

## ANN ARBOR HISTORIC DISTRICT COMMISSION

### Staff Report

**ADDRESS:** 603 E William Street, Application Number HDC20-157

**DISTRICT:** East William Street Historic District

**REPORT DATE:** November 12, 2020

**REPORT PREPARED BY:** Jill Thacher, Historic Preservation Coordinator

**REVIEW COMMITTEE DATE:** Monday, November 9, 2020

	<b>OWNER</b>	<b>APPLICANT</b>
<b>Name:</b>	MLL Williams, Inc.	J.S. Vig Construction
<b>Address:</b>	4655 Executive Dr., #325 San Diego, CA 92121	15040 Cleat Street Plymouth, MI 48170
<b>Phone:</b>	(972) 998-1041	(734) 283-3002

**BACKGROUND:** This two-story brick commercial vernacular building was constructed in 1915, and the original occupant on the first floor was Oren's Cafeteria. It features two storefronts (at 601 and 603) and two second floor spaces with two central stairs. The cornice is of stepped brick and the windows are one-over-one.

In October, staff approved an awning to be mounted in mortar joints, over the center doors.

**LOCATION:** The site is on the north side of East William Street, at the northeast corner of Maynard Street. The ground level tenant is New York Pizza Depot.

**APPLICATION:** The applicant seeks HDC approval to 1) replace a wood front door and transom with a steel and bulletproof glass door and transom, and 2) install a 36" x 72" x 1" second floor blade sign at the southwest corner of the building.

### **APPLICABLE REGULATIONS:**

#### **From the Secretary of the Interior's Standards for Rehabilitation:**

- (1) A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces, and spatial relationships.
- (2) The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize a property will be avoided.
- (6) Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture, and where possible, materials. Replacement of missing features will be substantiated by documentary and physical evidence.

- (9) New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.

**From the Secretary of the Interior's Guidelines for Rehabilitating Historic Buildings (other SOI Guidelines may also apply):**

**Storefronts**

*Recommended:* Identifying, retaining, and preserving storefronts – and their functional and decorative features – that are important in defining the overall historic character of the building such as display windows, signs, doors, transoms, kick plates, corner posts, and entablatures.

Repairing storefronts by reinforcing the historic materials. Repairs will also generally include the limited replacement in kind – or with compatible substitute material – of those extensively deteriorated or missing parts of storefronts where there are surviving prototypes such as transoms, kick plates, pilasters, or signs.

*Not Recommended:* Removing or radically changing storefronts – and their features – which are important in defining the overall historic character of the building so that, as a result, the character is diminished.

Using substitute material for the replacement parts that does not convey the same visual appearance as the surviving parts of the storefront or that is physically or chemically incompatible.

Introducing a new design that is incompatible in size, scale, material, and color.

**Building Site**

*Not Recommended:* Removing or radically changing buildings and their features or site features which are important in defining the overall historic character of the property so that, as a result, the character is diminished.

**From the Ann Arbor Historic District Design Guidelines:**

**Design Guidelines for Storefronts**

*Appropriate:* Designing and constructing a new storefront when the historic storefront is completely missing. It may be an accurate restoration using historical, pictorial, and physical documentation; or may be a new design that is compatible with the size, scale, and material of the historic building. New designs should be flush with the façade and be kept as simple as possible.

*Not Appropriate:* Installing a new storefront that is incompatible in size and material with the historic building and district.

## Signs

Appropriate: Installing signage in the historic sign band area of the building, typically the area above the transoms or just above the storefront.

Installing signage that is compatible in size, style, material, and appearance to the historic resource and district.

Placing signs to align with others along the commercial block face.

Installing signage that is subordinate to the overall building composition.

Not Appropriate: Installing signs that are too large or that are made from a material that is incompatible with the historic building or district.

Installing signs that are overly complex, use more than three or four colors or use fluorescent colors.

## STAFF FINDINGS:

The application has two parts, a door and a sign, with different contractors working on each. There are two motions, should the Commission wish to act separately on the items, or they may be combined into one.

### **Door**

1. In an email to staff, the applicant stated that “The intent of the new door is to match the existing and provide added security measures for the new occupied space.” The door is the entrance to the second floor via a staircase. The second floor is to be occupied by a marijuana provisioning center.
2. The building has two storefronts (601 and 603) with two doors at the center that are separate by a brick column. The proportions of the doors and windows appear to be original, but a 1975 photo (at the end of this report) shows different doors and possibly transoms (this needs to be verified by the Review Committee).
3. Assuming the transoms have been replaced, staff does not object to replacing the door, transom, and framing. Wood is the historic material and would be most appropriate, per SOI Standard 6. Since the proposal is to change materials to steel, in dimensions matching the existing wood, the application must be approved by the Commission.

### **Sign**

4. A blade sign is proposed to be mounted on the corner of the building at Maynard and East William, on the second floor just above the stone band. The size is 3’ by 6’ and would be used by the second floor tenant. It is a simple aluminum panel, mounted on two arms through mortar joints. It is not illuminated.
5. Corners of buildings are an appropriate place to install second-floor blade signs. The sign would not impact any historic features of the building. It is distanced enough from windows, and entirely above the stone trim band between the first and second stories. Staff believes the work is appropriate and meets the standards and guidelines.

**POSSIBLE MOTIONS:** (Note that the motion is only a suggestion. The Review Committee, consisting of staff and at least two Commissioners, will meet with the applicant on site and then make a recommendation at the meeting.)

**Door**

I move that the Commission issue a certificate of appropriateness for the portion of the application at 603 E William Street, a contributing property in the East William Historic District to replace a wood door, frame, and transom with a steel door, frame, and transom in matching dimensions. The work as proposed is compatible in exterior design, arrangement, texture, material and relationship to the rest of the building and the surrounding area and meets the *Ann Arbor Historic District Design Guidelines* for storefronts and *The Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings*, in particular standards 1, 2, 6 and 9 and the guidelines for storefronts and building site.

**Sign**

I move that the Commission issue a certificate of appropriateness for the portion of the application at 603 E William Street, a contributing property in the East William Historic District, to install a second-floor blade sign mounted through mortar joints, as proposed. The work is compatible in exterior design, arrangement, texture, material and relationship to the rest of the building and the surrounding area and meets the *Ann Arbor Historic District Design Guidelines* for storefronts and signs, and *The Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings*, in particular standards 1, 2 and 9 and the guidelines for storefronts and building site.

**MOTION WORKSHEET:**

I move that the Commission issue a Certificate of Appropriateness for the work at 603 E William Street in the East William Historic District

\_\_\_\_\_ Provided the following condition(S) is (ARE) met: 1) STATE CONDITION(s)

The work is generally compatible with the size, scale, massing, and materials and meets the Secretary of the Interior's Standards for Rehabilitation, standard(S) number(S) (*circle all that apply*): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

**ATTACHMENTS:** application, photos, drawings, additional door information

603 E William Street (1975, courtesy AADL Old News)



603 E William Street (1975 at left, applicant photo at right)





# HISTORIC DISTRICT COMMISSION

## PLANNING AND DEVELOPMENT SERVICES

City Hall: 301 E. Huron St. Ann Arbor, MI 48104-6120  
 Mailing: P.O. Box 8647, Ann Arbor, MI 48107-8647  
 Phone: 734.794.6265 ext. 42608      [jthacher@a2gov.org](mailto:jthacher@a2gov.org)  
 Fax: 734.994.8460

OFFICE USE ONLY	
Permit Number	HDC#
	BLDG#
DATE STAMP	

**APPLICATION MUST BE FILLED OUT COMPLETELY**

### PROPERTY LOCATION/OWNER INFORMATION

NAME OF PROPERTY OWNER MLL Williams, Inc.,		HISTORIC DISTRICT	
PROPERTY ADDRESS 603 E. Williams Street			CITY ANN ARBOR
ZIPCODE 48104	DAYTIME PHONE NUMBER ( 972 ) 998-1041	EMAIL ADDRESS CLy@mckinneycapital.com	
PROPERTY OWNER'S ADDRESS (IF DIFFERENT FROM ABOVE) 4655 Executive Dr., #325		CITY San Diego	STATE, ZIP 92121

### PROPERTY OWNER'S SIGNATURE

SIGN HERE		PRINT NAME	Chris Ly	DATE	29 SEP 20
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### APPLICANT INFORMATION

NAME OF APPLICANT (IF DIFFERENT FROM ABOVE) J.S. Vig Construction			
ADDRESS OF APPLICANT 15040 Cleat Street			CITY Plymouth
STATE Michigan	ZIPCODE 48170	PHONE / CELL # ( 734 ) 283-3002	FAX No (     )
EMAIL ADDRESS shawnw@jsvig.com			

### APPLICANT'S SIGNATURE (if different from Property Owner)

SIGN HERE		PRINT NAME	x Shawn Wilder	DATE	29 SEP 20
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### BUILDING USE - CHECK ALL THAT APPLY

<input type="checkbox"/> SINGLE FAMILY	<input type="checkbox"/> DUPLEX	<input type="checkbox"/> RENTAL	<input type="checkbox"/> MULTIPLE FAMILY	<input checked="" type="checkbox"/> COMMERCIAL	<input type="checkbox"/> INSTITUTIONAL
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### PROPOSED WORK

Describe in detail each proposed exterior alteration, improvement and/or repair (use additional paper, if necessary).

1) Replace the old dilapidated existing wood and glass front entrance door with a new steel and bulletproof glass door per the attached shop drawing. The door will be made to look like the existing door in appearance.

2) Install a blade sign on building as attached - mounting to be through masonry joints .

### DESCRIBE CONDITIONS THAT JUSTIFY THE PROPOSED CHANGES:

1) The condition of the existing door and the need for a secure entrance. Please note that the existing door and trim are painted white as will be the case with the new steel door.

2) Business Identification

For Further Assistance With Required Attachments, please visit [www.a2gov.org/hdc](http://www.a2gov.org/hdc).





# HISTORIC DISTRICT COMMISSION APPLICATION

## FEE CHART

DESCRIPTION	
STAFF REVIEW FEES	FEE
Application for Staff Approval	\$35.00
Work started without approvals	Additional \$50.00
HISTORIC DISTRICT COMMISSION FEES	
All other proposed work not listed below	\$100.00
Work started without approvals	Additional \$250.00
RESIDENTIAL – Single and 2-story Structure	
Addition: single story	\$300.00
Addition: taller than single story	\$550.00
New Structure - Accessory	\$100.00
New Structure – Principal	\$850.00
Replacement of single and 2-family window(s)	\$100 + \$25/window
COMMERCIAL – includes multi-family (3 or more unit) structures	
Additions	\$700.00
Replacement of multi-family and commercial window (s)	\$100 + \$50/window
Replacement of commercial storefront	\$250.00
DEMOLITION and RELOCATION	
Demolition of a contributing structure	\$1000.0
Demolition of a non-contributing structure	\$250.00
Relocation of a contributing structure	\$750.00
Relocation of a non-contributing structure	\$250.00

### FOR COMMISSION REVIEWS:

- Application withdrawals made before public notice is published will qualify for a 50% refund of the application fee.
- Application withdrawals made after public notice is sent but before the public hearing will qualify for a 25% refund of the application fee.

## INSTRUCTIONS FOR SUBMITTING APPLICATIONS

All HDC applications must be signed by the property owner and the applicant, if different, with the exception of staff approvals, which may be signed by only the applicant.

All completed HDC applications and their attachments may be submitted to Planning and Development Services by mail, in person (paper or digital), faxed, or via email to [building@a2gov.org](mailto:building@a2gov.org).

We accept CASH, CHECK, and all major credit cards. Checks should be made payable to “City of Ann Arbor”

HDC applications that are incomplete or not submitted with the required documentation or payment will not be processed or approved.

## APPLICATION EXPIRATION

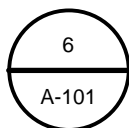
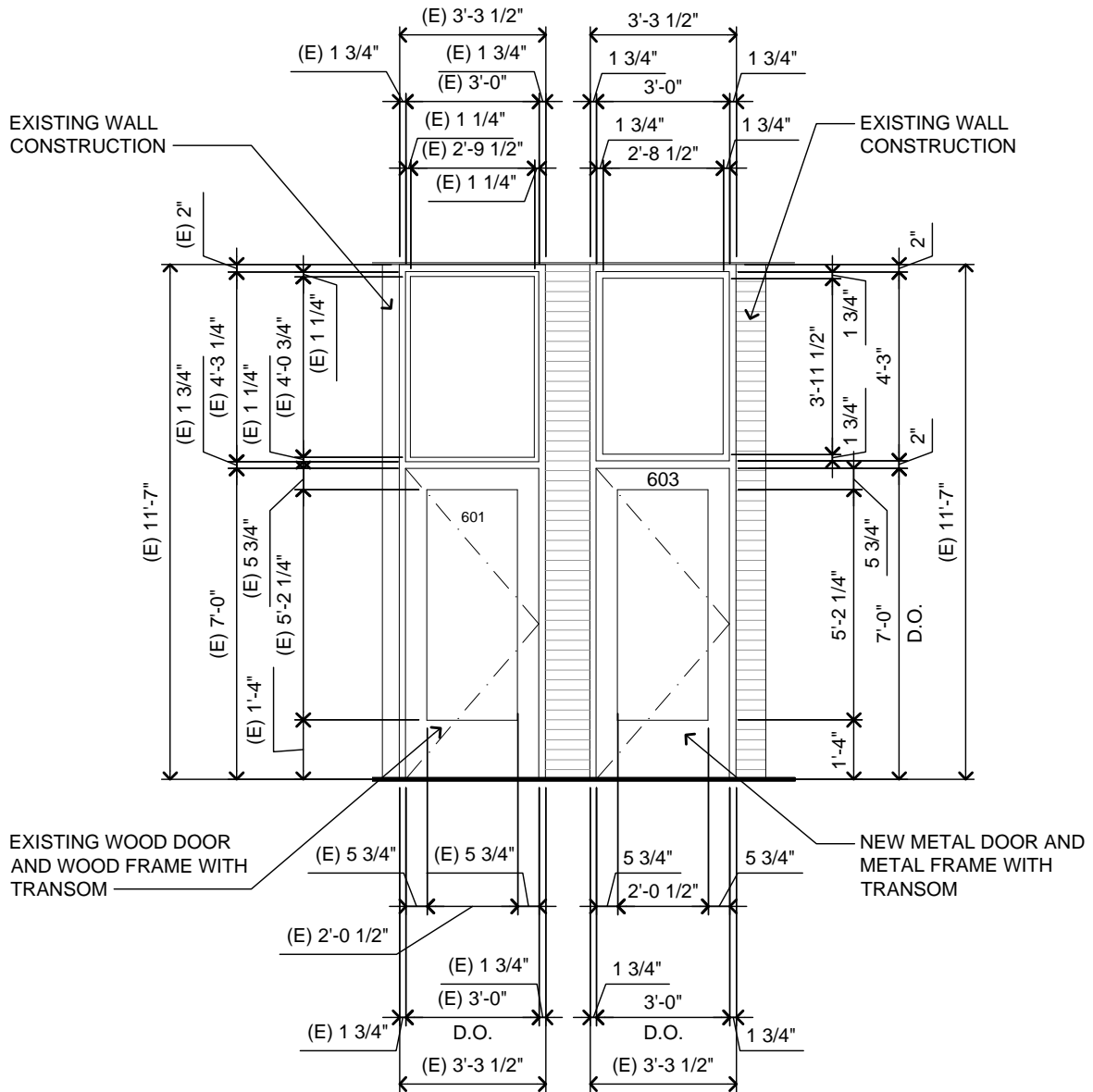
HDC applications expire three (3) years after the date of approval.

## OFFICE USE ONLY

Date of Hearing:		
Action	<input type="checkbox"/> HDC COA	<input type="checkbox"/> HDC Denial
	<input type="checkbox"/> HDC NTP	<input type="checkbox"/> Staff COA
Staff Signature		
Comments		
Fee:	\$ _____	
Payment Type	<input type="checkbox"/> Check: # _____ <input type="checkbox"/> Cash <input type="checkbox"/> Credit Card	







**Partial Exterior Elevation**  
**1/4" = 1'-0"**



603

MADE FROM US  
delivery.com  
MADE IN THE USA

CUSTOMER SERVICE  
NYPD

E A











**Main Office**  
15040 Cleat Street  
Plymouth, MI 48170

**Project Green**  
157 E. Hoover Ave.  
Ann Arbor, MI 48104

INTEGRITY  
QUALITY  
SAFETY  
CUSTOMER SATISFACTION

## Transmittal

<b>To:</b> Mark Drane / Rich Cleve	<b>Date:</b> June 12, 2020
<b>Company:</b> Rogvoy Architects	<b>Phone:</b>
<b>From:</b> Shawn Wilder	<b>cc:</b> Valerie Vig; Kris Mackmiller
<b>Project Name:</b> Tree City – 603 E. William	<b>JS Vig Project No.</b> 1734
<b>Re:</b> 081113-087100-2-0 Doors, Frames, Hardware Submittal	<b>Shipping Method:</b> E-mail
<b>Tracking Info:</b> Tanner Supply TS2	

### We are sending you:

- Shop Drawing     
  Submittals     
  Samples     
  Specifications     
  Copy of Letter  
 Change Order     
  Product Data     
  Drawings     
  Other     
  Proposal

<input type="checkbox"/> URGENT	<input type="checkbox"/> AS REQUESTED	<input type="checkbox"/> PLEASE COMMENT	<input type="checkbox"/> PLEASE REPLY
<input type="checkbox"/> APPROVED AS SUBMITTED	<input type="checkbox"/> APPROVED AS NOTED	<input type="checkbox"/> RETURNED FOR CORRECTIONS	<input type="checkbox"/> RESUBMIT COPIES FOR APPROVAL
<input checked="" type="checkbox"/> FOR REVIEW	<input type="checkbox"/> RETURN PRINTS CORRECTED	<input type="checkbox"/> PAYMENT	<input type="checkbox"/> SUBMIT COPIES FOR DISTRIBUTION

Quantity	Description
	081113
1	Hollow Metal Doors and Frames Product Data and Shop Drawings (At Front Entry Door)
	087100
1	Door Hardware Product Data and Schedule (At Front Entry Door)

### Comments:

Rogvoy Architects, P.C. shall review or take other appropriate action upon the Contractor's submittals such as Shop Drawings, Product Data and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. Rogvoy Architects, P.C. review of submittals is not for the purpose of determining accuracy and completeness of other information such as dimensions, quantities, and installation or performance of equipment or systems, which are the Contractor's responsibility. Rogvoy Architects, P.C.'s review shall not constitute acceptance of safety precautions or of any construction means, methods, techniques, sequences or procedures. Review of a specific item shall not indicate acceptance of an assembly of which the item is a component.

No Exceptions Taken or Reviewed as Noted of this submittal does not waive any requirement of the Contract Documents, nor authorize any changes in the Contract Sum or Contract Time.

NO EXCEPTIONS TAKEN     
  REVISE AND RESUBMIT  
 REVIEWED AS NOTED     
  REJECTED  
 FOR INFORMATION ONLY, NO ACTION TAKEN     
  REVIEWED FOR INFORMATION PROVIDED ONLY  
 This submittal was prepared under the direction of a licensed design professional or by a specialty manufacturer. Rogvoy Architects, P.C. review relies upon the preparer's responsibility that the submittal meets the performance criteria of the Contract Documents.

By: Rich Date: 09/28/2020

*Rogvoy Architects, P.C.  
Bingham Farms, Michigan*

Approved for Construction Use	<input type="checkbox"/>
Approved as Noted	<input type="checkbox"/>
Returned for Corrections	<input type="checkbox"/>
Reviewed	<input checked="" type="checkbox"/>
<b>J.S. VIG CONSTRUCTION CO.</b>	
<b>15040 CLEAT STREET</b>	
<b>PLYMOUTH, MICHIGAN 48170</b>	
By: <u>SW</u>	Date <u>9/22/20</u>
NOTE: This approval shall not be construed as relieving the contractor from responsibility for accuracy of dimensions and coordination of this work with field conditions and/or work of other contractors.	



**SGL 3-0 x 7-0 x 1 3/4 x HMD x HMF**

Degree  
Act inAct  
90

Area Hand Qty Mode Description Location Mark #  
FD

FRAME	Quantity	Type	Mfg	Material	Series	GrThickness	Door Thick	Rating	Agency	Jamb Depth	Opening Size	Wall type	Net Wall Th.	Anchor	Finish	Assy Constr.	Deg Opening	HW Set	Elev
	1	HMF	STE	A-60	F	16	1 3/4			5 3/4	3-0 x 7-0			EMA EMA	PRI	SUA-S	90	4	1

VERIFY SIZE AND SWING GALV FRAME

DOOR	Hand	Width	Height	Ga	Thick	Rating	Type	Mfg	Series	Style	Core	Finish	Face	U/C	Elev
		3-0	7-0	16	1 3/4		HMD	STE	L	FG (B)	PS	PRI	A-60		B

GALV & INSULATED 1-1/8" THICK GALSS BY OTHERS

**Heading #4**

One Opening

(Totals) Each Assembly to Have:

( 3 )	3 EA	HINGE, 4 1/2, STD WT	5BB1 X 4.5 X 4.5 X NRP	652	IVE
( 1 )	1 EA	CYLINDRICAL LOCK WITH THRU BOLTS	ND53P6D X RHO X 13-247 X 10-025	626	SCH
( 1 )	1 EA	CLOSER	4040XP X RW/PA X SRT	AL	LCN
( 1 )	1 EA	SEAL	160S X 36 X 84	MILL	NAT
( 1 )	1 EA	DOOR SWEEP	200NA X 36	A	NAT
( 1 )	1 EA	THRESHOLD	424 X 36	MILL	NAT



TREE HOUSE PROVISIONING CENTER

Control No.2062 (JOB000497)

PW

Tel: 734-847-5446

Fax: 734-847-5556

Submitted By: PAUL WENZEL JR

## Abbreviations Used

Abb	Description
A-60	GALVANNEALED, HOT DIPPED, HEAT TREATED, 6OZ ZINC COATED STEEL
ADJ	ADJUSTABLE BASE
CRS	COLD ROLLED STEEL
DW	DRYWALL, ADJ BASE ANCHOR
EMA	EXISTING MASONRY ANCHOR WELD
EXST	EXISTING
F	FLUSH
FG	FULL GLASS
HC	HONEYCOMB CORE
HMD	HOLLOW METAL DOOR
HMF	HOLLOW METAL FRAME
KD	KNOCKED DOWN
L	FULL FLUSH
LS	LOCK SEAM
PRI	PRIME
PS	POLYSTYRENE CORE
SGL	SINGLE DOOR
STE	STEELCRAFT
SUA-S	SETUP AND WELD BY SUPPLIER

**End of Schedule**



Tel: 734-847-5446

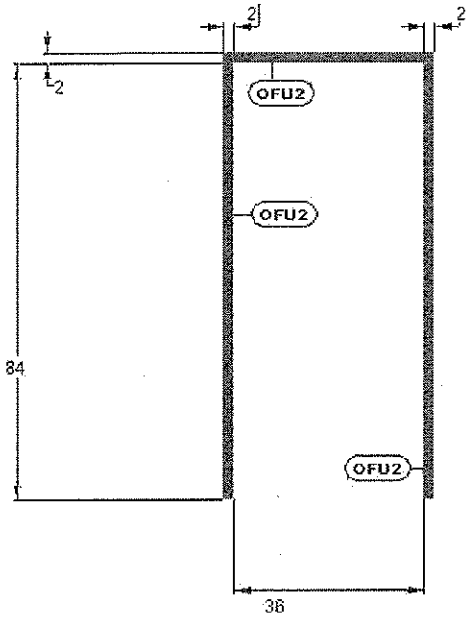
Fax: 734-847-5556

TREE HOUSE PROVISIONING CENTER

Control No.2062 (JOB000497)

PW

Submitted By: PAUL WENZEL JR



Arch Fr Type: 1  
 Fr Template: HMF 3070 2  
 Qty: 1

ALL DIMENSIONS EXPRESSED IN INCHES

FD(1-)

field verify all dimensions  
 prior to fabrication



Tel: 734-847-5446 Fax: 734-847-5556

TREE HOUSE PROVISIONING CENTER

Control No.2062 (JOB000497)

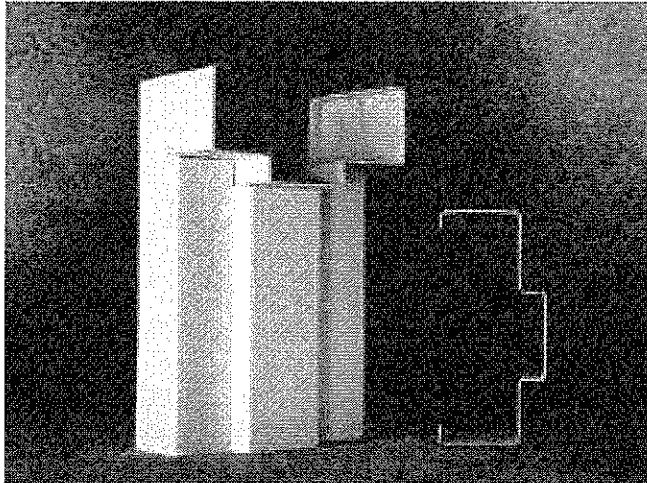
PW

Submitted By: PAUL WENZEL JR

Revision # 6/23/2020

September 21, 2020

## F Series flush



### About the product

F Series 3 sided flush frames are designed to meet requirements for light to maximum duty applications in both commercial and institutional buildings. They are installed in both interior and exterior locations, and in virtually all types of buildings and wall constructions. These frames are to be installed as part of the wall framing sequence. They can be specified and supplied as KD (knock-down) for field assembly prior to installation or welded for installation as a complete unit.

### Installation

1. Installation shall conform to the published Steelcraft installation instructions, ANSI A250.11-2012 (formerly SDI 105) Recommended Erection Instructions for Steel Frames and HMMA 840.
2. Fire Rated Assemblies must be in accordance with NFPA Pamphlet 80. The Authority Having Jurisdiction is the final authority in issues related to the installation and use of installed Fire Rated Doors.

### Features and benefits

Steelcraft F Series flush frames offer the following unique features, which enhance long term functionality and durability:

1. **Die-mitered corner connections:** Die-mitered corner connection at the head and jamb insure an attractive, tight and closed mitered connection. The miter includes 4 corner tabs designed with concealed connection eliminating the need for continuous profile welding.
2. **Patented universal hinge preparations** allow for easy field conversion from standard weight .134" (3.3 mm) thick hinges to heavy weight .180" (4.7 mm) hinges.
3. **Adjustable base anchors** allow for installation adjustment when the floor is not level.
4. **Factory prepared** for field installed silencers.
5. **Factory applied baked on rust inhibiting primer** in accordance with ANSI A250.10-2011.

### Specification compliance

1. Overall frame construction for the Steelcraft F Series flush frames meets the requirements of ANSI A250.8-2014 (SDI 100).
2. Hardware preparations and reinforcements are in accordance with ANSI A250.8-2014 (SDI 100). Locations are in accordance with ANSI/DHI A115.

### Fire ratings

The F Series flush frames meet the broadest fire rating requirements. They are listed for installations requiring compliance to both neutral pressure testing (ASTM E152 and UL 10B) and positive pressure standards (UL 10C). Refer to the **Fire Rated Section** of this manual for particular listings.

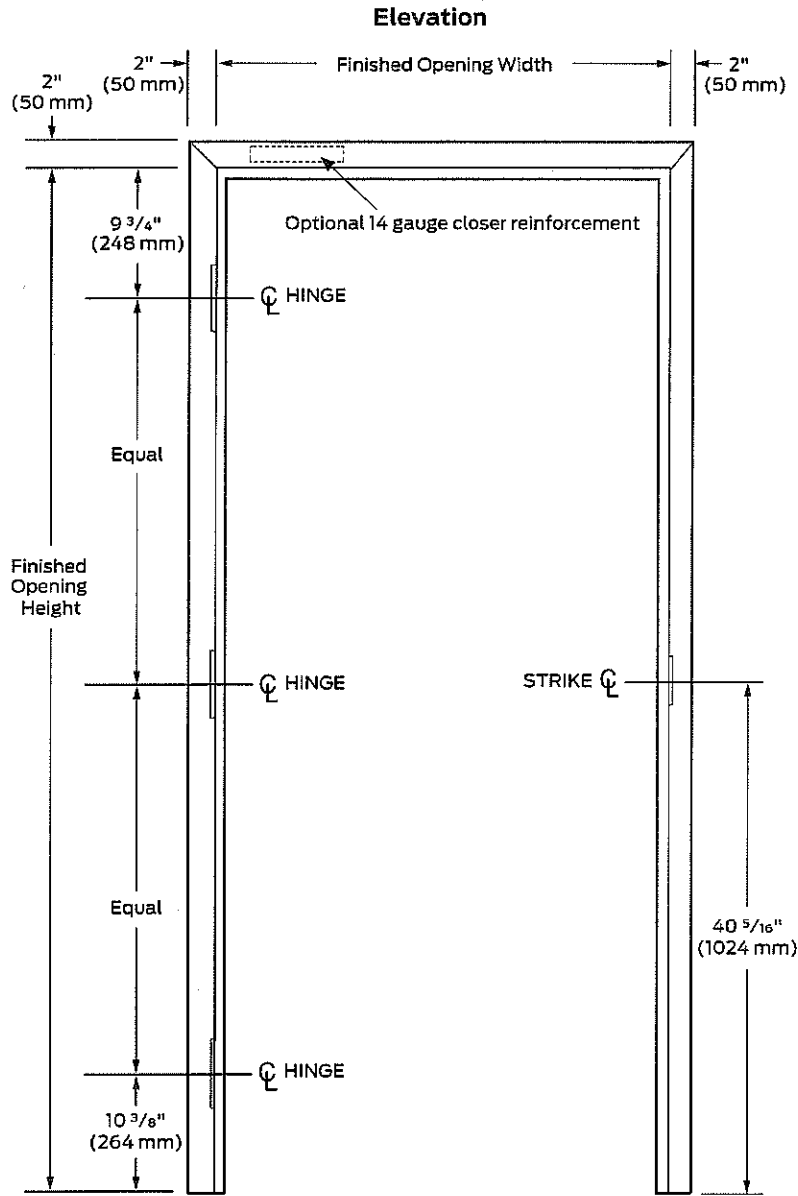
### Applications

F Series frames are typically installed in wall construction types as defined in the chart below:

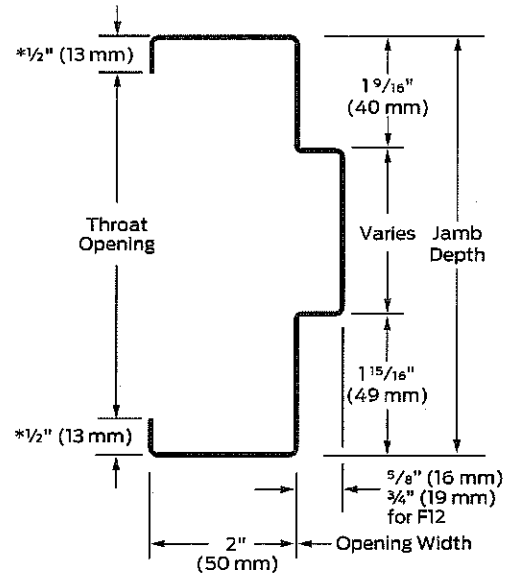
Frame applications			
Profile	Steel thickness	Wall construction	Typical wall anchors
F16	16 Gauge [0.053" (1.3 mm)]	Wood or steel stud	Lock-in stud anchor
F16	16 Gauge [0.053" (1.3 mm)]	Masonry	Wire masonry
F16	16 Gauge [0.053" (1.3 mm)]	Existing masonry	Bolted through soffit
F14	14 Gauge [0.067" (1.7 mm)]	Wood or steel stud	Lock-in stud anchor
F14	14 Gauge [0.067" (1.7 mm)]	Masonry	Wire masonry
F14	14 Gauge [0.067" (1.7 mm)]	Existing masonry	Bolted through soffit
F12	12 Gauge [0.093" (2.3 mm)]	Wood or steel stud	Lock-in stud anchor
F12	12 Gauge [0.093" (2.3 mm)]	Masonry	Wire masonry
F12	12 Gauge [0.093" (2.3 mm)]	Existing masonry	Bolted through soffit

**Frames • F Series flush**

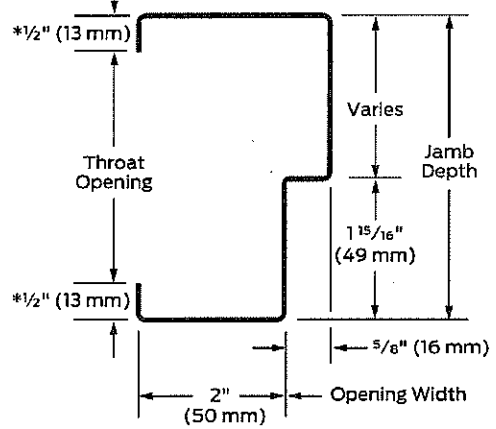
**Standard construction**



**Standard Double Rabbet Frame**



**Single Rabbet Frame**



\* 7/16" (11 mm) on 5 3/4" frame depth

**Frame sizing options**

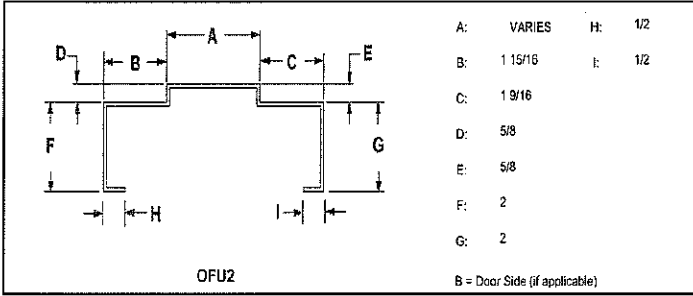
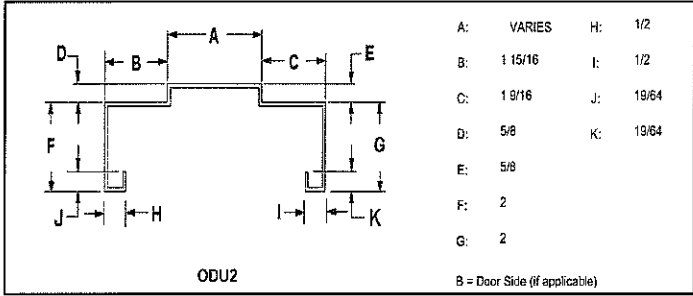
Series	Maximum opening size		Jamb depth availability (profile)				Standard profile dimensions (variations available)			Corners
	Single	Pair	Single rabbet		Double rabbet		Face	Stop	Return	Standard
			Min.	Max.	Min.	Max.				
F16	5'0" x 11'0"	10'0" x 11'0"	3"	20"	4 1/2"	20"	2"	5/8"	1/2"*	DIE MITERED with four (4) concealed tabs interlocking head and jambs
F14	(1524 mm x 3353 mm)	(2439 mm x 3353 mm)	(76 mm)	(508 mm)	(114 mm)	(508 mm)	(50 mm)	(16 mm)	(13 mm)	
F12	4'0" x 8'0" (1219 mm x 2438 mm)	8'0" x 8'0" (2438 mm x 2438 mm)	N/A	N/A	4 3/4"	14 3/4"	2"	3/4"	1/2"	Square cut for welded corners

\* Except 5 3/4" (146 mm) depth, which is 7/16" (11 mm)

N/A - Not Available

12 gauge standard profile is equal rabbet





Tel: 734-847-5446 Fax: 734-847-5556

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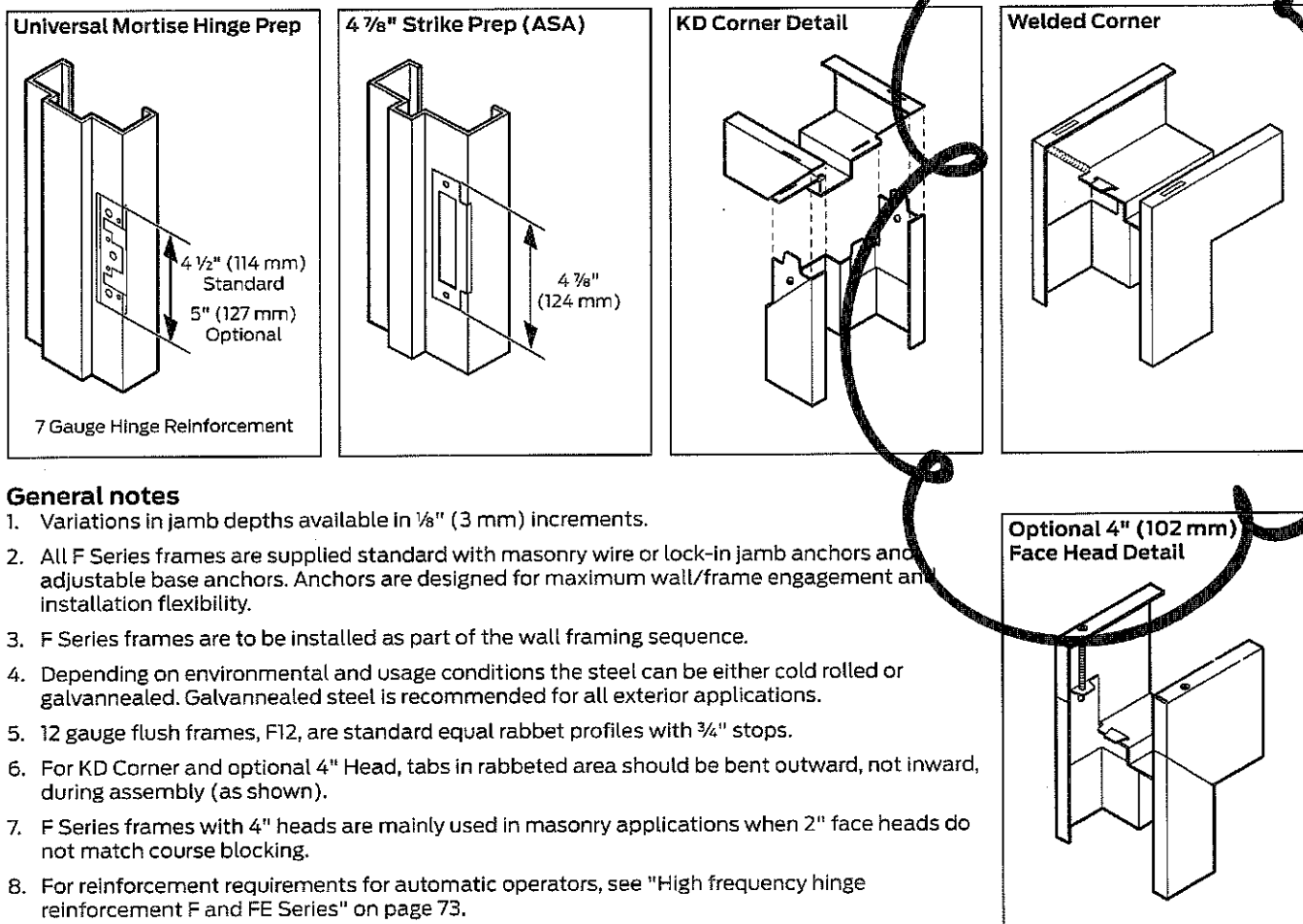
PW

Submitted By: PAUL WENZEL JR

Revision # 6/23/2020

September 21, 2020

**Frames - F Series flush**



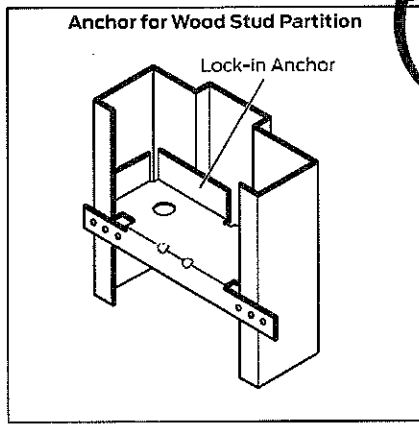
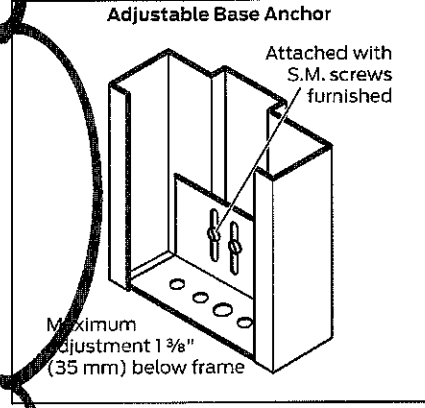
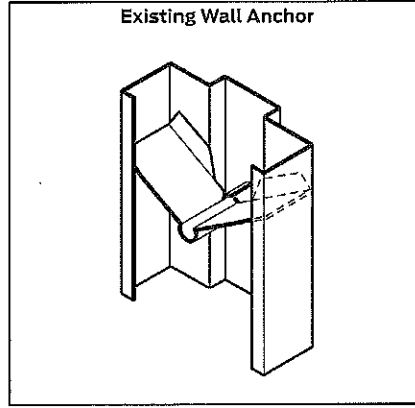
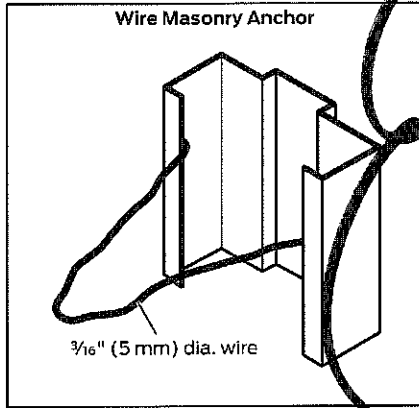
**General notes**

- Variations in jamb depths available in 1/8" (3 mm) increments.
- All F Series frames are supplied standard with masonry wire or lock-in jamb anchors and adjustable base anchors. Anchors are designed for maximum wall/frame engagement and installation flexibility.
- F Series frames are to be installed as part of the wall framing sequence.
- Depending on environmental and usage conditions the steel can be either cold rolled or galvanized. Galvanized steel is recommended for all exterior applications.
- 12 gauge flush frames, F12, are standard equal rabbet profiles with 3/4" stops.
- For KD Corner and optional 4" Head, tabs in rabbeted area should be bent outward, not inward, during assembly (as shown).
- F Series frames with 4" heads are mainly used in masonry applications when 2" face heads do not match course blocking.
- For reinforcement requirements for automatic operators, see "High frequency hinge reinforcement F and FE Series" on page 73.

Frame options							
Series	Frame profile		Corner connections				4" (102 mm) heads
			KD (Knock-down)		SUA (Set-up & weld)		
	Single rabbet	Double rabbet	Single rabbet	Double rabbet	Single rabbet	Double rabbet	
F16	Typically for walls less than 3 3/4" (95 mm) thick. Minimum walls thickness 2" (51 mm)	Typically for walls less than 3 3/4" (95 mm) thickness or greater	3 interlocking corner tabs per factory die-miter. See the KD Corner Detail	4 interlocking corner tabs per factory die-miter. See the KD Corner Detail	Available when specified, and in accordance with ANSI A250.8-2014 (SDI 100).		Die-mitered for use with 2" (51 mm) face double rabbet jambs. Available when specified for KD or SUA applications.
F14			N/A	N/A	Standard Saw Cut and welded, and in accordance with ANSI A250.8-2014 (SDI 100)		
F12	N/A	N/A	N/A	N/A	Standard Saw Cut and welded, and in accordance with ANSI A250.8-2014 (SDI 100)		For use with 2" (51 mm) face double rabbet jambs.

N/A - Not Available

Frames • F Series flush



**Anchoring and installation notes**

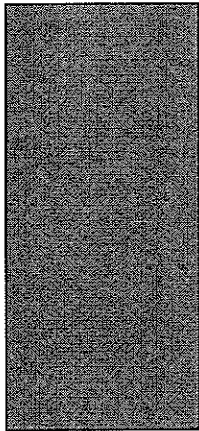
1. **F16 and F14 Series commercial and Institutional frames** are supplied standard with masonry wire or lock-in jamb anchors and adjustable base anchors. Anchors are designed for maximum wall/frame engagement and installation flexibility.
2. **For anchoring applications, refer to the Frames: Anchoring systems section of this manual.**
3. **Installation Caution Notice: Grouted frames:**
  - When temperature conditions necessitate an additive to be used in the mortar to prevent freezing, the contractor installing the frames must coat the inside of frames in the field with a corrosion resistant coating per SDI 105.
  - When frames are to be grouted full, silencers must be field installed prior to grouting.
  - Steel frames, including fire rated frames, do not require grouting. Grouting is not recommended for frames in drywall.
4. All fire rated frames must be installed in accordance with NFPA Pamphlet 80 and the Authority Having Jurisdiction.

Framing applications							
Series	Steel type	Building type	Opening	Usage frequency <sup>1</sup>	KD Corner <sup>4</sup>	SUA Corner <sup>5</sup>	Applications
F16	Non-Galvannealed <sup>2</sup>	Institutional and Commercial	Interior	Heavy to extra heavy duty	✓	✓	Typical building conditions
	Galvannealed <sup>3</sup>		Mainly Exterior				High humidity and/or weather exposure
F14	Non-Galvannealed <sup>2</sup>	Institutional and Commercial	Interior	Extra heavy to maximum duty	✓	✓	Typical building conditions
	Galvannealed <sup>3</sup>		Mainly Exterior				High humidity and/or weather exposure
F12	Galvannealed <sup>3</sup>	Institutional and Commercial	Interior and exterior	Maximum duty	N/A	✓	Maximum traffic building conditions High humidity and/or weather exposure

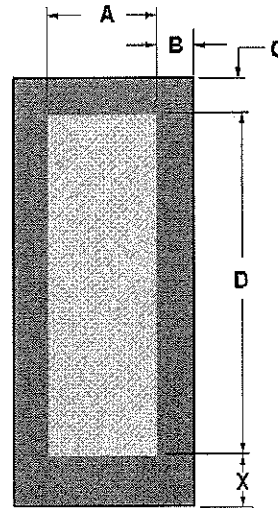
1 Usage frequency is based on ANSI A250.8-2014 (SDI 100)  
 2 Commercial quality cold rolled steel  
 3 Reinforcements for galvannealed frames are also galvannealed  
 4 Knock-Down for field assembly prior to installation  
 5 Set-up and Welded for installation as a pre-welded unit

Must match existing door in appearance and be reviewed and approved by the Historical Committee

7'-0"



7'-0"



3'-0"

A: 24  
B: 6  
C: 8  
D: 60

X: 15

HMD 3070 FG

Arch Dr Type B

FD



Tel: 734-847-5446

Fax: 734-847-5556

TREE HOUSE PROVISIONING CENTER

Control No.2062 (JOB000497)

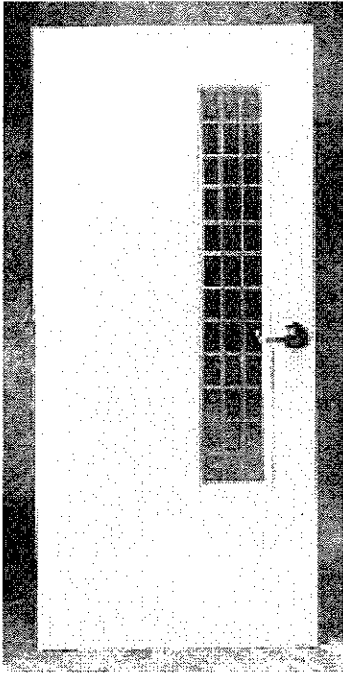
PW

Submitted By: PAUL WENZEL JR

Revision # 8/23/2020

September 21, 2020

## L Series

**About the product**

The L20, L18, and L16 Series flush doors are designed to meet the architectural requirements for full flush doors. The L14 Series flush doors are designed to meet the architectural requirements for maximum duty full flush doors. Refer to the Architectural section for specifications and the selection and usage guide of the appropriate door constructions.

This premium door construction combines the strength and dimensional stability of steel with the structural integrity of the laminate core. The continuous bonding of core to steel face sheets provides an attractive, flat door, free of face welding marks. Tests have proven that the L Series door has high resistance to impact damage, low thermal conductivity and high STC ratings.

To meet application, specification and performance requirements, the L Series door offers a wide range of specifiable options including sizes, glass light designs and hardware (mechanical, pneumatic, electrical) preparations.

L Series doors are 1 3/4" (45 mm) thick.

**Installation**

1. Installation shall conform to the published Steelcraft installation instructions, ANSI A250.11-2012 (formerly SDI 105) *Recommended Erection Instructions for Steel Frames and HMMA 840s*.
2. Fire Rated Assemblies must be in accordance with NFPA Pamphlet 80. The Authority Having Jurisdiction is the final authority on issues related to the installation and use of installed Fire Rated Doors.

**Features and benefits**

Steelcraft's L Series doors offer the following standard unique features, which enhance long term performance and durability:

1. **Core Systems** that enhance the structural integrity of the door:
  - **Honeycomb (standard):** 1" (25 mm) cell kraft honeycomb configuration that increases structural integrity while reducing overall weight
  - **Polystyrene (optional):** enhanced thermal performance
  - **Polyurethane (optional):** extreme thermal performance
2. **Full Height, Epoxy Filled Mechanical Interlock Edges** provide structural support and stability the full height of the door edges. Available edge options:
  - **Visible Edge Seam (standard):** full height, epoxy filled mechanical interlocked edges
  - **Filled Edge Seam (optional add to standard):** seam filled with structural adhesive and dressed smooth. Includes tack welds above and below edge cutouts for hinges, locks, etc.
  - **Welded Edge Seam (optional add to standard):** intermittently welded using 1" long welds, then seam filled with structural adhesive and dressed smooth. Option available on L18, L16 and L14 doors.
3. **Universal Hinge Preparations** (patented) allow for easy field conversion from standard weight .134" (3.3 mm) hinges to heavy weight .180" (4.7 mm) hinges.
4. **14 Gauge [0.067" (1.7 mm)] Inverted Top and Bottom Channels** provide stability and protection for the top and bottom edges from abuse.
5. **Beveled Hinge and Lock Edges** allow for tighter installation tolerances, ensure easier operation and eliminate binding and sticking.
6. **Recessed Designer™ Glass Trim** provides a clean, neat and flush finish with the door surface.
7. **Factory Applied Baked-On Rust Inhibiting Primer** paint in accordance with ANSI A250.10-2011.

**Specification compliance**

1. Door construction for Steelcraft L Series full flush doors meets the requirements of ANSI A250.8-2014 (SDI 100).
2. Hardware preparations and reinforcements are in accordance with ANSI A250.6-2003 (R2009). Locations are in accordance with ANSI/DHI A115 unless otherwise stated.

**Fire ratings**

L Series doors meet the broadest fire rating requirements. They are listed for installations requiring compliance to both neutral pressure testing (ASTM E152 and UL-10B) and positive pressure standards (UL-10C).





NATIONAL GUARD  
PRODUCTS

# Square Profile Lite Kit for Variable Door and/or Glass Thickness L-GLF100-SP



### Materials & Finishes

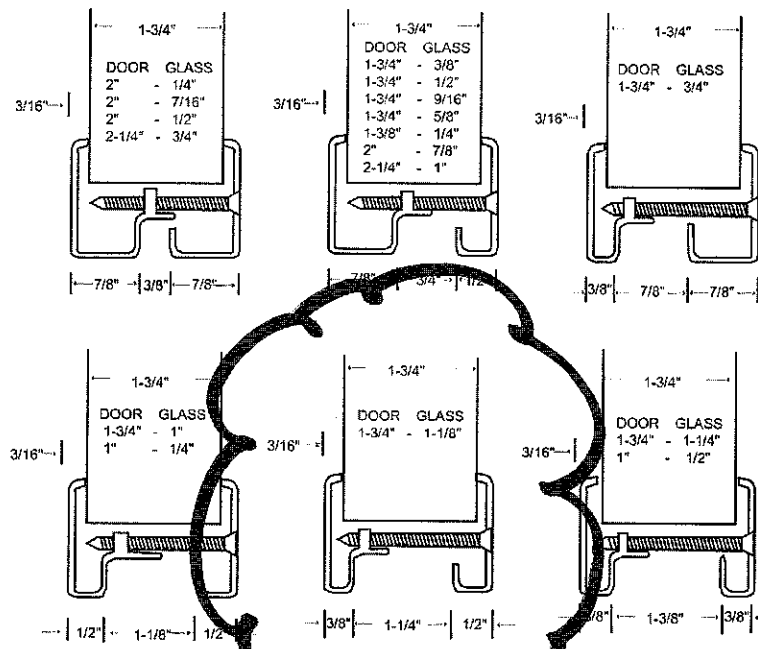
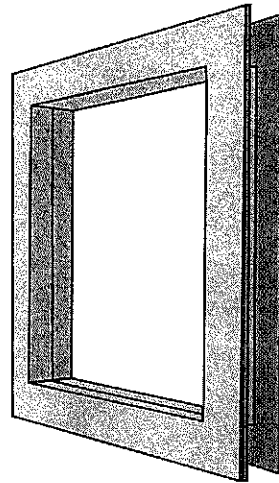
- 18 ga. cold rolled steel
- Mitered and welded corners
- Welded reinforcing clips at corners
- Countersunk mounting screw-holes
- #6 Phillips Truss Head SMS
- Gray Primer (GPZ) powder coat finish

### Required Information

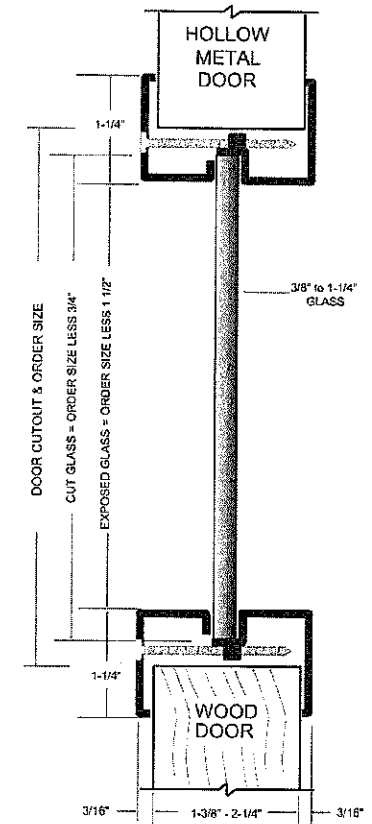
- Specify glass thickness on order
- Specify door thickness on order if other than 1-3/4"

### Available Options

- Powder coat color options - see color chart on [www.ngp.com](http://www.ngp.com)
- False mullion bars
- Torx Security Screws
- Galvanneal - A40 Steel
- Zinc electro-plating
- Glass & Glazing tape
- Lead lining - .030" thick lead

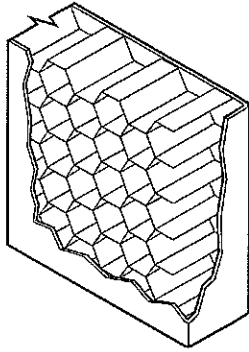


<b>Project:</b>
<b>Submitted by:</b>
<b>Date:</b>
<b>Notes:</b>



Doors • L Series

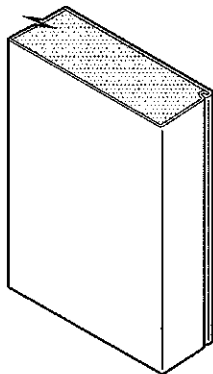
Rigid Honeycomb



Standard Laminated Honeycomb Core

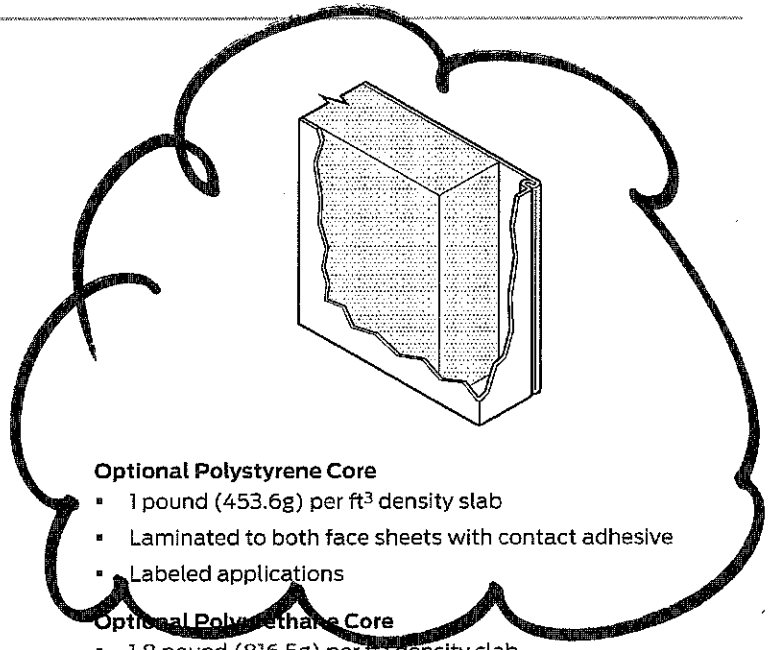
- 1" (25 mm) cell, 99 pound Kraft honeycomb
- Honeycomb surfaces sanded for maximum adhesion
- Impregnated with phenolic resin (resists mildew and vermin)
- Laminated to both face sheets with contact adhesive
- Assembled door is run through high pressure pinch rollers, achieving ultimate bond

Optional cores are polystyrene or polyurethane



Standard Premium Edge Construction

- Beveled hinge & lock edges
- Full height mechanical interlock with epoxy adhesive
- Visible edge seam standard
- Seamless edge optional

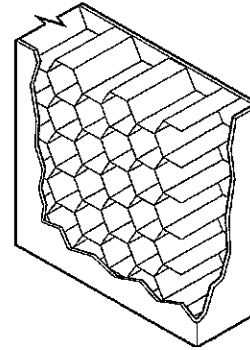


Optional Polystyrene Core

- 1 pound (453.6g) per ft<sup>3</sup> density slab
- Laminated to both face sheets with contact adhesive
- Labeled applications

Optional Polyurethane Core

- 1.8 pound (816.5g) per ft<sup>3</sup> density slab
- Laminated to both face sheets with contact adhesive
- Non-Labeled applications



Standard Rigid 14 Gauge End Channel Construction

- 14 gauge inverted galvanized top & bottom channels
- Projection welded to both face sheets
- For optional caps, see "Weather seals" on page 145.

Door application and usage			
Series	Steel Thickness	Opening	Usage Frequency
L20	20 Ga (0.8 mm)	Interior - Cold Rolled Steel	Standard Duty
L20	20 Ga (0.8 mm)	Exterior - Galvanized Steel	Light Commercial applications with minimal use and abuse
L18	18 Ga (1.0 mm)	Interior - Cold Rolled Steel	Heavy Duty
L18	18 Ga (1.0 mm)	Exterior - Galvanized Steel	Heavy Commercial & Institutional applications with high use
L16	16 Ga (1.3 mm)	Interior - Cold Rolled Steel	Extra Heavy Duty
L16	16 Ga (1.3 mm)	Exterior - Galvanized Steel	Extra Heavy Commercial applications with potential of very high use
L14	14 Ga (1.7 mm)	Interior - Cold Rolled Steel	Maximum Duty
L14	14 Ga (1.7 mm)	Exterior - Galvanized Steel	Extra Heavy Commercial applications with extremely high use

**Doors - L Series**

**Door edge construction**

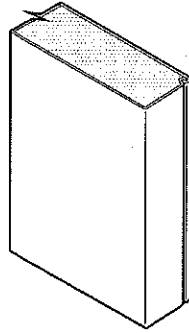
**Optional Edge Seams available in the L Series doors:**

- **L:** Standard feature includes visible edge seams with full height interlocked edges.
- **LF:** the mechanical edge seam is filled and dressed smooth prior to applying the factory primer.
- **LW:** the mechanical edge seam is welded and dressed smooth prior to applying the factory primer.

**Standard visible edge seam**

**L Series visible seam features**

- Full height mechanical interlock
- Interlock filled with epoxy adhesive
- Visible edge seam



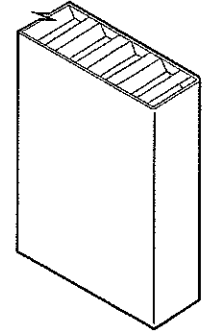
**Optional seamless edge**

**LF Series Seam Filled Features**

- Standard Visible Edge Seam is tack welded above and below edge cutouts for hinges, locks, etc.
- Edge Seam is then filled with structural adhesive and dressed smooth

**LW Series Seam Welded Features**

- Standard Visible Edge Seam is intermittently welded using 1" long welds
- Edge Seam is then filled with structural adhesive and dressed smooth
- No visible edge seam

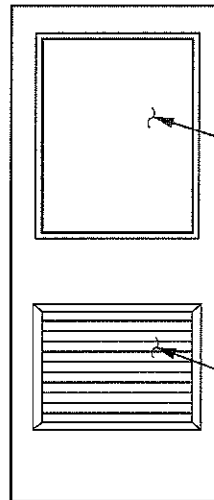
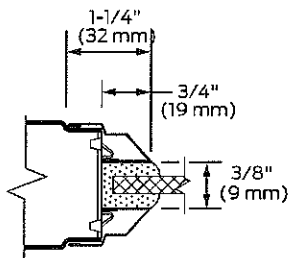


**Glass light options**

(Refer to the Lights and Louvers section for further details and options)

**Dezigner® Trim**

- Standard for 1/4" Thick Glass
- Optional for 1/2" Thick Glass

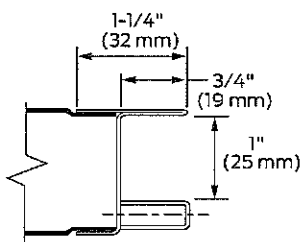


**Note:** Glazing type and thickness vary per job requirements.

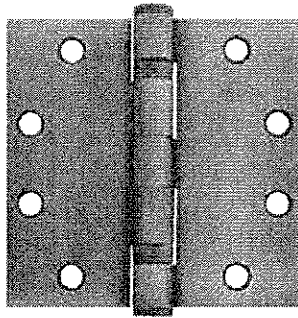
**Note:** Louver size and type vary per requirements.

**Flush Mounted Steel Trim**

- For 1" Thick Glass



**Divider Muntins Are Not Available**



**5BB1 5 Knuckle, ball bearing full mortise hinge**

- \* Recommended for medium weight doors (<150 lbs)
- \* Recommended for medium frequency usage (<400 cycles per day)
- \* Made with two ball bearing assemblies
- \* Recommended for use with a door closer
- \* Packed with fasteners for hollow metal and wood doors
  - 12-24 x 1/2 UFPHMS, 12 x 1 1/4 FPHWS
  - 10-24 x 1/2 UFPHMS, 10 x 1 FPHWS (3.5x3.5 hinge size only)

**Certifications**

- \* Certified to ANSI/BHMA A156.1 for performance standards
- \* Meets ANSI/BHMA 156.7 for template hinge dimensions
- \* UL Classified for windstorm rated assemblies - R37965
- \* UL Listed, 3 hour fire doors

**Material substrate**

- \* Made from brass, 1040 steel, or 304 series stainless steel

**Options**

- \* NRP ..... Non-removable pin
- \* HT ..... Hospital tip
- \* SH ..... Security stud - comes standard with NRP
- \* RC-1/4, RC-5/8. . . Rounded corners
- \* SEC ..... Security fasteners - pin-in-socket
- \* TW4 ..... Four wire
- \* TW4M ..... Four wire with monitor
- \* TW8 ..... Eight wire
- \* TW8M ..... Eight wire with monitor
- \* MON ..... Monitor (not available on 3.5X3.5)

**Dimensions**

Height x Width	Size (mm)	Gauge
3.5 x 3.5	89 x 89	0.123
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
5 x 4.5	127 x 114	0.146
5 x 5	127 x 127	0.146

Refer to General Hinge Information page to determine proper hinge for application

**5BB1 Finishes**

BHMA	Description	Substrate	Finish
600	Primer paint	Steel	USP
605	Bright brass	Brass	US3
606	Satin brass	Brass	US4
610	Satin bronze	Brass	US10
613	Oil rubbed bronze	Brass	US10B
614	Oxidized bronze	Brass	US10A
615	Blackened bronze	Brass	US11
619	Satin nickel	Brass	US15
622	Matte black	Brass	B-BLK
625	Bright chrome	Brass	US26
626	Satin chrome	Brass	US26D
643e/716	Aged bronze	Brass	B-643e/716
629	Bright stainless	Stainless steel	US32
630	Satin stainless	Stainless steel	US32D
631	Matte black	Steel	F-BLK
632	Bright brass	Steel	US3
633	Satin brass	Steel	US4
639	Satin bronze	Steel	US10
640	Oil rubbed bronze	Steel	US10B
641	Oxidized bronze	Steel	US10A
643	Blackened bronze	Steel	US11
646	Satin nickel	Steel	US15
651	Bright chrome	Steel	US26
652	Satin chrome	Steel	US26D
643e/716	Aged bronze	Steel	F-643e/716

For other colors, consult factory.

Hinges & pivots **A11**  
 Pulls & plates **B**  
 Flush bolts & coordinators **C**  
 Catches, catches & bolts **D**  
 Stops **M**  
 Exit or hardware **H**  
 Miscellaneous hardware **G**

# ND Series mechanical lock

The ND mechanical lock, along with being Schlage's best selling mechanical lock, is the foundation for both the wired/electrified and NDE wireless electronic lock. Not only did Schlage invent the cylindrical lock, but we continue to make it better with capabilities such as:

- Unparalleled strength - the lock prevents access even when subjected to torque loads up to 3,100 in-lbs (2.6x BHMA<sup>1</sup>), withstands pry bar attacks of 1,600 lbs (8x BHMA requirements<sup>2</sup>), and withstands 100 hammer blows (20x BHMA requirements<sup>2</sup>).
- Exceptional durability - cycle tested to over 16M cycles (16x BHMA requirements<sup>1</sup>) with near zero droop or wobble - without the use of set screws or O-rings.
- Improved feel - Improved strength and durability are more than numbers. You can actually feel it in the lock.
- Improved installation - Installation is even easier than before (and without any set screws or O-rings).

All this is in addition to what you know and expect with the Schlage ND 31 mechanical functions (plus wired/electrified and wireless electronic) to meet the needs of any application, nine lever designs that suite with other Schlage locks and Von Duprin exit devices, renowned sales, customer and technical support.

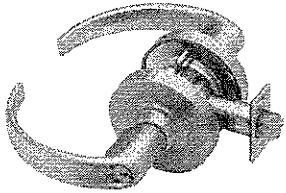


1. Beyond grade 1 performance for ND locks with Schlage cylinders only (standard FSC & GBIC). Performance with non-Schlage cylinders will exceed BHMA Grade 1 requirements but may be less than the performance of products with Schlage cylinders.

2. Vertical impact testing stopped after 100 blows with no sign of failure or stress.



## Cylindrical lock comparison

ND  
mechanical

## Applications

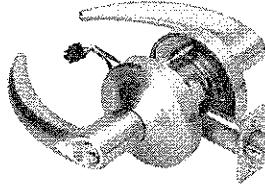
The Schlage ND is extremely versatile and is regularly used in healthcare, education, government, office, retail and other commercial applications.

With 31 mechanical functions, the ND's range spans from the simple (non-locking passage) to complex (double-cylinder security) to specialized (school time-out lock).

Because the ND uses an ANSI 161 door prep, commonly used across cylindrical locks, it is ideal for both new construction and retrofit applications.

## Key features

- \* Significantly exceeds ANSI/BHMA A156.2 requirements for Grade 1 cylindrical locks
- \* 31 mechanical functions (see adjacent columns for wired electrified and electronic options)
- \* Nine lever designs, two rose designs
- \* 10 available finishes
- \* Supports standard, SFIC and FSIC cylinder formats
- \* Multiple key systems available – open, patented, restricted, geographic exclusive, UL437
- \* Support for 10 non-Schlage cores (see cylinder section)

ND wired  
electrified

## Applications

Wired electrified locks complement the mechanical offering and are typically incorporated into a wired access control system or used independently with a remote access switch (e.g. switch behind a receptionist desk).

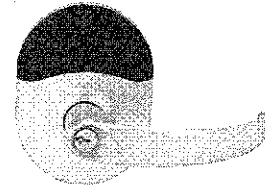
The electrified ND is ideally used in:

- \* high traffic areas, where line power ensures continuous operation
- \* new construction, where electrified door prep, hinges and wiring can easily be incorporated into the building

## Key features

All mechanical features plus:

- \* auto-detecting 12-24VDC input
- \* selectable EL/EU operation
- \* low 0.23 amp max current draw that allows multiple locks on a single power supply
- \* low 0.010 amp holding current that eliminates "hot levers" in electrically locked applications
- \* modular Request to Exit (RX) that can be added at any time
- \* inventory friendly—one lock supports 12-24V, EL or EU, with or without RX
- \* six electrified functions for application flexibility

NDE wireless  
electronic

## Applications

Wireless electronic locks complete the offering by delivering all of the access control system hardware components required at the door in a single integrated design.

NDE wireless lock applications include:

- \* retrofit applications where electronic credentials can be used for improved visibility and control
- \* new construction to expand the scope of access control to interior openings
- \* low to medium traffic areas, where battery power delivers long life

## Key features

All mechanical features<sup>1</sup> plus:

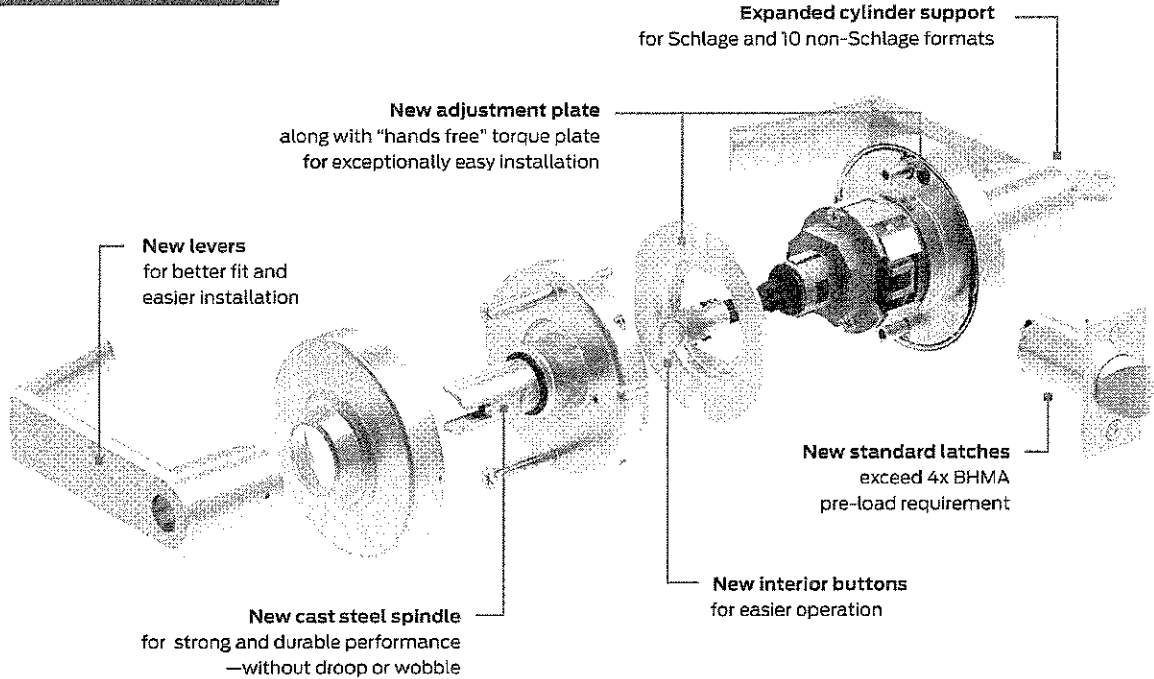
- \* Fits standard ANSI 161L mechanical door prep
- \* Installs in minutes with only a Phillips screwdriver
- \* Integrated card reader, door position sensor and Request to Exit (RX) switch
- \* Built-in Bluetooth® enables wireless configuration from smart phones and tablets
- \* Built-in Wi-Fi enables automatic updates to access rights
- \* Capable of networked real-time communication<sup>2</sup>
- \* Up to 2 years of battery life (4 AA)

1 NDE wireless electronic lock available in seven lever designs, one rose design, and nine finishes only.

2 Requires ENGAGE™ Gateway and alliance access control software.

A detailed look...

### ND mechanical



### ND wired/electrified

All mechanical  
features +

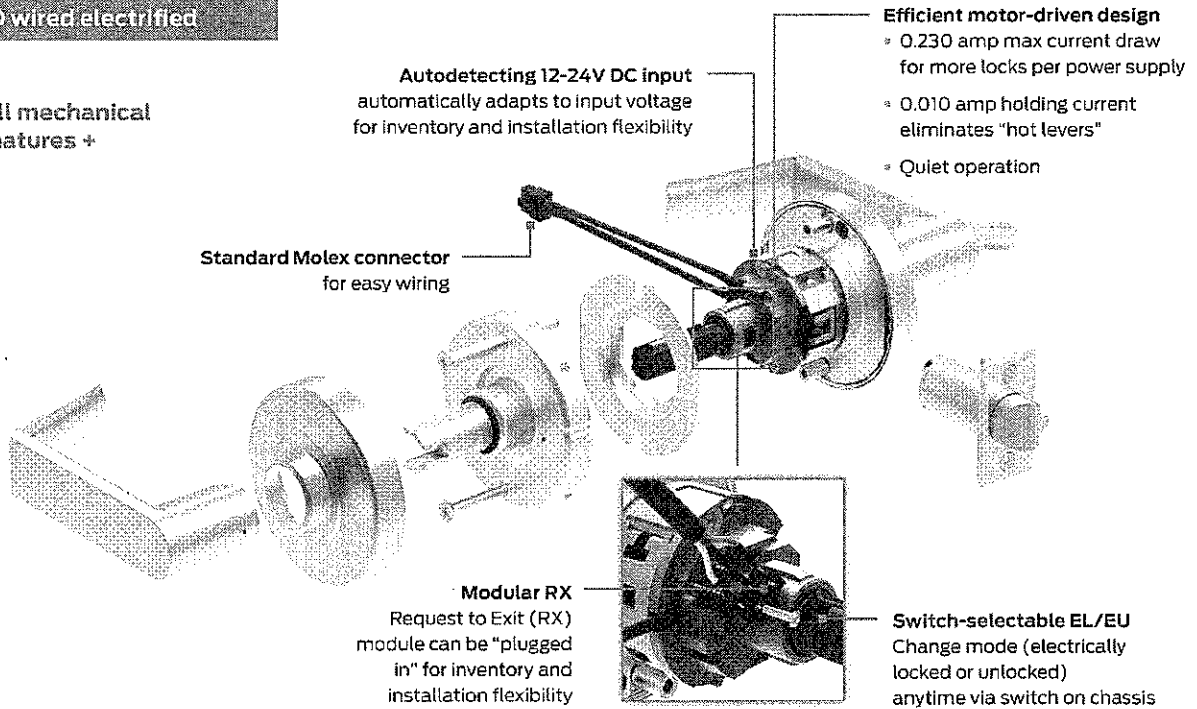
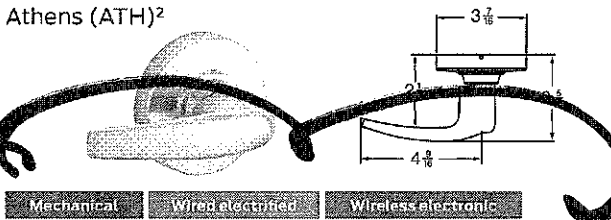


Image rotated 180°



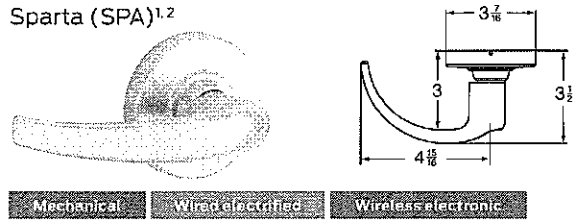
# Lever designs and finishes

Athens (ATH)<sup>2</sup>



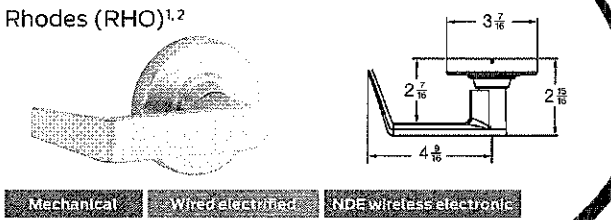
Mechanical | Wired electrified | Wireless electronic

Sparta (SPA)<sup>1,2</sup>



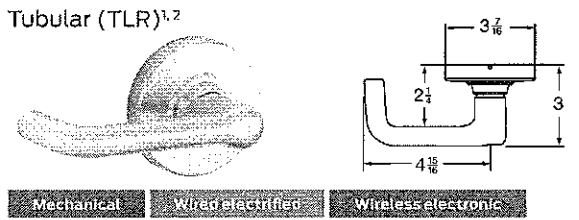
Mechanical | Wired electrified | Wireless electronic

Rhodes (RHO)<sup>1,2</sup>



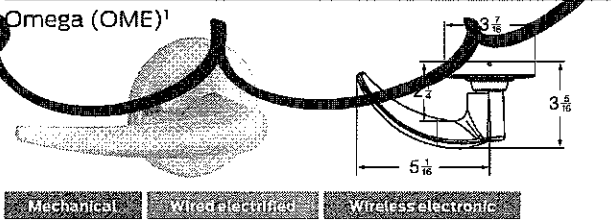
Mechanical | Wired electrified | NDE wireless electronic

Tubular (TLR)<sup>1,2</sup>



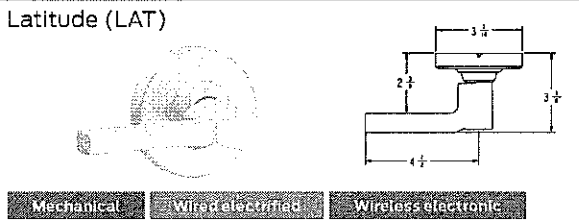
Mechanical | Wired electrified | Wireless electronic

Omega (OME)<sup>1</sup>



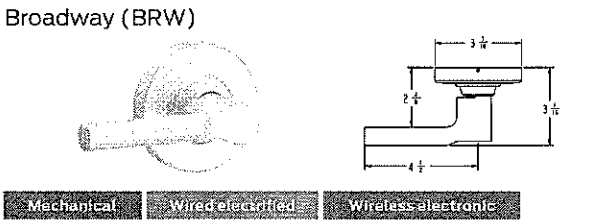
Mechanical | Wired electrified | Wireless electronic

Latitude (LAT)



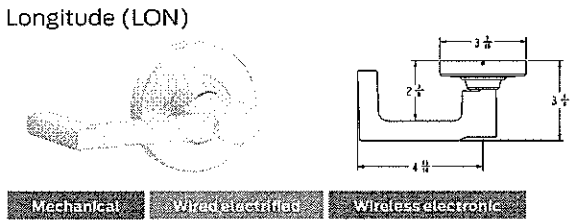
Mechanical | Wired electrified | Wireless electronic

Broadway (BRW)



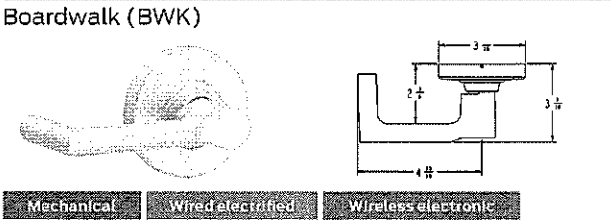
Mechanical | Wired electrified | Wireless electronic

Longitude (LON)



Mechanical | Wired electrified | Wireless electronic

Boardwalk (BWK)



Mechanical | Wired electrified | Wireless electronic









All levers comply with the Americans with Disabilities Act (ADA).

- Boardwalk, Longitude, Omega, Rhodes, Sparta and Tubular levers comply with California State code for return within 1/2" of door face.
- Athens, Rhodes, Sparta and Tubular levers support cylinders from other manufacturers, see cylinder section on page 24 for details.

Finish options	[Color swatches]									
Color	Bright brass	Satin brass	Satin bronze	Oil rubbed bronze	Satin nickel	Matte black	Bright chrome	Satin chrome	Aged bronze	
ANSI/BHMA number	605	606	612	613	619	622	625	626/626AM	643e	
US number	US3	US4	US10	US10B	US15	US19	US26	US26D	US11	
Mechanical	☑	☑	☑	☑	☑	☑	☑	☑	☑	
Wired electrified	☑	☑	☑	☑	☑	☑	☑	☑	☑	
Wireless electronic	☑	☑	☑	—	☑	☑	☑	☑	☑	

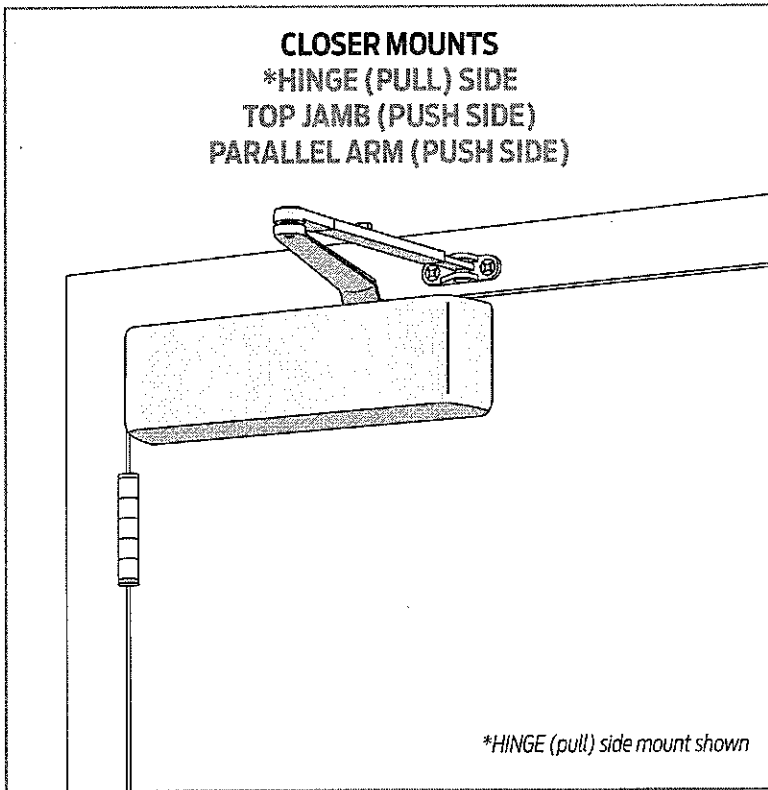
Product information and specifications contained in this catalog are subject to change without notice. Please consult the factory.

ND Series mechanical lock  
Keyed function list

<p>Schlage ANSI ND50PD F82</p> <p><b>Entrance/office lock</b></p> <ul style="list-style-type: none"> <li>• Push-button locking.</li> <li>• Push-button locks outside lever until it is unlocked with key or by turning inside lever.</li> <li>• Inside lever always free for immediate egress.</li> </ul> <p>Outside Inside</p> 	<p>Schlage ANSI ND53PD FT09</p> <p><b>Entrance lock</b></p> <ul style="list-style-type: none"> <li>• Turn/push-button locking: Pushing and turning the button locks the outside lever, requiring use of a key until the button is manually unlocked.</li> <li>• Push-button locking: Pushing button locks outside lever until unlocked by key or by turning the inside lever.</li> <li>• Inside lever always free for immediate egress.</li> </ul> <p>Outside Inside</p> 	<p>Schlage ANSI ND60PD F88</p> <p><b>Vestibule lock</b></p> <ul style="list-style-type: none"> <li>• Latch retracted by key from outside when outside lever is locked by key in inside lever.</li> <li>• Inside lever always free for immediate egress.</li> </ul> <p>Outside Inside</p> 	<p>Schlage ANSI ND66PD F91</p> <p><b>Store lock†</b></p> <ul style="list-style-type: none"> <li>• Key in either lever locks or unlocks both levers.</li> </ul> <p>Outside Inside</p> 
<p>Schlage ANSI ND70PD F84</p> <p><b>Classroom lock</b></p> <ul style="list-style-type: none"> <li>• Outside lever locked and unlocked by key.</li> <li>• Inside lever always free for immediate egress.</li> </ul> <p>Outside Inside</p> 	<p>Schlage ANSI ND73PD F90</p> <p><b>Corridor lock</b></p> <ul style="list-style-type: none"> <li>• Locked or unlocked by key from outside.</li> <li>• Push-button locking from inside.</li> <li>• Turn inside lever or close door to release button.</li> <li>• When outside lever is locked by key it can only be unlocked by key.</li> <li>• Inside lever always free for immediate egress.</li> </ul> <p>Outside Inside</p> 	<p>Schlage ANSI ND75PD -</p> <p><b>Classroom security lock</b></p> <ul style="list-style-type: none"> <li>• Key in either lever locks or unlocks outside lever.</li> <li>• Inside lever always free for immediate egress.</li> </ul> <p>Outside Inside</p> 	<p>Schlage ANSI ND80PD F86</p> <p><b>Storeroom lock</b></p> <ul style="list-style-type: none"> <li>• Outside lever is fixed.</li> <li>• Entrance by key only.</li> <li>• Inside lever always free for immediate egress.</li> </ul> <p>Outside Inside</p>  <p>Available with RX</p>

# 4040XP SERIES

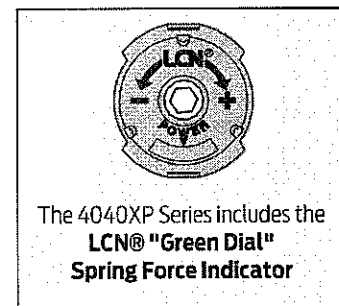
## FEATURES



The 4040XP is LCN's most durable and flexible heavy duty closer designed for institutional and other demanding high traffic applications.

- Cast Iron
- Forged Steel Arm
- Double Heat Treated Steel Pinion
- All Weather Fluid
- Non-Handed
- LCN Patented Green Dial
- Peel-n-Stick Templates for Fast and Accurate Installation
- UL & cUL Listed
- 3/4" Journal Diameter Pinion
- Full Compliment Bearing

- Standard 4040XP Series closer shipped with regular arm, standard plastic cover, and self reaming and tapping screws.
- Non-sized cylinder is adjustable for interior doors to 5'0" and exterior doors to 4'0".
- Closer mounts hinge side, top jamb, and parallel arm on either right or left swinging doors.
- Closers to meet ADA requirements.
- Standard or optional custom powder coat finish.
- Optional plated finish on cover, arm, and fasteners.
- Optional SRI primer for installations in corrosive conditions. (Available with powder coat finishes only.)
- UL and cUL listed for self-closing doors without hold-open.
- Tested and certified under ANSI Standard A156.4, grade one.



MOUNTING					FINISH		COVER	CYLINDER			*ARM FUNCTION											
HINGE (PULL) SIDE	TOP JAMB (PULL)	TOP JAMB (PUSH)	PARALLEL ARM	STOP FACE	POWDER COAT	PLATED	PLASTIC	METAL	NON-HANDED	NON-SIZED	ACCESSIBILITY	DELAYED ACTION	AVB**	REGULAR (DOUBLE)	STANDARD (SINGLE)	HOLD-OPEN	FUSIBLE LINK	ED/AMEDA	GUSH/HICUSH	SCUSH/SHUSH	DOUBLE EGRESS	
●	○	●	●	○	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○

- AVAILABLE
- NOT AVAILABLE
- ♿ Closer available with less than 5.0 lbs. opening force on 36" door.
- \*\* Maximum opening/hold-open point with standard template.
- \*\*\* Advanced Variable Backcheck.
- \*\*\*\* Delayed Action Closer incorporates standard 4041 Delay Cylinder.

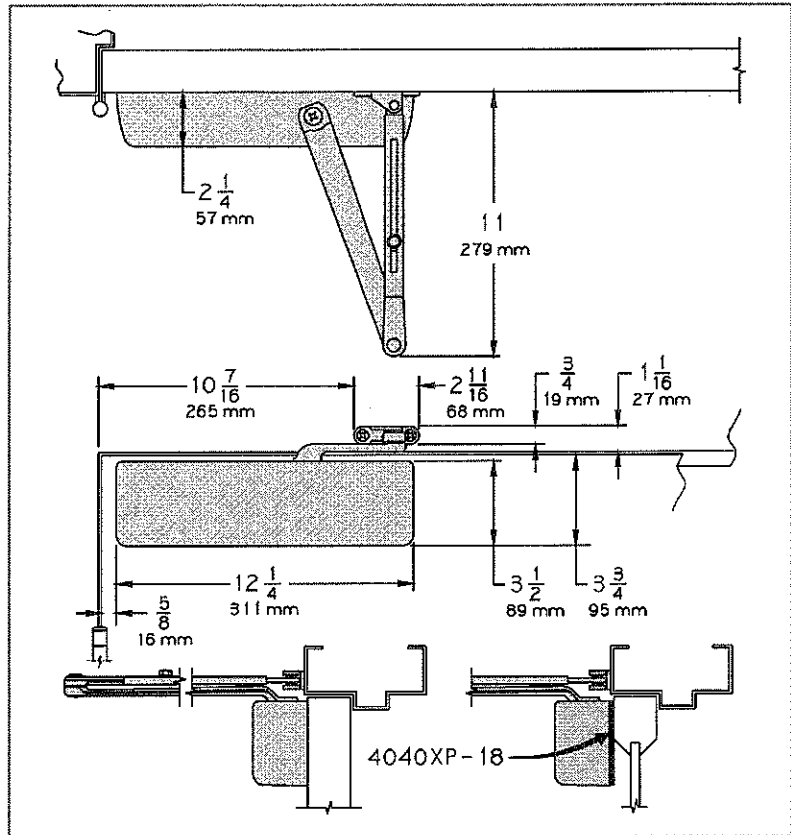
# 4040XP SERIES

## HINGE (PULL) SIDE MOUNTING

### MAXIMUM OPENING

Templating allows up to 120°.

Hold-open points 90° up to 120° with hold-open arm.



- **Butt Hinges** should not exceed 5" (127 mm) in width.
- **Auxiliary Stop** is recommended at hold-open point or where a door cannot swing beyond 120°.
- **Reveal** should not exceed 3/4" (19 mm) for regular arm or hold-open arm.
- **Top Rail** less than 3-3/4" (95 mm) requires PLATE, 4040XP-18. Plate requires 2" (51 mm) minimum.
- **Clearance** of 2-3/8" (60 mm) behind door required for 90° installation.
- **\*Delayed Action** Incorporates standard 4041 cylinder, without XP cylinder. Delays closing from 120° to 70°. Delay time adjustable up to approximately 1 minute.

### Options

- 4041 Delayed action cylinder\*
- Hold-open arm.
- Metal cover.

### Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

# 4040XP SERIES

ORDERING INFORMATION

## TABLE OF SIZES

4040XP cylinders are adjustable from size 1 through size 6 and is shipped set to size 3.

Closing power of 4040XP Series closers may be adjusted 50%.

### EXTERIOR (and VESTIBULE) DOOR WIDTH

	24" 610mm	30" 762mm	36" 914mm	42" 1067mm	48" 1219mm
<b>*4040XP</b>	size 3	size 4	size 5	size 6	

Minimum Door Width

### INTERIOR DOOR WIDTH

	24" 610mm	34" 864mm	38" 965mm	48" 1219mm	54" 1372mm	60" 1524mm
<b>*4040XP</b>	size 2	size 3	size 4	size 5	size 6	

Minimum Door Width


→ Indicates recommended range of door width for closer size.

\* Adjustable Size 1 thru 6.

## REDUCED OPENING FORCE 4040XP SERIES CLOSERS

**CAUTION!** Any manual door closer, including those certified by BHMA to conform to ANSI Standard A156.4, that is selected, installed and adjusted based on ADA or other reduced opening force requirements may not provide sufficient power to reliably close and latch a door.

Refer to POWER OPERATORS section for information on systems that meet reduced opening force requirements without effecting closing power.

	DOOR WIDTH	36"	42"	48"
	8.5* lbs.	4040XP	4040XP	4040XP
	5.0* lbs.	4040XP	4040XP	4040XP

\* Maximum opening force.

## HOW-TO-ORDER 4040XP SERIES CLOSERS

### 1. SELECT FINISH

- Standard Powder Coat \_\_\_\_\_  
Aluminum, Dark Bronze, Statuary,  
Light Bronze, Black, Brass.

### Closer will be shipped with:

- STANDARD CLIP-ON COVER
- SPECIFY ARM WHEN ORDERING
- SELF-REAMING and TAPPING SCREWS,  
unless options listed below are selected.

## CLOSER OPTIONS

### CYLINDER

- Delayed Action (4041 DEL)

### COVER

- Metal (specify right or left hand) (MC)

### FINISH

- Custom Powder Coat (RAL) \_\_\_\_\_  
(handed metal cover required)
- Plated Finish, US \_\_\_\_\_  
(handed metal cover required)
- SRI primer (use with powder coat finishes only)

### ARM

- Regular (REG)
- Regular w/62PA (Rw/PA)
- Regular w/62A (R/62A)
- Long (LONG)
- Extra Long (XLONG)
- Hold-Open (H)
- Hold-Open w/62PA (Hw/PA)
- Long Hold-Open (HLONG)
- Extra Duty Arm (EDA)
- Extra Duty Arm with 62G (EDA/62G)
- Hold Open Extra Duty Arm (HEDA) (Handed)
- Hold Open Extra Duty Arm with 62(HEDA/62G)(Handed)
- Cush-N-Stop (CUSH)
- HCush-N-Stop (HCUSH)
- Spring Cush (SCUSH)
- Spring HCush (SHCUSH)

### OPTIONAL SCREW PACKS

- TB\* w/Self-reaming and Tapping (TBSRT)
  - Wood & Machine Screw (WMS)
  - TB\*, Wood & Machine Screw (TBWMS)
  - TORX Machine Screw (TORX)
  - TB\* & TORX Machine Screw (TBTRX)
- \* Specify door thickness if other than 1-3/4".

### INSTALLATION ACCESSORIES

- Plate, 4040XP-18
- Plate, 4040XP-18TJ
- Plate, 4040XP-18G
- Plate, 4040XP-18PA
- CUSH Shoe Support, 4040XP-30
- Blade Stop Spacer, 4040XP-61
- Auxiliary Shoe, 4040XP-62A
- PA Flush Panel Adapter, 4040XP-419

### SPECIAL TEMPLATE

- ST- \_\_\_\_\_

PHONE 877-671-7011  
FAX 800-248-1460  
www.allegion.com/us  
4/15 009426

# Silicone Seals

**Properties:**

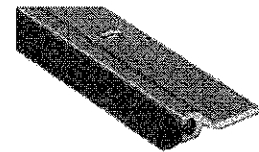
- Synthetic rubber polymer: Siloxane
- Excellent flexibility and memory
- Flame resistant
- Moisture resistant
- Temperature range -100°F to 500°F, remains flexible at extreme temperatures
- Excellent resistance to ozone, UV and aging
- Recommended for areas using FM200 or Halon Fire Suppression Systems
- BHMA Certified to ANSI/BHMA A156.22 performance tests for Heat, Cold, Air Infiltration and Smoke Infiltration

All silicone seals this section

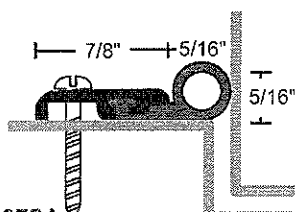


- A - clear anodized
- B - gold
- DKB - dark bronze
- no suffix - mill aluminum
- dense silicone is black
- exception: 137 silicone is gray

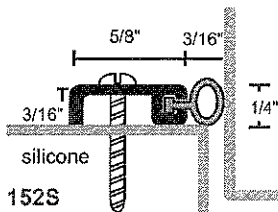
#6 x 3/4" Stainless Steel Sheet Metal Screws furnished  
Screw holes slotted for adjustment



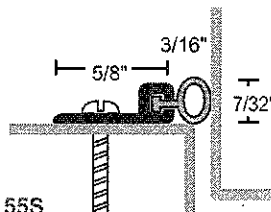
## Dense Bulbs



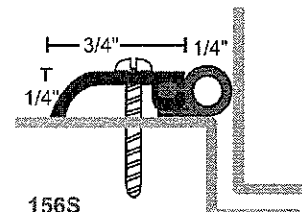
137SA  
137SB  
137SDKB



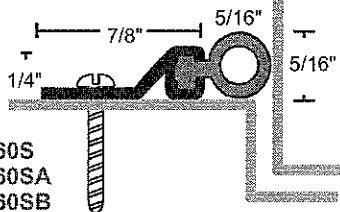
152S  
152SA  
152SB  
152SDKB



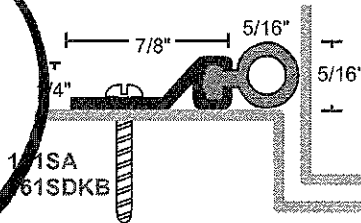
155S  
155SB  
155SDKB



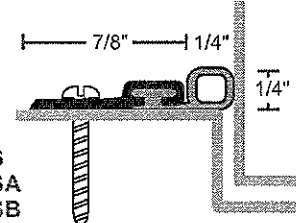
156S  
156SDKB



160S  
160SA  
160SB  
160SDKB



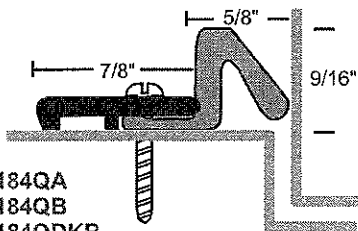
.07 aluminum for military specs



162S  
162SA  
162SB  
162SDKB

## Q-Loc® Foam Seals

Brown polyethylene liner with foam core

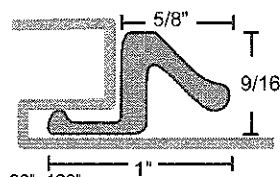


184QA  
184QB  
184QDKB



### Kerf Application

Fits 1/8" wide x 7/16" deep kerf



284Q

Stock lengths: 36", 48", 96", 120"



NATIONAL GUARD PRODUCTS, INC.

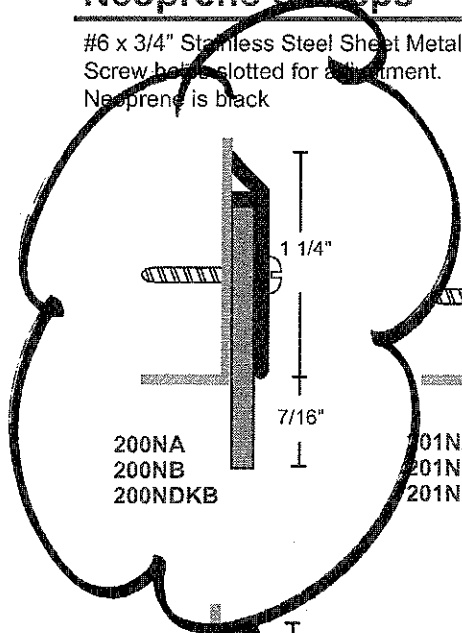
Phone 800-647-7874  
Fax 800-255-7874

orders@ngpinc.com  
quotes@ngpinc.com

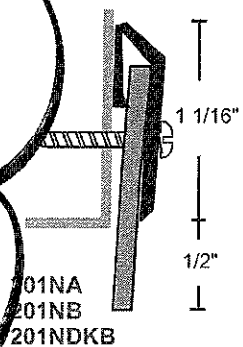
www.ngp.com

## Neoprene Sweeps

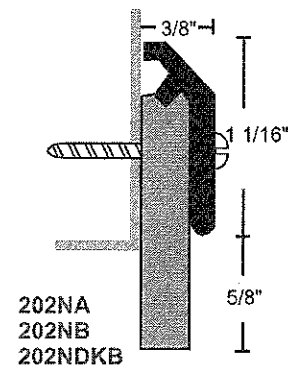
#6 x 3/4" Stainless Steel Sheet Metal Screws furnished.  
Screw holes slotted for adjustment.  
Neoprene is black



200NA  
200NB  
200NDBK

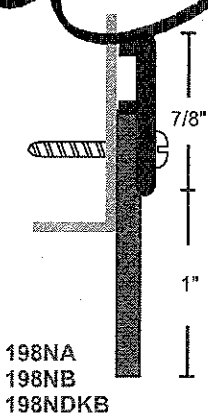


201NA  
201NB  
201NDBK

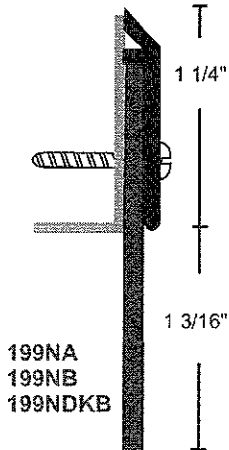


202NA  
202NB  
202NDBK

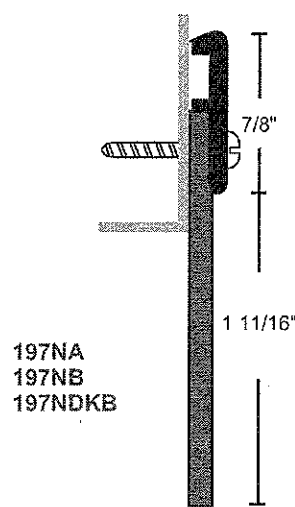
#6 x 1" stainless steel SMS



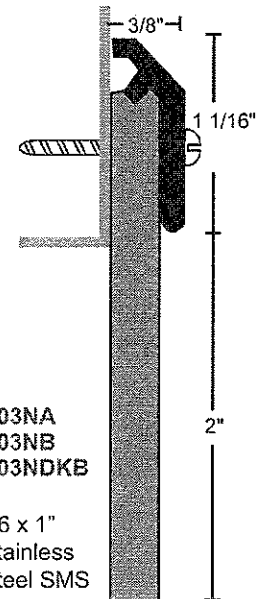
198NA  
198NB  
198NDBK



199NA  
199NB  
199NDBK



197NA  
197NB  
197NDBK



203NA  
203NB  
203NDBK

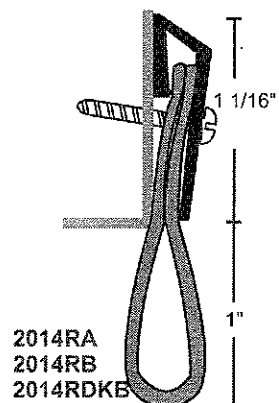
#6 x 1"  
stainless  
steel SMS

All products this page



Material Finishes:  
A - clear anodized aluminum  
DKB - dark bronze  
no suffix = mill aluminum  
neoprene is black

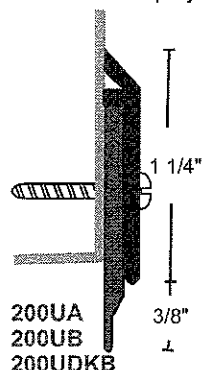
## Reinforced Neoprene Sweep



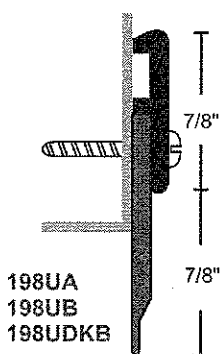
2014RA  
2014RB  
2014RDBK

## Polyurethane Sweeps

polyurethane is black



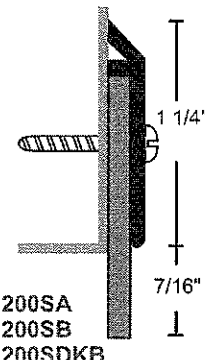
200UA  
200UB  
200UDKB



198UA  
198UB  
198UDKB

## Silicone Sweep

silicone is gray

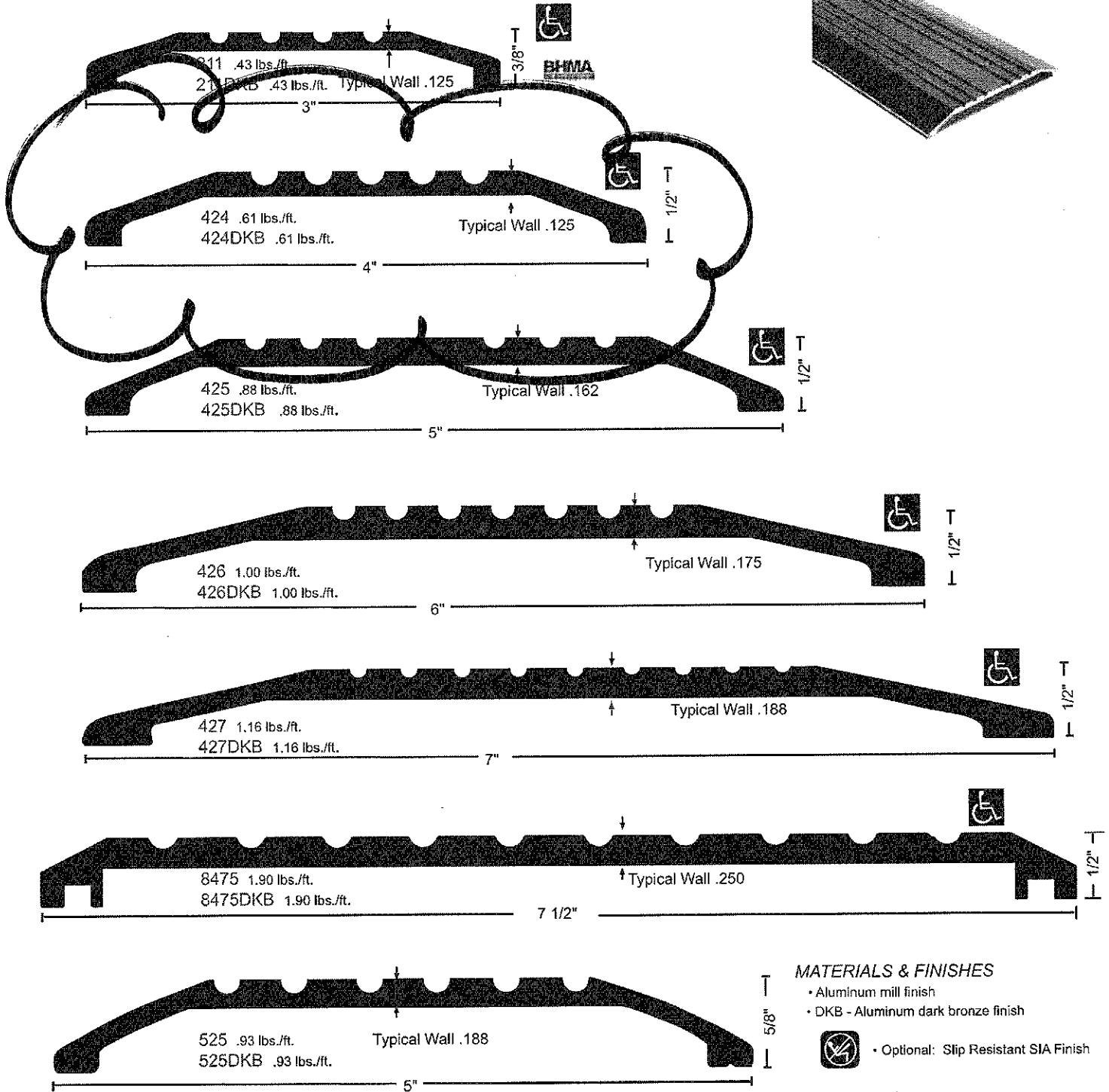
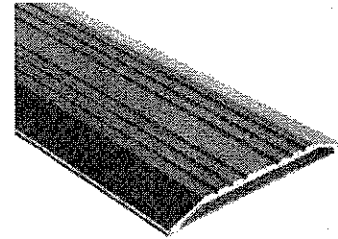


200SA  
200SB  
200SDBK



# Saddle Thresholds

All thresholds this page



### MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



• Optional: Slip Resistant SIA Finish

### FASTENERS

#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.



NATIONAL GUARD PRODUCTS, INC.

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

orders@ngpinc.com  
quotes@ngpinc.com

www.ngp.com