

LEGISLATIVE FILE

File ID No. 15-0110
Introduction Date 2-11-2015
Enactment No. 15-0175
Enactment Date 2/11/15
By o.d.

OAKLAND UNIFIED SCHOOL DISTRICT
Office of the Board of Education
February 11, 2015

To: Board of Education

From: Antwan Wilson, Superintendent, Secretary of the Board of Education
By: Mia Settles-Tidwell, Chief Operations Officer
Timothy White, Deputy Chief, Facilities Planning and Management

Subject: **Resolution of the Governing Board of the Oakland Unified School District Designating Specific Material(s), Product(s), Thing(s), or Service(s) for Use on Public Works Projects Pursuant to Public Contract Code Section 3400.**

ACTION REQUESTED

Approval by the Board of Education of Resolution No. 1415-0161, Resolution of the Governing Board of the Oakland Unified School District Designating Specific Material(s), Product(s), Thing(s), or Service(s) for Use on Public Works Projects Pursuant to Public Contract Code Section 3400.

BACKGROUND

Under Public Contract Code (“PCC”) section 3400, a school district cannot limit “the bidding, directly or indirectly, to any one specific concern” when letting “contracts for the construction, alteration, or repair of public works.” However, under PCC section 3400, restrictions on the listing of specific names or brands of equipment, materials, or supplies are inapplicable if the District’s Board makes a finding that particular materials, products, things, or services designated by specific brand or trade names are specified for any of the following purposes:

- That a field test or experiment be made to determine the Designated Products’ suitability for future use; or
- To match other product(s) in use on other District public improvement(s) either completed or in the course of completion; or
- To obtain a necessary item that is only available from one source; or
- To respond to an emergency declared by a local agency, the state, a state agency, or political subdivision of the state.

The District desires to specify the designated products described in the Resolution with respect to (1) play structure pad surfaces, (2) finish hardware, (3) casework, (4) heating ventilation and air condition systems, (5) plumbing systems, and (6) communications. The District desires to specify the designated products because the

specific products are a match for other specified products in use at District school sites which will reduce the cost of repair by allowing for product integration.

FISCAL IMPACT

No fiscal impact or implications associated with the approval of these documents.

RECOMMENDATION

Approval by the Board of Education of Resolution No. 1415-0161, Resolution of the Governing Board of the Oakland Unified School District Designating Specific Material(s), Product(s), Thing(s), or Service(s) for Use on Public Works Projects Pursuant to Public Contract Code Section 3400.

ATTACHMENTS

Resolution No. 1415-0161, Resolution of the Governing Board of the Oakland Unified School District Designating Specific Material(s), Product(s), Thing(s), or Service(s) for Use on Public Works Projects Pursuant to Public Contract Code Section 3400.

**RESOLUTION OF THE
BOARD OF EDUCATION
OF THE OAKLAND UNIFIED SCHOOL DISTRICT**

RESOLUTION NO. 1415-0161

**RESOLUTION OF THE GOVERNING BOARD OF THE OAKLAND UNIFIED SCHOOL DISTRICT
DESIGNATING SPECIFIC MATERIAL(S), PRODUCT(S), THING(S), OR SERVICE(S) FOR USE ON
PUBLIC WORKS PROJECTS PURSUANT TO PUBLIC CONTRACT CODE SECTION 3400**

WHEREAS, the Oakland Unified School District (“District”) is engaged in a District-wide capital outlay program to renovate, repair, modernize and construct new facilities (“Construction Program”) in order to create suitable educational facilities for all of the students and staff of the District; and

WHEREAS, the District has considered the benefits of requiring certain material(s), product(s), thing(s), or service(s) to be specified for use in its Construction Program; and

WHEREAS, pursuant to California Public Contract Code section 3400 (“PCC § 3400”), the District intends to specifically list and/or designate in its invitations to bid or requests for proposals, certain material(s), product(s), thing(s), or service(s) identified by the District (“Designated Products”); and

WHEREAS, PCC § 3400(c)(1) provides that the District may specify Designated Products in its specification for bids or requests for proposals in connection with the construction, alteration, or repair of public works upon a finding by the District’s Governing Board that the Designated Products are listed in order that a field test or experiment be made to determine the product’s suitability for future use; and

WHEREAS, PCC § 3400(c)(2) provides that the District may specify Designated Products in its specifications for bids or requests for proposals in connection with the construction, alteration, or repair of public works upon a finding by the District’s Governing Board that the Designated Products are listed for the purpose of matching other products in use on a particular public improvement either completed or in the course of completion; and

WHEREAS, PCC § 3400(c)(3) provides that the District may specify Designated Products in its specifications for bids or requests for proposals in connection with the construction, alteration, or repair of public works upon a finding by the District’s Governing Board that the Designated Products are listed in order to obtain a necessary item that is only available from one source; and

WHEREAS, PCC § 3400(c)(4) provides that the District may specify Designated Products in its specifications for bids or requests for proposals in connection with the construction, alteration, or repair of public works upon a finding by the District’s Governing Board that the Designated Products are listed in order to respond to an emergency declared by a local agency, the state, a state agency, or political subdivision of the state; and

WHEREAS, the District intends to specify the Designated Products as the only acceptable material(s), product(s), thing(s), or service(s) for use on Construction Program projects in order:

- To match other product(s) in use on other District public improvement(s) either completed or in the course of completion; and

WHEREAS, the use of the Designated Products is necessary because:

- The District will avoid potential significant costs by conducting field tests of certain Designated Products to determine their suitability and compatibility with other material(s), product(s), thing(s), or service(s) already in use at District sites, prior to those Designated Products’ future use at other sites;
- The District has incurred significant costs to train its employees to service and maintain specific current product(s) and system(s) throughout District campuses.
- The ongoing maintenance, repair, and other work that District staff and/or service providers will have to perform on those product(s) or system(s) will be simplified, more efficient, and less costly if those persons

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do not have to seek re-training or innumerable additional trainings, to service different and varied product(s) and system(s).

- The warranties and guarantees for the Designated Products will be easier to coordinate, track, and service in the years to come if they are with the same manufacturers / vendors of the particular product(s) or system(s).
- The District would save substantial costs by implementing uniform system(s) and installing uniform product(s) throughout the District, thereby facilitating uniform maintenance procedures, engineering specifications, and overall system and product reliability.
- The District anticipates future construction, alteration, modernization of existing school sites to, among other things, replace and/or upgrade system(s) at those sites.
- It would be beneficial to the District to have and use uniform parts and materials throughout the system(s) in use at its existing projects and sites.

WHEREAS, the District will endeavor to list, whenever feasible, more than one product or system when more than one product or system is acceptable and the above conditions are sufficiently satisfied; and

WHEREAS, on May 11, 2011, the District approved Resolution No. 11-0855, adopting District standards for material(s), product(s), thing(s), or service(s) ("2011 Designated Products") for use in the District's Construction Program; and

WHEREAS, except for specific products re-listed and revised herein, the 2011 Designated Products and the Board's action taken pursuant to Resolution No. 11-0855 are in no way removed, reconsidered or reopened because of the Board's action on this instant resolution; and

WHEREAS, the District has attached for reference purposes Resolution No. 11-0855 establishing the 2011 Designated Products as **Exhibit "B"** so that all designated material(s), product(s), thing(s), or service(s) to be specified for use in the District's Construction Program is contained in one document; and

NOW THEREFORE, the Governing Board of the Oakland Unified School District hereby resolves, determines, and finds the following:

1. That the foregoing recitals are true.
2. The District has already incurred significant costs to train its employees to service and maintain specific current product(s) and system(s) throughout District campuses.
3. The ongoing maintenance, repair, and other work that District staff and/or service providers will have to perform on those Designated Products will be simplified, more efficient, and less costly if those persons do not have to seek re-training or innumerable additional trainings for different and varied product(s) and system(s).
4. The warranties and guarantees for Designated Products will be easier to coordinate, track, and service in the years to come if they are with the same manufacturers / vendors of the particular product(s) or system(s).

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PUBLIC WORKS PROJECTS PURSUANT TO PUBLIC CONTRACT CODE SECTION 3400**

5. The District would save significant costs by implementing uniform system(s) and installing uniform product(s) throughout the District, facilitating maintenance, engineering and overall reliability.
6. The District anticipates as part of its Construction Program, future construction, alteration, modernization of existing school sites to, among other things, replace and/or upgrade system(s) at those sites.
7. It would be beneficial to the District to have and use uniform parts and materials throughout the system(s) in use at its existing projects and sites.
8. The District will endeavor to list, whenever feasible, more than one product or system when more than one product or system is acceptable and the above conditions are sufficiently satisfied.
9. That the Designated Products listed in **Exhibit "A"** are the only acceptable material(s), product(s), thing(s), or service(s) for use on projects in the Construction Program, because, as indicated in the listing of that Designated Product, the Designated Products match other product(s) in use on other District public improvement(s) either completed or in the course of completion.
10. That the District shall list in its invitation(s) to bid or requests for proposals for the District's public works projects, the Designated Products listed in **Exhibit "A"**, including the 2011 Designated Products, as the only acceptable material(s), product(s), thing(s), or service(s) for use on the District's Construction Program.
11. That the District's Superintendent, or the Superintendent's designee, is authorized pursuant to this Resolution to take any action that is necessary to complete the procedures necessary to carry out, give effect to, and comply with the terms and intent of this Resolution.
12. This Resolution shall take effect upon its adoption.

APPROVED, PASSED AND ADOPTED by the Governing Board of the Oakland Unified School District, this 11th day of February, 2015, by the following vote:

AYES: Aimee Eng, Shanthi Gonzales, Roseann Torres, Jumoke Hinton Hodge, Nina Senn, Vice President
Jody London, President James Harris

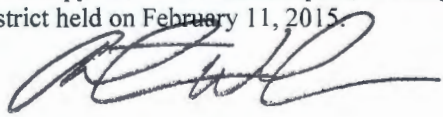
NOES: None

ABSENT: None

ABSTAIN: None

I hereby certify that the foregoing is a full, true and correct copy of a Resolution adopted, at a Regular Meeting of the Governing Board of the Oakland Unified School District held on February 11, 2015.

File ID Number: 15-0110
Introduction Date: 2/11/15
Enactment Number: 15-0175
Enactment Date: 2/11/15
By: AW



Antwan Wilson, Secretary of the
Board of Education

**RESOLUTION OF THE
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DESIGNATING SPECIFIC MATERIAL(S), PRODUCT(S), THING(S), OR SERVICE(S) FOR USE ON
PUBLIC WORKS PROJECTS PURSUANT TO PUBLIC CONTRACT CODE SECTION 3400**

**Exhibit "A"
Designated Products**

1. PLAY STRUCTURE PAD SURFACE

A. Play structure pad surfaces manufactured by the following manufacture(s):

- **Manufacturer:** SofTILE
- **Model or Series:** Premium Series

The District intends to match these products and systems with those already in use, and is endeavoring to better coordinate the training, maintenance, and repair of these products and systems throughout the District. The ever-increasing cost and coordination of varied products and systems with a limited maintenance personnel staff and a limited budget for outside vendors, requires the District to limit variance in these types of products and systems to facilitate more control and cost containment in keeping products and systems operational.

2. FINISH HARDWARE

A. Door Hardware Specifications Guideline, dated December 4, 2009:

- **Manufacturer:** Varies (Reference Door Hardware Specifications Guideline in Exhibit "B", Resolution No. 11-0855)

These systems and products are used throughout the District's Construction Program and are an integral safety components at District sites. These products and systems were previously designated by District Resolution No. 11-0855. The District intends to match new finish hardware systems and products with those already existing in use, facilitate better control over replacement parts, the re-keying of locks, and the replacement of lost or stolen keys, and endeavoring to better coordinate the training, maintenance, and repair of these systems throughout the District. The ever-increasing costs and coordination of varied systems with a limited maintenance personnel staff and a limited budget for outside vendors, requires the District to limit variance in these types of systems to facilitate more control and cost containment in keeping the systems operational.

3. CASEWORK

A. Hinges manufactured by the following manufacture(s):

- **Manufacturer:** Blum
- **Model or Series:** N/A

The District intends to match these products and systems with those already in use, and is endeavoring to better coordinate the training, maintenance, and repair of these products and systems throughout the District. The ever-increasing cost and coordination of varied products and systems with a limited maintenance personnel staff and a limited budget for outside vendors, requires the District to limit variance in these types of products and systems to facilitate more control and cost containment in keeping products and systems operational.

4. HEATING VENTILATION AND AIR CONDITIONING SYSTEMS

A. Thermostats manufactured by the following manufacture(s):

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- **Manufacturer:** Honeywell
- **Model or Series:** VP525A & TP970 Thermostat Modernization Kit with Universal Adaptor

B. Energy Management Systems (EMCS) manufactured by the following manufacture(s):

- **Manufacturer:** Alerton

The District intends to match these products and systems with those already in use, and is endeavoring to better coordinate the training, maintenance, and repair of these products and systems throughout the District. The ever-increasing cost and coordination of varied products and systems with a limited maintenance personnel staff and a limited budget for outside vendors, requires the District to limit variance in these types of products and systems to facilitate more control and cost containment in keeping products and systems operational.

5. PLUMBING SYSTEMS

A. Flush Valves manufactured by the following manufacture(s):

- **Manufacturer:** Sloan Royal Flushometer

B. Faucets manufactured by the following manufacture(s):

- **Manufacturer:** Chicago

The District intends to match these products and systems with those already in use, and is endeavoring to better coordinate the training, maintenance, and repair of these products and systems throughout the District. The ever-increasing cost and coordination of varied products and systems with a limited maintenance personnel staff and a limited budget for outside vendors, requires the District to limit variance in these types of products and systems to facilitate more control and cost containment in keeping products and systems operational.

6. COMMUNICATIONS

A. Fire Alarm Systems manufactured by the following manufacture(s):

- **Manufacturer:** Simplex
- **Model or Series:** 4100ES

B. Intrusion System manufactured by the following manufacture(s):

- **Manufacturer:** Bosch/Radionics
- **Model or Series:** D941GV4 (Version 1 ONLY)

C. Clock/Bell/Intercom Systems manufactured by the following manufacture(s):

- **Manufacturer:** Rauland
- **Model or Series:** Telecenter VI

D. Phone Systems manufactured by the following manufacture(s):

- **Manufacturer:** Avaya
- **Model or Series:** IP-500

E. Network Switches manufactured by the following manufacture(s):

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- **Manufacturer:** Cisco
- **Model or Series:** 4500X

The District intends to match these products and systems with those already in use, and is endeavoring to better coordinate the training, maintenance, and repair of these products and systems throughout the District. The ever-increasing cost and coordination of varied products and systems with a limited maintenance personnel staff and a limited budget for outside vendors, requires the District to limit variance in these types of products and systems to facilitate more control and cost containment in keeping products and systems operational.

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DESIGNATING SPECIFIC MATERIAL(S), PRODUCT(S), THING(S), OR SERVICE(S) FOR USE ON
PUBLIC WORKS PROJECTS PURSUANT TO PUBLIC CONTRACT CODE SECTION 3400

Exhibit "B"
~~Resolution~~ No. 11-0855
Legislative File No.

Exhibit B

LEGISLATIVE FILE

File ID No. 11-0855
Introduction Date 5-17-11
Enactment No. 11-0958
Enactment Date 5-25-11
By RS


OAKLAND UNIFIED SCHOOL DISTRICT
Office of the Board of Education

May 11, 2011

TO: Board of Education

FROM: Tony Smith, Ph. D, Superintendent,
Timothy White, Assistant Superintendent, Facilities Planning & Management

SUBJECT: DESIGNATION OF SPECIFIC MATERIAL, PRODUCT, THING, OR SERVICE ON MEASURE B PROJECTS / DOOR HARDWARE SPECIFICATIONS SECTION 087100 OF OUSD STANDARD SPECIFICATIONS



ACTION REQUESTED:

Approval by the Board of Education of Resolution 1011-0166 regarding the designation of specific door hardware on Measure B Projects as contained in Standard Specification 08710.

BACKGROUND:

In the normal course of public works contracting, a district's governing board is required to competitively bid and award any contracts involving an expenditure of more than \$50,000 (adjusted for inflation in 2011 to \$78,900) to the lowest responsible bidder. Contracts subject to competitive bidding include those for the purchase of equipment, materials, or supplies.

However, under Public Contract Code § 3400, restrictions on the listing of specific names or brands are inapplicable if the District's Board of Education makes a finding that particular materials, products, things, or services designated by specific brand or trade names are designated for any of the following purposes:

"In order that a field test or experiment may be made to determine the product's suitability for future use." (PCC § 3400 (b)(1))

- “In order to match other products in use on a particular public improvement either completed or in the course of completion.” (PCC § 3400 (b)(2))
- “In order to obtain a necessary item that is only available from one source.” (PCC § 3400 (b)(3))
- To respond to certain emergency situations. (PCC § 3400 (b)(4));

On Measure B Capital Program projects, the District desires to list the Door Hardware specified in Section 087100 of OUSD standard Specifications because the specific products are:

- A match for other specified door hardware in use at District school sites which will reduce the cost of repair by allowing for product integration;
- Necessary item(s) that are only available from specific manufacturing sources;
- Required to respond to a potential health /safety situation.

FISCAL IMPACT

None.

RECOMMENDATION

Approval by the Board of Education of Resolution 1011-0166 regarding the designation of specific door hardware on Measure B Projects as contained in Standard Specification 08710.

ATTACHMENT:

OUSD Specification 087100 regarding the designation of specific door hardware on Measure B Projects as contained in Standard Specification 08710.

**RESOLUTION OF THE
BOARD OF EDUCATION
OF THE OAKLAND UNIFIED SCHOOL DISTRICT**

RESOLUTION NO. 1011-0166

**DESIGNATION OF SPECIFIC MATERIAL, PRODUCT, THING, OR SERVICE
ON MEASURE B PROJECTS**

WHEREAS, the Oakland Unified School District ("District") successfully passed a local general obligation bond for the purpose of modernizing certain school facilities within the District ("Measure B Bond Program");

WHEREAS, pursuant to applicable law, the District will be awarding construction contracts to various contractors in furtherance of the Measure B Bond Program ("Contracts");

WHEREAS, pursuant California Public Contract Code section 3400 ("PCC § 3400") and other applicable law, the District wishes to, in specific instances, list and/or designate in its bids or requests for proposals on the Measure B Bond Program, one specific material, product, thing, or service;

WHEREAS, PCC § 3400 states that a school district cannot limit "the bidding, directly or indirectly, to any one specific concern," when letting "contracts for the construction, alteration, or repair of public works";

WHEREAS, PCC § 3400 states that its restrictions on the listing of only one specific name or brand are inapplicable if the District makes a finding that is described in the invitation for bids that a particular material, product, thing, or service is designated by specific brand or trade name for any of the following purposes:

- "In order that a field test or experiment may be made to determine the product's suitability for future use." (PCC § 3400 (b)(1))
- "In order to match other products in use on a particular public improvement either completed or in the course of completion." (PCC § 3400 (b)(2))
- "In order to obtain a necessary item that is only available from one source." (PCC § 3400 (b)(3))
- To respond to certain emergency situations. (PCC § 3400 (b)(4));

WHEREAS, on Measure B Bond Program projects, the District desires to list the Door Hardware specified in Section 087100 of OUSD standard Specifications because the specific products are:

- A match for other specified door hardware in use at District school sites which will reduce the cost of repair by allowing for product integration;
- Necessary item(s) that are only available from specific manufacturing sources;
- Required to respond to a potential health/safety situation.

OUSD Standard Specification 08712 is attached herein as Exhibit "A" and incorporated by reference into this resolution ("Specification").

WHEREAS, based on the hardware schedule contained in the specification, using door hardware manufacturers other than those specified will not produce an advantage, but will produce a net burden and distinct disadvantage to the District.

NOW, THEREFORE, the Board of Education of the Oakland Unified School District hereby finds, determines, declares, orders, and resolves as follows:

Section 1. That the above recitals are true and correct.

Section 2. That using the specific brands for specific types of door hardware, as contained in OUSD Standard Specification 08712, will: reduce the cost of repair by allowing for product integration; provide necessary item(s) that are only available from specified sources; allow the District to respond to potential health /safety situations.

Section 3. That the District's Assistant Superintendent for Facilities Planning and Management and/or his designee is authorized pursuant to this Resolution to take any action which is necessary to carry out, give effect to, and comply with the terms and intent of this Resolution subject to the limits of Board adopted policies.

PASSED AND ADOPTED by the Board of Education of the Oakland Unified School District this 11th day of May, 2011; by the following vote, to wit:

DSW/ER
AYES: David Kakishiba, Christopher Dobbins, Noel Gallo,
 Alice Spearman, Vice President Jody London and
 President Gary Yee

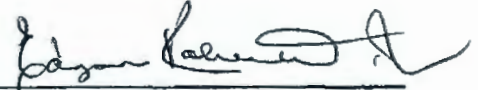
NOES: None

ABSTAINED: None

ABSENT: Jumoke Hodge

CERTIFICATION

I, Edgar Rakestraw, Jr., Secretary of the Board of Education of the Oakland Unified School District, Alameda County, State of California, do hereby certify that the foregoing Resolution was duly approved and adopted by the Board of Education of said district at a meeting thereof held on the day of 27th day of April, 2011, with a copy of such Resolution being on file in the Office of the Board of Education of said District.



Edgar Rakestraw, Jr.
Secretary of the Board of Education

File ID Number: 11-0855
Introduction Date: 5-17-11
Enactment Number: 11-0958
Enactment Date: 5-25-11
By: [Signature]

OAKLAND UNIFIED SCHOOL DISTRICT
955 High Street Oakland, CA 94601
(510) 879-8400



DOOR HARDWARE
SPECIFICATION GUIDELINE
SECTION 087100

December 4, 2009

**Oakland Unified School District
955 High Street Oakland, CA 94601**

**DOOR HARDWARE
SPECIFICATION GUIDELINE**

SECTION 087100
Edit Date: December 4, 2009

The purpose of this booklet is to support the school districts building standards for door hardware. The school district maintains the following hardware and is currently stocking replacement parts. The products listed in this booklet are pursuant to Public Contract Code Section 3400. The following particular products are designated by brand name in order to match other products in use on a particular improvement, either completed or in the course of completion. No substitutions will be accepted for these products.

It is the intent of this booklet to provide guidelines for the architect's specification section 087100, for product groups and the hardware schedule. It remains the architect's responsibility to coordinate these products to meet the applicable building codes, life safety codes, and ADA requirements.

Section 087100 door hardware preamble must specify the following:

Door and frame prep

Before hardware installation, verify that all doors and frames are properly prepared to receive the specified hardware. Hollow metal frames shall be prepared for ANSI strike plates per A115.1-2 (4-7/8" high), hinge preps will be mortised and reinforced with a minimum of 8 gauge reinforcement material for closer installation. Hollow metal doors shall be properly prepared and reinforced with a minimum of 16 gauge material for either mortised or cylindrical locks as specified. It is preferred that all hollow metal doors receiving door closers have 12 gauge reinforcement. If this is not possible, the use of sex bolts is mandatory. Wood doors shall be factory prepared to receive the scheduled hardware.

Hardware installation

The manufacturer's representative for the locking devices and closing devices must inspect and approve, in writing, the installation of their products. Hardware installed incorrectly must be reported to the architect prior to the architect's final punch list.

Oakland Unified School District

SPECIFICATION GUIDELINE

Manufacturers and Products

DISTRICT STANDARDS - Substitutions or Alternates not permitted unless noted below.

Edit Date: December 4, 2009

DOOR HARDWARE			
<u>Description</u>	<u>Manufacturer</u>	<u>Model / Series</u>	<u>Finish</u>
<u>Hanging Devices</u>			
Cont. Hinge	Ives	224HD (High traffic openings, exterior doors, classrooms)	CL
Butt Hinge	Ives	5BB1HW x NRP 5BB1	630 652
<u>Securing Devices</u>			
Lock Set	Schlage	<u>Cylindrical Locks</u> ND Series x Rhodes: ND10S Passage Lock ND40S Privacy Lock ND85PD Faculty Restroom Lock ND92PD Office Lock ND95PD Classroom Security Lock ND96PD Storeroom Lock ➤ USE EXIT DEVICES ON EXTERIOR PERIMETER DOORS AND PORTABLES	US26D
Exit Device	Von Duprin	XP99NLx990NL "Trim Pull" XP99NLx990NL "Trim Pull" x XP99DTx990DT "Dummy Trim"xSNBxKR4954 Mullion x 154 (at pairs) 99L-2-F-996L-NL-R (F-rated single doors) 99L-2-F-996L-NL-R x 99EO-F x KR9954 Mullion x 154 (F pairs) ➤ HEX DOGGING ONLY. NO CYLINDER DOGGING. ➤ USE EXIT DEVICES ON EXTERIOR PERIMETER DOORS AND PORTABLES ➤ All mullions to have a set of #154 stabilizers	US26D US26D US26D US26D
Key System	Schlage	20-765 Cylinder (ND Series) 20-757 IC Rim cylinder (Exit Device Outside Trim) 20-771 IC Mortise cylinder (Keyed Removable Mullion) ➤ Oakland Unified School District to verify Schlage Everest Primus, Everest D, 1246, 1247, & 1248	626 626 626
Coordinator	Ives	COR x FL x MB (Storage & Utility rooms) ➤ Use coordinator only where required by fire code	USP
Flush Bolts	Ives	FB31P (Automatic) (metal doors) (Storage & Utility rooms) FB41P (Automatic) (wood doors) (Storage & Utility rooms) FB51P (Manual) (metal doors) (Storage & Utility rooms) FB61P (Manual) (wood doors) (Storage rooms)	US26D US26D US26D US26D
<u>Closing Device</u>			
Closer	Norton	7500 ➤ All door frames to be reinforced at frame soffit and face ➤ No Extra Duty Arms (EDA)	689
Alternate	Falcon	SC71 RW/PA	689

Oakland Unified School District

SPECIFICATION GUIDELINE

Manufacturers and Products

DISTRICT STANDARDS - Substitutions or Alternates not permitted unless noted below.

Edit Date: December 4, 2009

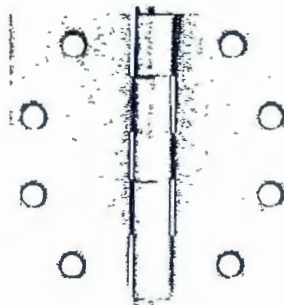
DOOR HARDWARE			
<u>Description</u>	<u>Manufacturer</u>	<u>Model / Series</u>	<u>Finish</u>
<u>Stops & Holders</u>			
Door Holder	Ives	WS45 (Automatic Holders & Stops) FS43 (Automatic Door Stops & Holders)	US26D US26D
Door Stops	Ives	FS436/R435 (Interior Floor Stop) FS18S (Security Floor Stops) WS401/WS402 (Wall Stops) > Backing required at wall holders locations	US26D Black US26D
<u>PROTECTIVE PLATES AND TRIM</u>			
Kick Plate	Ives	8400 Series	US26D
Mop Plate	Ives	8400 Series	US26D
Push/Pull Plates	Ives	8200/8300 Series	US26D
Latch Protector	Ives	LG12	US32D
Door Silencer	Ives	SR64	Gray
<u>ACCESSORIES - WEATHER AND SMOKE SEALS</u>			
Threshold	National Guard Products	Standard 1/2" x Jamb Depth x Full width of opening. 322 (1/2" x 3") at carpet and Floor Mats.	628 628
<p>• Threshold Notes - Architect to coordinate with project conditions. Set thresholds in a full bed of butyl-rubber or polyisobutylene mastic sealant complying with requirements in Division 7 "Thermal and Moisture Protection". Use 1/4" fasteners, red-head flat-head sleeve anchors (SS/FHSL).</p>			
Smoke Seal	National Guard Products	2525B (1/4 x 3/8 Silicone Bulb with adhesive tape)	Brown
Smoke/Weather	National Guard Products	A626A (@ Jamb) x 706A (@ Header on doors with closer)	628
Door Sweep	National Guard Products	600A (Surface Mount Brush Sweep)	628
Astragal	National Guard Products	600 set (Surface Mount Brush Astragal Set) 139SS (Use only where required by fire code) Astragal/Edge set may be by hollow metal doors MFG.	628 630 600
Mullion Seal	National Guard Prod.	5100	Black
Drip Guard	National Guard Products	16A x 4" PDW (Exterior doors exposed to rain)	628

End of Specification Guideline

Full Mortise Hinges - 5 Knuckle

5PB1

5 Knuckle, Plain Bearing



PLAIN BEARING • LOW FREQUENCY • STANDARD WEIGHT

For use on Standard Weight Doors with Low Frequency Usage, not intended for use with door closing devices.

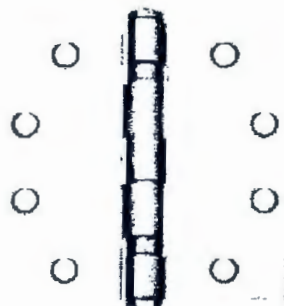
- 5PB1** Steel with steel pin
 - 5PB1** Brass with stainless steel pin
 - 5PB1** Stainless steel with stainless steel pin (630 finish)
- NRP = Non-Removable Pin

- Dimensions & tolerances conform to ANSI - A156.7
- Packed with wood and machine screws
- 5PB1 Steel description conforms to ANSI - A8133
- 5PB1 Brass conforms to ANSI - A2133
- 5PB1 Stainless Steel description conforms to ANSI - A5133

Size (Inches)	Size (mm)	Gauge
3.5 x 3.5	89 x 89	0.123
4.5 x 4	114 x 102	0.134
4.5 x 4.5	114 x 114	0.134

5BB1

5 Knuckle, Ball Bearing



2 BALL BEARING • MEDIUM FREQUENCY • STANDARD WEIGHT

For use on Standard Weight Doors with Medium Frequency Usage

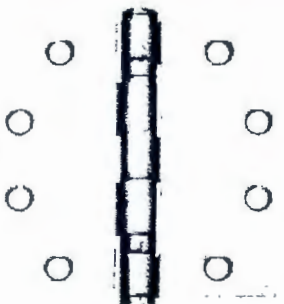
- 5BB1** Steel with steel pin
 - 5BB1** Brass with stainless steel pin
 - 5BB1** Stainless steel with stainless steel pin (630 finish only)
- NRP = Non-Removable Pin

- Dimensions & tolerances conform to ANSI - A156.7
- 5BB1 Steel description conforms to ANSI - A8112
- 5BB1 Brass conforms to ANSI - A2112
- 5BB1 Stainless description conforms to ANSI - A5112
- Packed with wood and machine screws

Size (Inches)	Size (mm)	Gauge
4 x 4	102 x 102	0.130
4.5 x 4	114 x 102	0.134
4.5 x 4.5	114 x 114	0.134
4.5 x 5	114 x 127	0.146
5 x 4.5	127 x 114	0.146

5BB1RC

5 Knuckle, Ball Bearing, Round Corner



2 BALL BEARING • MEDIUM FREQUENCY • STANDARD WEIGHT

For use on Standard Weight Doors with Medium Frequency Usage

- 5BB1** Steel with steel pin
- NRP = Non-Removable Pin

- Dimensions & tolerances conform to ANSI - A156.7
- 1/4" radius
- 5BB1 Steel description conforms to ANSI - A8112
- Packed with wood and machine screws

Size (Inches)	Size (mm)	Gauge
3.5 x 3.5	89 x 89	0.123
4.5 x 4	114 x 102	0.134

Full Mortise Hinges - 5 Knuckle

5BB1HWRC

5 Knuckle, Ball Bearing,
Heavy Weight, Round Corner



4 BALL BEARING • HIGH FREQUENCY • HEAVY WEIGHT

For use on Heavy Weight Doors or High Frequency Usage

5BB1HW Steel with steel pin

5BB1HW Brass with stainless steel pin

5BB1HW Stainless steel with stainless steel pin (630 finish only)

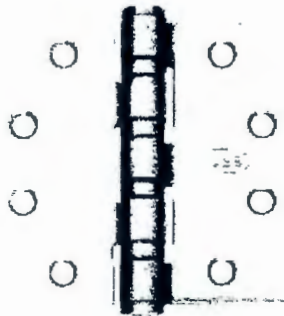
NRP = Non-Removable Pin

- Dimensions & tolerances conform to ANSI - A156.7
- 1/4" radius
- 5BB1HW Steel description conforms to ANSI - A8111
- 5BB1HW Brass description conforms to ANSI - A2111
- 5BB1HW Stainless description conforms to ANSI - A5111
- Packed with wood and machine screws

Size (Inches)	Size (mm)	Gauge
4.5 x 4	114 x 102	0.180

5BB1HW

5 Knuckle, Ball Bearing,
Heavy Weight



4 BALL BEARING • HIGH FREQUENCY • HEAVY WEIGHT

For use on Heavy Weight Doors or High Frequency Usage

5BB1HW Steel with steel pin

5BB1HW Brass with stainless steel pin

5BB1HW Stainless steel with stainless steel pin (630 finish only)

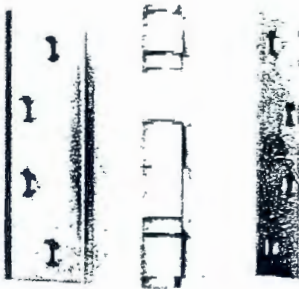
NRP = Non-Removable Pin

- Dimensions & tolerances conform to ANSI - A156.7
- 5BB1HW Steel description conforms to ANSI - A8111
- 5BB1HW Brass description conforms to ANSI - A2111
- 5BB1HW Stainless description conforms to ANSI - A5111
- Packed with wood and machine screws

Size (Inches)	Size (mm)	Gauge
4.5 x 4	114 x 102	0.180
4.5 x 4.5	114 x 114	0.180
4.5 x 5	114 x 127	0.190
5 x 5	127 x 127	0.190

5BB1SC

5 Knuckle, Ball Bearing,
Swing Clear



2 BALL BEARING • MEDIUM FREQUENCY

STANDARD WEIGHT • SWING CLEAR

Designed to completely clear the opening when door is opened 92 degrees.
Pins and tips are reversible.

5BB1SC Steel with steel pin

- Dimensions & tolerances conform to ANSI - A156.7
- 5BB1SC Steel Description conforms to ANSI - A8122
- Packed with flat head wood and machine screws

Size (Inches)	Size (mm)	Gauge
4.5	114	0.134
5	127	0.134

Aluminum Geared Continuous Hinges

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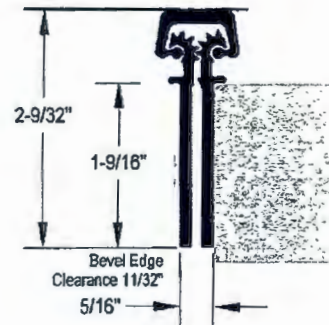
Ives 112HD

Full Mortise



Concealed Hinge
Flush Mounted, No Inset
Non Handed

Standard Mounting Hardware
12-24 X 1/2" Steel Self Tapping Screws
#12 x 1-1/2" Flathead Wood Screws
Optional Security Fasteners Available



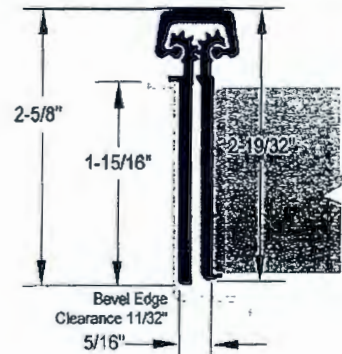
Ives 224HD

Full Mortise



Concealed Hinge
Door Edge Protector
1/16" Door Inset
Non Handed

Standard Mounting Hardware
12-24 X 1/2" Steel Self Tapping Screws
#12 x 1-1/2" Flathead Wood Screws
Optional Security Fasteners Available



Lever Designs

Athens



Symbol: ATH (L-Series 07)

Material: Pressure cast zinc lever; wrought brass rose



Sparta



Symbol: SPA (L-Series 17)

Material: Pressure cast zinc lever; wrought brass rose



Rhodes



Symbol: RHO (L-Series 06)

Material: Pressure cast zinc lever; wrought brass rose



Tubular



Symbol: TLR (L-Series 03)

Material: Pressure cast zinc lever; wrought brass rose



Omega



Symbol: OME (L-Series Omega)

Material: Pressure cast zinc lever; wrought brass rose



Tactile Warning

Milled



Order as follows:

8AT for Athens

8RO for Rhodes

8SP for Sparta

Knurled



Order as follows:

8TR for Tubular

Only available on outside lever, unless otherwise specified

All designs shown in 626 Satin Chrome

- = Standard cylinder.
- = FSIC - Full size interchangeable core option.
- = SFIC - Small format interchangeable core option.
- = Complies with ADA Accessibility Guidelines
- = Antimicrobial coating available on 626 finish only.
- = Meets California code for 1/2" or less return to the door.
- = Extended factory lead time.

Lever Finishes



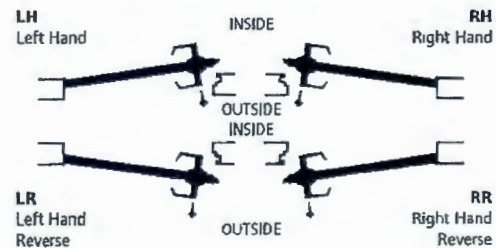
ND SERIES LOCKS	605 Bright Brass	606 Satin Brass	612 Satin Bronze	613 Oil Rubbed Bronze	619 Satin Nickel	625 Bright Chromium Plated	626 Satin Chromium Plated	643e Aged Bronze
Athens	•	•	•	•	•	•	•	•
Omega	•	•	•	•	•	•	•	•
Rhodes	•	•	•	•	•	•	•	•
Sparta	•	•	•	•	•	•	•	•
Tubular	•	•	•	•	•	•	•	•

NEW IN 2009

e = an equivalent finish to the BHMA standard.

Door Handing

All ND levers are reversible. Hand information is necessary to ensure proper cylinder orientation in keyed functions, and finish of latchbolt and strike for locks that are to be installed on reverse bevel doors. Follow the diagram to correctly determine the hand of the door.



ADA-Compliant Products

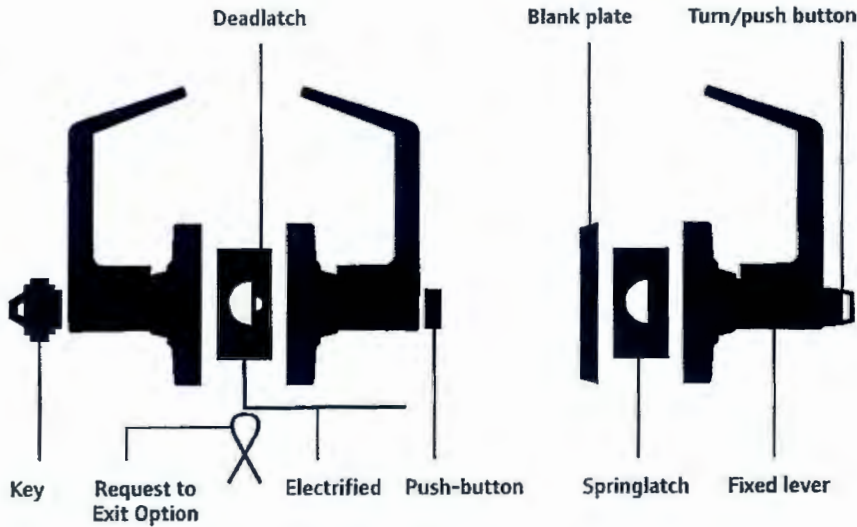
In compliance with the American National Standards Institute (ANSI A117.1) and the Americans with Disabilities Act (ADA), Schlage Lock Company offers a wide selection of locks designed for the needs of the physically challenged. This act is designed to provide protection for people with disabilities.

The intent of ADA is that owners of certain types of buildings must remove barriers and provide people with disabilities with access equal to, or similar to, that available to the general public.

Product information and specifications contained in this catalog are subject to change without notice. Please consult the factory.

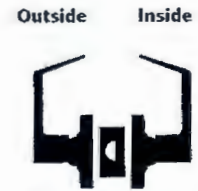
Lock Functions | ANSI A156.2 Series 4000 Grade 1

Non-Keyed Locks



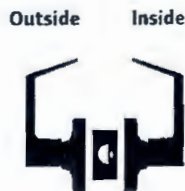
SCHLAGE ANSI
ND105 F75

Passage Latch
• Both levers always unlocked.



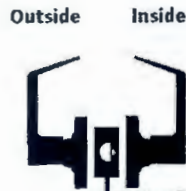
SCHLAGE ANSI
ND12D F89

Exit Lock
• Outside lever always fixed.
• Inside lever always unlocked.



SCHLAGE ANSI
ND12DEL -

Electrically Locked (Fail Safe)
• Outside lever continuously locked electrically.
• Unlocked by switch or power failure.
• Auxiliary latch deadlocks latchbolt when door is closed.
• Inside lever always free for immediate exit.



SCHLAGE ANSI
ND12DEU -

Electrically Unlocked (Fail Secure)
• Outside lever continuously locked until unlocked by electric current.
• Auxiliary latch deadlocks latchbolt when door is closed.
• Inside lever is always free for immediate exit.



SCHLAGE ANSI
ND25D -

Exit Lock
• Blank plate outside.
• Inside lever always unlocked.





Standard cylinder.



Safe School Locks.



FSIC - full size interchangeable core option.



SFIC - small format interchangeable core option.

† **Caution:**

Double cylinder locks are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

Keyed Locks

SCHLAGE ANSI
ND40S F76

Bath/Bedroom Privacy Lock

- Push-button locking.
- Can be opened from outside with a small screwdriver.
- Turn inside lever or close door to release button.

Outside Inside



SCHLAGE ANSI
ND44S - -

Hospital Privacy Lock

- Push-button locking.
- Unlocked from outside by turning emergency turn-button.
- Turn inside lever or close door to release button.

Outside Inside



SCHLAGE ANSI
ND170

Single Dummy Trim

- Dummy trim for one side of door.
- Used for door pull or as matching inactive trim.

Outside/Inside



SCHLAGE ANSI
ND50PD F82

Entrance/Office Lock

- Push-button locking.
- Push-button locks outside lever until it is unlocked with key or by turning inside lever.

Outside Inside



SCHLAGE ANSI
ND53PD F109

Entrance Lock

- Turn/push-button locking: Pushing and turning the button locks the outside lever, requiring use of a key until the button is manually unlocked.
- Push-button locking: Pushing button locks outside lever until unlocked by key or by turning the inside lever.

Outside Inside



SCHLAGE ANSI
ND60PD F88

Vestibule Lock

- Latch retracted by key from outside when the outside lever is unlocked by key in inside lever.
- Inside lever is always unlocked.

Outside Inside



SCHLAGE ANSI
ND66PD F91

Store Lock†

- Key in either lever locks or unlocks both levers.

Outside Inside



SCHLAGE ANSI
ND70PD F84

Classroom Lock

- Outside lever locked and unlocked by key.
- Inside lever always unlocked.

Outside Inside



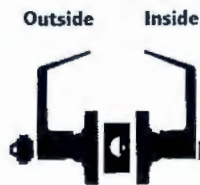
Lock Functions | ANSI A156.2 Series 4000 Grade 1

Keyed Locks (continued)

SCHLAGE ANSI
ND73PD F90

Corridor Lock

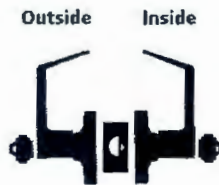
- Locked or unlocked by key from outside.
- Push-button locking from inside.
- Turn inside lever or close door to release button.
- When outside lever is locked by key it can only be unlocked by key.
- Inside lever is always unlocked.



SCHLAGE ANSI
ND75PD -

Classroom Security Lock

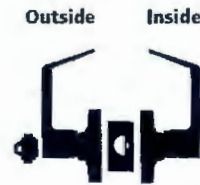
- Key in either lever locks or unlocks outside lever.
- Inside lever is always unlocked.



SCHLAGE ANSI
ND80PD F86

Storeroom Lock

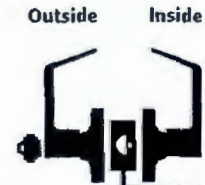
- Outside lever is fixed.
- Entrance by key only.
- Inside lever always unlocked.



SCHLAGE ANSI
ND80PDEL -

Electrically Locked (Fail Safe)

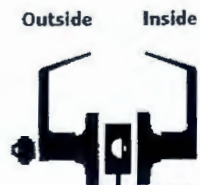
- Outside lever continuously locked electrically.
- Unlocked by key outside or by switch or power failure.
- Auxiliary latch deadlocks latchbolt when door is closed.
- Inside lever always free for immediate exit.



SCHLAGE ANSI
ND80PDEU -

Electrically Unlocked (Fail Secure)

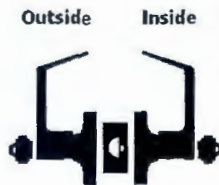
- Outside lever continuously locked until unlocked by key or electric current.
- Auxiliary latch deadlocks latchbolt when door is closed.
- Inside lever always free for immediate exit.



SCHLAGE ANSI
ND82PD F87

Institution Lock¹

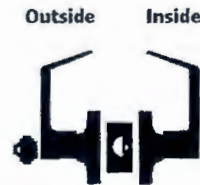
- Both levers are fixed.
- Entrance by key in either lever



SCHLAGE ANSI
ND85PD -

Faculty Restroom Lock

- Outside lever is fixed.
- Entrance by key only.
- Push-button in inside lever activates visual occupancy indicator, allowing only emergency master key to operate.
- Turn inside lever or close door to release visual occupancy indicator.
- Rotation of inside spinner-button provides lock-out feature by keeping indicator thrown.

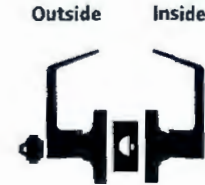


Vandlgard Functions

SCHLAGE ANSI
ND91PD F82

Entrance/Office Lock

- Push-button locking.
- Push-button disengages outside lever until locked with key or by turning inside lever.
- Vandlgard is designed to disengage outside spindle from latch when locked.





Standard cylinder



Safe School Locks.



FSIC - full size interchangeable core option.



SFIC - small format interchangeable core option.

† **Caution:**

Double cylinder locks are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

SCHLAGE ANSI
ND92PD F109

Entrance Lock

- Turn/push-button locking: Pushing and turning button disengages outside lever, requiring using of key until button is manually unlocked.
- Push-button locking: Pushing button disengages outside lever until unlocked by key or by turning inside lever.
- Vandlgard is designed to disengage outside spindle from latch when locked.

Outside Inside



SCHLAGE ANSI
ND93PD F88

Vestibule Lock

- Latch retracted by key from outside when outside lever is disengaged by key in inside lever.
- Inside lever is always unlocked.
- Vandlgard is designed to disengage outside spindle from latch when locked.

Outside Inside



SCHLAGE ANSI
ND94PD F84

Classroom Lock

- Outside lever disengaged and unlocked by key.
- Inside lever always unlocked.
- Vandlgard is designed to disengage outside spindle from latch when locked.

Outside Inside



SCHLAGE ANSI
ND95PD -

Classroom Security Lock

- Key in either lever locks or unlocks outside lever.
- Inside lever is always unlocked.

Outside Inside



SCHLAGE ANSI
ND96PD F86

Storeroom Lock

- Outside lever always disengaged.
- Entrance by key only.
- Inside lever is always unlocked.
- Vandlgard is designed to disengage outside spindle from latch when locked.

Outside Inside



SCHLAGE ANSI
ND96PDEL -

Electrically Locked (Fail Safe)

- Outside lever continuously disengaged electrically.
- Unlocked by key outside or by switch or power failure.
- Auxiliary latch deadlocks latchbolt when door is closed.
- Inside lever always free for immediate exit.
- Vandlgard is designed to disengage outside spindle from latch when locked.

Outside Inside



SCHLAGE ANSI
ND96PDEU -

Electrically Unlocked (Fail Secure)

- Outside lever continuously disengaged until unlocked by key or electric current.
- Auxiliary latch deadlocks latchbolt when door is closed.
- Inside lever always free for immediate exit.
- Vandlgard is designed to disengage outside spindle from latch when locked.

Outside Inside



SCHLAGE ANSI
ND97PD F90

Corridor Lock

- Locked or unlocked by key from outside.
- Push-button locking from inside.
- Turning inside lever or closing door releases button.
- When outside lever is locked by key it can only be unlocked by key.
- Inside lever is always unlocked.
- Vandlgard is designed to disengage outside spindle from latch when locked.

Outside Inside



ND-Series Electrified Locks

ND-Series locks are available for electrically locking and unlocking controls for high security and fire safety applications. They are UL Listed and rated for both fire and electrical single-point locking on labeled doors. RX feature is available on ND80 and ND12 families. Switch is ready to be used in a normally open or normally closed application.

Special prep required for RX feature. See service manual for details.

Electrical Requirements

Voltage

24VAC or 24VDC

Holding Current

.15A or .35A

Operating Temperature

Maximum +151°F (+66°C)

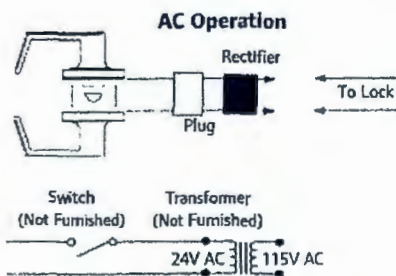
Minimum -31°F (-33°C)

Note: All installations should be in accordance with local electrical codes.



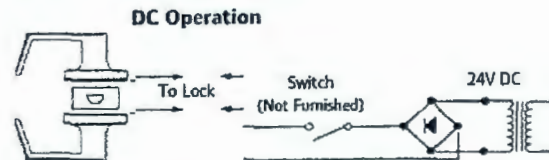
Typical Wiring Diagram for Electrified Locks

AC Power Source – EL or EU



Rectifier used on AC operation unit only.
.35A @ 24V (Current requirements per lock)

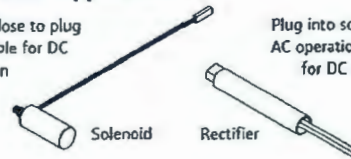
DC Power Source – EL or EU



.15A @ 24V (Current requirements per lock)

AC and DC Application

Cut as close to plug as possible for DC operation
Plug into solenoid for AC operation. Discard for DC operation



ND-Series Other Special Functions

ND30D

Patio lock

Push button locking. Turning inside lever or closing door releases button, preventing a lock-out. Inside lever always free for immediate egress. Specify per XN12-007.

ND25 x 80PD

Storeroom exit lock

Blank plate outside. Key in fixed inside lever retracts latch. Specify per XN12-005.

ND25 x 70PD

Classroom exit lock

Blank plate outside. Key locks or unlocks inside lever. Specify per XN12-004.

ND60PD

Vestibule with closed outside lever

Same as ND60 except outside lever is closed. Inside lever always free for immediate egress. Specify per XN12-001.

ND70 x 80PD

Classroom by storeroom lock

Key locks and unlocks outside lever. Key in fixed inside lever retracts latch. Specify per XN12-006.

ND72PD

Communicating Lock

Key in either lever locks and unlocks on lever. Specify per XN12-002.

ND72PD

Vandlgard communicating lock

Communicating, ND72, lock with Vandlgard. Key in either lever locks and unlocks own lever. Both inside and outside levers are clutching. Specify per XN12-003.

Standard Cylinders

Standard cylinders are available in Classic keyways or in patented Everest® keyways. Specify keyway to differentiate between Everest and Classic.

Example: C (Classic) vs. C123 (Everest).



Full Size Interchangeable Core 8

Schlage FSIC full size interchangeable core (IC) locksets allow immediate rekeying at the door simply by using a special control key to replace the core.



Available in all lever designs, full size interchangeable cores can be integrated into any 5 or 6-pin Schlage key.

Standard Cylinders

Number	Description
23-065	6-Pin conventional (standard)
20-765-XP	Primus XP high security
20-565-XP	Primus XP UL437 Listed high security
23-000	Hotel cylinder
N123-042	Temporary construction plug, plastic for functions

Available in 606 and 626 finish only. Everest C123 keyway standard.

Full Size Interchangeable Cores

Number	Description
23-030	Conventional core
20-740-XP	Primus XP high security core
N123-127	FSIC Driver

Available 606 and 626 finish only. Everest C123 keyway standard.

Primus XP High Security Cylinders

Primus XP cylinders are recommended for upgrading existing Classic key systems. Due to its extended patent life, the newly designed Everest Primus is recommended for new key systems and for upgrading existing Everest® key systems. Specify keyway to differentiate between Everest and Classic. Example: CP (Classic) vs. C123 (Everest).

See Schlage Cylinders, Keys and Key Control Catalog (SC-5293) for more details.

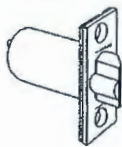
Latches

ND-Series latches are adjustable for flat or beveled edge doors. Latches and strikes are furnished in brass, bronze, or chrome finishes to be compatible with lock trim. When ordering, specify quantity, part number, and finish. All ND-Series latches have 1/2" throw and 1" housings except 2 3/8" backset latches, which includes sleeve G506-815 to fill a 1" edge bore. Standard latches are shown in bold type.

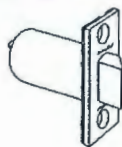
Latches

Backset	Description	Deadlatch 1/2" (13 mm) Throw	Springlatch 1/2" (13 mm) Throw
2 3/8" (60 mm)	1 1/8" (29mm) x 2 1/4" (57mm) square corner	14-047	—
	1 1/8" (29mm) x 2 1/4" (57mm) square corner	14-048	—
2 3/4" (70 mm)	1 1/8" (29mm) x 2 1/4" (57mm), standard square corner	13-047	13-048
	1 1/8" (29mm) x 2 1/4" (57mm) throw, anti-friction door latch, square corner	14-042	—
3 3/4" (95 mm)	1 1/8" (29mm) x 2 1/4" (57mm), square corner	14-028	14-010
5"	Backset extension link	43-005	—

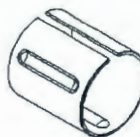
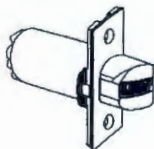
Deadlatch



Springlatch



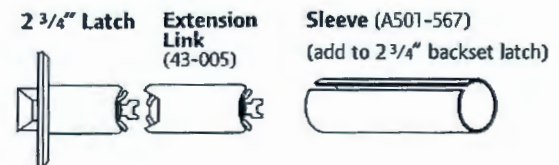
3/4" Throw Anti-Friction Deadlatch for Pairs of Fire Doors



G506-815

Long Backsets

ND-Series locks with 5" backsets are normally furnished with 1 1/8" faceplates and 1" housings. Links installed in metal doors require one A501-567 sleeve and 43-005 (order separately) to join latch and link.



Door Reinforcement

Reinforcing unit is required to reinforce and help prevent the collapse of hollow metal doors when locksets are tightly mounted. This kit should be used with long backsets for ND-Series lock installations in hollow metal doors to prevent lateral movement of the latchbolt. Specify door thickness, 1 3/8" (35 mm) or 1 3/4" (44 mm), when ordering reinforcement kits.

Reinforcement Kit 37-001

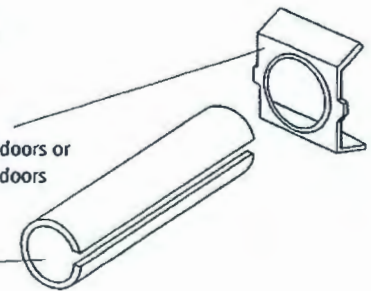
Kit includes:

Reinforcement

A501-566 for 1 3/4" doors or
A501-565 for 1 3/8" doors

Sleeve

A501-567 for
5" backsets



Strikes

All Schlage strikes are furnished complete with screws.

The standard ND-Series strike has a $1\frac{3}{16}$ " lip.

When ordering separately specify quantity, product number, finish, and lip length. Standard strikes are shown in bold type.

Strikes

Backset	Description	Lip Length
10-013	$1\frac{1}{8}$" x $2\frac{3}{4}$" (28mm x 70mm) Square corner, T-strike, box	$1\frac{1}{8}$" (28mm)
10-016	$1\frac{1}{8}$" x $2\frac{3}{4}$" (28mm x 70mm) Square corner, T-strike, box	$1\frac{1}{2}$" (38mm)
10-025	$1\frac{1}{4}$" x $4\frac{7}{8}$" (32mm x 124mm) Standard, no box, ANSI	$1\frac{3}{16}$" (30mm)
10-025	$1\frac{1}{4}$ " x $4\frac{7}{8}$ " (32mm x 124mm) ANSI, no box	$1\frac{3}{8}$ " (35mm)
K510-066	Box for 10-025 ANSI strike	—

ANSI Strike—Standard (10-025)

$1\frac{1}{4}$ " x $4\frac{7}{8}$ " x $\frac{3}{32}$ "



Square Corner Box Strike (10-013)

$1\frac{1}{8}$ " x $2\frac{3}{4}$ " x $\frac{3}{32}$ "

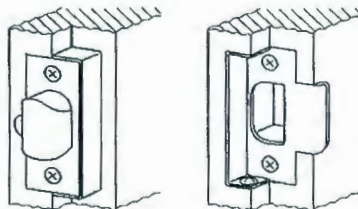


Rabbeted Latch and Strike Kit

Rabbeted latch and strike kit finishes: 605, 626.

This kit adapts square corner latches and $2\frac{3}{4}$ " (28mm) high strikes for $\frac{1}{2}$ " (13mm) rabbeted door and frame preparations.

Rabbeted Latch and Strike Kit (39-030)



Accessories

$1\frac{3}{8}$ " D-Series Lever Door Spacer*



XN12-012

*For installation on $1\frac{3}{8}$ " doors, two (2) spacers are required. Specify finish.

Specifications

Handing:

All ND-Series lever locksets are non-handed.

Door Thickness:

1⁵/₈" to 2¹/₈" (41mm–54mm) standard including Vandgard® functions. 1³/₄" - 2" for function D85. See accessories (Page 21) for spacers required for 1³/₈" doors.

Backset:

2³/₄" (70 mm) standard. 2³/₈", 3³/₄" and 5" (60 mm, 95 mm, 127 mm) optional.

Faceplate:

Brass, bronze or stainless steel. 1¹/₈" x 2¹/₄" (29 mm x 57mm) square corner, beveled.

Lock Chassis:

Zinc plated for corrosion resistance.

Latch Bolt:

Steel, 1/2" (12mm) throw, deadlocking on keyed and exterior functions. 3/4" (19 mm) throw anti-friction latch available for pairs of fire doors.

Exposed Trim:

Levers: Pressure cast zinc, plated to match finish symbols.
Roses: Brass, bronze or zinc.

Strike:

ANSI curved lip strike 1¹/₄" x 4⁷/₈" x 1³/₁₆" lip to center standard. Optional strikes, lip lengths and ANSI strike box available. See page 21.

Cylinder & Keys:

6-pin Everest C123 keyway standard with two patented nickel silver keys per lock.

Keying Options:

Interchangeable core and Primus high security cylinders.
Master keying, grand master keying and construction keying.

Warranty:

Seven-year limited for all functions including Vandgard.

Certifications

ANSI:

Meets or exceeds A156.2 Series 4000, Grade 1 strength and operational requirements. Meets A117.1 Accessibility Code.

Federal:

Meets FF-H-106C Series 161.

California State Reference Code:

(Formerly Title 19, California State Fire Marshal Standard)
All levers with less than 1/2" (64mm) returns comply; Schlage levers return to within 1/2" of door face.

MEA Certification:

All electrified locking (fail-safe, unlocked by switch or power failures) functions accepted for use in New York City by the City of New York, Department of Buildings (MEA 24-04-E).

All levers with less than 1/2" (64mm) returns comply with California Fire Safety Codes.

Florida Building Commission:

3/4" and 1/2" throw latch approved for Hurricane Resistance with Miami-Dade County, Florida.

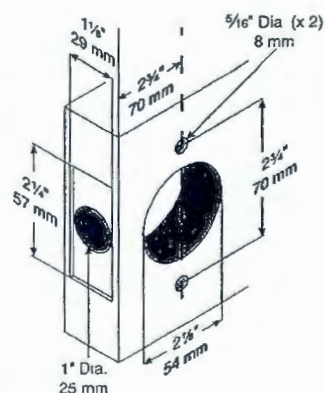
UL / cUL:

All locks listed for A label single doors, 4' x 8'.
Letter F and UL symbol.

ADA Compliant:

Schlage Lock Company offers a wide selection of locks designed to meet the Americans With Disabilities Act.

Door Preparation






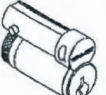






Ordering Guidelines

To order Schlage products, descriptive data should be in the same sequence as shown.

Line Item	Qty	Product	Outside		Inside		Hand	Latch	Strike	DR Thk	Ext	Dim	Additional Details
			Des	Fin	Des	Fin							
1	2	3	4	5	6	7	8	9	10	11	12	13	14

- 1 Line item number
- 2 Quantity
- 3 Complete model number with function and cylinder type

To order cylinder options, change "PD" at the end of the model number as follows.

	ND53PD	Standard.
	ND53LD	Less standard cylinder. For Primus cylinder, specify this option and order Primus cylinder separately
	ND53CD	With temporary plastic construction cylinder. Double cylinder functions ordered <i>less cylinder</i> are furnished with these construction cylinders to maintain timing of key cams.
	ND53JD	Prepared for full size interchangeable core, less core. For Primus core, specify this option and order Primus core separately.
	ND53RD	With full size conventional interchangeable core installed. Order control keys separately.
	ND53TD	With full size (temporary) construction core installed. Order all keys separately.
	ND53BD	Prepared for small format interchangeable core (SFIC), less core.
	ND53GD	With Everest B Family restricted keyway small format core installed. Order control keys separately.
	ND53HD	With small format keyed brass construction core installed. Order all keys separately.
	ND53BDC	With small format disposable plastic construction core installed.

- 4 / 5 Outside design / finish. Specify tactile warning here as "BAT" for Athens, "BRO" for Rhodes, "BSP" for Sparta or "BTR" for knurling on Tubular
- 6 / 7 Inside design / finish. Leave blank if same as outside.
- 8 Hand. Required for keyed knob designs and all split finish locksets. One hand per line item.
- 9 Latch. Leave blank for standard or specify part number for optional latch. LLL=Less Latch.
- 10 Strike. Leave blank for standard or specify part number for optional strike. LLL=Less Strike.
- 11 Door thickness, if non-standard. Example: 200 = 2".
- 12 Extension, to specify whether thick door is extended inside (EI), outside (EO), differently (ED) or equally (EE).
- 13 Dimension for strike lip lengths. See price book for availability of specific dimensions with specific strikes (e.g. 138 = 1³/₈).
- 14 Keying detail (e.g. key symbol, keyway, bitting) and other special requirements.

Example

Line Item	Qty	Product	Outside		Inside		Hand	Latch	Strike	DR Thk	Ext	Dim	Additional Details
			Des	Fin	Des	Fin							
1	24	ND10S	SPA	605				10-013	214	EE			1AA-100AA
2	4	ND50RD	RHO	613								138	C145 245793
3	60	ND93PD	ATH	626				14-047					E 000000

Note: Schlage order forms are available at no charge by contacting your sales representative or by visiting schlage.com.

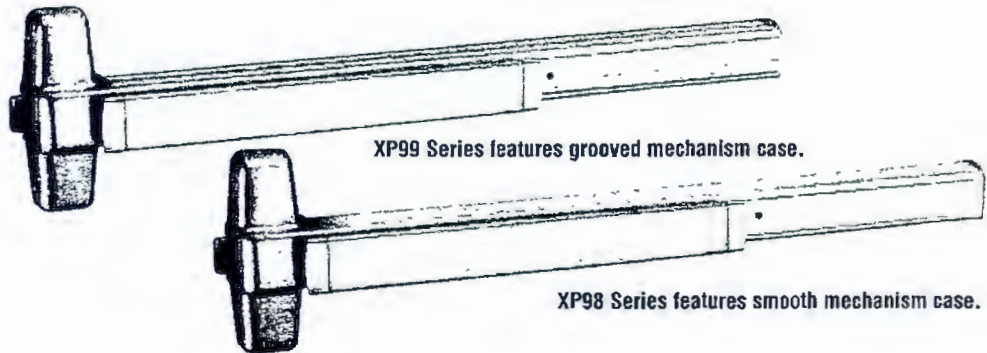
VON DUPRIN® XP98/99™ Rim Exit Device

Introduction

Balancing security and safety has always been a challenge with any panic exit device design. With the new XP98/99 Rim exit device, Von Duprin has engineered a device that reaches a new standard for security while enhancing the safety performance features. The new patented center case design takes the proven reliability of the 98/99 series and adds a new latch bolt concept that delivers the industry's highest level of latching security.

Additionally, upgrading for current 98/99 owners will be made easy and affordable. The new device will match the existing 98/99 device footprint, eliminating costly door prep changes. A new retrofit kit will allow conversion of existing 99 devices into the new XP99 function, making higher security an affordable function.

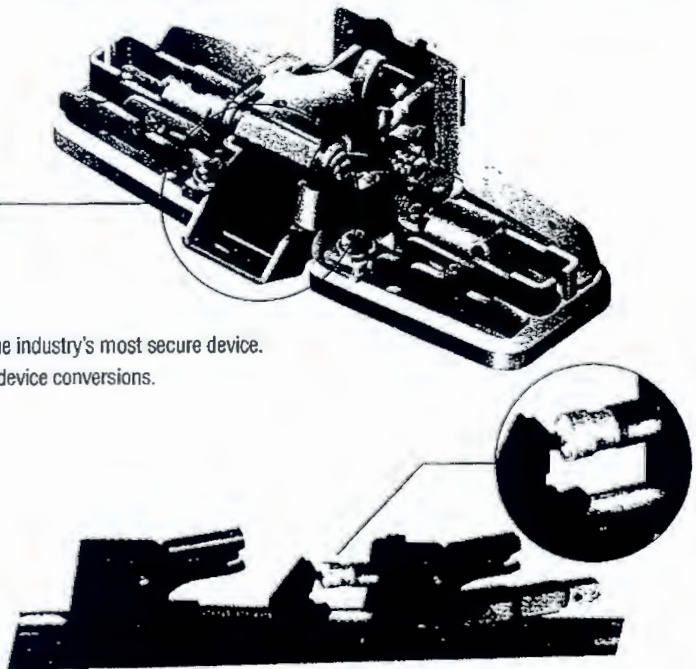
For over 100 years Von Duprin has set the standard for innovation and quality in the world of exit devices. The XP98/99 Rim device is another page in this long honored story of excellence.



Von Duprin push pad exit devices are available in two external surface styles, designated XP98 Series and XP99 Series. The two styles are mechanically and dimensionally identical and provide a wide selection of appearance options.

Latch Bolt

New latchbolt design provides the industry's most secure device.
Retro-fit kits available for 98/99 device conversions.



The Quiet One®

A fluid dampener decelerates the pushpad on its return stroke and eliminates most noise associated with exit device operations. Furnished on all XP98/99™ series exit devices.

VON DUPRIN® XP98/99™ Rim Exit Device



909 Strike



954 Strike
With 9854/9954
Mullion

XP98 and XP99 rim exit devices for all types of single and double doors with mullion, UL listed for accident hazard installations. Covers stock hollow metal doors with 86 or 161 cutouts.

XP98-F and XP99-F fire exit rim devices for all types of 4' x 10' (1219mm x 2438mm) single doors or 8' x 10' (2438mm x 2438mm) double doors with 9954 mullion, UL listed A, B, C, D, or E fire labeled installations.




Specifications





Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K, or L remove NL drive screw from device
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size
Strikes	909 – Panic and Fire Single Door 954 — Mullion Fire
Dogging Feature	Hex key dogging standard
Dogging Options	CD Cylinder Dogging SD Special Center Case Dogging LD Less Dogging
Electric Options (Consult factory)	RX Pushpad Monitor Switch* RX2 Double Pushpad Monitor Switch* E Electric Locking & Unlocking ALK Alarm Exit Kit*
Miscellaneous Options	-2 Double Cylinder* GBK Glass Bead Kit
Fasteners & Sex Bolts (SNB)	Includes 1 3/4" (19mm) – 2 1/4" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities
Latch Bolt	Deadlocking, 3/4" (19mm) throw
Device Centerline from Finished Floor	39 13/16" (1011 mm) 39 11/16" (1008 mm) with Mullion
Center Case Dimensions	8" x 2 3/4" x 2 3/8" (203mm x 70mm x 60mm)
Mechanism Case Dimensions	2 1/4" x 2 1/4" (57mm x 57mm)
Projection	Pushbar Neutral – 3 13/16" (97 mm) Pushbar Depressed – 3 1/16" (78 mm)

See full-line product catalog for "How to Order" specification.

* Available Q3, 2006

VON DUPRIN® XP98/99™ Rim Exit Device Standard Trim

	Exit only	Dummy Trim Pull when Dogged	Night Latch Key Retracts Latchbolt	Night Latch Key Retracts Latchbolt Optional Pull Required
				
Product Description	XP98EO XP99EO	XP98DT XP99DT	XP98NL XP99NL	XP98NL-OP XP99NL-OP
Trim Description	—	990DT	990NL-R/V	110NL-MD 110NL-WD
Escutcheon Plate Size	—	3" x 14 ³ / ₁₆ " x 3 ¹ / ₃₂ " (76x360x2mm)	3" x 14 ³ / ₁₆ " x 3 ¹ / ₃₂ " (76x360x2mm)	—
Pull Center to Center	—	5 ¹ / ₂ " (140mm)	5 ¹ / ₂ " (140mm)	—
Projection	—	2" (51mm)	2" (51mm)	—
ANSI Function	01	02	03	03
Cylinder Type	—	—	Rim	Rim
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL	
Optional #425 Sex Bolt Quantity for Device	6	2	2	6

	Lever Key Locks & Unlocks	Lever – Night Latch Key Retracts Latchbolt	Lever – Blank Escutcheon Always operable (No Cylinder)	Lever Dummy Trim Pull when Dogged
				
Product Description	XP98L XP99L	XP98L-NL XP99L-NL	XP98L-BE XP99L-BE	XP98L-DT XP99L-DT
Trim Description	996L-R/V	996L-NL-R/V	996L-BE-R/V	996L-DT-R/V
Escutcheon Plate Size	2 ⁹ / ₄ " x 10 ⁹ / ₄ " x 2 ⁷ / ₃₂ " (70x273x21mm)	2 ⁹ / ₄ " x 10 ⁹ / ₄ " x 2 ⁷ / ₃₂ " (70x273x21mm)	2 ⁹ / ₄ " x 10 ⁹ / ₄ " x 2 ⁷ / ₃₂ " (70x273x21mm)	2 ⁹ / ₄ " x 10 ⁹ / ₄ " x 2 ⁷ / ₃₂ " (70x273x21mm)
Pull Center to Center	—	—	—	—
Projection	2 ⁷ / ₈ " (73mm)	2 ⁷ / ₈ " (73mm)	2 ⁷ / ₈ " (73mm)	2 ⁷ / ₈ " (73mm)
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
Optional #425 Sex Bolt Quantity for Device	2	2	2	2

VON DUPRIN® 98/99™ Options

Pneumatic Controlled Exit Devices—PN



The PN feature provides remote latch bolt retraction in hazardous areas where electrically operated devices would not be permitted. The pneumatic solenoid will retract the latch bolt for momentary or prolonged periods. PN exit devices are particularly suited for use with automatic door operators. The PN feature is available on both Panic and Fire Exit Hardware devices.

The PN feature includes a special actuating linkage that gives building owners the option of mechanically or pneumatically dogging the exit device. If manual hex-key dogging is required, specify HD-PN (Dogging the device, whether mechanically or pneumatically, makes the device function as a push/pull unit and reduces the wear on its moving parts.) If cylinder dogging is required, the standard cylinder dogging is not available, but special center case dogging is available, specify SD-PN. SD-PN is not available on the 9875 or 9975 devices.

When activated pneumatically, the latch bolt(s) of the exit device retract in ½ to 1 ½ seconds. This pneumatic operation uses air pressure ranging from 50 to 100 pounds per square inch.

This product will function only when it is part of a pneumatic system (air compressor, air lines, pneumatic system, etc.). Contact LCN for correct control boxes

To Order, Specify:

- Standard — Use prefix PN, example PN99NL
- Hex Key Dogging — Use prefix HD-PN, example HD-PN99NL
- Special Center Case Dogging — Use prefix SD-PN, example SD-PN99NL

Double Cylinder – 2



Double cylinder features an inside key cylinder which locks or unlocks the outside trim and an outside key cylinder which retracts the latch bolt only (Night Latch Function). Available on rim or mortise lock device.

Rim requires two rim type cylinders. Mortise device requires 1 rim cylinder and 1 mortise cylinder 1¼" with a straight cam. (Schlage cam reference B502-191.)

Available functions are thumbpiece, knob or lever.

To Order, Specify:

1. Suffix-2 with device/trim number, example 99TP-2.
2. Handing required, LHR or RHR.

Less Dogging – LD

Less Dogging is available in all 98/99™ Panic Exit devices to remove the dogging option.

To Order, Specify:

- Use prefix LD, example LD99L

Special Center Case Dogging – SD



Special cylinder dogging in the center case is available for Chexit, EL, ALK panic devices to allow for mechanical push/pull operation. With this option, the latchbolt is held retracted and pushbar is still operable. Specify handing — RHR or LHR.

SD requires 1¼" (32mm) mortise cylinder with a straight cam. (Schlage cam reference B502-191.)

Note: Available on Rim and Vertical Rod Panic Exit Devices only.

To Order, Specify:

- Use prefix SD, example SD99L

Cylinder Dogging — CD



Cylinder dogging is available on all 98/99™ Panic Exit devices to replace the standard hex key dogging. Unit requires a standard 1¼" (32mm) mortise cylinder with a straight cam (Schlage Cam B502-191 reference).

To Order, Specify:

- Use prefix, CD, example CD99L

Cylinder Dogging Kit — CDK

For field conversion, a cylinder dogging conversion kit is available. Cannot be added to fire exit hardware.

Order: 33A/99CDK or 35A/98CDK, specify finish.

Hex Key Dogging Kit — HDK

For field conversion, a hex key dogging conversion kit is available. Cannot be added to fire exit hardware.

Order: 33A/99HDK or 35A/98HDK, specify finish.

Braille, Embossed and Knurled Touchpads

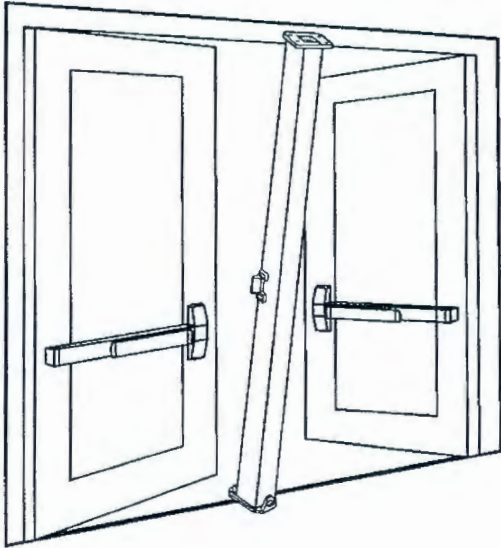


Braille touchpad is embossed with the message "CAUTION STAIRWELL" in braille and raised letters provides assistance to person with impaired vision. Letters are ½" (13mm) high and braille is #2, raised height is ⅜" (2mm). Other messages are available on special order, limited to 20 characters per line.

Embossed touchpad is embossed with the word "PUSH"
Knurled touchpad is to provide warning to person with impaired vision.

VON DUPRIN® Auxiliary Hardware and General Information

Removable Mullions



Mullions

Removable Steel Mullions Mullions provide single door performance in double door openings with rim devices. Mullions are easily removed by loosening bottom set screw and removing top fitting cover. The top mullion fitting is attached to the frame and is concealed by the fitting cover.

Steel mullions are 2" (51mm) wide and 3" (76mm) deep, with a wall thickness of 1/8" (3mm).

Mullions are shipped with mounting screws and prepared for strikes. Strikes are not included except where indicated.

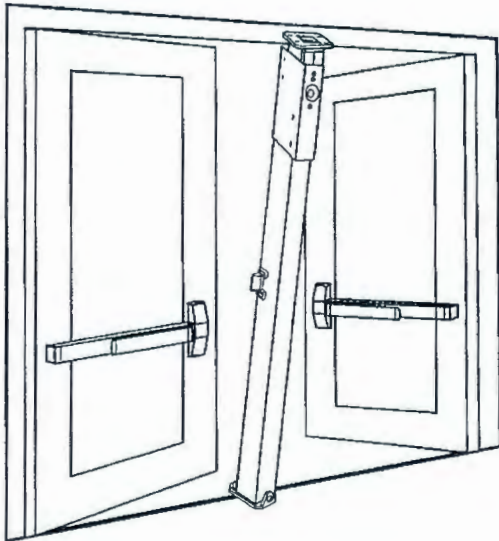
Steel mullions are available in SP28 and SP313 finishes. Consult factory for other powder coat finish options.

KR – Keyed Removable Steel Mullions makes removal faster and easier by a single operation of the mortise cylinder. Once mullion is removed, large equipment or furniture can freely pass through the opening. The unit will self lock when re-installed, without use of the cylinder key. Uses a 1 1/4" mortise cylinder with a straight cam (Schlage cam reference B502-191). Cylinders are sold separately. Prefix mullion model with "KR".

Removable Aluminum Mullions are 1 1/8" (27mm) wide on face closest to the door and 2 3/8" (60mm) at the widest point. The depth is 3 1/8" (79mm) with a wall thickness of 1/8" (3mm).

Aluminum mullions are available in US4, US10, US28, 313AN and 315AN finishes. Consult factory for other powder coat finish options.

Keyed Removable Steel Mullions



Stock Hollow Metal Applications for devices mounted to cover ANSI 161 cutouts are higher than the standard mullion strike location. Consult the factory for special strike preparation or order a blank mullion. See below

Blank Mullions are furnished without strike preparation. They are used to mount devices at a strike height different from the standard mullion preparation.

To Order, specify

1. For keyed Removable option on steel mullions, prefix model number with "KR"
2. Model number.
3. Height of opening
4. Finish
5. Handing if required.
6. Centerline deviation (refer to device template for standard centerline).
7. Strikes, when required, should be ordered with device.
8. For keyed Removable option on steel mullions, prefix model number with "KR"

VON DUPRIN® Auxiliary Hardware and General Information

Steel Mullions

1654 Prepared for two 1606 strikes. If 1606 strikes are not specified on the order, two per mullion will be added. Additional charges apply.

4954 Prepared for 264 or 299 strikes. For use with all Von Duprin Panic rim devices. **Note: specify strike choice with device.**



9954 Prepared for and must be used with two 268 strikes (88-F device), or two 499F (22-F, 98-F, 99F devices). UL fire labeled mullion for up to 3 hour opening using Von Duprin fire exit rim devices. This mullion is not easily removed due to special fittings.

22-F and 88-F devices are rated up to 8' x 8' (2438mm x 2438mm).

98-F and 99-F devices are rated up to 10'0" (3048mm).

Note: if 268 or 499F strikes are not specified on the order, two per mullion will be added. Additional charges apply.



4754 Prepared for two 4263 monitor strikes.

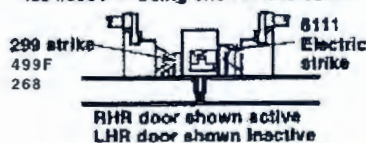


4854 Prepared for one 299 and one 6111 electric strike. Indicate handing for electric strike.



9854 Prepared for one 268 or 499F strike and one 6111 electric strike. Indicate handing for electric strike. UL fire labelled mullion for up to 3 hour openings up to 8' x 8' (2438mm x 2438mm) using Von Duprin Fire Exit Rim Devices

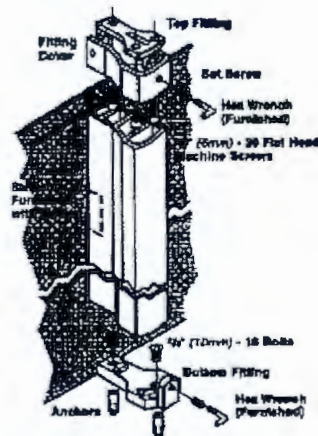
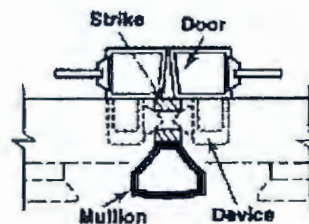
4854/9854 — Using one electric strike



Aluminum Mullions

5654 Prepared for two 264 or 299 strikes with weatherstripping. Includes one set of 154 stabilizers.

5754 Prepared and furnished with one 1408 double door strike. Includes one 154 stabilizer set. **Note: specify device "less strike".**



Sizes for Mullions

1654, 4954, 4754, 4854, 5654, 5754	9854, 9954
7' 2" (2184mm)	7' 3" (2210mm)
*8' 2" (2489mm)	8' 3" (2475mm)
*10' 2" (3099mm)	10' 3" (3124mm)

KR1654, KR4954, KR4754, KR4854 **KR9854**, KR9954*****

7' 6" (2286mm)	7' 5" (2261mm)
8' 6" (2591mm)	*8' 5" (2565mm)
10' 6" (3200mm)	*10' 5" (3175mm)

* Only qualifying applications will be provided with UL Label.

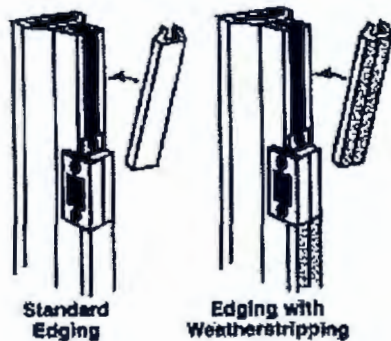
** Fire rated same as 9854

*** Fire rated same as 9954

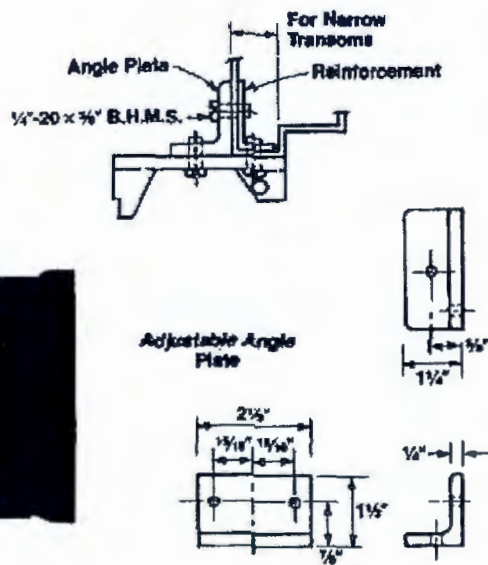
VON DUPRIN® Auxiliary Hardware and General Information

Weatherstripping

Weatherstripping retards cold air from blowing between doors and mullion. It also serves as a silencer when the door is closed against the mullion. The silicone treated weatherstrip pile is bonded to a polypropylene backing. A slide-in molding houses the weatherstripping, covers mounting screws of the strike and extends to both the top and bottom of the mullion. Available on Aluminum Mullions only.



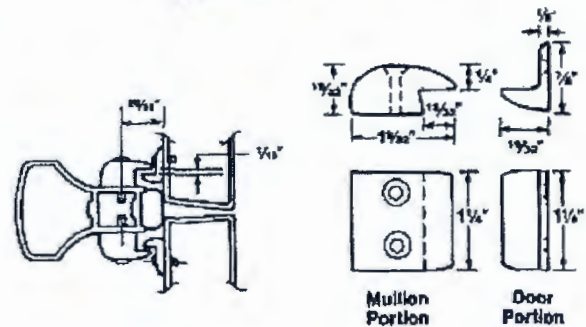
Angle Plate is used with narrow transom frames. The plate attaches to the transom extending the surface area needed to mount the mullion. Must be ordered separately. Specify finish.



154 Stabilizer is a two-piece interlocking set. One piece mounts on the mullion with the top mounting hole 5 3/16" (148mm) below the centerline of the strike; the other piece mounts on the door. Shims are provided to adjust for misalignment between the door and mullion.

The set maintains integrity between the door and mullion to prevent vandalism and to ensure contact between the device and strike as the doors expand and contract with temperature changes.

Furnished standard on aluminum mullions; optional for steel and all blank steel mullions.



MT54 Storage Kit is a set of floor and wall brackets that provide convenient storage of the keyed removable mullion when removed from the opening.

To Order, specify

1. Model MT54.
2. Finish SP28, SP313, or SPBLK

Coordinators - Bar Coordinators and Filler Bars

COR Series Bar Coordinators



- The COR Series Coordinators are designed for use on pairs of doors when one door needs to close before the other.
- All COR units function easily. The active door lever, located nearest to the active stop, holds the active door open until the trigger mechanism is released by the closing of the inactive leaf.
- All COR units are equipped with an override feature which allows the active door to close under extreme pressure.
- All COR units are compatible with Flush Bolts.
- The COR Series is available in five sizes for variable door opening widths.
- The COR Series does not cover the entire length of the stop, so a filler bar can be provided to maintain architecturally clean lines.
- COR Series Coordinator Channels and fillers are made of aluminum and are normally furnished in a US28 finish. Also available in US26D, and 315AN (Black).
- Meets ANSI/BHMA A156.3, Type 21A.
- UL Listed for installation on labeled frame.
- Optional Filler Bars: FL20, FL32 and FL44, available to maintain clean line.
- Optional Mounting Brackets available: MB1, MB2, MB1F, MB2F, MB3F, MB1V, MB2V, and MB3V for other stop applied hardware.

Dimensions: 1-5/8" Wide x 5/8" Deep x Ordered Length

FL Series Filler Bars

- The FL Filler Bars are available in three sizes for variable frame openings.
- FL Filler Bars are made of aluminum and are normally furnished in a US28 finish. Also available in US26D and 315AN (Black).
- FL Filler Bars are field sized to frame opening.

For Openings Where Doors Are Same Size

Coordinator Number	Length of Channel	For Opening Widths	Common Applications
COR32	32"	34" - 52"	Pair of 2'0" Doors
COR42	42"	52" - 72"	Pair of 2'6" Doors
COR52	52"	62" - 92"	Pair of 3'0" Doors
COR60	60"	70" - 108"	Pair of 3'6" Doors
COR72	72"	84" - 132"	Pair of 4'0" Doors

For Openings Where Doors Are Unequal Size

The coordinator length should equal the active door width plus approximately 1/2 the inactive door width. The coordinator must be 6" longer than the active door width and shorter than the overall frame opening between stops.



Filler Bar Number	Length
FL20	20"
FL32	32"
FL44	44"

Dimensions: 1-5/8" Wide x 5/8" Deep x Ordered Length

Coordinators - Mounting Brackets

Mounting Brackets

MB1 and MB2

- Allows stop mounted hardware to be properly installed without damaging the COR coordinator, such as a parallel arm closer or a non-fire-rated surface vertical rod strike.
- Stop mounted hardware will need to be lowered to compensate for the height of the coordinator and mounting bracket.
- MB mounting brackets are made of aluminum and normally furnished in a USP finish. Powder Coated Finishes: SP28 and SPBLK.



MB1



MB2

Product	Jamb Depth	Stop Width
MB1	4-3/4" Min	Over 2-1/2"
MB2	4-3/4" Min.	Up to 2-1/2"

Dimensions:

MB1: 4" Wide x 3" Deep x 15/16" Tall

MB2: 4" Wide x 3-1/4" Deep x 1-5/8" Tall

MB1F, MB2F and MB3F

- Allows stop mounted hardware to be properly installed without damaging the COR coordinator. Example: strike for fire-rated surface vertical rod exit device.
- Stop mounted hardware will need to be lowered to compensate for the height of the coordinator and mounting bracket.
- MBF mounting brackets are made of 3/8" thick steel and normally furnished in a USP finish. Powder Coated Finishes: SP28 and SPBLK.



MB1F



MB2F



MB3F

Product	Jamb Depth	Stop Width
MB1F	5" Min.	1-1/2" to 2-1/4"
MB2F	5-7/8" Min	2-3/8" to 3-1/4"
MB3F	6-7/8" Min.	3-3/8" and Wider

Dimensions:

MB1F: 4" Wide x 3" Deep x 1-5/8" Tall

MB2F: 4" Wide x 4" Deep x 1-5/8" Tall

MB3F: 4" Wide x 3-1/2" Deep x 1" Tall

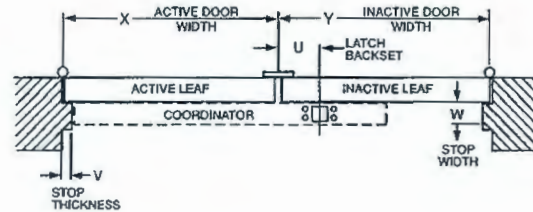
MB1V, MB2V and MB3V (not shown)

Same as MB1F, MB2F and MB3F with factory preparation for the Von Duprin 8827-F soffit latch.

Coordinators

Special Factory Preparation for Use with Vertical Rod Exit Devices

- Coordinators may need to be prepared at the factory for use with some surface and concealed vertical rod exit devices. (See Chart below)
- If exit device not listed in chart, the information shown on the illustration will be needed.



1. Exit Device Manufacturer and Model No.
2. Active Net Door Size, "X"
3. Inactive Net Door Size, "Y"
4. Exit Device Backset, "U"
5. Stop Width, "W"
6. Stop Thickness if other than 5/8", "V"

Exit Device Manufacturer	Exit Device Number	Device Backset	Maximum Active Door	Coordinator Size Needed	Coordinator Cutout Type	Mounting Bracket Needed
Von Duprin	5547-F	2-3/8"	33" 43" 51" 63"	42" 52" 60" 72"	A	None
Von Duprin	8827-F	2-3/4"	33" 43" 51" 63"	42" 52" 60" 72"	B	MB1V, MB2V or MB3V
Von Duprin	8847-F	2-3/8"	33" 43" 51" 63"	42" 52" 60" 72"	C	None
Von Duprin	33/3547 33/3547-F 98/9947 98/9947-F	2-3/4"	33" 43" 51" 64"	42" 52" 60" 72"	D	None
Von Duprin	33/3548 33/3548-F 98/9948 98/9948-F	2-3/4"	33" 43" 51" 64"	42" 52" 60" 72"	D	None
Von Duprin	33/3547WDC 33/3547WDC-F 98/9947WDC 98/9947WDC-F	1-5/16"	34" 44" 52" 65"	42" 52" 60" 72"	E	None
Monarch	17-C F-17-C 18-C F-18-C XX-C F-XX-C	2-3/4"	33" 43" 51" 63"	42" 52" 60" 72"	F	None
Monarch	17-C-WDC F-17-C-WDC 18-C-WDC F-18-C-WDC XX-C-WDC F-XX-C-WDC	2-13/16"	33" 43" 51" 63"	42" 52" 60" 72"	G	None

Ordering Guide for Bar Coordinators

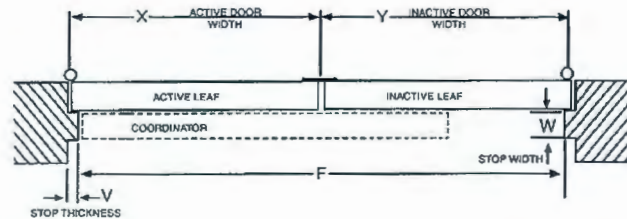
How to Order COR and Accessories

COR 52 - US28 - FL20 - D - 36" - 2-MB2

<p>COR Size: 32, 42, 52, 60, 72</p>	<p>Finishes: US28, US26D, 315AN (Black)</p>	<p>Filler Bar (if desired): FL20, FL32, FL44</p>	<p>Vertical Rod Exit Device Cutout Type (if applicable): A, B, C, D, E, F, G If other Vertical Rod Exit Device not listed on chart, from page A14, include information as shown on page A14.</p>	<p>Net Active Door Size – Required for ALL Vertical Rod Exit Device Applications</p>	<p>Mounting Bracket: Indicate quantity, then bracket. MB1, MB2, MB1F, MB2F, MB3F, MB1V, MB2V, MB3V Mounting brackets are sold and packaged separately from coordinators.</p>
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To determine the size COR you need:

1. Start with the active door size (X).
2. Next consider the overall frame opening between stops (F).
3. Preferably, the coordinator would equal the active door width (X) + approximately 1/2 inactive door width (Y). Keep in mind the coordinator must be 6" longer than the active door width (X) and less than the overall frame opening between stop (F).








Examples:

- Pair of 30" Doors, 5/8" Stops
Active Door Size, X = 30"
Overall Frame Opening between Stops, F = 58-3/4"
Recommended Coordinator: COR42
- Pair of 36" Doors, 5/8" Stops
Active Door Size, X = 36"
Overall Frame Opening between Stops, F = 70-3/4"
Recommended Coordinator: COR52
- 36" Active Door, 18" Inactive door, 5/8" Stops
Active Door Size, X = 36"
Overall Frame Opening between Stops, F = 52-3/4"
Recommended Coordinator: COR42
- 48" Active Door, 24" Inactive Door, 5/8" Stops
Active Door Size, X = 48"
Overall Frame Opening between Stops, F = 94-3/4"
Recommended Coordinator: COR60

Automatic Flush Bolts - Metal Doors

FB30 Series for Metal Doors

- Fully Automatic—inactive door is latched when active door closes, bolts retract when active door is opened.
- Low Actuation Forces—Top Bolt Has No Spring Tension.
- UL Listed for Fire Doors.
- Fits standard ANSI A115.4 Door Frame Preparations.
- Non-handed.
- Models with Auxiliary Fire Latch eliminates the bottom bolt and is UL Listed for Fire Doors.
- Finishes: US3, US4, US10, US10B, US32, US32D.
- Finished Cover Plates permit finish changes in stock or at job site.
- Bolts have 3/4" throw with a 7/8" vertical adjustment.
- Standard Rod Length is 12", which is measured from the center of the flush bolt body to the bolt tip.
- Meets ANSI A156.3 Type 25.
- Optional Dust Proof Strikes—DP1 or DP2, prevents dirt build-up assuring full engagement of bottom bolt.
- Optional rod lengths available for top bolt for non-fire rated openings—18", 24", 36" and 48".

				
<p>FB31P Pair</p> <p>Top and Bottom Bolts</p> <p>Both bolts are non-handed, but are not identical. The top bolt has no spring tension, resulting in lower actuation force with a smoother operation.</p>	<p>FB32</p> <p>Top Bolt with Auxiliary Fire Latch</p> <p>FB32 combination includes FB31T Top Bolt with auxiliary fire latch. Provides a fire-listed application without a bottom bolt—meaning no floor prep and strike. The auxiliary fire latch, mounted in the door edge, releases under extremely high temperatures to keep the doors in alignment during a fire.</p>	<p>FB33</p> <p>Top Bolt with Auxiliary Fire Latch and Retrofit Plate</p> <p>FB33 used to update existing flush bolt installations with auxiliary fire latch eliminating bottom bolt and floor strike. FB33 consists of FB31T Top Bolt, auxiliary Fire Latch and Filler plate to cover existing cutout when bottom bolt is removed.</p>	<p>FB31T</p> <p>Top Bolt Only</p>	<p>FB31B</p> <p>Bottom Bolt Only</p>
<ul style="list-style-type: none"> • UL Listed 3 hours on 8'0" x 10'0" Opening 	<ul style="list-style-type: none"> • UL Listed 3 hours on 8'0" x 8'0" Opening 	<ul style="list-style-type: none"> • UL Listed 3 hours on 8'0" x 8'0" Opening 		

Dimensions:





Body Size: 1" Wide x 6-3/4" Long x 2" Deep
 Guide Size: 1" Wide x 1-27/32" Long x 27/32" High x 3/32" Thick
 Strike Size: 15/16" Wide x 2-1/4" Long x 1/16" Thick
 Rub Plate Size: 1-1/4" Wide x 1-11/16" Long x 3/64" Thick
 Auxiliary Fire Latch Size: 1" Wide x 1-3/4" Long x 3-1/4" Deep
 Filler Plate Size: 1" Wide x 6-3/4" Long x 3/32" Thick

Automatic Flush Bolts - Wood Doors

FB40 Series for Wood Doors

- Fully Automatic—inactive door is latched when active door closes, bolts retract when active door is opened.
- Low Actuation Forces—Top Bolt Has No Spring Tension.
- UL Listed for Fire Doors.
- Non-handed.
- Models with Auxiliary Fire Latch eliminates the Bottom Bolt and is UL Listed for Fire Doors.

- Finishes: US3, US4, US10, US10B, US32, US32D.
- Finished Cover Plates permit finish changes in stock or at job site.
- Bolts have 3/4" throw with a 7/8" vertical adjustment.
- Meets ANSI A156.3 Type 25.
- Optional Dust Proof Strikes—DP1 or DP2, prevents dirt build-up assuring full engagement of bottom bolt.

			
<p>FB41P Pair</p> <p>Top and Bottom Bolts</p> <p>Both bolts are non-handed, but are not identical. The top bolt has no spring tension, resulting in lower actuation force with a smoother operation.</p>	<p>FB42</p> <p>Top Bolt with Auxiliary Fire Latch</p> <p>FB42 combination includes FB41T Top Bolt with auxiliary fire latch. Provides a fire-listed application without a bottom bolt— meaning no floor prep for strike. The auxiliary fire latch, mounted in the door edge, releases under extremely high temperatures to keep the doors in alignment during a fire.</p>	<p>FB41T</p> <p>Top Bolt Only</p>	<p>FB41B</p> <p>Bottom Bolt Only</p>
<p>• UL Listed 90 minutes on 8'0" x 8'0" Opening</p>	<p>• UL Listed 20 minutes on 8'0" x 8'0" Opening</p>		

Dimensions:

Body Size: 1" Wide x 8-1/2" Long x 2" Deep

Guide Size: 1" Wide x 6" Long x 1/8" Thick

Strike Size: 15/16" Wide x 2-1/4" Long x 1/16" Thick





Rub Plate Size: 1-1/4" Wide x 1-11/16" Long x 3/64" Thick

Auxiliary Fire Latch Size: 1" Wide x 1-3/4" Long x 3-1/4" Deep

Constant Latching Flush Bolts - Metal Doors

FB50 Series for Metal Doors

- Constant Latching—inactive door remains latched until the active door is opened, releasing the automatic bottom bolt and then the top bolt can be manually released. Inactive door will relatch automatically when closed.
- Low Actuation Forces.
- UL Listed for Fire Doors.
- Fits standard ANSI A115.4 Door and Frame Preparations.
- Non-handed.
- Models with Auxiliary Fire Latch eliminates the bottom bolt and is UL Listed for Fire Doors.
- Finishes: US3, US4, US10, US10B, US32, US32D.
- Finished Cover Plates permit finish changes in stock or at job site.
- Bolts have 3/4" throw with a 7/8" vertical adjustment.
- Meets ANSI A156.3 Type 27.
- Standard Rod Length is 12", which is measured from the center of the flush bolt body to the bolt tip.
- Optional Dust Proof Strikes—DP1 or DP2, prevents dirt build-up assuring full engagement of bottom bolt.
- Optional rod lengths available for top bolt for non-fire rated openings—18", 24", 36" and 48".

			
<p>FB51P Pair</p> <p>Top and Bottom Bolts</p> <p>FB51P combines FB51T constant latching top bolt with FB31B automatic bottom bolt. Non-handed.</p>	<p>FB52</p> <p>Top Bolt with Auxiliary Fire Latch</p> <p>FB52 combination includes FB51T Top Bolt with auxiliary fire latch. Provides a fire-listed application without a bottom bolt—meaning no floor prep for strike. The auxiliary fire latch, mounted in the door edge, releases under extremely high temperatures to keep the doors in alignment during a fire.</p>	<p>FB53</p> <p>Top Bolt with Auxiliary Fire Latch and Retrofit Plate</p> <p>FB53 used to update existing flush bolt installations with auxiliary fire latch eliminating bottom bolt and floor strike. FB53 consists of FB51T top bolt, auxiliary fire latch and filler plate to cover existing cutout when bottom bolt is removed.</p>	<p>FB51T</p> <p>Top Bolt Only</p>
<ul style="list-style-type: none"> • UL Listed 3 hours on 8'0" x 10'0" Opening. 	<ul style="list-style-type: none"> • UL Listed 3 hours on 8'0" x 8'0" Opening. 	<ul style="list-style-type: none"> • UL Listed 3 hours on 8'0" x 8'0" Opening. 	




Dimensions:

Body Size: 1" Wide x 6-3/4" Long x 2" Deep
 Guide Size: 1" Wide x 1-27/32" Long x 11/16" High x 3/32" Thick
 Strike Size: 15/16" Wide x 2-1/4" Long x 1/16" Thick
 Rub Plate Size: 1-1/4" Wide x 1-11/16" Long x 3/64" Thick
 Auxiliary Fire Latch Size: 1" Wide x 1-3/4" Long x 3-1/4" Deep
 Filler Plate Size: 1" Wide x 6-3/4" Long x 3/32" Thick

Constant Latching Flush Bolts - Wood Doors

FB60 Series for Wood Doors

- Constant Latching—inactive door remains latched until the active door is opened, releasing the automatic bottom bolt and then the top bolt can be manually released. Inactive door will relatch automatically when door closes.
- Low Actuation Forces.
- UL Listed for Fire Doors.
- Non-handed.
- Models with Auxiliary Fire Latch eliminates the bottom bolt and is UL Listed for Fire Doors.
- Finishes: US3, US4, US10, US10B, US32, US32D.
- Finished Cover Plates permit finish changes in stock or at job site.
- Bolts have 3/4" throw with a 7/8" vertical adjustment.
- Meets ANSI A156.3 Type 27.
- Optional Dust Proof Strikes—DP1 or DP2, prevents dirt build-up assuring full engagement of bottom bolt.

		
<p>FB61P Pair Top and Bottom Bolts FB61P combines FB61T constant latching top bolt with FB41B bottom bolt.</p>	<p>FB62 Top Bolt with Auxiliary Fire Latch FB62 combination includes FB61T top bolt with Auxiliary Fire Latch. Provides a fire-listed application without a bottom bolt—meaning no floor prep for strike. The Auxiliary Fire Latch, mounted in the door edge, releases under extremely high temperatures to keep the doors in alignment during a fire.</p>	<p>FB61T Top Bolt Only</p>
<ul style="list-style-type: none"> • UL Listed 90 minutes on 8'0" x 8'0" Opening 	<ul style="list-style-type: none"> • UL Listed 20 minutes on 8'0" x 8'0" Opening 	

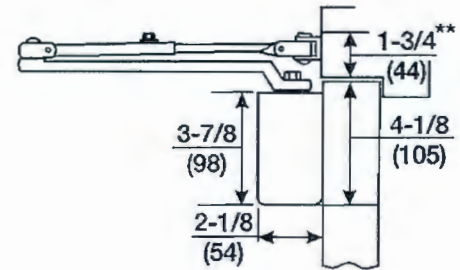
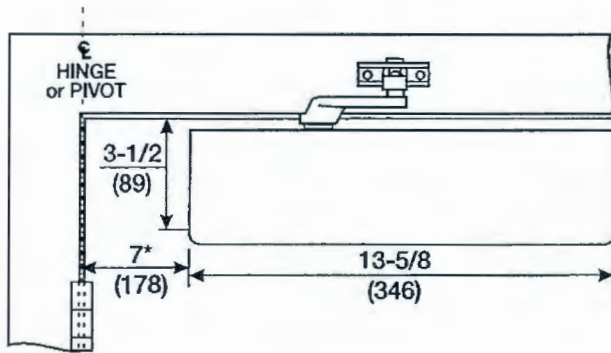
Dimensions:

Body Size: 1" Wide x 8-1/2" Long x 2" Deep
 Guide Size: 1" Wide x 6" Long x 1/8" Thick
 Strike Size: 15/16" Wide x 2-1/4" Long x 1/16" Thick
 Rub Plate Size: 1-1/4" Wide x 1-11/16" Long x 3/64" Thick
 Auxiliary Fire Latch Size: 1" Wide x 1-3/4" Long x 3-1/4" Deep

7500/7700 Series Door Closers



REGULAR ARM



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.
 * For doors opening up to 100°
 ** This dimension will vary. Standard non-hold open arm illustrated.

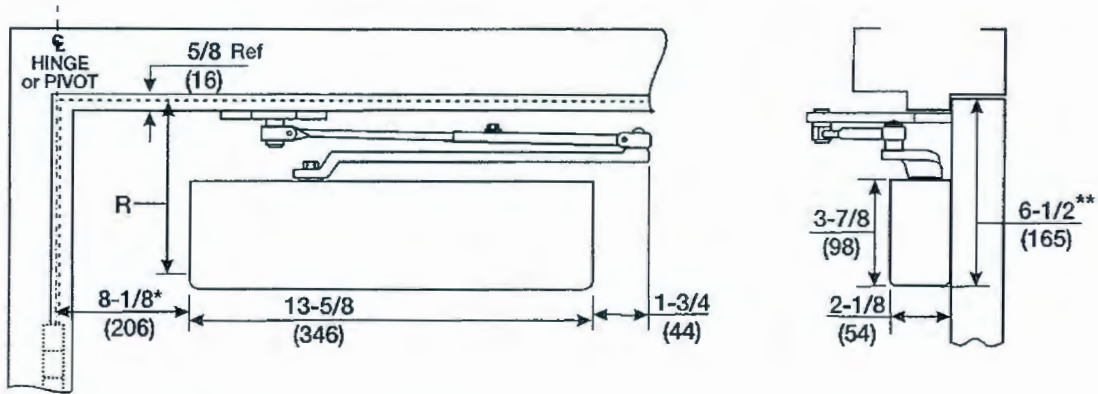
Maximum Door Width Inches (cm)		Model Number			
		Sized Closers		Multi-Sized Closers	
Interior	Exterior	Non-Hold Open	Hold Open	Non-Hold Open	Hold Open
32" (81)	30" (76)	7702	7702H	7500	7500H
38" (97)	34" (86)	7703	7703H		
48" (122)	42" (107)	7704	7704H		
54" (137)	48" (122)	7705	7705H		
Unusual Conditions		7706	7706H		

Note: 7500 door closers are set at midpower range from the factory and can be adjusted for door sizes noted above.

7500/7700 Series Door Closers



PARALLEL ARM



Mounting holes for closer body are spaced 2-3/8" (86mm) vertically x 6-3/4" (171mm) horizontally.

* For doors opening up to 100°.

** This dimension will vary. Standard non-hold open arm illustrated.

Maximum Door Width Inches (cm)		Model Number			
		Sized Closers		Multi-Sized Closers	
		Non-Hold Open	Hold Open	Non-Hold Open	Hold Open
Interior	Exterior				
30" (76)	—	P7702	P7702H	7500	7500H
36" (91)	30" (76)	P7703	P7703H		
42" (107)	36" (91)	P7704	P7704H		
48" (122)	42" (107)	P7705	P7705H		
54" (122)	48" (122)	P7706	P7706H		

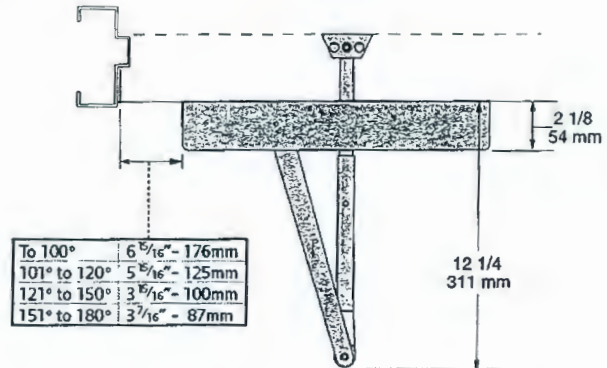
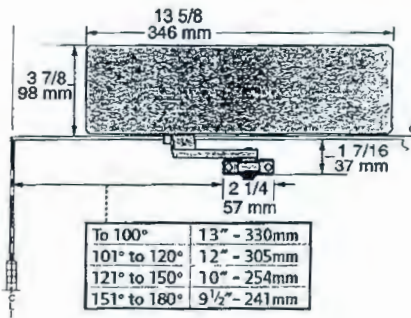
Note: 7500 door closers are set at midpower range from the factory and can be adjusted for door sizes noted above.

R (inches/mm) Minimum Top Rail of Door with 5/8" (16mm) Frame Stop				
Without Drop Plate			With 7788 Drop Plate	
P7700	P7700H	P7780	P7700H	P7780
5-7/8" (149)	6-1/4" (159)	5-3/8" (137)	2-3/4" (70)	1-7/8" (48)

SC70 SERIES ARCHITECTURAL DIAGRAMS

FALCON

SC70 Series Top Jamb (Push Side)



Butt Hinges should not exceed 5" (127mm) in width.

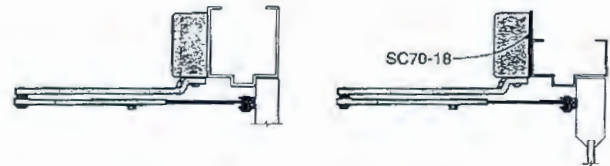
Auxiliary Stop is recommended at hold-open point or where a door cannot swing 180°.

Reveal should not exceed 3 1/4" (83mm) for regular arm or hold-open arm.

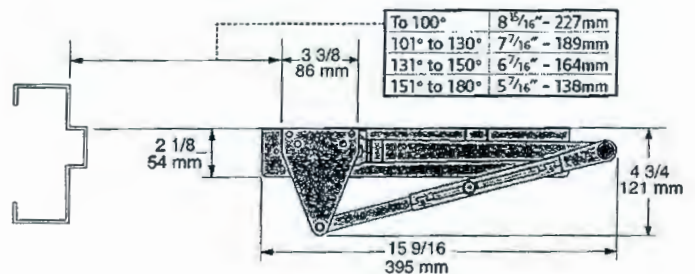
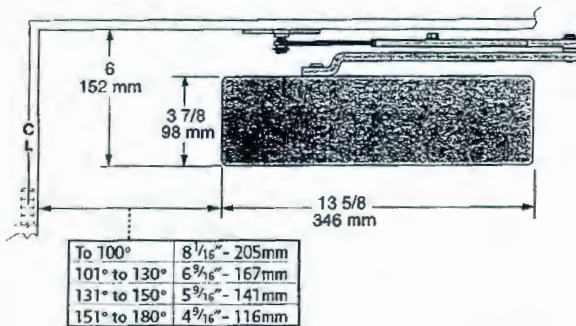
Top Rail of 1 1/2" (38mm) required.

Head Frame less than 3 7/8" (98mm) requires plate SC70-18.

Delayed Action add suffix "DEL" to selected cylinder (ex. SC70 DEL) Delays closing from maximum opening to approx. 70°, with adjustable delay time



SC70 Series Parallel (Push Side)

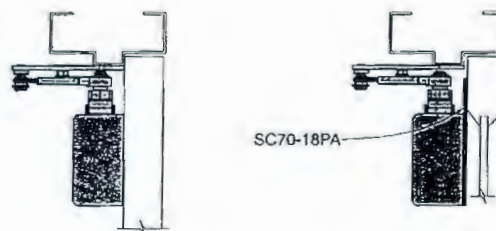


Butt Hinges should not exceed 5" (127mm) in width.

Auxiliary Stop is recommended at hold-open point or where a door cannot swing 180°.

Top Rail less than 6" (152mm) measured from stop requires plate SC70-18PA.

Delayed Action add suffix "DEL" to selected cylinder (ex. SC70 DEL). Delays closing from maximum opening to approx. 70°, with adjustable delay time.

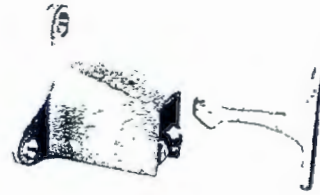


Automatic Wall Holders

WS40

Features:

- Constructed of sturdy cast brass, or aluminum.
- Holder is mounted on wall and strike is mounted on door.
- Roller on holder rides up seats itself on strike, with a heavy duty bumper pad deadening the sound and shock.
- Universal screw pack accommodates all types wall construction.
- Meets ANSI/BHMA 156.16, L11291.
- Finishes: US3, US4, US10, US10B, US26, US26D, US28.



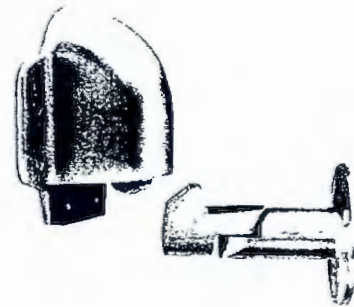
Product No.	Base Height	Base Width	Base Projection	Engaged Projection	Strike Height	Strike Width	Strike Projection
WS40	2"	2-1/2"	2-1/4"	3-1/2"	2-1/16"	3/4"	2"

WS45

WS45X

Features:

- Constructed of cast brass, bronze or aluminum.
- Spring loaded roller rides up the face of the strike, seating itself on the strike, holding the door firmly in the open position.
- A heavy rubber pad cushions the shock and absorbs the sound.
- With unit mounted on door and the strike on wall, vertical adjustment is available on body.
- The strike is adjustable 45 degrees left or right, both adjustments easily accomplished at time of installation or at a later date.
- WS45 strike is furnished with 3 countersunk mounting holes.
- WS45X strike is furnished with a threaded stud and expansion shield for masonry type mounting.
- Meets ANSI/BHMA 156.16, L11291.
- Finishes: US3, US4, US10, US10B, US26, US26D, US28.



Product No.	Base Height	Base Width	Base Projection	Engaged Projection	Strike Diameter	Strike Projection
WS45	3-11/16"	3"	2"	3-7/16"	2-3/8"	3"
WS45X	3-11/16"	3"	2"	3-7/16"	2-3/8"	3"

Floor Door Stop & Automatic Holder

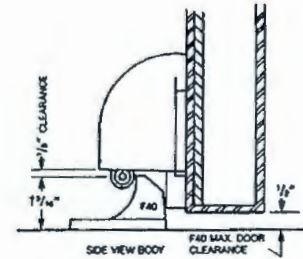
FS40
FS41
FS42
FS43

Features:

- Automatic door holders ideal for heavy-traffic situations that require a simple, fool-proof, Hold-Open device.
- Forged from brass.
- Unit is activated automatically when door is opened. A firm pull on door releases the mechanism.
- Strikes accommodate different door to floor clearances.
- Model numbers are determined by strike/door-to-floor clearances.
- Holder position on door is adjustable.
- Universal screw pack allows for installation in all types of door construction.
- Meets ANSI/BHMA 156.16, L11301.
- Finishes: US3, US4, US10, US10B, US26, US26D.

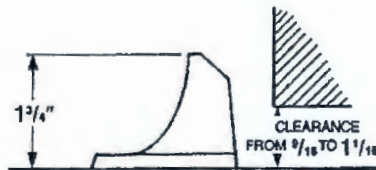


Product No.	Door to Floor Clearance	Holder Dimensions
FS40	1/2" or less	3" Wide x 3-11/16" High
FS41	9/16" to 1-1/16"	3" Wide x 3-11/16" High
FS42	1-1/8" to 1-9/16"	3" Wide x 3-11/16" High
FS43	1-5/8" to 2-1/16"	3" Wide x 3-11/16" High

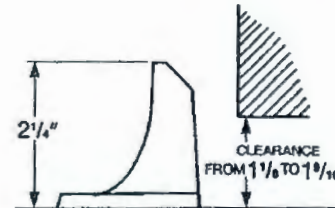


FS40

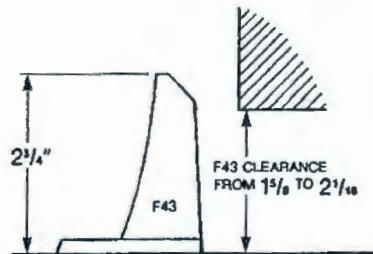
Optional Strike Details



FS41



FS42



FS43

Floor Stops – Dome

FS436 Dome Stop

Features:

- For doors without threshold.
- Heavy-Duty Cast Dome Stops constructed of brass, bronze or aluminum.
- Gray, non-marring rubber bumper.
- Packed with wood screw and plastic anchor, specify Tampin (TPN) or lead expansion shield (LS), if required.
- Meets ANSI/BHMA 156.6, L12141 for brass or bronze and L32141 for aluminum.
- Finishes: US3, US4, US5, US10, US10B, US14, US15, US15A, US26, US26D and US28.



Product No.	Overall Height	Base Height	Base Diameter
FS436	1"	3/16"	1-3/4" x 2" Oval

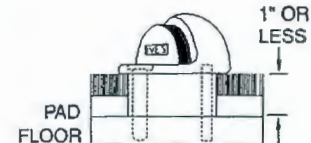
R435 Riser

Features:

- Extruded aluminum, mill finish.
- For conversion of FS436 Dome Stop to carpet installation.
- Packed with wood screws, lead shield and stud. Specify Tampin (TPN) if required.
- Available in 1/4", 3/8", 1/2", 5/8", 3/4" and 1" height.



Product No.	Size
R435	1" x 1-3/8" Oval



How to Order:

FS

Model:

- 436 Dome Stop Only
- 435 Riser Only
- 436 x 435 Dome Stop & Riser

Riser Size:

- Blank No riser
- 1/4 for 1/4"
- 3/8 for 3/8"
- 1/2 for 1/2"
- 5/8 for 5/8"
- 3/4 for 3/4"
- 1 for 1"

Finishes:

US3, US4, US5, US10, US10B, US14, US15, US15A, US26, US26D, US28

Mounting:

- Blank Standard
- TPN Tampin
- LS Lead Expansion Shield

Floor Stops

FS18S FS18L

Features:

- Security Door Stops designed for use in high vandalism areas.
- Molded from flame resistant, resilient material around a heavy-duty stud.
- Once grouted in concrete, leaves no exposed fasteners to be tampered with or removed.
- Ideal for jail or security cell areas where floor mounted stops are required.
- FS18L also ideal for concrete wall applications.
- Finish: Black.

Product No.	Stop Height	Stop Diameter	Stud Length
FS18S	1-1/2"	2"	2-1/2"
FS18L	3-1/2"	2"	2-1/2"



FS18S



FS18L

FS434

Features:

- Burnished wrought steel.
- Soft, resilient gray rubber.
- For undercut doors up to 1-1/2".
- Packed with screws and plastic anchors.
- Finishes: US2C, US10.

Product No.	Overall Height	Base Size
FS434	2-5/8"	1-1/2" W x 2-3/4" L



Wall Bumpers

WS401 CVX & WS402 CVX WS401 CCV & WS402 CCV

Features:

- Constructed in heavy-duty cast brass or aluminum base.
- Special retainer cup makes rubber tamper resistant.
- The WS401CVX unit is designed with a convex rubber bumper, packed with wood screw and plastic anchor.
- The WS401CCV unit is designed with a concave rubber bumper which avoids damage to locks with projecting buttons, packed with wood screw and plastic anchor.
- The WS402CVX unit is designed with a convex rubber bumper packed with screw and drywall anchor.
- The WS402CCV unit is designed with a concave rubber bumper which avoids damage to locks with projecting buttons and is packed with screw and drywall anchor.
- WS401CVX & WS402CVX meets ANSI/BHMA 156.16 L12101 for brass and L32101 for aluminum.
- WS401CCV & WS402CCV meets ANSI/BHMA 156.16 L12251 for brass and L32251 for aluminum.
- Finishes: US3, US4, US5, US10, US10B, US14, US15, US15A, US26, US26D, US28.

Product No.	Mounting Hardware	Base Diameter	Base Thickness	Overall Projection
WS401CVX	Wood screw, plastic anchor	2-1/2"	3/8"	1"
WS401CCV	Wood screw, plastic anchor	2-1/2"	3/8"	1"
WS402CVX	Screw, Drywall Anchor	2-1/2"	3/8"	1"
WS402CCV	Screw, Drywall Anchor	2-1/2"	3/8"	1"



WS401CVX & WS402CVX



WS401CCV & WS402CCV

WS404CVX

Features:

- Constructed in cast brass.
- Compact size.
- Totally concealed mounting discourages vandalism or tampering.
- Unit furnished with grey convex rubber bumper.
- Packed with sheet metal screw, rawl plug and brad.
- Finishes: US3, US4, US5, US10, US10B, US14, US15, US15A, US26, US26D, US28.



Product No.	Base Diameter	Overall Projection
WS404CVX	1"	17/32"





Architectural Door Trim

Series 8400 Door Protection Plates

.050" Thickness

Features:

- Door Protection Plates are fabricated from the finest architectural aluminum, brass, and stainless steel, or 1/8" thick clear acrylic plastic or black or brown high impact polyethylene.
- All aluminum, brass, bronze and stainless steel Door Protection Plates meet ANSI A156.6 requirements for .050" thickness.
- Optional Beveling—For beveling of top and two sides of plates suffix with B3E, and for beveling of four sides suffix with B4E. Plastic plates are beveled on all four sides as standard.
- Each plate is packaged carefully wrapped in strong kraft paper with #6 x 5/8" oval head, undercut sheet metal screws plated to match, for easy installation on hollow metal, laminate, or wood doors. All plates are packaged in heavy duty corrugated cardboard; larger plates are enclosed in a wooden frame.
- Use No. 8401 Kickplate Gasket Tape as a buffer between brass kickplates and metal doors to help prevent tarnishing which may result from electrolytic oxidation. One package provides enough double-sided adhesive-backed foam tape for the perimeter of an 8" x 34" plate.
- Finishes:
Brass: B3, B4, B5, B10, B10B (for heights over 24", check with customer service)
Stainless Steel: S32D, S32
Aluminum: PA28
Plastic: BLK, BRN, CLR

			
<p>Mop Plates</p> <ul style="list-style-type: none"> • Protect the bottom of the pull side of door subject to cleaning and mopping procedures. • Size Ranges: 4" to 6" high, 22" to 48" wide 	<p>Kick Plates</p> <ul style="list-style-type: none"> • Protect the bottom of the push side of doors subject to scuffing from foot traffic. • Recommended for all doors subject to normal use (especially doors using a closer). • Size Ranges: 8" to 24" high, 22" to 48" wide 	<p>Stretcher Plates</p> <ul style="list-style-type: none"> • Protect doors at specific areas where consistent contact is made by stretchers, service carts or other equipment. • Usually applied to push side of doors. • Specify "B4E" Option for beveled edges. • Size Ranges: 6" to 8" high, 22" to 48" wide 	<p>Armor Plates</p> <ul style="list-style-type: none"> • Protect lower half of doors from abuse by hard carts, trucks and rough usage. • Usually applied to push side of single doors and both sides of double acting doors. • Size Ranges: 26" to 48" high, 22" to 48" wide

How to Order

8400

X

Finish

Height:

4" up to 48" in 1/2" increments
(For brass kick plates over 24", check with customer service.)

Width:

22" up to 48" in 1/2" increments

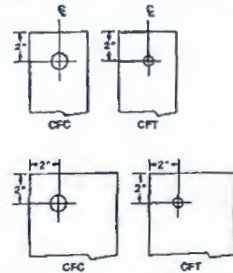
Options: (Only for metal plates)

B3E for Bevel Top and 2 Edges
B4E for Bevel 4 Edges
CS for Counter Sink Holes
ES for Extra row of Screws

Architectural Door Trim

8200 Series Push Plates and 8300 Series Pull Plates

- Made from the finest architectural aluminum, brass, and stainless steel.
- For Push Plate sizes other than listed, contact our Customer Service Department or your local sales representative.
- All aluminum, brass, and stainless steel Push Plates meet ANSI A156.6 requirements for .050" thickness.
- Each Push Plate is packaged individually wrapped with mounting screws.
- For special mounting methods other than standard, see pages C11 - C13.



Push and Pull Plates Cut for Cylinder or Thumbturns

- All plates may be ordered with cutout for cylinder or thumbturn. Standard cutouts are positioned 2" from top of plate and centered on plates up to 4" wide or 2" from edge on plates over 4" wide. Specify hand of door when ordering cutout for plates wider than 4". On pull plates, if the pulls center-to-center dimension interferes with the cutout for the cylinder or thumbturn, please provide drawing of cutout location when ordering.
- Standard size for cylinder cutouts is 1-1/4" diameter and for thumbturn cutout is 3/8" diameter.
- When ordering, add suffix CFC for cut for cylinder, and CTC for cut for thumbturn to product number.

How to Order

Model:

- 200 Push Plate,
300 Pull Plate, less pull

Hole Spacing: (for Pull Plate only)

- 5 for 5-1/4"
6 for 6"
8 for 8"
0 for 10"

Finishes:

- US3, US4, US5, US10, US10B, US15, US15A,
US26, US26D, US28, US32, US32D

Size:

- 3 x 12, 3-1/2 x 15, 4 x 16, 6 x 16, 8 x 16

Special Options: (specify handing for plates over 4" wide)

- CFC Cylinder cutout
CTC Thumbturn cutout

8200 Push Plate
8300 Pull Plate (less pull)

Available Sizes

3" x 12"

3.5" x 15"

4" x 16"


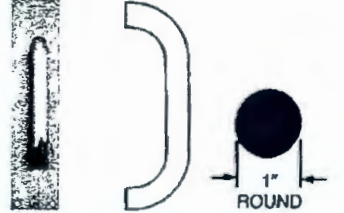
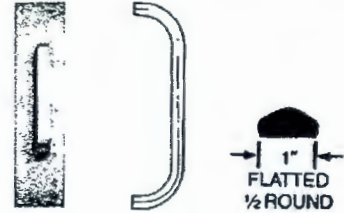
6" x 16"

8" x 16"

Architectural Door Trim

8300 Series Pull Plates

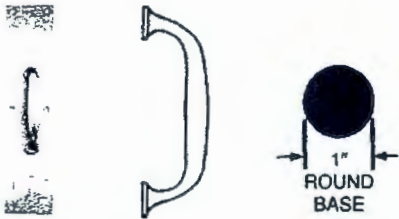

- Made from the finest architectural aluminum, brass and stainless steel.
- For Pull Plate sizes other than listed, contact our Customer Service Department or your local sales representative.
- All aluminum, brass, and stainless steel Pull Plates meet ANSI A156.6 requirements for .050" thickness.
- Each Pull Plate is packaged individually wrapped with mounting screws.
- Pulls are centered on plates up to 4" wide and offset 2" from edge of plates wider than 4".
- For special mounting methods other than standard, see pages C11 - C13.

 <p>8302 Pull Plate</p> <ul style="list-style-type: none"> • 8300 Plate 3-1/2" x 15" 4" x 16" 6" x 16" • 8102 Pull 6" centers 8" centers 10" centers 	 <p>8303 and 8303EZ Pull Plate</p> <ul style="list-style-type: none"> • 8300 Plate 3-1/2" x 15" 4" x 16" 6" x 16" • 8103 Pull 8" centers 10" centers 	 <p>8305 Pull Plate</p> <ul style="list-style-type: none"> • 8300 Plate 3-1/2" x 15" 4" x 16" 6" x 16" • 8105 Pull 6" centers 8" centers 10" centers 																				
<p>How to Order</p> <p style="text-align: right;">83 - - - - -</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Pull Style:</td> <td>02 for 8102</td> </tr> <tr> <td></td> <td>03 for 8103</td> </tr> <tr> <td></td> <td>05 for 8105</td> </tr> <tr> <td>Pull Center to Center:</td> <td>6 for 6" (not available on 8303)</td> </tr> <tr> <td></td> <td>8 for 8"</td> </tr> <tr> <td></td> <td>0 for 10"</td> </tr> <tr> <td>Finishes:</td> <td>US3, US4, US5, US10, US10B, US15, US15A, US26, US26D, US28, US32D</td> </tr> <tr> <td>Size:</td> <td>3-1/2" x 15", 4" x 16", 6" x 16"</td> </tr> <tr> <td>Special Options: (Handing needed for 6" x 16", LH or RH)</td> <td>CFC Cylinder cutout CTC Thumbturn cutout</td> </tr> <tr> <td>Mounting:</td> <td>Blank Standard F Concealed pull wood doors w/push plate (special. Not available 8303EZ.) G Concealed pull plate (Only available 8302, 8303 and 8303EZ) I Concealed pull wood door (not available 8305 and 8303EZ) J Back to back pull (not available 8305 and 8303EZ)</td> </tr> </table>			Pull Style:	02 for 8102		03 for 8103		05 for 8105	Pull Center to Center:	6 for 6" (not available on 8303)		8 for 8"		0 for 10"	Finishes:	US3, US4, US5, US10, US10B, US15, US15A, US26, US26D, US28, US32D	Size:	3-1/2" x 15", 4" x 16", 6" x 16"	Special Options: (Handing needed for 6" x 16", LH or RH)	CFC Cylinder cutout CTC Thumbturn cutout	Mounting:	Blank Standard F Concealed pull wood doors w/push plate (special. Not available 8303EZ.) G Concealed pull plate (Only available 8302, 8303 and 8303EZ) I Concealed pull wood door (not available 8305 and 8303EZ) J Back to back pull (not available 8305 and 8303EZ)
Pull Style:	02 for 8102																					
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Pull Center to Center:	6 for 6" (not available on 8303)																					
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Finishes:	US3, US4, US5, US10, US10B, US15, US15A, US26, US26D, US28, US32D																					
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Mounting:	Blank Standard F Concealed pull wood doors w/push plate (special. Not available 8303EZ.) G Concealed pull plate (Only available 8302, 8303 and 8303EZ) I Concealed pull wood door (not available 8305 and 8303EZ) J Back to back pull (not available 8305 and 8303EZ)																					

Architectural Door Trim

8300 Series Pull Plates

- Made from the finest architectural aluminum, brass and stainless steel.
- For Pull Plate sizes other than listed, contact our Customer Service Department or your local sales representative.
- All aluminum, brass and stainless steel Pull Plates meet ANSI A156.6 requirements for .050" thickness.
- Each Pull Plate is packaged individually wrapped with mounting screws.
- Pulls are centered on plates up to 4" wide and offset 2" from edge of plates wider than 4".
- For special mounting methods other than standard, see pages C11 - C13.

	
<p>8311 Pull Plate</p> <ul style="list-style-type: none"> • 8300 Plate 3-1/2" x 15" 4" x 16" 6" x 16" • 8111-5 Pull 5-1/4" centers 	<p>8314 Pull Plate</p> <ul style="list-style-type: none"> • 8300 Plate 3-1/2" x 15" 4" x 16" 6" x 16" • 8114-5 Pull 5-1/4" centers

How to Order

83 - 5 - - - -

Pull Style:

- 11 for 8111
- 14 for 8114

Finishes:

- US3, US4, US5, US10, US10B, US15, US15A, US26, US26D, US28, US32D

Size:

- 3-1/2" x 15", 4" x 16", 6" x 16"

Special Options: (Handing needed for 6" x 16", LH or RH)

- CFC Cylinder cutout
- CTC Thumbturn cutout

Mounting:

- Blank Standard
- F Concealed pull wood doors w/push plate (special)
- G Concealed pull plate

Lock Guards

LG10 thru LG12

LG10

- Ideally suited for use with rose or escutcheon 2-3/4" wide or less.
- For use with Type 86 Mortise and Type 161 Cylinder Locks (ANSI 156.13 Series 1000 and ANSI 156.2 Series 4000).
- No exposed fasteners on face of unit.
- Unique design provides maximum security, virtually eliminating the opening between door and frame at the latch point.
- Available in 13 Gauge Stainless Steel or 12 Gauge Steel.
- Finishes: Stainless Steel—US32D
Steel—USP



Dimensions:
9-1/2" Tall x 2-1/2" Wide

LG11

- Designed for use on aluminum doors with latch-type locks or doors equipped with electric strikes.
- Unit is Handed - Specify left or right hand when ordering.
- No exposed fasteners on face of unit.
- Unique design provides maximum security, virtually eliminating the opening between door and frame at latch point.
- Available in 13 Gauge Stainless Steel or 12 Gauge Steel.
- Finishes: Stainless Steel—US32D
Steel—SP313 (Dark Bronze)



Dimensions:
9-1/2" Tall x 3" Wide

LG12

- Narrow design unit for use on rose or escutcheon 3-1/2" or less.
- For use with Type 86 Mortise and Type 161 Cylinder Locks (ANSI 156.13 Series 1000 and ANSI 156.2 Series 4000).
- No exposed fasteners on face of unit.
- Unique design provides maximum security, virtually eliminating the opening between door and frame at the latch point.
- Available in 13 Gauge Stainless Steel or 12 Gauge Steel
- Finishes: Stainless Steel—US32D
Steel—USP



Dimensions:
9-1/2" Tall x 1-1/2" Wide

Door Silencers



SR64

Features:

- For use on metal frames featuring pneumatic design that, once installed, forms an air pocket to absorb shock and reduce noise of door closing.
- Tamper-proof once installed on the frame.
- Proper installation also eliminates door rattle and provides constant tension for door latches or locks.
- Packed in bags of 100. Grey also available in bulk pack of 2500.
- Each bag has an installation tool included.
- Meets ANSI/BHMA 156.16, L03011.
- Finish: grey is standard. Black optional.

Product No.	Diameter	Thickness
SR64	1/2"	1/8"



SR65

Features:

- For use on wood frames, also feature pneumatic design to cushion shock and absorb noise.
- To prevent removal, a small brad should be driven into stop strip and through stem of silencer, as shown in the detail.
- Packed in bags of 100.
- Meets ANSI/BHMA 156.16, L03021
- Finish: grey.

Product No.	Height	Width	Thickness
SR64	3/4"	3/8"	1/8"



SR66

Features:

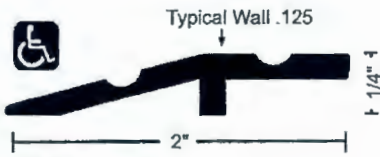
- Self Adhesive Rubber Silencers.
- Economical installation requires no drilling of frames.
- Packed in sheets of 100.
- Finishes: brown, grey, white.

Product No.	Diameter	Thickness
SR66	1/2"	1/8"

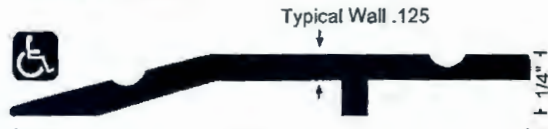
THRESHOLDS

NATIONAL GUARD PRODUCTS, INC.

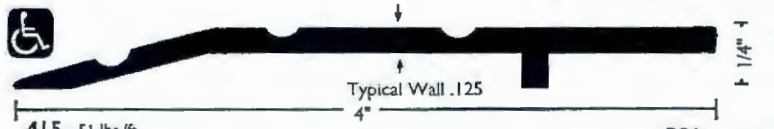
All thresholds this page



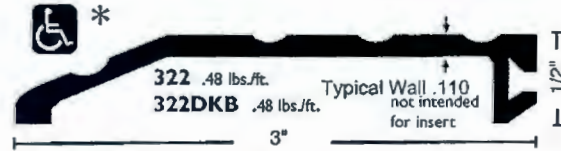
215 .29 lbs./ft.
215DKB .29 lbs./ft.



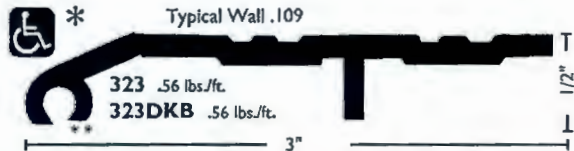
315 .44 lbs./ft.
315DKB .44 lbs./ft.



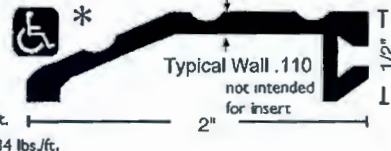
415 .51 lbs./ft.
415DKB .51 lbs./ft.



322 .48 lbs./ft.
322DKB .48 lbs./ft.



323 .56 lbs./ft.
323DKB .56 lbs./ft.



321 .34 lbs./ft.
321DKB .34 lbs./ft.

MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish

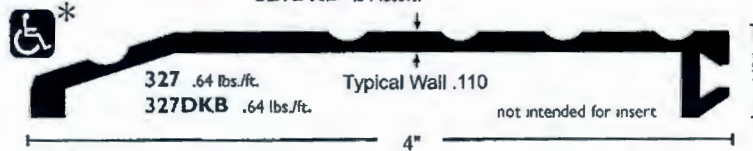
Slip Resistant SIA Finish



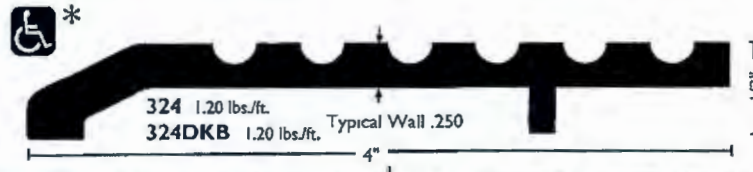
All thresholds are available with our slip resistant, non-skid finish for better traction. Suffix "SIA".



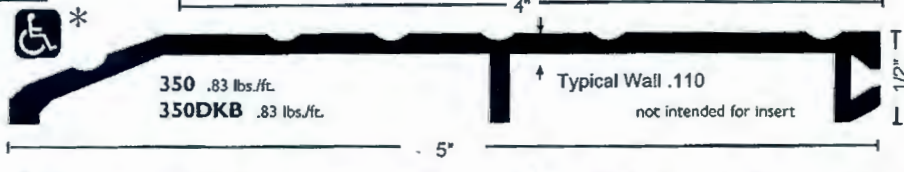
VINYL FOOT SEAL
 used instead of caulking to increase the weather resistance of the threshold. Specify on order



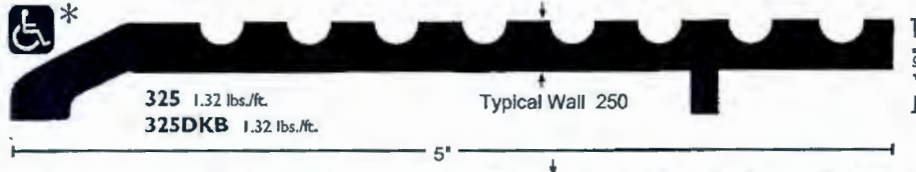
327 .64 lbs./ft.
327DKB .64 lbs./ft.



324 1.20 lbs./ft.
324DKB 1.20 lbs./ft.

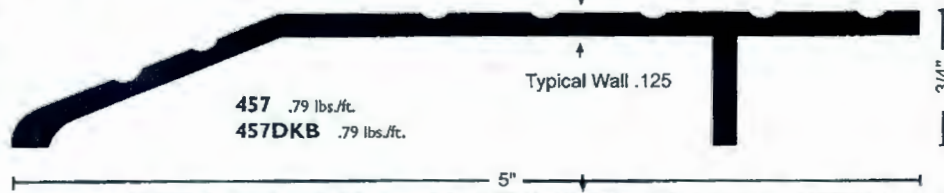


350 .83 lbs./ft.
350DKB .83 lbs./ft.



325 1.32 lbs./ft.
325DKB 1.32 lbs./ft.

* when installed with the non-beveled edge **FLUSH** with flooring, or where no greater than 1/4" vertical rise occurs.



457 .79 lbs./ft.
457DKB .79 lbs./ft.



458 1.11 lbs./ft.
458DKB 1.11 lbs./ft.

Half-Saddle Thresholds

Phone: 800-647-7874
 Fax: 800-255-7874

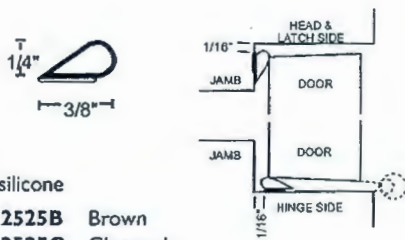
www.ngp.com

GASKETING

NATIONAL GUARD PRODUCTS, INC.

Self-Adhesive Gasketing

Adhesive specifications: Acrylic pressure sensitive adhesive protected by polyethylene release liner. Provides high initial adhesion and long term holding power for permanent mounting in exterior or interior locations. Resistant to aging, weathering, UV radiation, water, detergent, alcohol and the influence of chemicals. End use temperature range is -40°F up to 250°F . Shelf life of adhesive prior to installation is one year when stored at 40°F to 80°F and 60% relative humidity or less.

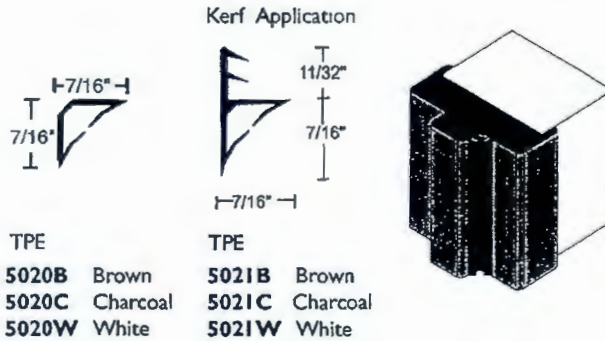


silicone

- 2525B Brown
- 2525C Charcoal
- 2525W White
- 2525T Tan



Available in 17', 20', 21', 25' and 300' rolls.



Kerf Application

TPE

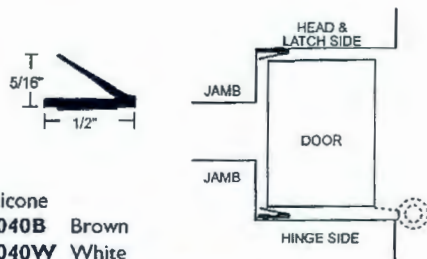
- 5020B Brown
- 5020C Charcoal
- 5020W White

TPE

- 5021B Brown
- 5021C Charcoal
- 5021W White



Available in 36", 48", 84", 96" and 108" lengths.

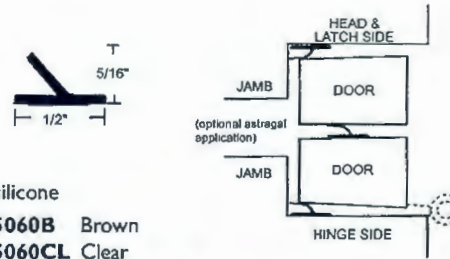


silicone

- 5040B Brown
- 5040W White



Available in 17', 20', 25', 300' rolls



silicone

- 5060B Brown
- 5060CL Clear



Available in 7', 8', 9', 17', and 21' rolls.

Self-Adhesive Gasketing



Nylon Brush Seals

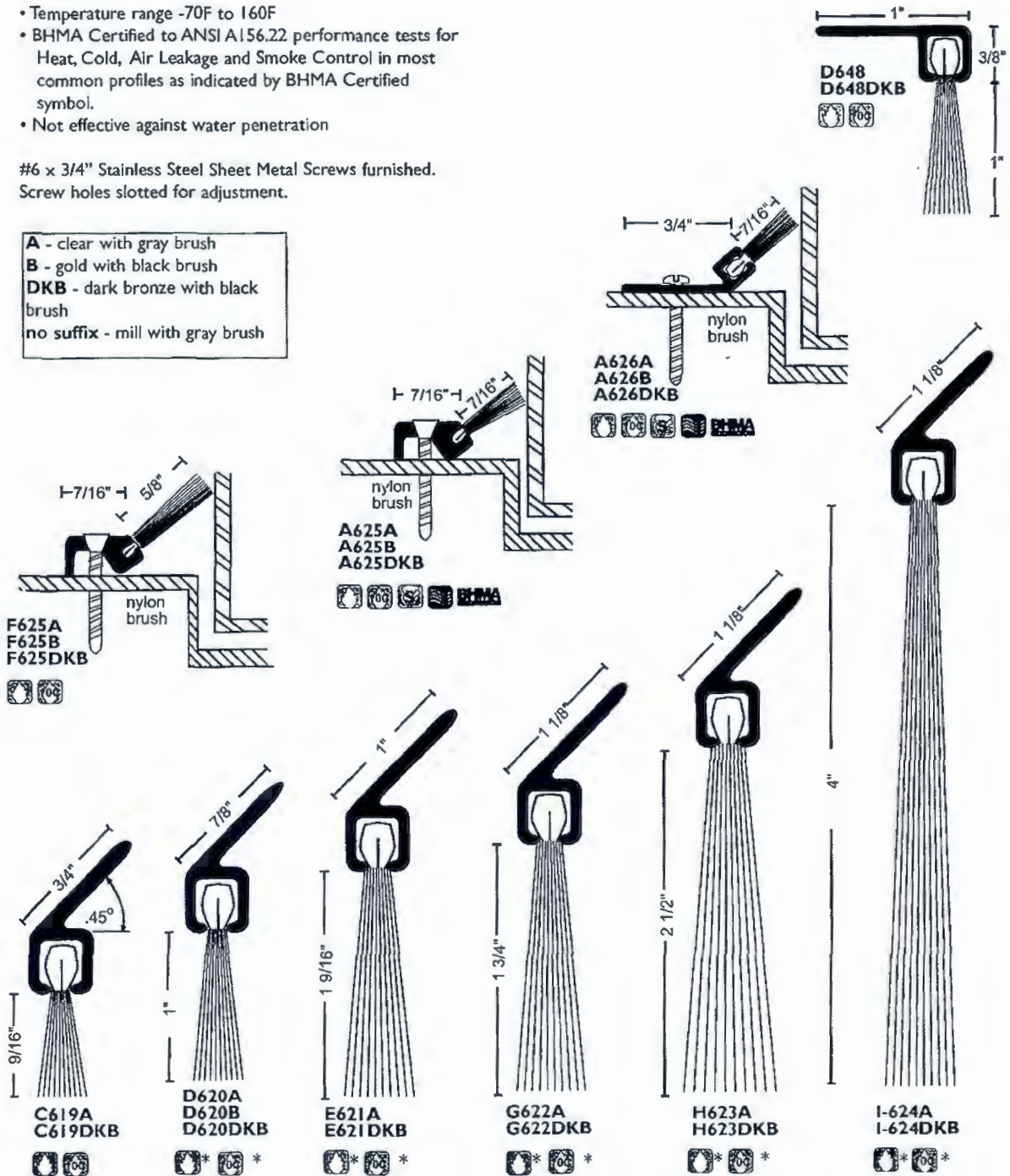
Nylon Brush Seals

Properties:

- Synthetic polymer: Polyamide
- Excellent abrasion resistance, flexibility and memory
- Moisture resistant
- Retains insecticides well
- Temperature range -70F to 160F
- BHMA Certified to ANSI A156.22 performance tests for Heat, Cold, Air Leakage and Smoke Control in most common profiles as indicated by BHMA Certified symbol.
- Not effective against water penetration

#6 x 3/4" Stainless Steel Sheet Metal Screws furnished. Screw holes slotted for adjustment.

A - clear with gray brush
B - gold with black brush
DKB - dark bronze with black brush
no suffix - mill with gray brush

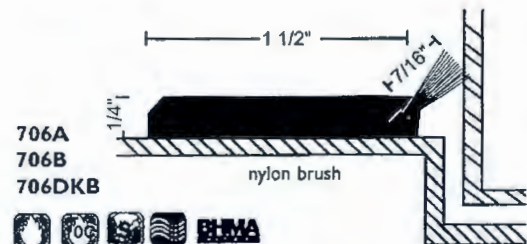
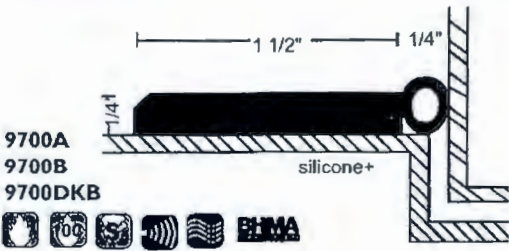
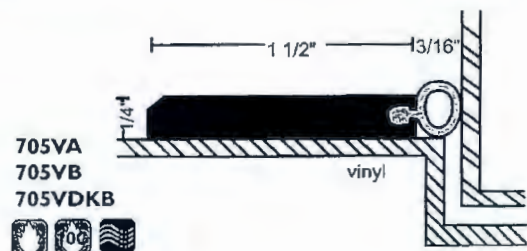
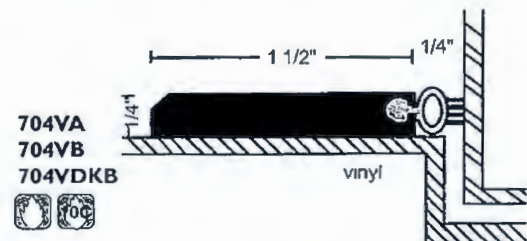
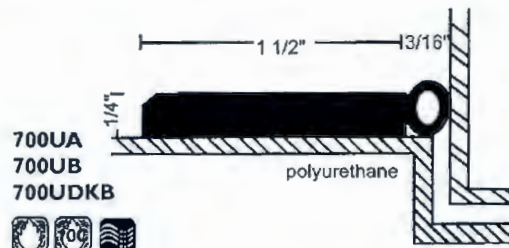
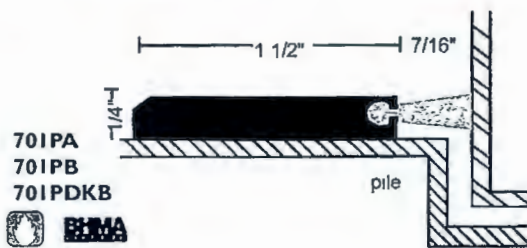
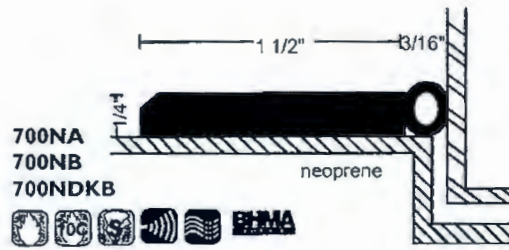
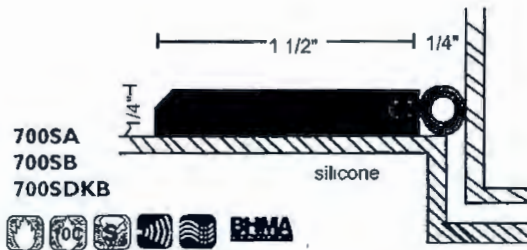


* up to 3 hours metal doors, 1 hour wood doors.

NATIONAL GUARD PRODUCTS, INC.

Perimeter Seals for use with Parallel Arm Closers

Profiles on this page may be cut to fit narrow frame stops for additional charge.
 Specify "cut to width" on order.



Perimeter Seals for use with Parallel Arm Closers

NATIONAL GUARD PRODUCTS, INC.

Nylon Brush Sweeps

#6 x 3/4" Stainless Steel Sheet Metal Screws furnished.
 Screw holes are slotted for adjustment.

600
600A
600B
600DKB



A605A
A605B
A605DKB



B606A
B606B
B606DKB



A - clear with gray brush
 B - gold with black brush
 DKB - dark bronze with black brush
 no suffix - mill with gray brush

Nylon Brush Plus

Specially formulated to withstand greater temperature extremes while providing maximum protection against air infiltration. Nylon Brush Plus color is Tan.

9605A
9605B
9605DKB



9600
9600A
9600B
9600DKB



C607A
C607B
C607DKB



C627A
C627B
C627DKB



601
601A
601B
601DKB



OV634A
OV634B
OV634DKB



OV633A
OV633B
OV633DKB



D608A
D608B
D608DKB



E609A
E609B
E609DKB



G610A
G610B
G610DKB



H612A
H612B
H612DKB

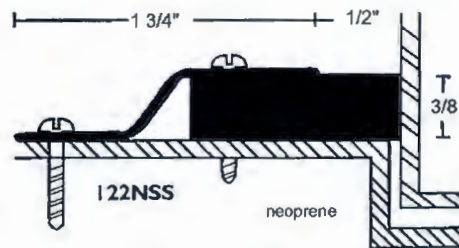
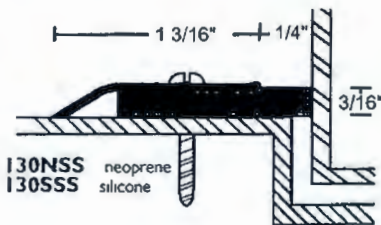
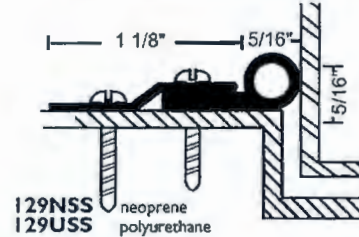
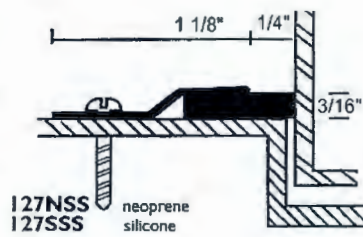
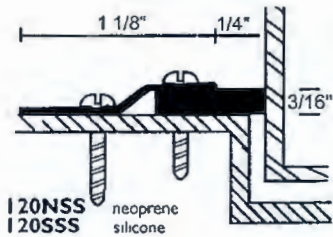
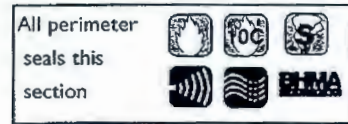
Nylon Brush Sweeps



Stainless Steel Seals

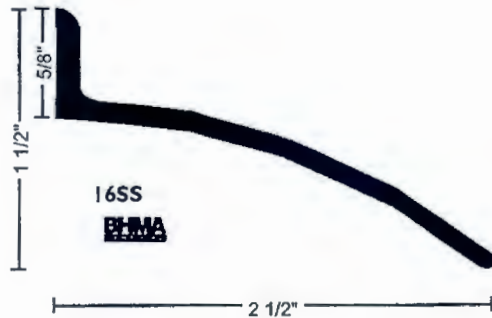
Stainless Steel

Perimeter Seals

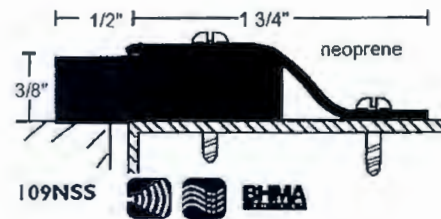


#6 X 3/4 stainless steel SMS furnished. Screw holes slotted for adjustment.

Drip Strip

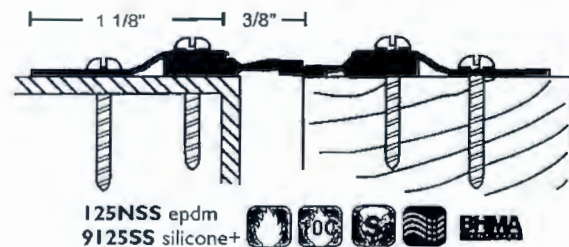
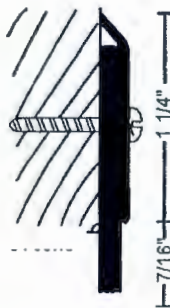


Astragal Seals



Door Sweep

- 200NSS neoprene
- 200USS polyurethane
- 200SSS silicone



#304 stainless steel mill finish #2B standard.
Available: Polished, (US32, 629) suffix - "POL" or Brushed #4 finish, (US32D, 630) suffix - "Brushed"
neoprene and polyurethane are black, silicone is gray, silicone+ is tan



NGP Edge® Sealing Systems/Smoke & Draft Control Gasketing

Mullion Seal

Combination NGP-Edge® Sealing System Smoke and Draft Control Gasketing - Category 'G' and 'H' Listed

5050

Silicone Bulb Fire and Smoke Seal

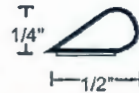


Edge Sealing System - Category "G"
for 20 minute rated category B
wood doors perimeter application up to:
single swing 4'0" x 8'0"
pairs 8'0" x 8'0"
use 9550 at the meeting edge of pairs

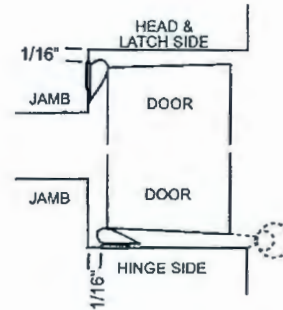


Up to 3 hours steel fire doors
Up to 1 1/2 hours wood fire doors

Meets requirements of ROHS Directive 2002/95/EC



- 5050B Brown
- 5050C Charcoal
- 5050W White
- 5050T Tan
- 5050CL Clear



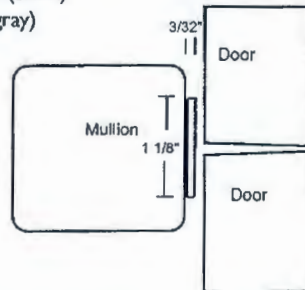
Available in 17', 20', 21', 25', and 300' rolls

Self-Adhesive

Note: See adhesive specifications on next page

Seal for Mullion Applications

- 5100N Neoprene (black)
- 5100S Silicone (gray)



Closed cell sponge strip 1-1/8" wide x 3/32" thick with an adhesive strip for mounting directly to the face of the mullion that doors close against.



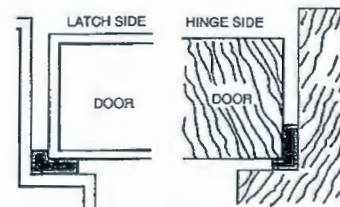
Available in 86" and 96" lengths.

Self-Adhesive

Note: See adhesive specifications on next page

Neoprene Sponge Self-Adhesive Gasketing

		width	thickness
361	21' rolls	3/8"	x 3/16"
362	21' rolls	1/2"	x 1/4"



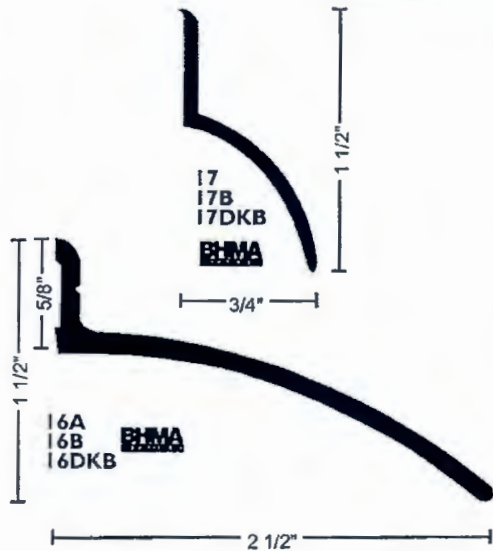


Magnetic Seals, Drip Strips

Drip Strips

#6 x 3/4" SMS furnished

A - clear
B - gold
DKB - dark bronze

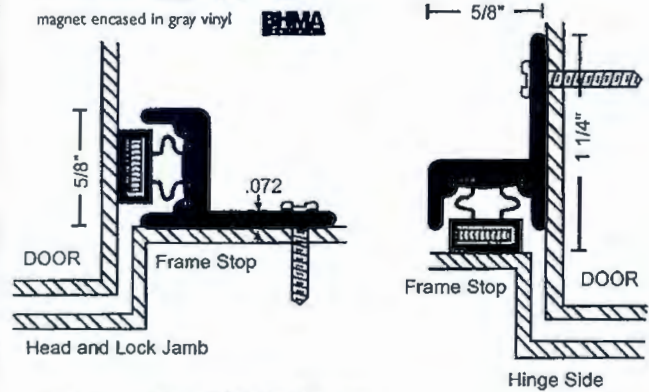


Magnetic Seals

159MA
159MB
159MDKB

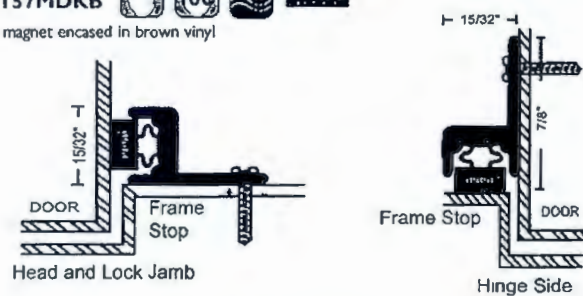
magnet encased in gray vinyl

#6 x 3/4" Stainless steel SMS furnished.
Screw holes slotted for adjustment.
Maximum length 144"



157MA
157MDKB

magnet encased in brown vinyl

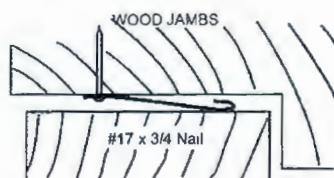
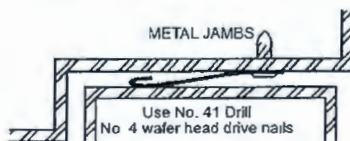


Bronze Weatherstrip

Spring Bronze Weatherstrip

Spring Bronze .009"
Plain spring Bronze - 100' rolls
Fasteners not included unless specified.

Cat. No.	Width
43SB	1 1/8"
44SB	1 1/4"
45SB	1 3/8"



Cushion Bronze Weatherstrip

Cushion material will not coil. Specify lengths required (36", 48", 72", 86", and 96".) All other lengths on special order. Nails not included. Normal installation requires 3/4 lb. of nails per 100 ft. of weatherstrip. Bronze .006 nails available in 1 lb. bags. Wafer head pilot point drive nails make excellent applications for metal jambs, normal installation requires 6 per foot. Install using #41 drill bit. Available with Fast Attach Tape- Specify x "FATT"

