko Door Bottoms: Door Top Weatherstrip

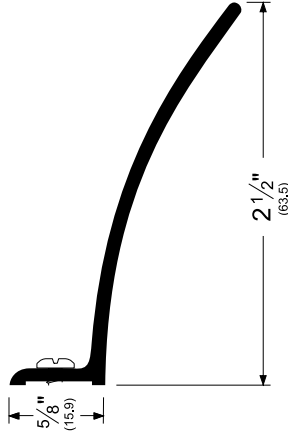
The global leader in  
door opening solutions

### 346\_

AVAILABLE FINISHES: C, D, G, PW

WIDTH: 2-1/2" (63.5 mm)

HEIGHT: 5/8" (15.9 mm)



- C (Clear Anodized Aluminum)
- D (Dark Bronze Anodized Aluminum)
- G (Gold Anodized Aluminum)
- PW (Painted White Aluminum)

|               |
|---------------|
| TITLE:        |
| PREPARED FOR: |
| PREPARED BY:  |
| DATE:         |
| COMMENTS:     |

# Architectural Door Accessories

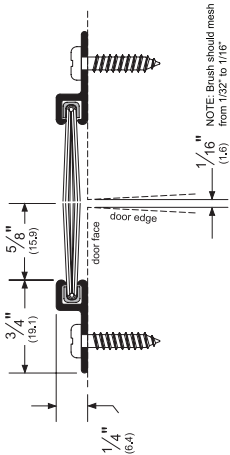
ASSA ABLOY

## Pemko Astragals & Meeting Stiles: Astragals and Meeting Stiles Gasketing - Split Astragals

The global leader in  
door opening solutions

**18061\_NB (MS)**    **ORDER TWO  
(AS A PAIR)**

AVAILABLE FINISHES: C, D, G, SN  
PROFILE WIDTH: 3/4" (19.1 mm) (x2)  
TOTAL WIDTH WITH INSERT: 1-3/8" (35.0 mm) (x2)  
HEIGHT: 1/4" (6.4 mm)



- C (Clear Anodized Aluminum)
- D (Dark Bronze Anodized Aluminum)
- G (Gold Anodized Aluminum)
- SN (Satin Nickel Anodized Aluminum)

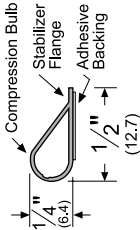
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| TITLE:        |
| PREPARED FOR: |
| PREPARED BY:  |
| DATE:         |
| COMMENTS:     |

# Architectural Door Accessories

## Pemko Adhesive Gasketing: Siliconseal™ Adhesive-backed Fire/Smoke Gasketing



AVAILABLE FINISHES: BL, C, D, GR, TAN, W  
AVAILABLE LENGTHS: 17', 18', 20', 21', 25', 30', 204'  
WIDTH: 1/2" (12.7 mm)  
HEIGHT: 1/4" (6.4 mm)



- BL (Black)
- C (Clear)
- D (Dark Brown)
- GR (Gray)
- TAN (Tan)
- W (White)

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|               |
|---------------|
| TITLE:        |
| PREPARED FOR: |
| PREPARED BY:  |
| DATE:         |
| COMMENTS:     |



Sunbelt Builders, Inc.  
10641 Highway 36  
Covington, GA 30014  
Phone: (770) 786-3031  
Fax: (770) 786-3046

## Submittal

TO: Newton County  
2990 Summit Lane  
Monroe, GA 30655

|             |                             |
|-------------|-----------------------------|
| Date:       | 2/27/2026                   |
| Project #   | 25-09 - Factory Shoals Park |
| Submittal # | 5                           |
| ATTN:       | Jeff Prine                  |
| RE:         | Doors & Hardware            |

| Copies | Spec No. | Description      |
|--------|----------|------------------|
| 1      | 08-1000  | Doors & Hardware |

Contractor's Stamp

**SUNBELT BUILDERS, INC.**

DATE: February 27, 2026



APPROVED



APPROVED AS NOTED



RESUBMIT



OTHER

SIGNATURE: Ryan Lewis

Architect's Stamp

Engineer's Stamp

| Newton Co. Factory Shoals Park           |         |                                 |                        |               |         | Submittal Log  |                |                     |              |                   |                    |                |          |
|------------------------------------------|---------|---------------------------------|------------------------|---------------|---------|----------------|----------------|---------------------|--------------|-------------------|--------------------|----------------|----------|
| Package #                                | Section | Package Title<br>(Description)  | Vendor                 | Category      | Sent To | ACTION DATES   |                |                     |              |                   |                    |                |          |
|                                          |         |                                 |                        |               |         | Submittal Goal | Date Submitted | Architect review by | No Exception | Approved as Noted | Revise / Re-submit | Date Re-submit | Approved |
| Submitted to Design Professional / Owner |         |                                 |                        |               |         |                |                |                     |              |                   |                    |                |          |
|                                          | 08-1000 | Frames, Doors & Hardware        |                        |               |         |                |                |                     |              |                   |                    |                |          |
|                                          |         | Materials - HM Doors and Frames | Engineered Openings    | Product Data  | JP      |                |                |                     |              |                   |                    |                |          |
|                                          |         | Shop Drawings                   | Engineered Openings    | Shop Drawings | JP      |                |                |                     |              |                   |                    |                |          |
|                                          |         | Materials - Hardware            | Engineered Openings    | Product Data  | JP      |                |                |                     |              |                   |                    |                |          |
| Returned and Needs to be Re-Submitted    |         |                                 |                        |               |         |                |                |                     |              |                   |                    |                |          |
| *                                        | 06-1700 | Shop Fabricated Wood Trusses*   |                        |               |         |                |                |                     |              |                   |                    |                |          |
|                                          |         | Material                        | RS Wilson Construction | Product Data  | LD      |                |                |                     |              |                   |                    |                |          |
|                                          |         | Shop Drawings                   | RS Wilson Construction | Shop Drawings | LD      |                |                |                     |              |                   |                    |                |          |
|                                          |         | Product Certificates            | RS Wilson Construction | Certificate   | LD      |                |                |                     |              |                   |                    |                |          |
|                                          |         | Qualification Data              | RS Wilson Construction | Product Data  | LD      |                |                |                     |              |                   |                    |                |          |
|                                          |         | Material test reports           | RS Wilson Construction | Reports       | LD      |                |                |                     |              |                   |                    |                |          |
|                                          |         | Warranty of chemical treatment  | RS Wilson Construction | Certificate   | LD      |                |                |                     |              |                   |                    |                |          |
|                                          |         | Material Certificates           | RS Wilson Construction | Certificate   | LD      |                |                |                     |              |                   |                    |                |          |
|                                          |         | Wood treatment data             | RS Wilson Construction | Product Data  | LD      |                |                |                     |              |                   |                    |                |          |
|                                          |         | Research or evaluation reports  | RS Wilson Construction | Reports       | LD      |                |                |                     |              |                   |                    |                |          |
| Pending Vendor Submittal or SBI Review   |         |                                 |                        |               |         |                |                |                     |              |                   |                    |                |          |
|                                          | 05-1000 | Structural Metal Framing        |                        |               |         |                |                |                     |              |                   |                    |                |          |
|                                          |         | Framing Layouts (Entrance Sign) | PEC                    | Shop Drawings | no      |                |                |                     |              |                   |                    |                |          |
|                                          | 06-1600 | Sheathing                       |                        |               |         |                |                |                     |              |                   |                    |                |          |
|                                          |         | Material                        | RS Wilson Construction | Product Data  | no      |                |                |                     |              |                   |                    |                |          |

# Door & Frame Schedule

**Distributed By:**  
**Engineered Openings, Inc.**  
192 Anderson Circle  
Alto, GA 30510  
Phone: (706) -77-7356  
Fax: (706) -77-7535

|                                                                                                                                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <div>Masonry Cased</div> <div>Masonry Single</div> <div>Masonry</div> <div>Drywall Cased</div> <div>Drywall Single</div> <div>Drywall</div> |          | FRAME PROFILES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| RECORD OF SUBMITTALS                                                                                                                        |          | DOOR HANDING CHART                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| SUBMITTED                                                                                                                                   | RETURNED | <div><div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>LH - Left Hand</div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>LH - Right Hand</div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>RHR - Right Hand Reverse</div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>RHR - Right Hand Reverse</div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>Communicating Frame</div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>Double Acting</div></div><div>(K) = KEY SIDE</div></div></div> |  |
| 1ST                                                                                                                                         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 2ND                                                                                                                                         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 3RD                                                                                                                                         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 4TH                                                                                                                                         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| RECEIVED APPROVED DRAWINGS                                                                                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| RECEIVED APPROVED HARDWARE                                                                                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| DRAWN BY: Jenny Aguilera                                                                                                                    |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| ARCHITECT JOB NO.                                                                                                                           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| PROJECT<br>Factory Shoals Park Restrooms                                                                                                    |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| LOCATION<br>450 Newton Factory Bridge Road<br>Covington, GA 30014-                                                                          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| ARCHITECT<br>Lose Design                                                                                                                    |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| CONTRACTOR<br>Sunbelt Builders                                                                                                              |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| FINISH HARDWARE BY                                                                                                                          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| SHEET NO. 1 OF 8                                                                                                                            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |

Factory Shoals Park Restrooms  
RFI hollow metal

1. Product information needed for exterior glazing used in family restrooms.

# LEGEND

## Hollow Metal Frame

|                        |                                      |
|------------------------|--------------------------------------|
| <u>Add On</u>          | Provide security glazing specs       |
| <u>*Glazing Anchor</u> |                                      |
| MP                     | Multipurpose min 4-3/4" J.D. (Loose) |
| <u>Construction</u>    |                                      |
| SW                     | Seam Welded die miter corner         |
| <u>Elevation Type</u>  |                                      |
| 3F                     | Three sided frame                    |
| BL                     | Borrowed Lite                        |
| <u>Gauge</u>           |                                      |
| 16                     | 16 Gauge                             |
| <u>Head Face</u>       |                                      |
| 2"                     | 2" Face Head                         |
| <u>Jamb Face</u>       |                                      |
| 2"                     | 2" Face Jambs                        |
| <u>Mfr Location</u>    |                                      |
| CU                     | CURRIES                              |
| <u>Profile</u>         |                                      |
| M-EQ                   | Masonry - Equal rabbet               |
| <u>Steel Type</u>      |                                      |
| A60                    | A60 Galvannealed                     |

## Hollow Metal Door

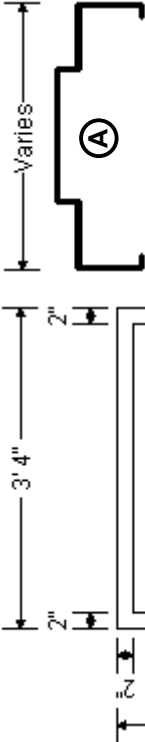
|                     |                             |
|---------------------|-----------------------------|
| <u>Add On</u>       | 24"x12" Louver<br>H Top Cap |
| *Louver             |                             |
| *TC-H               |                             |
| <u>Edge</u>         |                             |
| N                   | Seamless edge               |
| <u>Face Type</u>    |                             |
| DA                  | Flush w/24"x12" louver      |
| <u>Gauge</u>        |                             |
| 18                  | 18 Gauge                    |
| <u>Mfr Location</u> |                             |
| CU                  | CURRIES                     |
| <u>Series</u>       |                             |
| 707                 | Polystyrene core            |
| <u>Steel Type</u>   |                             |
| A60                 | A60 Galvanneal              |

# Opening Detail Short

Project ID: 26-005  
Job Number:

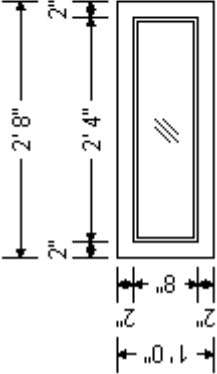
Factory Shoals Park Restrooms

| Openings |               |                                 |       |      | Frames    |          |     |            |         |      |           |    |      |        |           |             | Doors        |          |     |        |      |      |    |  |           |             |          |          |          |                                |           |
|----------|---------------|---------------------------------|-------|------|-----------|----------|-----|------------|---------|------|-----------|----|------|--------|-----------|-------------|--------------|----------|-----|--------|------|------|----|--|-----------|-------------|----------|----------|----------|--------------------------------|-----------|
| Door #   | Size          | Location                        | Label | Hand | Thickness | Material | Qty | Jamb Depth | Profile | Jamb | Head Face | Ga | S.T. | Anchor | Elevation | Elev. Sheet | Anchor Sheet | Material | Qty | Series | Edge | S.T. | Ga |  | Elevation | Elev. Sheet | Exterior | Undercut | Astragal | Special Instructions           | Hdw Set # |
| A101N    | 3' 0" x 7' 0" | Exterior From Family RR A North |       | LHR  | 1 3/4"    | HMF      | 1   | 7 15/16"   | M-E Q   | 2"   | 2"        | 16 | A60  | MP     | FA        | FA          |              | HMD      | 1   | 707    | N    | A60  | 18 |  | DA        | DA          | X        |          |          | H Top Cap 24"x12" Louver       | HW-01     |
| A101S    | 3' 0" x 7' 0" | Exterior From Family RR A South |       | LHR  | 1 3/4"    | HMF      | 1   | 7 15/16"   | M-E Q   | 2"   | 2"        | 16 | A60  | MP     | FA        | FA          |              | HMD      | 1   | 707    | N    | A60  | 18 |  | DA        | DA          | X        |          |          | H Top Cap 24"x12" Louver       | HW-01     |
| A102N    | 3' 0" x 7' 0" | Exterior From Family RR B North |       | RHR  | 1 3/4"    | HMF      | 1   | 7 15/16"   | M-E Q   | 2"   | 2"        | 16 | A60  | MP     | FA        | FA          |              | HMD      | 1   | 707    | N    | A60  | 18 |  | DA        | DA          | X        |          |          | H Top Cap 24"x12" Louver       | HW-01     |
| A102S    | 3' 0" x 7' 0" | Exterior From Family RR B South |       | RHR  | 1 3/4"    | HMF      | 1   | 7 15/16"   | M-E Q   | 2"   | 2"        | 16 | A60  | MP     | FA        | FA          |              | HMD      | 1   | 707    | N    | A60  | 18 |  | DA        | DA          | X        |          |          | H Top Cap 24"x12" Louver       | HW-01     |
| A103N    | 3' 0" x 7' 0" | Exterior From Family RR C North |       | LHR  | 1 3/4"    | HMF      | 1   | 7 15/16"   | M-E Q   | 2"   | 2"        | 16 | A60  | MP     | FA        | FA          |              | HMD      | 1   | 707    | N    | A60  | 18 |  | DA        | DA          | X        |          |          | H Top Cap 24"x12" Louver       | HW-01     |
| A103S    | 3' 0" x 7' 0" | Exterior From Family RR C South |       | LHR  | 1 3/4"    | HMF      | 1   | 7 15/16"   | M-E Q   | 2"   | 2"        | 16 | A60  | MP     | FA        | FA          |              | HMD      | 1   | 707    | N    | A60  | 18 |  | DA        | DA          | X        |          |          | H Top Cap 24"x12" Louver       | HW-01     |
| A104N    | 3' 0" x 7' 0" | Exterior From Family RR D North |       | RHR  | 1 3/4"    | HMF      | 1   | 7 15/16"   | M-E Q   | 2"   | 2"        | 16 | A60  | MP     | FA        | FA          |              | HMD      | 1   | 707    | N    | A60  | 18 |  | DA        | DA          | X        |          |          | H Top Cap 24"x12" Louver       | HW-01     |
| A104S    | 3' 0" x 7' 0" | Exterior From Family RR D South |       | RHR  | 1 3/4"    | HMF      | 1   | 7 15/16"   | M-E Q   | 2"   | 2"        | 16 | A60  | MP     | FA        | FA          |              | HMD      | 1   | 707    | N    | A60  | 18 |  | DA        | DA          | X        |          |          | H Top Cap 24"x12" Louver       | HW-01     |
| A105N    | 3' 0" x 7' 0" | Exterior From Utility North     |       | RHR  | 1 3/4"    | HMF      | 1   | 7 15/16"   | M-E Q   | 2"   | 2"        | 16 | A60  | MP     | FA        | FA          |              | HMD      | 1   | 707    | N    | A60  | 18 |  | DA        | DA          | X        |          |          | H Top Cap 24"x12" Louver       | HW-02     |
| A105S    | 3' 0" x 7' 0" | Exterior From Utility South     |       | RHR  | 1 3/4"    | HMF      | 1   | 7 15/16"   | M-E Q   | 2"   | 2"        | 16 | A60  | MP     | FA        | FA          |              | HMD      | 1   | 707    | N    | A60  | 18 |  | DA        | DA          | X        |          |          | H Top Cap 24"x12" Louver       | HW-02     |
| W1N      | 2' 4" x 8"    | Exterior Family Restroom North  |       | NH   | 0"        | HMF      | 4   | 7 15/16"   | M-E Q   | 2"   | 2"        | 16 | A60  | MP     | W1        | W1          |              |          |     |        |      |      |    |  |           |             | X        |          |          | Provide security glazing specs |           |
| W1S      | 2' 4" x 8"    | Exterior Family Restroom South  |       | NH   | 0"        | HMF      | 4   | 7 15/16"   | M-E Q   | 2"   | 2"        | 16 | A60  | MP     | W1        | W1          |              |          |     |        |      |      |    |  |           |             | X        |          |          | Provide security glazing specs |           |

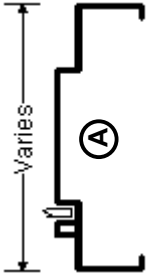


FA

| Doors #s:                                        |                                                  |                                                  |                                                  |
|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
| A101N (3' 0" x 7' 0"),<br>A103S (3' 0" x 7' 0"), | A101S (3' 0" x 7' 0"),<br>A104N (3' 0" x 7' 0"), | A102N (3' 0" x 7' 0"),<br>A104S (3' 0" x 7' 0"), | A103N (3' 0" x 7' 0"),<br>A105S (3' 0" x 7' 0"), |



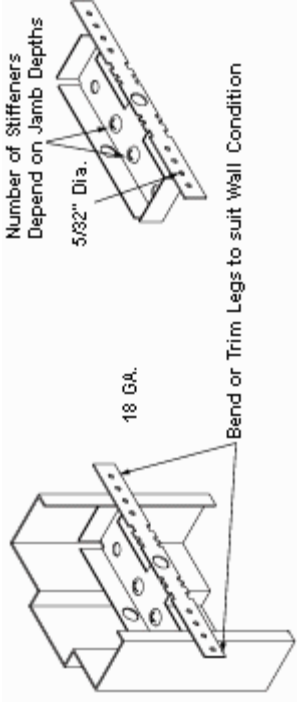
Confirm glazing. Thickness of glass needed for glass stop placement.



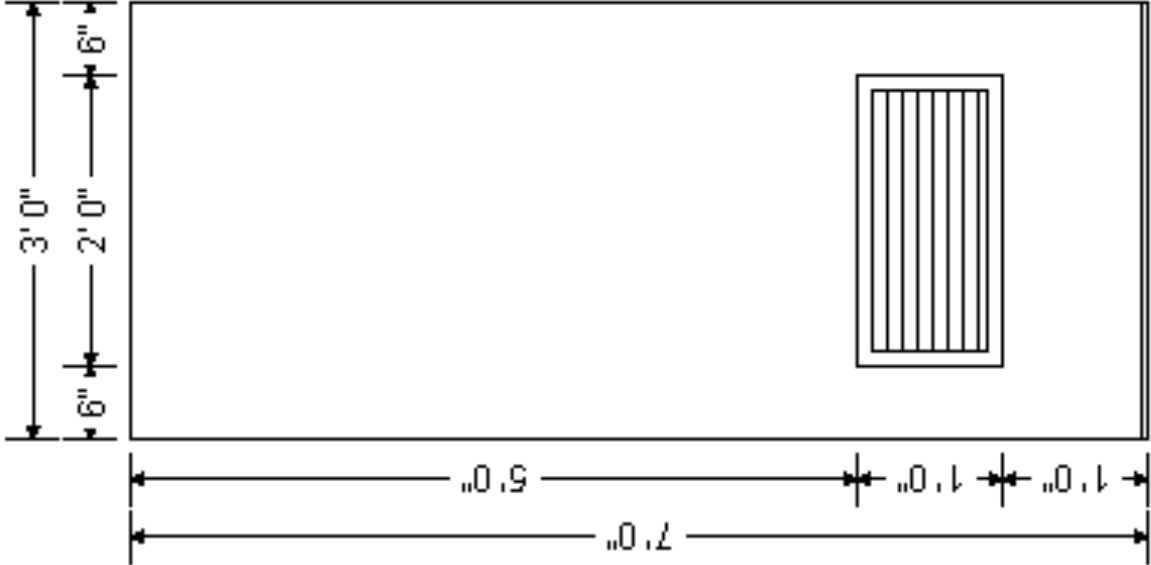
Doors #s:  
W1N (2' 4" x 8"),  
W1S (2' 4" x 8"),

W1

ANCHORS

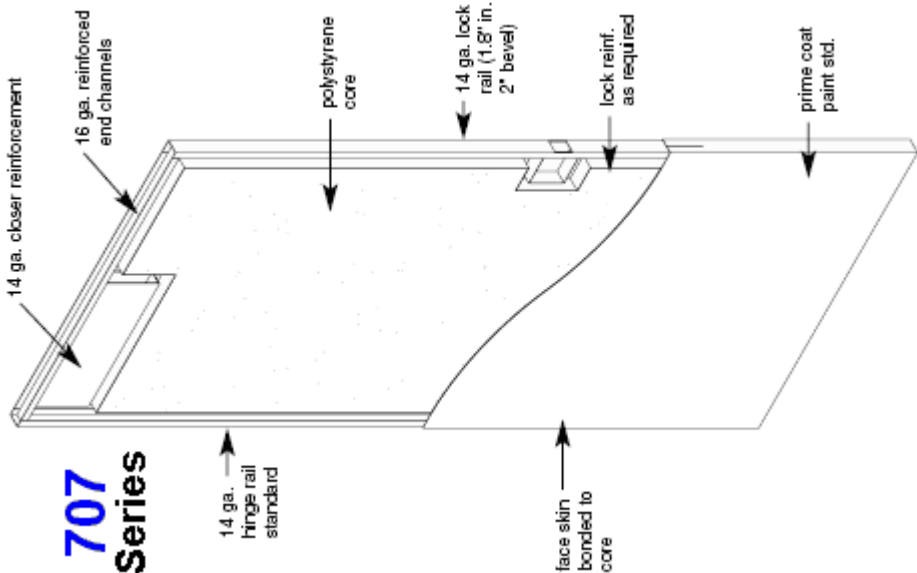


Multi-Purpose



DA

DOOR SERIES



Polystyrene Core

Engineered Openings, Inc.  
192 Anderson Circle  
Alto, GA 30510  
706-776-7356

## **Schedule of Hardware**

By : Debbie Purcell, AHC, CFADI  
For : Factory Shoals Park Restrooms

Architect: Lose Design  
2809 Foster Ave.  
Nashville, TN 37210-

Contractor: Sunbelt Builders  
10641 Highway 36  
Covington, GA 30014-

Date 2/24/2026

**Manufacturer's List**

| Mfr. | Hardware Used                                                    |
|------|------------------------------------------------------------------|
| SA   | Surface Closer, Keypad Cylindrical Lock Storeroom Lock, Deadbolt |
| MK   | Hinge, Full Mortise                                              |
| PE   | Gasketing, Threshold, Sweep, Rain Guard                          |

**Factory Shoals Park Restrooms**  
**RFI Hardware**

- 1. Hardware submitted with Sargent conventional keying system. Keying system information/meeting needed.
- 2. Sargent 468 deadbolt are located at 34" AFF to stay within ADA guidelines. KP 10x locks conflict if deadbolt is placed at 48" AFF.

# Project Keying Legend

Project ID: 26-005      Factory Shoals Park Restrooms  
Job Number:

| Door ID | Opening Location                | HW Set ID | Hand | Keying | Lock Information (Mfr \ Part Desc) |                                        |
|---------|---------------------------------|-----------|------|--------|------------------------------------|----------------------------------------|
| A101N   | Exterior From Family RR A North | HW-01     | LHR  |        | SA \ KP10XG77 LL (KP10XG77)        | Keypad Cylindrical Lock Storeroom Lock |
| A101S   | Exterior From Family RR A South | HW-01     | LHR  |        | SA \ KP10XG77 LL (KP10XG77)        | Keypad Cylindrical Lock Storeroom Lock |
| A102N   | Exterior From Family RR B North | HW-01     | RHR  |        | SA \ KP10XG77 LL (KP10XG77)        | Keypad Cylindrical Lock Storeroom Lock |
| A102S   | Exterior From Family RR B South | HW-01     | RHR  |        | SA \ KP10XG77 LL (KP10XG77)        | Keypad Cylindrical Lock Storeroom Lock |
| A103N   | Exterior From Family RR C North | HW-01     | LHR  |        | SA \ KP10XG77 LL (KP10XG77)        | Keypad Cylindrical Lock Storeroom Lock |
| A103S   | Exterior From Family RR C South | HW-01     | LHR  |        | SA \ KP10XG77 LL (KP10XG77)        | Keypad Cylindrical Lock Storeroom Lock |
| A104N   | Exterior From Family RR D North | HW-01     | RHR  |        | SA \ KP10XG77 LL (KP10XG77)        | Keypad Cylindrical Lock Storeroom Lock |
| A104S   | Exterior From Family RR D South | HW-01     | RHR  |        | SA \ KP10XG77 LL (KP10XG77)        | Keypad Cylindrical Lock Storeroom Lock |
| A105N   | Exterior From Utility North     | HW-02     | RHR  |        | SA \ KP10XG77 LL (KP10XG77)        | Keypad Cylindrical Lock Storeroom Lock |
| A105S   | Exterior From Utility South     | HW-02     | RHR  |        | SA \ KP10XG77 LL (KP10XG77)        | Keypad Cylindrical Lock Storeroom Lock |

# DOOR INDEX

Project ID: 26-005

Factory Shoals Park Restrooms

| <u>Door Number</u> | <u>Arch Mark</u> | <u>Item Number</u> | <u>Heading #</u> | <u>Keying</u> | <u>Hand</u> |
|--------------------|------------------|--------------------|------------------|---------------|-------------|
| A101N              | A101N            | 1                  | HW-01            |               | LHR         |
| A101S              | A101S            | 2                  | HW-01            |               | LHR         |
| A102N              | A102N            | 3                  | HW-01            |               | RHR         |
| A102S              | A102S            | 4                  | HW-01            |               | RHR         |
| A103N              | A103N            | 5                  | HW-01            |               | LHR         |
| A103S              | A103S            | 6                  | HW-01            |               | LHR         |
| A104N              | A104N            | 7                  | HW-01            |               | RHR         |
| A104S              | A104S            | 8                  | HW-01            |               | RHR         |
| A105N              | A105N            | 9                  | HW-02            |               | RHR         |
| A105S              | A105S            | 10                 | HW-02            |               | RHR         |
| W1N                | W1N              |                    |                  |               | NH          |
| W1S                | W1S              |                    |                  |               | NH          |

# Hardware Schedule

Project ID: 26-005 - Factory Shoals Park Restrooms

## Heading #: HW-01

## Family Restroom

|   |     |             |                                 |     |      |
|---|-----|-------------|---------------------------------|-----|------|
| 1 | SGL | Door: A101N | Exterior From Family RR A North | LHR | 90 ° |
| 1 | SGL | Door: A101S | Exterior From Family RR A South | LHR | 90 ° |
| 1 | SGL | Door: A102N | Exterior From Family RR B North | RHR | 90 ° |
| 1 | SGL | Door: A102S | Exterior From Family RR B South | RHR | 90 ° |
| 1 | SGL | Door: A103N | Exterior From Family RR C North | LHR | 90 ° |
| 1 | SGL | Door: A103S | Exterior From Family RR C South | LHR | 90 ° |
| 1 | SGL | Door: A104N | Exterior From Family RR D North | RHR | 90 ° |
| 1 | SGL | Door: A104S | Exterior From Family RR D South | RHR | 90 ° |

3' 0" x 7' 0" x 1 3/4" HMD/HMF

|       |                                           |                               |       |                 |
|-------|-------------------------------------------|-------------------------------|-------|-----------------|
| 24 EA | Hinge, Full Mortise                       | TA2314 4-1/2" x 4-1/2"        | US32D | (HI-1) McKinney |
| 8 EA  | Keypad Cylindrical Lock<br>Storeroom Lock | KP10XG77 LL                   | US26D | (LO-1) Sargent  |
| 8 EA  | Deadbolt                                  | V21 468 - Mount CL at 34" AFF | US26D | (LO-2) Sargent  |
| 8 EA  | Surface Closer                            | TB 1431 CPS                   | EN    | (CL-1) Sargent  |
| 8 EA  | Threshold                                 | 171A x 36"                    |       | (TH-1) Pemko    |
| 8 EA  | Gasketing                                 | S88BL 17'                     |       | (GA-1) Pemko    |
| 8 EA  | Rain Guard                                | 346C x 40"                    |       | (GA-2) Pemko    |
| 8 EA  | Sweep                                     | 18061CNB x 36"                |       | (SW-1) Pemko    |

Keying system info needed.

## Heading #: HW-02

## Utility Room

|   |     |             |                             |     |      |
|---|-----|-------------|-----------------------------|-----|------|
| 1 | SGL | Door: A105N | Exterior From Utility North | RHR | 90 ° |
| 1 | SGL | Door: A105S | Exterior From Utility South | RHR | 90 ° |

3' 0" x 7' 0" x 1 3/4" HMD/HMF

|      |                                           |                        |       |                 |
|------|-------------------------------------------|------------------------|-------|-----------------|
| 6 EA | Hinge, Full Mortise                       | TA2314 4-1/2" x 4-1/2" | US32D | (HI-1) McKinney |
| 2 EA | Keypad Cylindrical Lock<br>Storeroom Lock | KP10XG77 LL            | US26D | (LO-1) Sargent  |
| 2 EA | Surface Closer                            | TB 1431 CPS            | EN    | (CL-1) Sargent  |
| 2 EA | Threshold                                 | 171A x 36"             |       | (TH-1) Pemko    |
| 2 EA | Gasketing                                 | S88BL 17'              |       | (GA-1) Pemko    |
| 2 EA | Rain Guard                                | 346C x 40"             |       | (GA-2) Pemko    |
| 2 EA | Sweep                                     | 18061CNB x 36"         |       | (SW-1) Pemko    |

Keying system info needed.

**SPECIFICATIONS:****MATERIAL:**

Stainless, Brass

**DESCRIPTION:**Five Knuckle Standard  
Weight Hinge**FASTENERS:**

- (8) 1/2" x 12-24 Machine Screws
- (8) 1 1/4" x #12 Wood Screws

**OPTIONS:**

- NRP–Non-Removable Pin
- TB–Ball Bearing
- TCA–Concealed Bearing
- RC–Round Corner - 1/4" radius furnished unless specified
- HT–Hospital Tip
- BT–Ball Tip
- FT–Flat Decorative Tip
- GT–Grooved Tip
- LT–Lined Tip
- RT–Round Tip
- ST–Steeple Tip
- SSF–Safety Stud Feature
- QC–4, 8, or 12 wire available
- CC–4, 8, or 12 wire available
- CC-18–2, 4, 6, 8, or 10 wire available (2-18AWG wires and the remainder 28AWG wires)
- MM–Magnetic Monitoring

**NOTES:**

- When doors are beveled specify TA4314

**SIZE:**

4 1/2" x 4 1/2"

**AVAILABLE FINISHES:**

- P–Prime Coat
- US3/605
- US4/606
- US10/612
- US10A/614
- US10B/613
- US15/646
- US26/625
- US26D/626
- US32/629
- **US32D/630**
- 10BE–Bronze Satin Powder Coat
- BSP–Black Suede Powder Coat
- WSP–White Suede Powder Coat

**PACKAGED/WEIGHT:**

- 3 ea Per Box
- 48 ea Per Case
- Case Weight–57 lbs

**UL/ANSI:**

NFPA 80 UL Openings  
A5112 Grade 2  
A2112

# 10X Line Cylindrical Locks

The Keypad Operated Products 10X Line Cylindrical lock is available with a wide selection of lever designs and hardware finishes. Its unique design provides uniformity when used with other SARGENT locks at a facility. The KP products offer economical, standalone access control solutions.

## FEATURING ECOFLEX®



- Reduces energy consumption up to 92%, as certified by GreenCircle
  - Lower operating costs
  - Assists with load reduction in optimizing energy performance credit in LEED
  - Reduces number of power supplies required
- Field configurable to fail-safe or fail-secure
- Operates from 12-24VDC, offering greater flexibility in system design
- Innovative actuator design provides superior reliability
  - Higher performance and reduced maintenance
  - Ability to have longer cable runs without negatively impacting lock function
  - Reduces risk of voltage drops and eliminates inductive kickback
  - Lower total cost of ownership

## MECHANICAL FEATURES

- Certified ANSI/BHMA A156.2 Series 4000 - Grade 1
- UL listed to U.S.A. and Canadian safety standards Listed for 3 hour doors (double doors require 41 - option)
- EcoFlex® motor driven 10X Line cylindrical lock
- Latchbolt brass, 1/2" (13mm) throw; UL Listed 3/4" (19mm) throw (41- option) available
- 2-3/4" (70mm) backset standard. Consult factory for other backsets available
- Non handed
- Heavy duty lever spring return rose assembly
- Steel spacer bushing and extended one-piece bearing sleeves
- Steel mounting studs
- Key override standard
- Includes code to activate horn when keypad buttons are pushed
- Not available with 82-, F1-82, 83-, F1-83, or 84- options
- For 1-3/4" (44mm) thick doors standard
- Freewheeling levers optional

## KP10XG77 ENTRY LOCK WITH CYLINDER

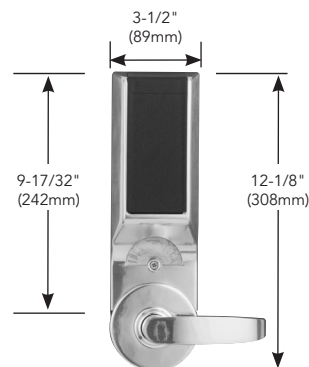
- Lever inside always retracts latchbolt
- Key outside retracts latchbolt
- Outside lever rigid except when in passage mode or valid user code entered

## CYLINDRICAL LOCK FUNCTIONS

| If the lock needs to have:         | Then select: |      |          |
|------------------------------------|--------------|------|----------|
|                                    | Series       | Type | Function |
| Cylinder override standard feature | KP           | 10X  | G77      |

## INSIDE ESCUTCHEON

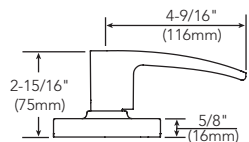
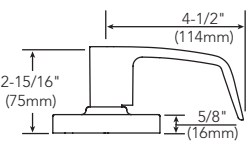
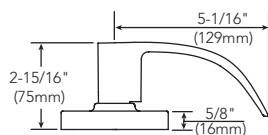
- Zinc die cast
- Projection at bottom 9/32" (7mm)
- Projection at top 2-1/8" (54mm)  
9-17/32" (242mm) Inside Escutcheon



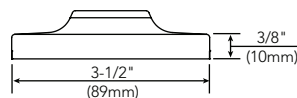
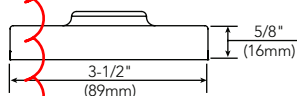
## ORDERING KP CYLINDRICAL LOCKS

| Options                 | Series                                               | Type | Function | Roses                                                                      | Levers | Finish | Hand |
|-------------------------|------------------------------------------------------|------|----------|----------------------------------------------------------------------------|--------|--------|------|
| Select from pages 14-16 | Select from KP Cylindrical Lock Function chart above |      |          | Select rose from page 11, lever from pages 10, 12, and finish from page 10 |        |        |      |
| 23-                     | KP-10XG77                                            |      |          | G                                                                          | L      | 03     | RH   |

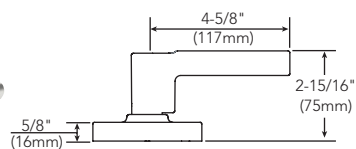
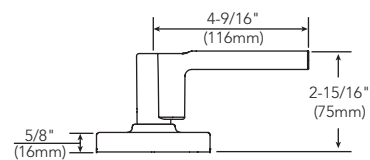
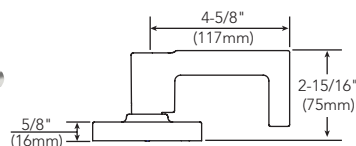
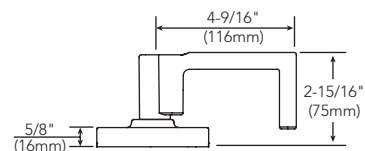
## LEVERS - SOLID CAST ZINC

**B****L\*****P\***

## ROSES - WROUGHT BRASS OR BRONZE

**G****L**

## DECORATIVE LEVERS

**MD****MB****ND\*****MW\***

Any rose or lever on this page can be combined to suit individual taste.

All lever height measurements represent total distance from door face. Dimensions shown using L rose.

\*Lever with return to within 1/2" of door face.

# 460 Series Grade 2 Deadbolts

**SARGENT®****ASSA ABLOY****Specifications**

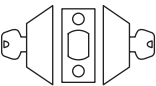
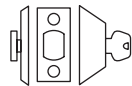
|                           |                                                                                                                                                                                                                                                                                                                                       |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>For Doors</b>          | 1-3/8" (35mm) to 1-3/4" (44mm) thick standard<br>For doors over 1-3/4" (44mm) consult factory (2-1/4" Thick door max)                                                                                                                                                                                                                 |
| <b>Door Prep</b>          | Fits 161 (standard) cut outs and Fits 160 with 2-3/8" (60mm) backset with 1" (25mm) front and for 1-3/8" (35mm) thick door                                                                                                                                                                                                            |
| <b>Backsets</b>           | 2-3/4" (70mm) standard. 2-3/8" (60mm) optional (20- option)                                                                                                                                                                                                                                                                           |
| <b>Strike</b>             | Wrought brass, bronze or stainless steel. Each unit includes a metal and wood frame strike with dust box                                                                                                                                                                                                                              |
| <b>Bolt</b>               | Solid steel with hardened steel pin insert and nickel silver plating 7/8" (22mm) x 5/8" (16mm) x 1" (25mm) throw                                                                                                                                                                                                                      |
| <b>Cylinder</b>           | Brass, 6 pin. 2 nickel silver keys                                                                                                                                                                                                                                                                                                    |
| <b>Masterkeying</b>       | Can be masterkeyed. Construction key system available                                                                                                                                                                                                                                                                                 |
| <b>Front</b>              | Wrought brass, bronze or stainless steel 2-1/4" (57mm) x 1-1/8" (29mm) with fixed bevel 1/8" (3mm) in 2" (51mm) furnished standard                                                                                                                                                                                                    |
| <b>Hand</b>               | Non handed, field reversible                                                                                                                                                                                                                                                                                                          |
| <b>Thumb Turn</b>         | Non-ferrous                                                                                                                                                                                                                                                                                                                           |
| <b>Housing</b>            | Non-ferrous, reinforced, one piece 2-1/2" (64mm) diameter<br>Concealed screws on double cylinder function                                                                                                                                                                                                                             |
| <b>ANSI/BHMA</b>          | A156.36 Certified Grade 2                                                                                                                                                                                                                            |
| <b>UL/cUL Listed</b>      | 460 series deadbolts, when used in conjunction with the primary latching device, are UL/cUL listed for use with Classified steel covered composite or hollow metal doors rated up to and including 3 hours; wood and plastic covered composite doors rated up to and including 1-1/2 hours; and wood core doors rated for 20 minutes. |
| <b>Positive Pressure</b>  | Meets ANSI/UL 10C, Positive Pressure Fire Test of Door Assemblies                                                                                                                                                                                                                                                                     |
| <b>Mechanical Options</b> | Cylinder Options see page 12-13<br>20- 2-3/8" (60mm) backset. 2-3/4" (70mm) x 1" (25mm) wide front                                                                                                                                                                                                                                    |
| <b>Finishes</b>           | 03, 04, 10B, 10BE, 26, 26D, BSP                                                                                                                                                                                                                                                                                                       |

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

**How To Order**

| 10-V01                       | 465               | 26D            |
|------------------------------|-------------------|----------------|
| Options                      | Series x Function | Finish         |
| Cylinder Options Pages 12-13 | 464               | 03, 04, 10B,   |
|                              | 465               | 10BE, 26, 26D, |
| Indicator Options Page 8     | 468               | BSP            |

**Functions**

| *464 Double Cylinder                                                                                                | 465 Single Cylinder                                                                                                                                     | 468 Thumb Turn x Indicator                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                  |                                                                      |                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>Key from either side operates deadbolt</li> <li><b>ANSI E0142</b></li> </ul> | <ul style="list-style-type: none"> <li>Key outside operates deadbolt</li> <li>Thumb turn inside operates deadbolt</li> <li><b>ANSI E0152</b></li> </ul> | <ul style="list-style-type: none"> <li>Thumb turn inside operates deadbolt</li> <li>Emergency override key outside</li> <li>Indicator standard both sides, specify indicator option code (V21 standard)</li> <li><b>ANSI E01112</b></li> </ul> |

\*Use only on rooms with more than one exit

**460 Series Deadbolt****Metal Frame Strike**

Standard  
2-3/4" (70mm) x 1-1/8" (29mm). To order separately, specify 404 x Finish

**Wood Frame Strike**

Standard  
2-3/4" (70mm) x 1-1/8" (29mm). To order separately, specify 410 x Finish.

**Dust Box**

Standard. To order separately, specify part number 16-0277.

**Packaging — 460 Series**

| Approximate Shipping Weights |               |
|------------------------------|---------------|
| 2 lbs. (.9 kg)/Box           | 12 Boxes/Case |

Indicators

Available on the 460 Series, ANSI/BHMA Grade 2, deadbolts, status indicators can be used in a variety of applications and are most commonly used to identify occupancy status of a room.

With indicator option codes that are designed to convey wording and color in one simple code, indicators are provided on the 465 function as an option, and standard on both sides for the 468 function. Indicator option codes must be specified when ordering.



- Features:**
- Multiple indicator windows
  - Large indicator windows
  - Color, wording and symbols
  - Options for wording/color
  - Oversized thumbturn
  - Patent pending thumbturn indicator
  - Handed and field reversible

- Applications:**
- Restrooms
  - Quiet rooms
  - Nursing mother's rooms

Indicator Option Codes

| Single Indicator (Available for 465 function) |                 |                 |           |
|-----------------------------------------------|-----------------|-----------------|-----------|
| Option Code                                   | Outside Wording | Inside Wording  | Color     |
| V01                                           | No Indicator    | Unlocked/Locked | Green/Red |
| V01F                                          | No Indicator    | Ouvert/Fermé    | Green/Red |
| V04                                           | No Indicator    | Unlocked/Locked | White/Red |
| Double Indicator (Available for 468 function) |                 |                 |           |
| Option Code                                   | Outside Wording | Inside Wording  | Color     |
| V21*                                          | Vacant/Occupied | Unlocked/Locked | Green/Red |
| V21F                                          | Libre/Occupée   | Ouvert/Fermé    | Green/Red |
| V54                                           | Vacant/Occupied | Unlocked/Locked | White/Red |

| Outside            |                    | Inside               |                    |
|--------------------|--------------------|----------------------|--------------------|
| VACANT<br>UNLOCKED | OCCUPIED<br>LOCKED | UNLOCKED<br>LOCKED   | UNLOCKED<br>LOCKED |
| LIBRE<br>UNLOCKED  | OCCUPÉE<br>LOCKED  | OVERT<br>OVERT       | FERMÉ<br>FERMÉ     |
| VACANT<br>UNLOCKED | OCCUPIED<br>LOCKED | UNLOCKED<br>UNLOCKED | LOCKED<br>LOCKED   |

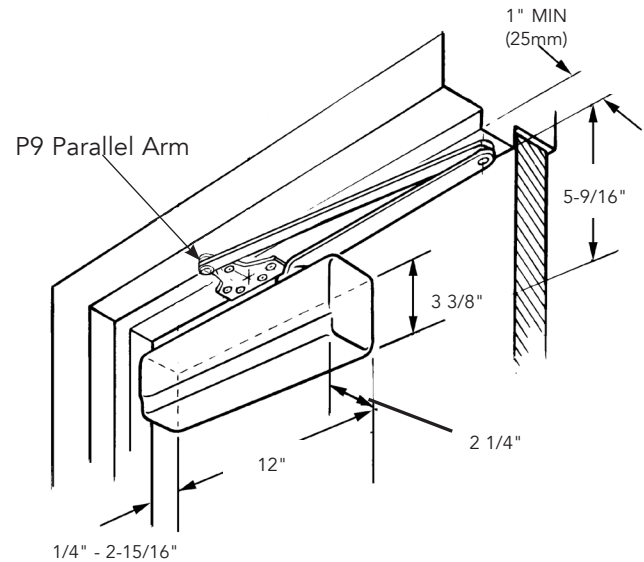
\* V21 provided standard for 468 function unless otherwise specified

# Parallel Arm Applications

## 1431-P9 REGULAR PARALLEL ARM APPLICATION



Parallel Arm Applications – The 1431 closer is mounted on the push side of the door with the arm under the frame parallel to the face of the door. This application is well suited for narrow face frames and deep reveal applications. The closer arm does not project into the room, and the door can be swung open much farther than in Top Jamb Application.



## HEAVY DUTY PARALLEL ARMS

### For use in high traffic and abusive environments

- Friction and positive hold open arms available
- Use friction hold open arms for doors subject to moderate hold open use
- Use positive stop hold open arms for doors subject to frequent hold open use
- Dead stop and compression stop arms available

### Non hold-open arms

- Two mounting positions for 120° and 180° maximum door openings

### Stop arms

- 6 mounting positions allow stop from 85° – 110°

### Positive stop hold open arms

- 6 mountings provide hold open positioning from 85° – 110°

### Friction hold open arm

- Two mountings provide adjustable hold open positions from 75° – 180°

## REGULAR DUTY PARALLEL ARMS

### Available Arms for institutional installations:

- Regular Duty Parallel Arms
- Offset Bracket Arms for use with Auxiliary Holders & Stops
- Parallel flush frame arms
- Flush frame arms for use with Auxiliary Holders & Stops
- Flush frame, friction hold open arms
- Friction hold open arms
- Use friction hold open arms for doors subject to moderate hold open use

### Standard Mounting Position

- 120° Maximum door opening
- Holding range of friction hold open arms: 75° – 110°

### Alternate Mounting Position

- Maximum door opening: 180°
- Holding range of friction hold open arms: 85° – 170°

# Heavy Duty Parallel Arms

## P10 - Heavy Duty Parallel Arm



- Forged Steel Arm 11-1/4" (286mm) long
- Non-handed
- Easily installed
- Permits 120° opening at standard mounting
- Permits 180° opening at alternate mounting

For arm only, order as 25-P10 x finish

### Includes:

- 63-0641 - Main arm
- 63-3727 - Arm and bracket assembly
- 64-2407 & 63-2392 - Screw packs

## PS - Heavy Duty Parallel Arm with Positive Stop



- Forged Steel Arm 11-1/4" (286mm) long
- Handed arm is field-reversible
- Provides built in stop from 85° – 110°
- Permits 110° opening maximum
- Easily installed
- Permits 85° – 110° door opening

For arm only, order as 25-PS x finish

### Includes:

- 63-0641 - Main arm
- 63-3837 - Arm and bracket assembly
- 64-2407 & 63-2392, 63-2396 - Screw packs

## CPS - Heavy Duty Parallel Arm with Compression Stop



- Forged Steel Arm 11-1/4" (286mm) long
- Provides built in compression stop from 85° – 105°
- Permits 105° opening maximum
- Easily installed
- Handed arm is field-reversible
- Dead stop within 3°

For arm only, order as 25-CPS x finish

### Includes:

- 63-0641 - Main arm
- 63-3830 - Arm and bracket assembly
- 63-0516 - Bumper holder
- 63-3493 - Bumper
- 64-2407 & 63-2398 - Screw packs

## PH10 - Heavy Duty Friction Hold Open Parallel Arm



- Equipped with adjustable friction holder
- Adjustable hold open from 75° – 180°
- Forged steel arm 11-1/4" (286mm) long
- Handed same as door
- Use friction hold open arms for doors subject to moderate hold open use

For arm only, order as 25-PH10 x finish

### Includes:

- 63-0641 - Main arm
- 63-3839 - Left hand arm and bracket assembly
- 63-3840 - Right hand arm and bracket assembly
- 64-2407 & 63-2392 - Screw packs

## PSH - Heavy Duty Parallel Hold Open Arm with positive Stop



- Provides holder and stop features
- Handed arm is field-reversible
- Easily installed/adjusted
- Permits 85° – 110° door opening

For arm only, order as 25-PSH x finish

### Includes:

- 63-0641 - Main arm
- 63-3833 - Arm and bracket assembly
- 64-2407 & 63-2392, 63-2396 - Screw packs

## CPSH - Heavy Duty Hold Open Parallel Arm with Compression Stop

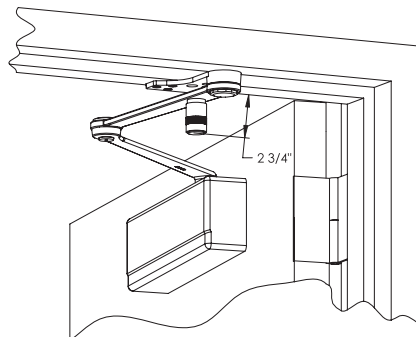


- Forged Steel Arm 11-1/4" (286mm) long
- Handed arm is field-reversible
- Provides built in compression stop and holder mechanism from 85° – 105°
- Easily installed/adjusted
- Permits 105° opening maximum
- Dead stop within 3°

For arm only, order as 25-CPSH x finish

### Includes:

- 63-0641 - Main arm
- 63-3836 - Arm and bracket assembly
- 63-0516 - Bumper holder
- 63-3493 - Bumper
- 64-2407 & 63-3487 - Screw packs



The PSH and CPSH arms project 2 3/4" below the head stop

### Positive Stop Hold Open Arms (PSH & CPSH ARMS)

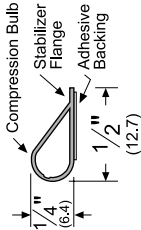
- Use on doors subject to repetitive hold open use
- 6 hold open angle installation
- Hold open function may be disengaged
- Hold open tension is easily adjustable

# Architectural Door Accessories

## Pemko Adhesive Gasketing: Siliconseal™ Adhesive-backed Fire/Smoke Gasketing



AVAILABLE FINISHES: BL, C, D, GR, TAN, W  
AVAILABLE LENGTHS: 17', 18', 20', 21', 25', 30', 204'  
WIDTH: 1/2" (12.7 mm)  
HEIGHT: 1/4" (6.4 mm)



- BL (Black)
- C (Clear)
- D (Dark Brown)
- GR (Gray)
- TAN (Tan)
- W (White)

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|               |
|---------------|
| TITLE:        |
| PREPARED FOR: |
| PREPARED BY:  |
| DATE:         |
| COMMENTS:     |

# Architectural Door Accessories

ASSA ABLOY

## Pemko Door Bottoms: Door Top Weatherstrip

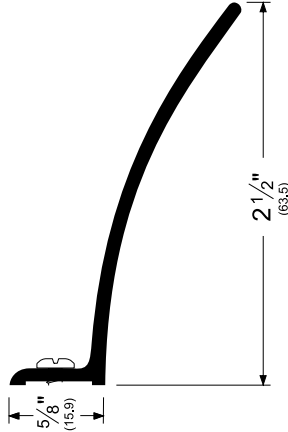
The global leader in  
door opening solutions

346\_

AVAILABLE FINISHES: C, D, G, PW

WIDTH: 2-1/2" (63.5 mm)

HEIGHT: 5/8" (15.9 mm)



**C** (Clear Anodized Aluminum)

**D** (Dark Bronze Anodized Aluminum)

**G** (Gold Anodized Aluminum)

**PW** (Painted White Aluminum)

|               |
|---------------|
| TITLE:        |
| PREPARED FOR: |
| PREPARED BY:  |
| DATE:         |
| COMMENTS:     |

# Architectural Door Accessories

EO NOTE: USED AS  
DOOR SWEEP

ASSA ABLOY

## Pemko Astragals & Meeting Stiles: Astragals and Meeting Stiles Gasketing - Split Astragals

The global leader in  
door opening solutions

18061\_NB (MS)



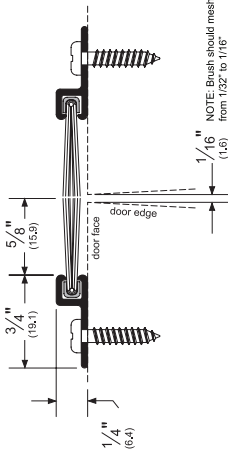
ORDER TWO  
(AS A PAIR)

AVAILABLE FINISHES: C, D, G, SN

PROFILE WIDTH: 3/4" (19.1 mm) (x2)

TOTAL WIDTH WITH INSERT: 1-3/8" (35.0 mm) (x2)

HEIGHT: 1/4" (6.4 mm)



**C** (Clear Anodized Aluminum)

**D** (Dark Bronze Anodized Aluminum)

**G** (Gold Anodized Aluminum)

**SN** (Satin Nickel Anodized Aluminum)

|               |
|---------------|
| TITLE:        |
| PREPARED FOR: |
| PREPARED BY:  |
| DATE:         |
| COMMENTS:     |

# Architectural Door Accessories

ASSA ABLOY

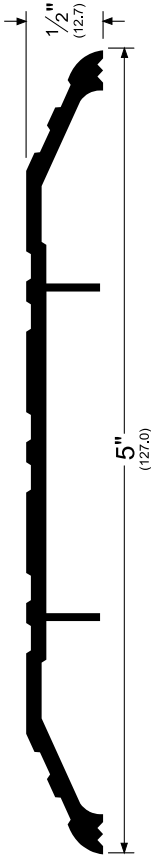
## Pemko Commercial Thresholds: Saddle Thresholds

The global leader in  
door opening solutions



171 \_

AVAILABLE FINISHES: A, B, BDG, D, G, SN  
WIDTH: 5" (127.0 mm)  
HEIGHT: 1/2" (12.7 mm)



**A** (Mill Finish Aluminum)

**B** (Mill Finish Extruded Bronze [Brass])

**BDG** (Bright Dip Gold Anodized)

**D** (Dark Bronze Anodized)

**G** (Gold Anodized)

**SN** (Satin Nickel Anodized)

|               |
|---------------|
| TITLE:        |
| PREPARED FOR: |
| PREPARED BY:  |
| DATE:         |
| COMMENTS:     |



Sunbelt Builders, Inc.  
10641 Highway 36  
Covington, GA 30014  
Phone: (770) 786-3031  
Fax: (770) 786-3046

## Submittal

TO: Ascension Program Management  
2990 Summit Lane  
Monroe, GA 30655

|             |                             |
|-------------|-----------------------------|
| Date:       | 3/23/2026                   |
| Project #   | 25-09 - Factory Shoals Park |
| Submittal # | 20                          |
| ATTN:       | Jeff Prine                  |
| RE:         | Glazing                     |

| Copies | Spec No. | Description |
|--------|----------|-------------|
| 1      | 08-4300  | Glazing     |

Contractor's Stamp

**SUNBELT BUILDERS, INC.**

DATE: March 23, 2026

☒ APPROVED

☐ APPROVED AS NOTED

☐ RESUBMIT

☐ OTHER

SIGNATURE: Ryan Lewis

Architect's Stamp

Engineer's Stamp



| Newton Co. Factory Shoals Park           |         |                                                   |                        |               |         | Submittal Log  |                |                     |              |                   |                   |               |          |  |
|------------------------------------------|---------|---------------------------------------------------|------------------------|---------------|---------|----------------|----------------|---------------------|--------------|-------------------|-------------------|---------------|----------|--|
| Package #                                | Section | Package Title<br>(Description)                    | Vendor                 | Category      | Sent To | ACTION DATES   |                |                     |              |                   |                   |               |          |  |
|                                          |         |                                                   |                        |               |         | Submittal Goal | Date Submitted | Architect review by | No Exception | Approved as Noted | Revise / Resubmit | Date Resubmit | Approved |  |
|                                          |         |                                                   |                        |               |         |                |                |                     |              |                   |                   |               |          |  |
| Submitted to Design Professional / Owner |         |                                                   |                        |               |         |                |                |                     |              |                   |                   |               |          |  |
|                                          | 08-4300 | Glazing                                           |                        |               |         |                |                |                     |              |                   |                   |               |          |  |
|                                          |         | Material - Glazing                                | Triple H               | Product Data  | yes     |                |                |                     |              |                   |                   |               |          |  |
|                                          | 07-4646 | Fiber Cement Siding                               |                        |               |         |                |                |                     |              |                   |                   |               |          |  |
|                                          |         | Material                                          | RS Wilson Construction | Product Data  | no      |                |                |                     |              |                   |                   |               |          |  |
|                                          | 06-1610 | Framing Hardware                                  |                        |               |         |                |                |                     |              |                   |                   |               |          |  |
|                                          |         | Material                                          | RS Wilson Construction | Product Data  | no      |                |                |                     |              |                   |                   |               |          |  |
|                                          | 06-1600 | Sheathing                                         |                        |               |         |                |                |                     |              |                   |                   |               |          |  |
|                                          |         | Material                                          | RS Wilson Construction | Product Data  | no      |                |                |                     |              |                   |                   |               |          |  |
|                                          | 05-1000 | Structural Metal Framing                          |                        |               |         |                |                |                     |              |                   |                   |               |          |  |
|                                          |         | Framing Layouts (Entrance Sign) - Received        | PEC                    | Shop Drawings | no      |                |                |                     |              |                   |                   |               |          |  |
|                                          |         | Framing Layouts (Entrance Sign Water Wheel)       | PEC                    | Shop Drawings | no      |                |                |                     |              |                   |                   |               |          |  |
| *                                        | 33-3413 | Septic Tank & Field*                              |                        |               |         |                |                |                     |              |                   |                   |               |          |  |
|                                          |         | Material                                          | Anything Septic        | Product Data  | no      |                |                |                     |              |                   |                   |               |          |  |
|                                          | 26-0000 | Electrical                                        |                        |               |         |                |                |                     |              |                   |                   |               |          |  |
|                                          |         | Material - Devices, Boxes and Switches            | AC Electric            | Product Data  | no      |                |                |                     |              |                   |                   |               |          |  |
|                                          |         | Material - Panelboards                            | AC Electric            | Product Data  | no      |                |                |                     |              |                   |                   |               |          |  |
|                                          |         | Material - Light Fixtures                         | AC Electric            | Product Data  | no      |                |                |                     |              |                   |                   |               |          |  |
|                                          | 22-0000 | Plumbing                                          |                        |               |         |                |                |                     |              |                   |                   |               |          |  |
|                                          |         | Material - DWV, Water Pipe, Insulation & Fittings | King's Plumbing        | Product Data  | no      |                |                |                     |              |                   |                   |               |          |  |
|                                          |         | Material - Plumbing Fixtures                      | King's Plumbing        | Product Data  | no      |                |                |                     |              |                   |                   |               |          |  |
|                                          | 09-3113 | Thin-Set Tiling (for one row base detail)         |                        |               |         |                |                |                     |              |                   |                   |               |          |  |
|                                          |         | Material                                          | Carnes                 | Product Data  | yes     |                |                |                     |              |                   |                   |               |          |  |

## Quality Standards

GG 002—2015-02-23

Glass products fabricated by Trulite Glass & Aluminum Solutions™ meet the following standards and specifications:

**Primary Float Glass**—Meets the requirements of ASTM C 1036, *Standard Specification for Flat Glass*, including: Type 1, Class 1, Quality q3 for clear glass; and Type 1, Class 2, Quality q3 for tinted glass. The primary float glass manufacturer will be one of the following: PPG, Guardian, Pilkington.

**Heat Treated Glass**—Meets the requirements of ASTM C 1048, *Standard Specification for Heat-Treated Flat Glass*, for Condition A, B, or C; Quality q3, and Kind FT (Fully Tempered) or Kind HS (heat-strengthened). Unless otherwise noted, all fully tempered glass meets the safety glazing requirements of ANSI Z97.1, Class A; and CPSC 16 CFR 1201 Category II. Trulite's tempered products are certified through the Safety Glazing Certification Council (SGCC), which serves as a third party independent sponsor for overseeing of safety glazing certification and product testing. Heat treated products have a Limited Warranty from Trulite for a period of ten (10) years.

**Coated Glass**—Meets the requirements of ASTM C 1376, *Standard Specification for Pyrolytic and Vacuum Deposition Coatings*. Coated glass has a Limited Warranty for a period of ten (10) years, provided by the coating supplier. These include PPG, Guardian, Pilkington.

**Insulating Glass**—Meets the requirement of ASTM E2190 (supersedes ASTM E774, level CBA). In the case of argon filled IG units, meets ASTM E2190 with tested results of 90% before, 80% after accelerated testing. Insulating glass units are comprised of two lites of glass, separated by a dehydrated airspace, with a primary seal of poly isobutylene (PIB), and a secondary seal of silicone. Most Trulite plants carry certification to the PPG Certified Fabricator® program and the Guardian Select™ Fabricator program. Insulating glass products have a Limited Warranty for a period of (10) Years.

**Spandrel Glass**—Meets the requirement of ASTM C1048 for Condition B, Kind HS (Heat Strengthened) or Kind FT (Fully Tempered) for ceramic fritted coating. Spandrel glass is also available with Opaci-Coat® 300. Both products have a Limited Warranty for a period of Five (5) Years. Neither coating is recommended for 2<sup>nd</sup> or 3<sup>rd</sup> surface application in an insulating glass unit.

**Laminated Glass**—Meets the requirement of ASTM C 1172 *Standard Specification for Laminated Architectural Flat Glass*. When comprised of two plies of glass and a 0.030" or thicker Interlayer, Trulite's laminated glass also meets the safety criteria of CPSC 16 CFR 1201, Category II; and ANSI Z97.1, Class A. Laminated glass also complies with ASTM C 1036, and when heat-treated, with ASTM C 1048. A Limited Warranty for a period of Five (5) Years is available for laminated glass with a PVB interlayer.



## **Trulite Glass & Aluminum Solutions Dual Seal Insulating Glass: Limited Warranty**

### **WARRANTY COVERAGE:**

Subject to the terms and conditions set forth below, Trulite Glass & Aluminum Solutions, LLC ("Trulite"), warrants that its dual seal insulating glass products and/or insulating glass units (the "Products" and each a "Product"), when used in accordance with (i) our technical service bulletins and other written instructions, (ii) applicable building codes and regulations, and (iii) standard industry practices (including, without limitation, the aluminum framing manufacturer installation instructions and the proper glazing techniques set forth in The National Glass Association's (formerly GANA) Glazing Manual and Sealant Manual, as the same may be modified from time to time), will be free from manufacturing defects resulting in material obstruction of the vision area due to flaking, peeling, the infiltration of dirt or dust, or the formation of any film on the internal glass surfaces due to the intrusion of moisture into the dehydrated air space. This Limited Warranty shall continue for a period of ten (10) years (the "Limited Warranty Period") from the date of shipment. This Limited Warranty does not cover qualities or characteristics which are considered acceptable under the applicable ASTM standard(s) in effect at the time of purchase. This Limited Warranty shall be conditioned upon and subject to the determination of the original purchaser (the "Customer") that the Product is suitable for and compatible with the Customer's intended use, and such determination shall be the sole responsibility of the Customer.

### **EXCLUSIONS FROM WARRANTY COVERAGE:**

To the extent any Product is damaged, either directly or indirectly, as a result of any of the following or is otherwise subjected to any of the following, such Product is specifically excluded from coverage under this Limited Warranty: (i) Products that measure in excess of sixty (60) square feet; (ii) Products that have been retrofitted; (iii) Products that have been installed in a vehicle that may incur high vibration; (iv) Products that utilize solely Lexan®, polycarbonate, non-glass laminates, acrylic or other plastic materials as a component lite; (v) Products that contain capillary tubes not in compliance with the Insulating Glass Manufacturers Alliance (IGMA) guidelines; (vi) the placement of any type of aftermarket film; (vii) improper usage; (viii) installations in or around swimming pool enclosures, green houses or any other environment that has continuous or cyclical high moisture; (ix) improper use of cleaners, solvents, acids, alkalis or any other chemicals on or around finished Products; (x) faulty building construction or design; (xi) glass breakage, whether spontaneous, accidental or from any other cause; (xii) Acts of God, including, but not limited to hurricanes, flooding, earthquakes or other types of natural disasters and/or abnormal weather conditions; (xiii) acts of negligence, or the misuse or abuse of the Product; (xiv) improper installation; (xv) failure to comply with our technical data sheets and other written instructions, applicable building codes and regulations, and standard industry practices; (xvi) incompatibility with other coatings, sealants, gaskets, lubricants, insulation or any other materials; (xvii) normal wear and tear due to usage; (xviii) scratches or abrasions to the Products; (xix) installation in a glazing system where there is no effective weep to prevent the IG edge seal from persistent exposure to moisture. This Limited Warranty will be void in the event that full payment is not received for goods and services within the agreed upon terms of sale..

### **LIMITATION OF LIABILITY:**

**THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE CONTAINED IN THIS LIMITED WARRANTY. TO THE EXTENT PERMITTED BY LAW, ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT ARE EXCLUDED. ANY IMPLIED WARRANTIES ARISING BY OPERATION OF LAW ARE LIMITED IN DURATION TO THE TERM OF THIS LIMITED WARRANTY. NO IMPLIED WARRANTY CAN BE MODIFIED BY ANY COURSE OF DEALING, COURSE OF PERFORMANCE OR USAGE OF TRADE. FURTHER, THE REPAIR, REPLACEMENT OR REFUND AS DESCRIBED BELOW IS THE CUSTOMER'S EXCLUSIVE REMEDY. THIS REMEDY IS AVAILABLE ONLY TO THE CUSTOMER AND IS NOT TRANSFERABLE. REGARDLESS OF THE TYPE OF CLAIM (WHETHER BASED IN CONTRACT, INFRINGEMENT, NEGLIGENCE, STRICT LIABILITY, TORT OR OTHERWISE), TRULITE'S LIABILITY TO CUSTOMER SHALL NOT EXCEED THE AMOUNT PAID BY THE CUSTOMER TO TRULITE ON SUCH PURCHASE ORDER.**

### **OTHER LIMITATIONS OF THIS WARRANTY:**

Trulite shall not be liable to the Customer or anyone else for consequential, incidental, special, exemplary, indirect, or punitive damages, including, without limitation, lost profits, labor costs, or any other pecuniary damage resulting from or related to personal injury, death, property damage, whether due to any defect, delay, non-delivery, non-performance, recall, breach, or other reason. All claims in tort, strict liability, and failure of essential purpose are waived and excluded, including claims of damage allegedly caused by Trulite's negligence. Except as expressly set forth in this Limited Warranty, Trulite shall not be liable to the Customer in tort, strict liability,



or any other legal or equitable theory for any alleged defect in the design, manufacture or materials of the Product or for the omission or alleged inadequacy of any warning related to the Product. Except for this Limited Warranty, the Customer accepts the Products "AS IS" with all faults and assumes the risk of loss for any defect or nonconformity. There are no third-party beneficiaries to this Limited Warranty. Customer acknowledges and declares that these limitations and waivers have been brought to the Customer's attention and explained, that the Customer has read and understood all terms and agrees to be so bound, and that the Customer's receipt of the Products and this Limited Warranty signifies that the Customer has voluntarily and knowingly consented to all terms, including the waivers and limitations contained within this Limited Warranty.

Warranties for products manufactured or supplied to Trulite by third parties shall be limited to the third party manufacturer's warranty, and Trulite will not be responsible for any freight or labor charges in connection with any third party warranty claims.

#### **THE CUSTOMER'S EXCLUSIVE REMEDY:**

If a Product is proven defective within the Limited Warranty Period, then as the Customer's sole remedy, Trulite will, at its sole option, either: (A) replace the defective Product without charge, FOB to the Trulite location nearest to the place of installation; or (B) refund the purchase price of the defective Product. Trulite will not be liable for any other expenses involved in the removal of such Product, installation of a replacement Product, or any other incidental or consequential damages, including, without limitation, attorney's fees, transportation costs or labor. The warranty for any replacement Product shall be limited to the terms and conditions of this Limited Warranty and shall continue for the period of time remaining under the original Limited Warranty Period provided in this Limited Warranty.

#### **THE CUSTOMER'S WARRANTY IS NON-TRANSFERRABLE:**

This Limited Warranty: (i) is limited to the Customer to whom the Product was sold by Trulite and is nontransferable, non-assignable and cannot be extended by operation of law or otherwise beyond the Customer; (ii) replaces all previous warranties; and (iii) applies only to purchases and installations within the United States.

#### **FILING A CLAIM:**

To file a claim under this Limited Warranty, the Customer must contact us, in writing, within fifteen (15) calendar days of the discovery of an alleged manufacturing defect in a Product, at Trulite Glass & Aluminum Solutions LLC, Attn: Technical Services Department, 403 Westpark Ct. Suite 201, Peachtree City, GA 30269, although Trulite may change this address by written notice to the Customer as provided on Trulite's website. Proof of purchase from the Customer must be submitted with any notice of claim. We have the right to physically inspect an installation site and obtain samples from that job installation and of the Products used in that installation before we determine the validity of the Customer's claim. The Customer shall provide Trulite with reasonable access to the Products, installation site and such other information as Trulite may reasonably request in connection with its investigation. The Customer's claim must be received and evaluated by us before any repair or replacement work is performed; otherwise, this Limited Warranty will be null and void. No one except the CEO of Trulite has the authority to (i) change, modify or extend this Limited Warranty in any respect, or (ii) assume any other liability or obligation on Trulite's behalf.

#### **THIS WARRANTY IS GOVERNED BY GEORGIA LAW:**

In providing this Limited Warranty, Trulite and the Customer agree that Georgia law governs this Limited Warranty, including Title 11, Official Code of Georgia Annotated, § 11-2-101, *et seq.* This Limited Warranty shall be governed by and interpreted according to Georgia law, without giving effect to conflict of law principles. Except as provided above, any action or claim arising out of or relating to this Limited Warranty may be brought, if at all, in a federal or state court in Atlanta (Fulton County), Georgia having subject matter jurisdiction over the matter, and the Customer irrevocably consents to the jurisdiction of that court and waives any objection that the court in Atlanta is an inconvenient forum. At Trulite's sole election, any dispute arising out of or related to this Limited Warranty shall be submitted to binding arbitration in Atlanta, Georgia in accordance with the rules of the American Arbitration Association. Any award ordered in such arbitration shall be enforceable in any court of competent jurisdiction.

Last Updated, March 31, 2022 (#15669626 v3)

## ACKNOWLEDGEMENT OF CERTIFICATION

THIS IS TO ACKNOWLEDGE THAT AS OF THIS DATE

Trulite Glass and Aluminum Solutions

Lithia Springs, GA

IS A CURRENT LICENSEE AND HAS MET ALL GUIDELINES AND REQUIREMENTS FOR THE IGCC®/IGMA® CERTIFICATION PROGRAM AND AS SUCH IS ELIGIBLE TO LABEL THE BELOW INDICATED PRODUCT(S) AS IGCC®/IGMA® CERTIFIED. THE FOLLOWING ARE IN COMPLIANCE WITH ASTM E2190 FOR SEAL DURABILITY OF INSULATING GLASS UNITS AND PASSING GAS CONTENT INITIAL AND AFTER WEATHERING (GCIA) CERTIFICATION REQUIREMENTS AS INDICATED.

| CERT # | GLASS | SPACER | FRAME CONST. | DESICCANT | SEALANT | GCIA | IC |
|--------|-------|--------|--------------|-----------|---------|------|----|
| 4488   | U/C2  | MA     | BC4/GSLC     | LF        | PIB/S2  | Yes  |    |
| 4489   | U/C2  | SS     | BC4/GSLC     | LF        | PIB/S2  | Yes  |    |

THIS IGCC®/IGMA® PROGRAM CERTIFICATION IS CURRENT AND IN FULL EFFECT AS OF THIS ISSUE DATE. CERTIFICATION IN THE IGCC®/IGMA® PROGRAM IS SUBJECT TO SEMI-ANNUAL RENEWAL. PLEASE CHECK THE CURRENT CERTIFIED PRODUCTS DIRECTORY OR THIS OFFICE FOR MOST CURRENT INFORMATION.

Friday, February 2, 2024

February 1, 2024 - January 31, 2025

DATE OF ISSUE

CERTIFICATION PERIOD

ADMINISTRATIVE MANAGER

## Cleaning Instructions—Glass

GG 004—2015-02-23

The following cleaning instructions are intended for vision and spandrel glass used in typical architectural construction. Glass used in unusual ways or special types of glass may require special cleaning procedures. Always consult with the manufacturer of those products. Mirrors also have special cleaning requirements that are not covered by these instructions. Refer to Trulite's Technical Bulletin, MR 005 *Cleaning Instructions – Mirror*, for specific mirror cleaning techniques. In addition, please also refer to the Glass Association of North America's (GANA) document GANA 01-0300, *Proper Procedures for Cleaning Architectural Glass Products*, for more recommendations.

Glass is the hardest common building material currently in use. However, since glass is made to be “looked through”, even slight imperfections may become annoying under critical lighting and viewing conditions. **Preventive measures during construction are more effective than the best cleaning methods known.** Glass should be protected from all alkali materials, any mechanical process that may cause damage to the glass surface, and exposure to any fluoride bearing compounds. These materials may permanently damage the glass surface and glass replacement may be the only method of correcting the problem.

### **DO NOT USE RAZOR BLADES OR ANY OTHER METAL TOOL TO CLEAN GLASS!**

The most common form of glass damage involves the use of metal scraping tools during the cleaning process. Metal tools, scrapers, razor blades, steel wool or similar materials should never be used a general cleaning tool. For very stubborn stains it is recognized that use of such tools may be the last resort, however, Trulite cannot be held responsible for any damage when these tools are used. Even though glass is very hard, it can be scratched by metal implements. Scratches that occur during construction or the cleaning process are not the responsibility of the glass manufacturer or fabricator.

### **Potential Problems**

#### **Low E Coatings**

Vacuum coated (MSVD) Low E products may be very sensitive to any type of solvent or strong chemical. It is critical to use only the recommended glass cleaning materials of mild soap or detergent mixed with water. Never use commercial glass cleaning agents that contain alcohol, petroleum-based solvents, fluorine-containing compounds, vinegar or ammonia. These materials can damage the glass, the insulating unit sealants and the Low E coating.

#### **Water Runoff**

Water flowing over the façade of a building is deflected, absorbed or allowed to run down the building. If this water runs over masonry, cement, stucco, sealants, organic coatings, etc., it may carry contaminants onto the glass surface. These contaminants may be very difficult to remove, or they may chemically bond to the glass surface and cause a permanent stain.

# Cleaning Instructions—Glass

Generally, cleaning this type of contamination is either impossible or more expensive than replacing the glass. Protecting the glass from water runoff is best done during the design process. Reveal, flashing, splay or drips can be used to effectively limit water runoff from washing over the glass.

## Construction Damage

Construction schedules frequently call for glass to be installed while other potentially damaging construction activities are being carried out. The following issues are known to cause damage to glass surfaces. However, this list is not all-inclusive. Both glazing contractors and general contractors should look for potential problems, which could damage the glass. Prevention is always faster and less expensive than correcting a problem that has occurred.

**Glass labels or protective pads** that are left on the glass for any period of time after glazing may cause problems. The action of the sun may make the adhesive harden and become very difficult to remove. In addition, if the adhesive is alkaline, it may corrode or etch the glass surface. If the adhesive is slightly acidic, the glass may not be damaged, but it will be protected from normal weathering. When the label is removed, the undamaged area will have a different appearance from the rest of the lite. Trulite recommends that product labels and protective buttons be removed within 24 hours after glazing.

**Welding splatter** will cause a rough, pitted surface on glass. Heavy splatter may even leave slag on the glass. Any glass damaged by welding splatter is recommended to be replaced. The glass strength can be severely degraded by this damage and may no longer perform as designed.

**Concrete splatter** is common on the ground floor of high-rise buildings. If the concrete is allowed to dry, the glass will most likely have to be replaced. Immediate flooding of the glass surface with water may wash away fresh concrete. Don't rub the concrete off the glass; scratching of the glass surface will almost always occur if you do.

**Material storage** often occurs near glass that has already been glazed. Do not allow other trades to lean materials against the glass. Scratches may result. This is especially critical if reflective glass is being used. Scratches are more visible on reflective glass.

**Joint compound** (dry wall mud) is frequently allowed to drip onto the glass. If it is cleaned up immediately, it can be removed with water. If it is allowed to harden, the lime may permanently etch the glass surface. Scratching may also occur if the compound is scraped off the glass.

**Suspended ceiling** installers sometimes lean their metal stringers against the glass while installing the ceiling grid. Glass scratching can occur, especially on reflective glass.

# Cleaning Instructions—Glass

**Insulation** installers will sometimes lay flexible fiberglass bats against the glass and cut the insulation with a razor blade knife. Glass scratching often occurs, especially on reflective glass.

**Organic sealants** may exude, bleed or leach solvents, oils or plasticizers. These materials may adhere very strongly to glass if they are allowed to set for any length of time. Frequent cleaning, even during construction, may be required. This is usually a bigger problem when the building is new, than after it has aged for a few years. These sealants don't have to be in direct contact with the glass to cause a problem. Residues from sealants used to seal adjacent joints in metal panels, between concrete panels, or at the parapet may all be carried over the glass by weathering action. Consult the sealant manufacturer for advice and their recommendations.

**Masonry** frequently releases alkaline materials during normal weathering cycles that will stain or permanently etch glass surfaces. Concrete adjacent to glass should be completely cured and all surface treatments (acid washing, sandblasting, bush hammering, grouting and waterproofing) should be completed **before** glazing begins. Glass should be examined frequently during construction and after building occupancy to see if an alkaline build-up is occurring. If so, the glass should be cleaned immediately.

**Weathering steel** may also cause problems for glass. Weathering steels release oxides as they age. These oxides may adhere tenaciously to the glass surface and expensive cleaning techniques may be needed if they are left on the glass for any length of time.

**Acid washing** is frequently used on brick or concrete surfaces. Muratic acid is most commonly used. Muratic acid may attack glazing sealants, glass substrates, reflective coatings, and even the back side of metal IG spacers. Acid washing should be carried out **before** glazing begins.

## Hard Water Damage

Lawn sprinklers often spray water on the ground floor glass of commercial buildings. Minerals from hard water will precipitate out on the glass. These minerals will adhere strongly to the smooth glass surface. If left in place for any length of time, they may form a chemical bond with the glass. Cleaning of these deposits will be difficult. Glass replacement may be the only feasible answer. Care should be taken to keep over-spray from sprinklers off of the glass.

## Air Pollution

Air pollution may contain chemicals that will adhere tightly to glass surfaces, especially in the presence of water, such as rain. These chemicals may bond so tightly that normal cleaning techniques will not remove them. If left in place too long, chemical bonding may take place or

# Cleaning Instructions—Glass

the glass surface may be etched. If either of these conditions occurs, the glass will most likely have to be replaced.

## Basic Glass Cleaning Principles

Buildings should be cleaned from top to bottom so runoff from top floor glass will not dirty glass that has already been cleaned. Individual lites of glass should also be cleaned from top to bottom.

1. Use a solution of water and mild soap or liquid dishwashing detergent (10 to 15 drops of detergent to 3–4 gals. of water) for cleaning. **(WARNING: Never use detergents that contain phosphates. They may attack and damage high performance coatings.)** Apply by spraying or using clean, grit-free wet cloths or a clean, grit-free sponge. It is best to clean an area of about 10 square feet at a time. Using a circular motion and light to medium pressure, wipe the cleaning solution on the glass. Try 3 to 5 passes to clean the area. Adjust number of passes as needed, depending on the severity of the residue.
2. Rinse the glass immediately with generous amounts of clean water. Be sure to remove all the cleaning solution.
3. Use a clean, lint-free cloth or a squeegee to dry the glass surface.
4. If residue is still evident, repeat steps 1,2 and 3.
5. Paint residue may be removed with an appropriate solvent or paint remover. **Use of a razor blade to scrape away excess paint will likely damage the glass.** Grease or oil residue may be removed with a solvent, however, **do not allow solvents to run into the glazing pocket.** This could damage the IG seals and/or and pass into the air space attacking the coating or leaving a chemical fog on the glass surface. Solvents may also damage waterproofing sealants and metal finishes. When using solvents, apply them first to a clean cloth without saturating it and wipe the area needed.
6. After application of solvents, wash glass following steps 1, 2 and 3.
7. **Avoid cleaning glass in direct sunlight.** The cleaning solution will dry before proper cleaning has occurred. The dry surface may also allow scratching to occur.

# Cleaning Instructions—Glass

## Glass Cleaning Procedure With Cerium Oxide

For really stubborn stains like hard water, alkali run off, sprinkler spray, or where the glass surface shows signs of devitrification (glass corrosion), a more aggressive cleaning technique is required. Cerium oxide is actually a mild abrasive and used as polishing agent in polishing glass edges to a lustrous finish. It can also be used to restore a surface with heavy stains or corrosion.

1. Make a liquid paste with cerium oxide and water.
2. Use a clean, grit-free cloth to wipe the paste on the glass. Use a circular motion with light (2 to 4 pound) pressure. Cerium oxide is an abrasive, and heavy pressure could scratch the glass. Clean an area of 3 to 5 square feet. Try 3 to 5 passes to clean the area. Adjust the number of passes as needed, depending on the severity of the residue.
3. When a stain requires extensive rubbing, a commercial polishing pad can be applied to the end of a drill or even an orbital sander. The pad is typically made of sponge material with grooves or recesses in its surface to hold the cerium oxide. Wet that pad with a spray bottle of water and apply the cerium oxide to the pad, making a paste on the surface. As the pad is applied to the glass, have the spray bottle handy to keep the cerium oxide as a paste and not dry out.
4. Rinse the glass surface with generous amounts of water, cleaning off all the cerium oxide paste. Use a damp, grit-free cloth or sponge to help remove the cerium oxide.
5. Use a clean, lint-free cloth or a squeegee to dry the glass surface.
6. If residue is still evident, repeat steps 1 through 5.

Only optical grade cerium oxide should be used. Cerium oxide is available from:

C. R. Laurence Co., Inc.  
(800) 421-6144

For other cleaning procedures or techniques not listed above please contact Trulite.

**SPECIFICATIONS:****MATERIAL:**

Stainless, Brass

**DESCRIPTION:**Five Knuckle Standard  
Weight Hinge**FASTENERS:**

- (8) 1/2" x 12-24 Machine Screws
- (8) 1 1/4" x #12 Wood Screws

**OPTIONS:**

- NRP–Non-Removable Pin
- TB–Ball Bearing
- TCA–Concealed Bearing
- RC–Round Corner - 1/4" radius furnished unless specified
- HT–Hospital Tip
- BT–Ball Tip
- FT–Flat Decorative Tip
- GT–Grooved Tip
- LT–Lined Tip
- RT–Round Tip
- ST–Steeple Tip
- SSF–Safety Stud Feature
- QC–4, 8, or 12 wire available
- CC–4, 8, or 12 wire available
- CC-18–2, 4, 6, 8, or 10 wire available (2-18AWG wires and the remainder 28AWG wires)
- MM–Magnetic Monitoring

**NOTES:**

- When doors are beveled specify TA4314

**SIZE:**

4 1/2" x 4 1/2"

**AVAILABLE FINISHES:**

- P–Prime Coat
- US3/605
- US4/606
- US10/612
- US10A/614
- US10B/613
- US15/646
- US26/625
- US26D/626
- US32/629
- **US32D/630**
- 10BE–Bronze Satin Powder Coat
- BSP–Black Suede Powder Coat
- WSP–White Suede Powder Coat

**PACKAGED/WEIGHT:**

- 3 ea Per Box
- 48 ea Per Case
- Case Weight–57 lbs

**UL/ANSI:**

NFPA 80 UL Openings  
A5112 Grade 2  
A2112

# 10X Line Cylindrical Locks

The Keypad Operated Products 10X Line Cylindrical lock is available with a wide selection of lever designs and hardware finishes. Its unique design provides uniformity when used with other SARGENT locks at a facility. The KP products offer economical, standalone access control solutions.

## FEATURING ECOFLEX®



- Reduces energy consumption up to 92%, as certified by GreenCircle
  - Lower operating costs
  - Assists with load reduction in optimizing energy performance credit in LEED
  - Reduces number of power supplies required
- Field configurable to fail-safe or fail-secure
- Operates from 12-24VDC, offering greater flexibility in system design
- Innovative actuator design provides superior reliability
  - Higher performance and reduced maintenance
  - Ability to have longer cable runs without negatively impacting lock function
  - Reduces risk of voltage drops and eliminates inductive kickback
  - Lower total cost of ownership

## MECHANICAL FEATURES

- Certified ANSI/BHMA A156.2 Series 4000 - Grade 1
- UL listed to U.S.A. and Canadian safety standards Listed for 3 hour doors (double doors require 41 - option)
- EcoFlex® motor driven 10X Line cylindrical lock
- Latchbolt brass, 1/2" (13mm) throw; UL Listed 3/4" (19mm) throw (41- option) available
- 2-3/4" (70mm) backset standard. Consult factory for other backsets available
- Non handed
- Heavy duty lever spring return rose assembly
- Steel spacer bushing and extended one-piece bearing sleeves
- Steel mounting studs
- Key override standard
- Includes code to activate horn when keypad buttons are pushed
- Not available with 82-, F1-82, 83-, F1-83, or 84- options
- For 1-3/4" (44mm) thick doors standard
- Freewheeling levers optional

## KP10XG77 ENTRY LOCK WITH CYLINDER

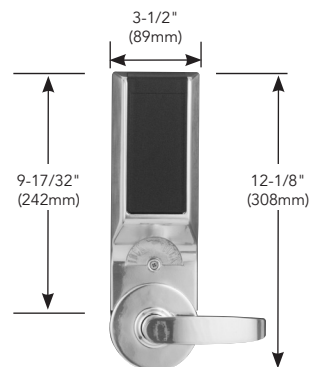
- Lever inside always retracts latchbolt
- Key outside retracts latchbolt
- Outside lever rigid except when in passage mode or valid user code entered

## CYLINDRICAL LOCK FUNCTIONS

| If the lock needs to have:         | Then select: |      |          |
|------------------------------------|--------------|------|----------|
|                                    | Series       | Type | Function |
| Cylinder override standard feature | KP           | 10X  | G77      |

## INSIDE ESCUTCHEON

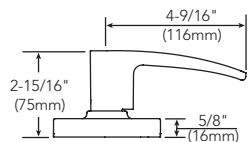
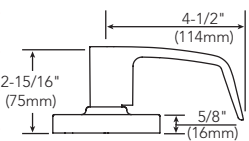
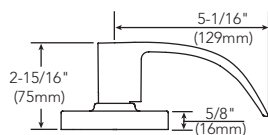
- Zinc die cast
- Projection at bottom 9/32" (7mm)
- Projection at top 2-1/8" (54mm)  
9-17/32" (242mm) Inside Escutcheon



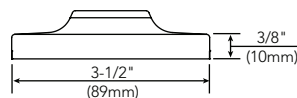
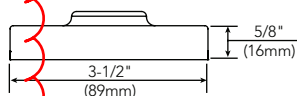
## ORDERING KP CYLINDRICAL LOCKS

| Options                 | Series                                               | Type | Function | Roses                                                                      | Levers | Finish | Hand |
|-------------------------|------------------------------------------------------|------|----------|----------------------------------------------------------------------------|--------|--------|------|
| Select from pages 14-16 | Select from KP Cylindrical Lock Function chart above |      |          | Select rose from page 11, lever from pages 10, 12, and finish from page 10 |        |        |      |
| 23-                     | KP-10XG77                                            |      |          | G                                                                          | L      | 03     | RH   |

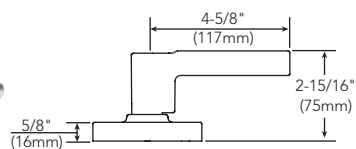
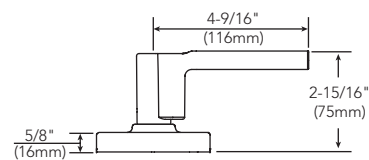
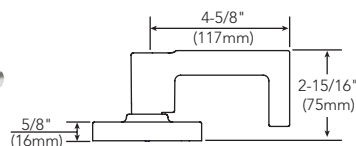
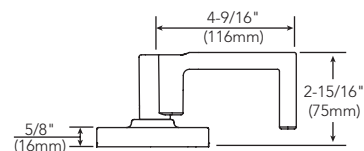
## LEVERS - SOLID CAST ZINC

**B****L\*****P\***

## ROSES - WROUGHT BRASS OR BRONZE

**G****L**

## DECORATIVE LEVERS

**MD****MB****ND\*****MW\***

Any rose or lever on this page can be combined to suit individual taste.

All lever height measurements represent total distance from door face. Dimensions shown using L rose.

\*Lever with return to within 1/2" of door face.

# 460 Series Grade 2 Deadbolts

**SARGENT®****ASSA ABLOY****Specifications**

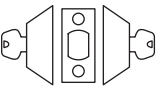
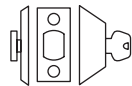
|                           |                                                                                                                                                                                                                                                                                                                                       |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>For Doors</b>          | 1-3/8" (35mm) to 1-3/4" (44mm) thick standard<br>For doors over 1-3/4" (44mm) consult factory (2-1/4" Thick door max)                                                                                                                                                                                                                 |
| <b>Door Prep</b>          | Fits 161 (standard) cut outs and Fits 160 with 2-3/8" (60mm) backset with 1" (25mm) front and for 1-3/8" (35mm) thick door                                                                                                                                                                                                            |
| <b>Backsets</b>           | 2-3/4" (70mm) standard. 2-3/8" (60mm) optional (20- option)                                                                                                                                                                                                                                                                           |
| <b>Strike</b>             | Wrought brass, bronze or stainless steel. Each unit includes a metal and wood frame strike with dust box                                                                                                                                                                                                                              |
| <b>Bolt</b>               | Solid steel with hardened steel pin insert and nickel silver plating 7/8" (22mm) x 5/8" (16mm) x 1" (25mm) throw                                                                                                                                                                                                                      |
| <b>Cylinder</b>           | Brass, 6 pin. 2 nickel silver keys                                                                                                                                                                                                                                                                                                    |
| <b>Masterkeying</b>       | Can be masterkeyed. Construction key system available                                                                                                                                                                                                                                                                                 |
| <b>Front</b>              | Wrought brass, bronze or stainless steel 2-1/4" (57mm) x 1-1/8" (29mm) with fixed bevel 1/8" (3mm) in 2" (51mm) furnished standard                                                                                                                                                                                                    |
| <b>Hand</b>               | Non handed, field reversible                                                                                                                                                                                                                                                                                                          |
| <b>Thumb Turn</b>         | Non-ferrous                                                                                                                                                                                                                                                                                                                           |
| <b>Housing</b>            | Non-ferrous, reinforced, one piece 2-1/2" (64mm) diameter<br>Concealed screws on double cylinder function                                                                                                                                                                                                                             |
| <b>ANSI/BHMA</b>          | A156.36 Certified Grade 2                                                                                                                                                                                                                            |
| <b>UL/cUL Listed</b>      | 460 series deadbolts, when used in conjunction with the primary latching device, are UL/cUL listed for use with Classified steel covered composite or hollow metal doors rated up to and including 3 hours; wood and plastic covered composite doors rated up to and including 1-1/2 hours; and wood core doors rated for 20 minutes. |
| <b>Positive Pressure</b>  | Meets ANSI/UL 10C, Positive Pressure Fire Test of Door Assemblies                                                                                                                                                                                                                                                                     |
| <b>Mechanical Options</b> | Cylinder Options see page 12-13<br>20- 2-3/8" (60mm) backset. 2-3/4" (70mm) x 1" (25mm) wide front                                                                                                                                                                                                                                    |
| <b>Finishes</b>           | 03, 04, 10B, 10BE, 26, 26D, BSP                                                                                                                                                                                                                                                                                                       |

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

**How To Order**

| 10-V01                       | 465               | 26D                             |
|------------------------------|-------------------|---------------------------------|
| Options                      | Series x Function | Finish                          |
| Cylinder Options Pages 12-13 | 464               | 03, 04, 10B, 10BE, 26, 26D, BSP |
| Indicator Options Page 8     | 465               |                                 |
|                              | 468               |                                 |

**Functions**

| *464 Double Cylinder                                                                                                | 465 Single Cylinder                                                                                                                                     | 468 Thumb Turn x Indicator                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                  |                                                                      |                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>Key from either side operates deadbolt</li> <li><b>ANSI E0142</b></li> </ul> | <ul style="list-style-type: none"> <li>Key outside operates deadbolt</li> <li>Thumb turn inside operates deadbolt</li> <li><b>ANSI E0152</b></li> </ul> | <ul style="list-style-type: none"> <li>Thumb turn inside operates deadbolt</li> <li>Emergency override key outside</li> <li>Indicator standard both sides, specify indicator option code (V21 standard)</li> <li><b>ANSI E01112</b></li> </ul> |

\*Use only on rooms with more than one exit

**460 Series Deadbolt****Metal Frame Strike**

Standard  
2-3/4" (70mm) x 1-1/8" (29mm). To order separately, specify 404 x Finish

**Wood Frame Strike**

Standard  
2-3/4" (70mm) x 1-1/8" (29mm). To order separately, specify 410 x Finish.

**Dust Box**

Standard. To order separately, specify part number 16-0277.

**Packaging — 460 Series**

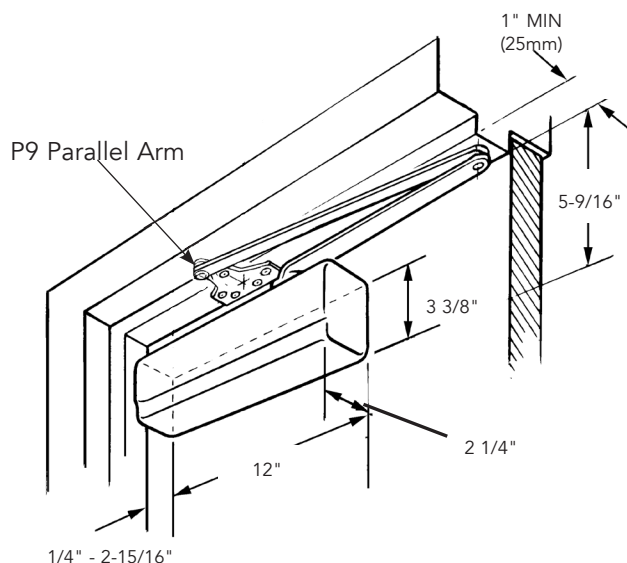
| Approximate Shipping Weights |               |
|------------------------------|---------------|
| 2 lbs. (.9 kg)/Box           | 12 Boxes/Case |

# Parallel Arm Applications

## 1431-P9 REGULAR PARALLEL ARM APPLICATION



Parallel Arm Applications – The 1431 closer is mounted on the push side of the door with the arm under the frame parallel to the face of the door. This application is well suited for narrow face frames and deep reveal applications. The closer arm does not project into the room, and the door can be swung open much farther than in Top Jamb Application.



## HEAVY DUTY PARALLEL ARMS

### For use in high traffic and abusive environments

- Friction and positive hold open arms available
- Use friction hold open arms for doors subject to moderate hold open use
- Use positive stop hold open arms for doors subject to frequent hold open use
- Dead stop and compression stop arms available

### Non hold-open arms

- Two mounting positions for 120° and 180° maximum door openings

### Stop arms

- 6 mounting positions allow stop from 85° – 110°

### Positive stop hold open arms

- 6 mountings provide hold open positioning from 85° – 110°

### Friction hold open arm

- Two mountings provide adjustable hold open positions from 75° – 180°

## REGULAR DUTY PARALLEL ARMS

### Available Arms for institutional installations:

- Regular Duty Parallel Arms
- Offset Bracket Arms for use with Auxiliary Holders & Stops
- Parallel flush frame arms
- Flush frame arms for use with Auxiliary Holders & Stops
- Flush frame, friction hold open arms
- Friction hold open arms
- Use friction hold open arms for doors subject to moderate hold open use

### Standard Mounting Position

- 120° Maximum door opening
- Holding range of friction hold open arms: 75° – 110°

### Alternate Mounting Position

- Maximum door opening: 180°
- Holding range of friction hold open arms: 85° – 170°

# Heavy Duty Parallel Arms

## P10 - Heavy Duty Parallel Arm



- Forged Steel Arm 11-1/4" (286mm) long
- Non-handed
- Easily installed
- Permits 120° opening at standard mounting
- Permits 180° opening at alternate mounting

For arm only, order as 25-P10 x finish

### Includes:

63-0641 - Main arm  
63-3727 - Arm and bracket assembly  
64-2407 & 63-2392 - Screw packs

## PS - Heavy Duty Parallel Arm with Positive Stop



- Forged Steel Arm 11-1/4" (286mm) long
- Handed arm is field-reversible
- Provides built in stop from 85° – 110°
- Permits 110° opening maximum
- Easily installed
- Permits 85° – 110° door opening

For arm only, order as 25-PS x finish

### Includes:

63-0641 - Main arm  
63-3837 - Arm and bracket assembly  
64-2407 & 63-2392, 63-2396 - Screw packs

## CPS - Heavy Duty Parallel Arm with Compression Stop



- Forged Steel Arm 11-1/4" (286mm) long
- Provides built in compression stop from 85° – 105°
- Permits 105° opening maximum
- Easily installed
- Handed arm is field-reversible
- Dead stop within 3°

For arm only, order as 25-CPS x finish

### Includes:

63-0641 - Main arm  
63-3830 - Arm and bracket assembly  
63-0516 - Bumper holder  
63-3493 - Bumper  
64-2407 & 63-2398 - Screw packs

## PH10 - Heavy Duty Friction Hold Open Parallel Arm



- Equipped with adjustable friction holder
- Adjustable hold open from 75° – 180°
- Forged steel arm 11-1/4" (286mm) long
- Handed same as door
- Use friction hold open arms for doors subject to moderate hold open use

For arm only, order as 25-PH10 x finish

### Includes:

63-0641 - Main arm  
63-3839 - Left hand arm and bracket assembly  
63-3840 - Right hand arm and bracket assembly  
64-2407 & 63-2392 - Screw packs

## PSH - Heavy Duty Parallel Hold Open Arm with positive Stop



- Provides holder and stop features
- Handed arm is field-reversible
- Easily installed/adjusted
- Permits 85° – 110° door opening

For arm only, order as 25-PSH x finish

### Includes:

63-0641 - Main arm  
63-3833 - Arm and bracket assembly  
64-2407 & 63-2392, 63-2396 - Screw packs

## CPSH - Heavy Duty Hold Open Parallel Arm with Compression Stop

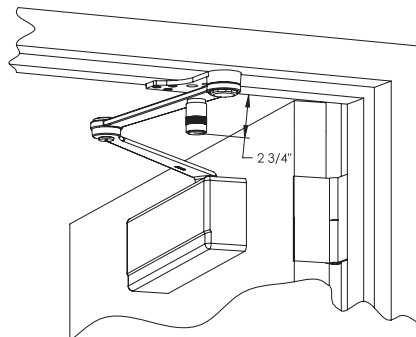


- Forged Steel Arm 11-1/4" (286mm) long
- Handed arm is field-reversible
- Provides built in compression stop and holder mechanism from 85° – 105°
- Easily installed/adjusted
- Permits 105° opening maximum
- Dead stop within 3°

For arm only, order as 25-CPSH x finish

### Includes:

63-0641 - Main arm  
63-3836 - Arm and bracket assembly  
63-0516 - Bumper holder  
63-3493 - Bumper  
64-2407 & 63-3487 - Screw packs



The PSH and CPSH arms project 2 3/4" below the head stop

### Positive Stop Hold Open Arms (PSH & CPSH ARMS)

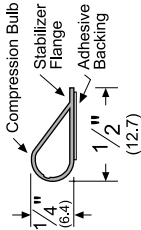
- Use on doors subject to repetitive hold open use
- 6 hold open angle installation
- Hold open function may be disengaged
- Hold open tension is easily adjustable

# Architectural Door Accessories

## Pemko Adhesive Gasketing: Siliconseal™ Adhesive-backed Fire/Smoke Gasketing



AVAILABLE FINISHES: BL, C, D, GR, TAN, W  
AVAILABLE LENGTHS: 17', 18', 20', 21', 25', 30', 204'  
WIDTH: 1/2" (12.7 mm)  
HEIGHT: 1/4" (6.4 mm)



- BL (Black)
- C (Clear)
- D (Dark Brown)
- GR (Gray)
- TAN (Tan)
- W (White)

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|               |
|---------------|
| TITLE:        |
| PREPARED FOR: |
| PREPARED BY:  |
| DATE:         |
| COMMENTS:     |

# Architectural Door Accessories

ASSA ABLOY

## Pemko Door Bottoms: Door Top Weatherstrip

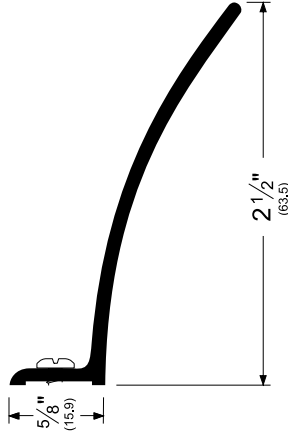
The global leader in  
door opening solutions

346\_

AVAILABLE FINISHES: C, D, G, PW

WIDTH: 2-1/2" (63.5 mm)

HEIGHT: 5/8" (15.9 mm)



**C** (Clear Anodized Aluminum)

**D** (Dark Bronze Anodized Aluminum)

**G** (Gold Anodized Aluminum)

**PW** (Painted White Aluminum)

|               |
|---------------|
| TITLE:        |
| PREPARED FOR: |
| PREPARED BY:  |
| DATE:         |
| COMMENTS:     |

# Architectural Door Accessories

EO NOTE: USED AS  
DOOR SWEEP

ASSA ABLOY

## Pemko Astragals & Meeting Stiles: Astragals and Meeting Stiles Gasketing - Split Astragals

The global leader in  
door opening solutions

18061\_NB (MS)



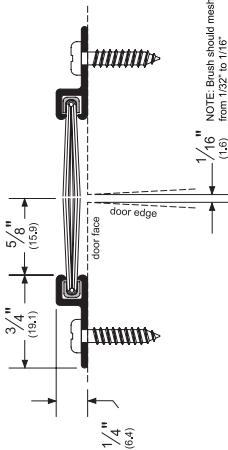
ORDER TWO  
(AS A PAIR)

AVAILABLE FINISHES: C, D, G, SN

PROFILE WIDTH: 3/4" (19.1 mm) (x2)

TOTAL WIDTH WITH INSERT: 1-3/8" (35.0 mm) (x2)

HEIGHT: 1/4" (6.4 mm)



**C** (Clear Anodized Aluminum)

**D** (Dark Bronze Anodized Aluminum)

**G** (Gold Anodized Aluminum)

**SN** (Satin Nickel Anodized Aluminum)

|               |
|---------------|
| TITLE:        |
| PREPARED FOR: |
| PREPARED BY:  |
| DATE:         |
| COMMENTS:     |

# Architectural Door Accessories

ASSA ABLOY

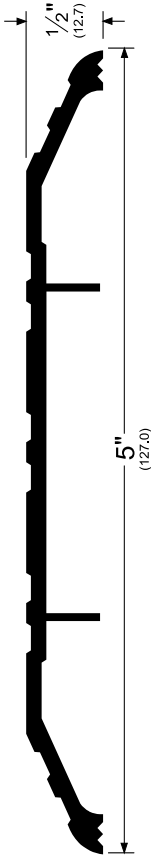
## Pemko Commercial Thresholds: Saddle Thresholds

The global leader in  
door opening solutions



171 \_

AVAILABLE FINISHES: A, B, BDG, D, G, SN  
WIDTH: 5" (127.0 mm)  
HEIGHT: 1/2" (12.7 mm)



**A** (Mill Finish Aluminum)

**B** (Mill Finish Extruded Bronze [Brass])

**BDG** (Bright Dip Gold Anodized)

**D** (Dark Bronze Anodized)

**G** (Gold Anodized)

**SN** (Satin Nickel Anodized)

|               |
|---------------|
| TITLE:        |
| PREPARED FOR: |
| PREPARED BY:  |
| DATE:         |
| COMMENTS:     |