

Finish Hardware Catalog Cuts

Section 087100

November 22, 2021

PROJECT

Name: LS DEV CENTER CONF DOOR

Address:

Phone:

Superintendent:

Engineer:

CONTRACTOR

Name:

Address:

Phone:

Contact:

ARCHITECT

Name:

Address:

Phone:

Project Number:

HARDWARE SUPPLIER

Project Manager:

LS DEV CENTER CONF DOOR (ASSA)

The Genuine. The Original.



Overhead Door Company of Kansas City
1901 E. 119th St.

Olathe KS 66061

(816) 221-0072

Fax: (816) 480-2668

Control No. 10268

ETEC-112221

Submitted By:

November 22, 2021

OPENING SCHEDULE

Heading SET 01

Mark / Area	KeyGroup	Qty	Mode	Description	Location	Size / Material / Rating	Hand	Degree
001		1	SGL	DOOR	TO CONFERENCE ROOM	3-0 x 7-0 x 1 3/4 WD Door/ HMF Frame NON-RTD Door/NON-RTD Frame	LH	

1 Frame HMF FACE WELD Series: F 16 Size: 3-0x7-0 Material: CRS Elev: Arch Elev: STE JD: 5 3/4 Anchors: SS Mfr: STE

1 Door WD Series: ASP WV M Size: 3-0x7-0 Core: PC Face: PSWOK Finish: TBD Elev: Arch Elev: WD Mfr: MAS

Arch Set Name: SET 01

Opening to receive:

Qty	UM	Type	Description	Finish	Mfr
3	EA	HINGE, 4 1/2, STD WT	MPB79 4-1/2 X 4-1/2	26D	MCK
1	EA	PASSAGE SET, WITH THRU BOLTS	MO-5401LN X 693 X 497	626	YAL
1	EA	CLOSER	2701	689	YAL
1	EA	WALL STOP	480	U020D	RCO

End of Schedule

Abbreviations Used

Abb	Description
CRS	COLD ROLLED STEEL
FW	FULL FACE WELD
HMF	HOLLOW METAL FRAME
M	MATCHING EDGE, 7 PLY DOORS
PC	PARTICLEBOARD CORE
PSWOK	PLAIN SLICED WHITE OAK
SS	STEEL STUD
STE	STEELCRAFT
TBD	FINISH TO BE DETERMINED
WD	WOOD DOOR

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A DH Pace Company

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ASPIRO™ SERIES | MARSHFIELD-ALGOMA™

Particleboard Core Non-Rated & 20 Min / Bonded Construction

Wood Veneer

Models		A-PC-B-NR A-PC-B-FR20			
DIMENSIONS	Thickness	1-3/8", 1-3/4"			
	Maximum Size	ITS-WH and UL- Max 20 Minute Sizes noted in this table are specific to 1-3/4" doors. Contact sales for information regarding other door thickness types.			
			Non-Rated	Neutral Pressure	CAT A Positive Pressure
		Singles	4'0"x10'0"	4'0"x10'0"	N/A
		Pairs	8'0"x10'0"	8'0"x9'0"	8'0"x9'0"
CONSTRUCTION		DE Pairs	8'0"x10'0"	8'0"x9'0"	8'0"x9'0"
	Surface Material	Hardwood, Softwood, Domestic, Exotic & Reconstituted Wood Veneers - A and AA Grade			
	Crossbands	One Piece High Density Fiberboard (HDF)			
	Vertical Edges*	Default: Matching/Compatible Veneer Edge Band over Structural Composite Lumber (1-1/4" before trim) Alternate Stile Options Upon Request: -Matching/compatible hardwood -Impact resistant edges (1-3/4" only)			
	Horizontal Edges*	Default: Structural Composite Lumber (1-1/4" before trim) Alternate Rail Options Upon Request: -Wide rails, hardwood rails, clean edge, veneer edge band - top only			
	Face & Core Assembly Adhesive	Type 1			
	Core Construction	Wood-based particleboard core			
	Lite Openings / Louvers	- Factory glazing recommended - Available with wood beads, metal vision frames, wood wrapped metal vision frames, or applied grilles - Wood and metal louvers in non-rated doors			
	Distance from Lock & Lite Cutouts	3-1/4" minimum distance from adjacent lock and lite cutouts			
	Details	Standard and custom applied moulding profiles, reveals and divided lites			
STC	Machining	Machining preparation per hardware manufacturer's templates			
	Factory Finish	Clear, standard and custom stain colors			
CREDITS & STANDARDS	Acoustic Rating†	STC 30 Operable when installed with tested seals and gaskets - Refer to Appendix M			
	Environmental Options	- CARB PH2 - NAUF - CARB ULEF upon request - FSC upon request			
	Environmental Product Declaration	Yes			
	Quality Standards	- WDMA I.S.1A Architectural Wood Flush Doors (Standard Construction) - AWS available upon request			
	WDMA Performance Duty Level†	Heavy Duty Note: This construction meets Extra Heavy Duty face screw pull values when surface mounted hardware is attached with through-bolts.			
WT.	Door Weight	Thickness	lbs/sf	Thickness	lbs/sf
		1-3/8"	4.3	1-3/4"	5.5
Warranty		Full; life of original installation. No exterior warranty. Interior use only.			

Note: Doors are manufactured per the standards listed on this page. Specifications are subject to change without notice.

* Fire-Rated doors will be constructed per label service listing and may deviate from above.

† Performance Duty Level and STC Ratings are based on 1-3/4" doors.

PRODUCT DESCRIPTION

ITEM #	QTY	ITEM
1	1	EDCL_SCS-COC-000675 3 - 0 x 7 - 0 x 0 - 1 3/4 Aspiro Marshfield-Algoma A-SCLC-B-NR

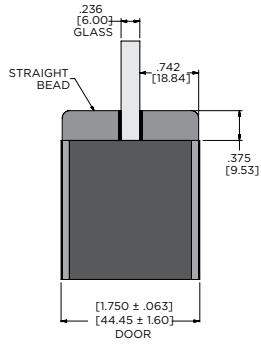
A GRADE PLAIN SLICED WHITE MAPLE BALANCE

- FSC MIX CREDIT SCL CORE
- 1 1/4 INCH SCL RAIL BEFORE TRIM
- 1 1/4 INCH SCL STILE BEFORE TRIM
- EDGE BANDING WHITE MAPLE
- GENERIC HINGE Quantity = 1
- GENERIC HINGE Quantity = 1
- GENERIC CYLINDRICAL LOCK
- Drill Pilot Holes For Hinges
- 1 1/4 INCH SCL RAIL BEFORE TRIM
- 1 1/4 INCH SCL STILE BEFORE TRIM
- EDGE BANDING WHITE MAPLE
- GENERIC HINGE Quantity = 1

ENVIROCLAD UV-CARAMEL

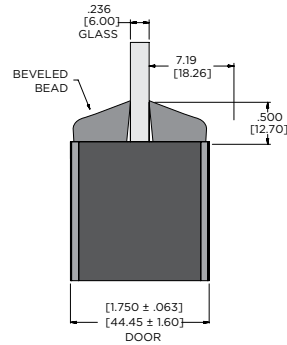
- FSC MIX 81% SCS-COC-000675
- Veneer Band
- ASPIRO
- LTL Package 1 Door
- TSCA TITLE VI COMPLIANT
- Bevel 1/8 in 2
- Individual Door Wrap

NEW DESIGN



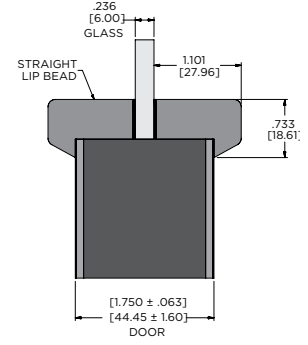
STRAIGHT BEAD

(Formerly Marshfield W6/ Algoma W9/
Mohawk Flush Bead)



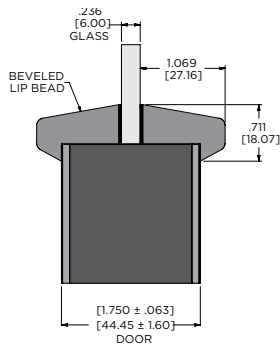
BEVELED BEAD

(Formerly Marshfield W7 - MFLD Beveled
Flush Bead)



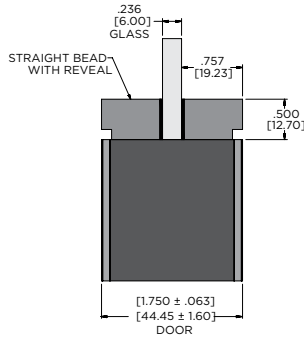
STRAIGHT LIP BEAD

(Formerly Marshfield W2)



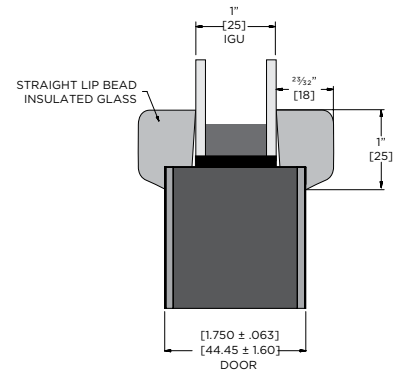
BEVELED LIP BEAD

(Formerly Marshfield W3)



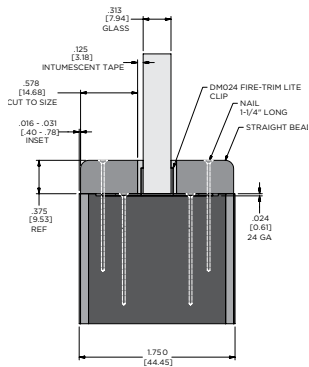
STRAIGHT BEAD W/REVEAL

(Formerly Marshfield W8)



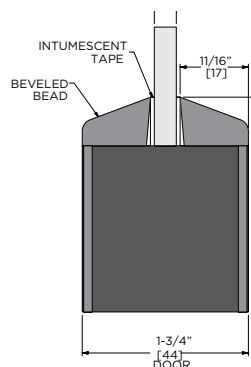
STRAIGHT LIP BEAD INSULATED GLASS

(Formerly Marshfield W10)



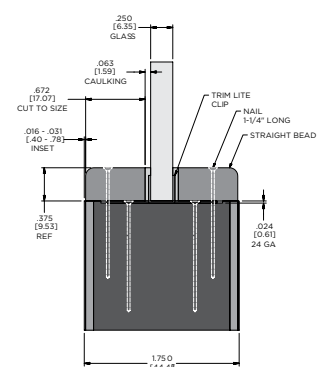
FIRE-TRIM BEAD

(Formerly Marshfield Fire-Trim)



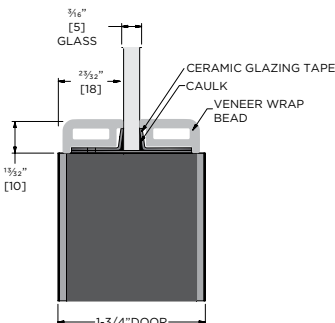
PYRO-TRIM BEAD

(Formerly Marshfield Pyro-Trim)



TRIM-LITE BEAD

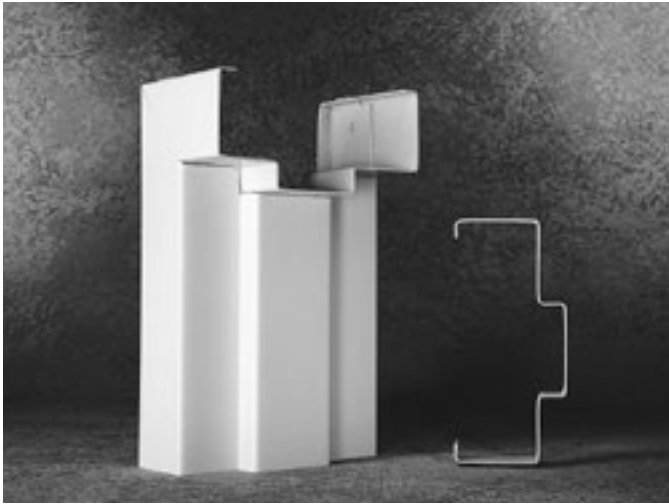
(Formerly Marshfield Trim-Lite)



VENEER WRAP BEAD

(Formerly Marshfield Veneer Clad/
Mohawk Veneer Clad)

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

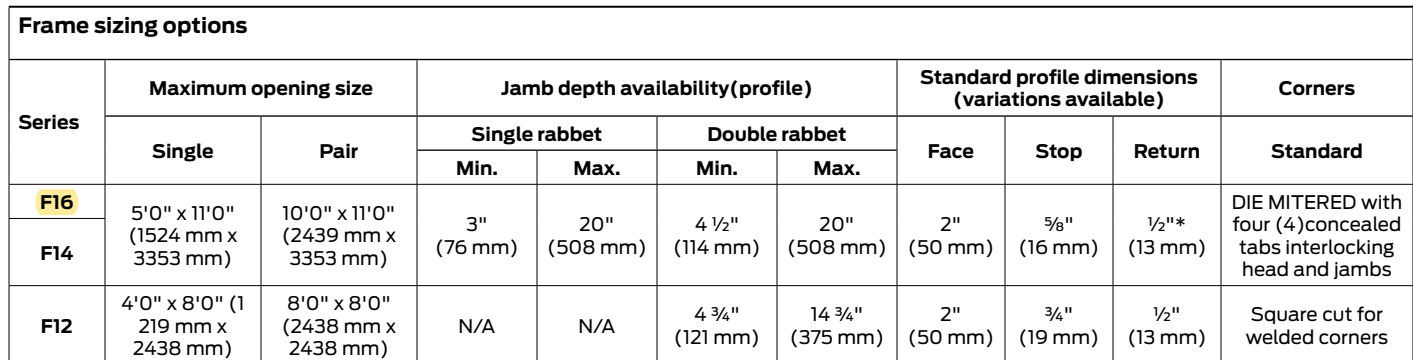
The F Series flush frames meet the broadest fire rating requirements. They are listed for installations requiring compliance to both neutral pressure testing (ASTM E152 and UL 10B) and positive pressure standards (UL 10C). Refer to the **Fire Rated Section** of this manual for particular listings.

Applications

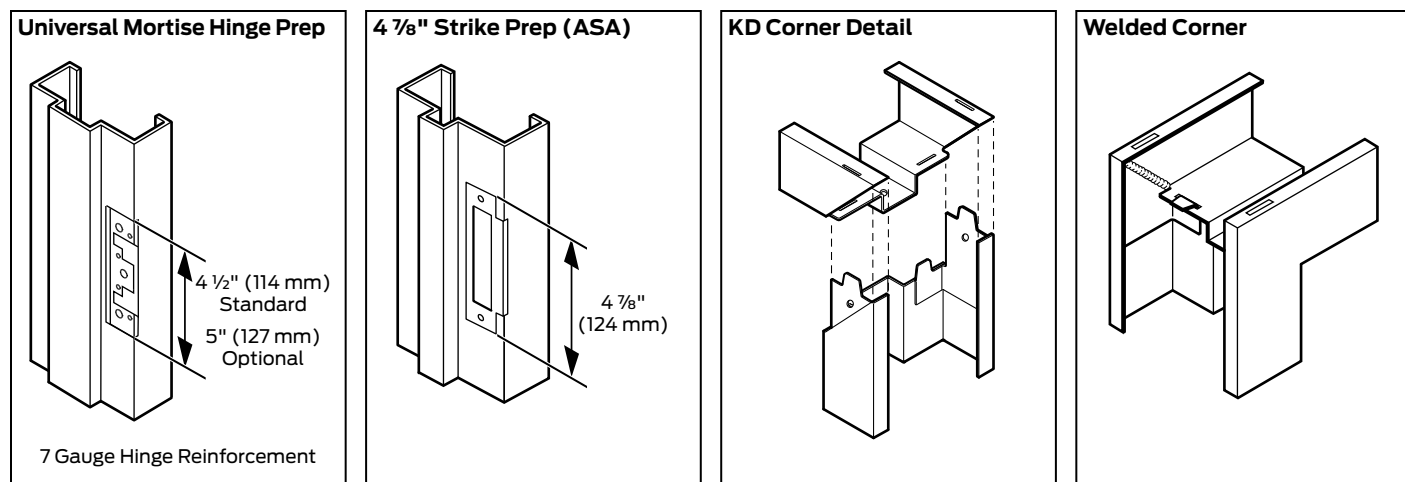
F Series frames are typically installed in wall construction types as defined in the chart below:

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

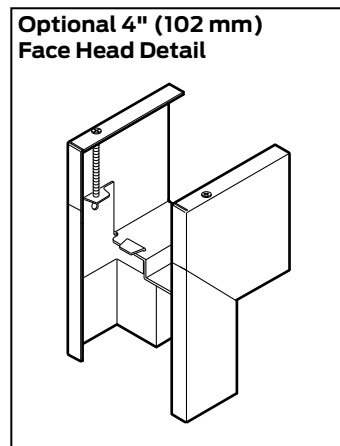


N/A - Not Available
12 gauge standard profile is equal rabbet



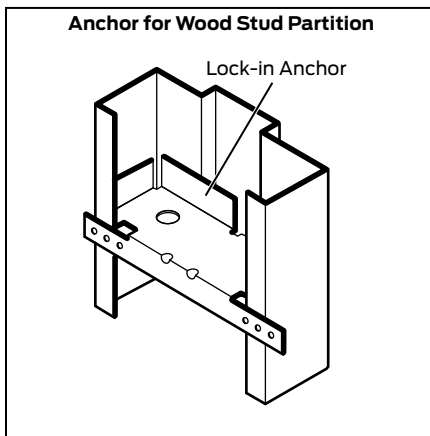
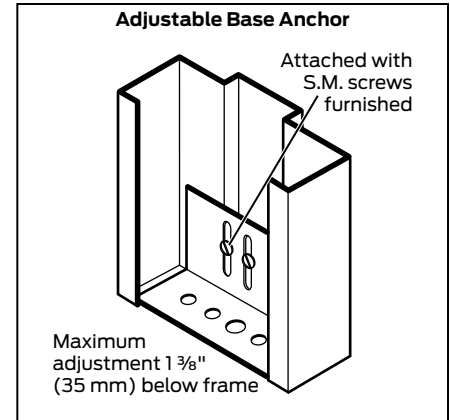
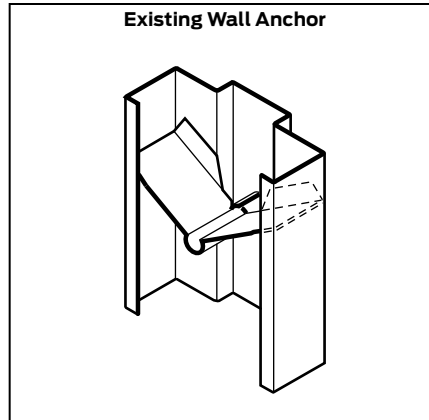
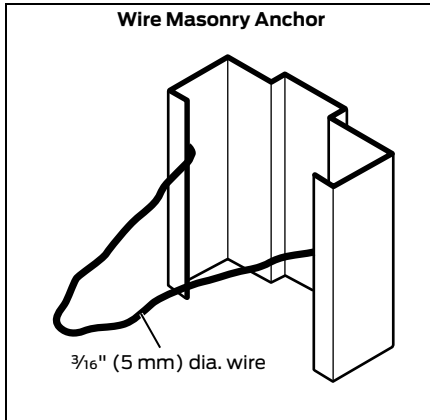
General notes

1. Variations in jamb depths available in $\frac{1}{8}$ " (3 mm) increments.
2. 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.
3. F Series frames are to be installed as part of the wall framing sequence.
4. Depending on environmental and usage conditions the steel can be either cold rolled or galvanized. Galvanized steel is recommended for all exterior applications.
5. 12 gauge flush frames, F12, are standard equal rabbet profiles with $\frac{3}{4}$ " stops.
6. For KD Corner and optional 4" Head, tabs in rabbeted area should be bent outward, not inward, during assembly (as shown).
7. F Series frames with 4" heads are mainly used in masonry applications when 2" face heads do not match course blocking.
8. 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 ¾" (95 mm) thick. Minimum walls thickness 2" (51 mm)	Typically for walls less than 3 ¾" (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							
F12	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



Anchoring and installation notes

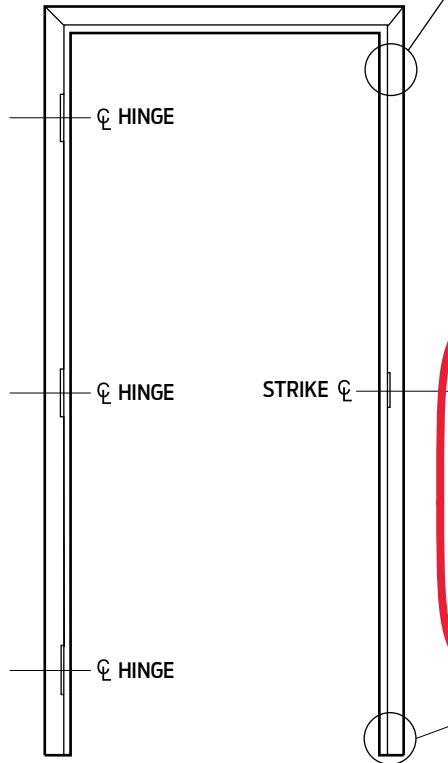
- F16 and F14 Series commercial and Institutional frames** are supplied standard with masonry wire or lock-in jamb anchors and adjustable base anchors. Anchors are designed for maximum wall/frame engagement and installation flexibility.
- For anchoring applications, refer to the Frames: Anchoring systems section of this manual.**
- 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.
- 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 ¹	KD Corner ⁴	SUA Corner ⁵	Applications
F16	Non-Galvannealed ²	Institutional and Commercial	Interior	Heavy to extra heavy duty	✓	✓	Typical building conditions
	Galvannealed ³		Mainly Exterior				High humidity and/or weather exposure
F14	Non-Galvannealed ²	Institutional and Commercial	Interior	Extra heavy to maximum duty	✓	✓	Typical building conditions
	Galvannealed ³		Mainly Exterior				High humidity and/or weather exposure
F12	Galvannealed ³	Institutional and Commercial	Interior and exterior	Maximum duty	N/A	✓	Maximum traffic building conditions
							High humidity and/or weather exposure

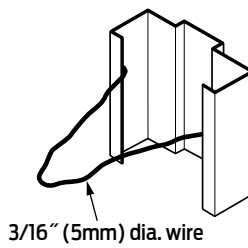
- Usage frequency is based on ANSI A250.8-2014 (SDI 100)
- Commercial quality cold rolled steel
- Reinforcements for galvannealed frames are also galvannealed
- Knock-Down for field assembly prior to installation
- Set-up and Welded for installation as a pre-welded unit

Standard Lock-In Jamb Anchors are supplied on standard F Series frames having 2" faces

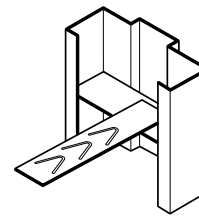


Masonry wall applications

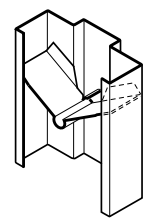
Wire Masonry Anchor



Masonry "T" Anchor

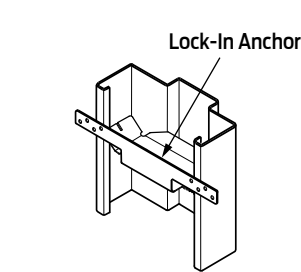


Existing Wall Anchor

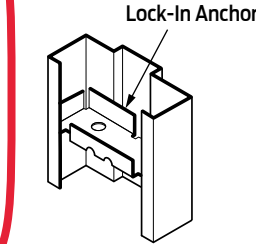


Stud wall applications

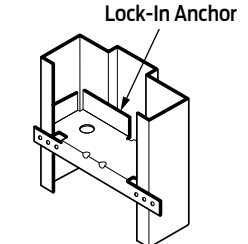
Universal Stud Anchor



Anchor for Steel Stud Partition



Anchor for Wood Stud Partition



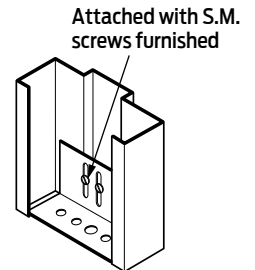
Adjustable Sill Anchors are provided as standard

Anchor Quantities:

- 3 per jamb through 7' 6" height
- 4 per jamb over 7' 6" to 12' 0" height
- 1 adjustable base anchor per jamb

Anchor Locations:

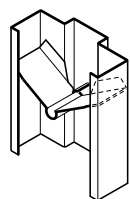
- Locate all anchors on hinge jamb as close to top of hinge reinforcement as possible.
- Locate anchors on strike jamb in the corresponding position as the hinge jamb.



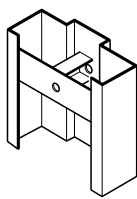
Maximum adjustment
1-3/8" (35mm)
below bottom of frame

Specialty Weld-In Jamb Anchors are supplied for custom frames and special wall applications when specified.

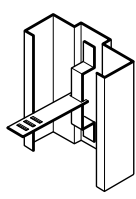
Masonry wall application



Existing Wall Anchor

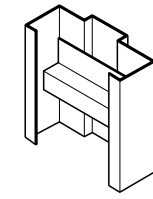


Weld-In Tube & Strap Anchor for Special

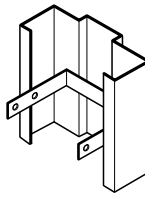


Weld-In Yoke Strap & In Anchor for Special

Stud wall anchors

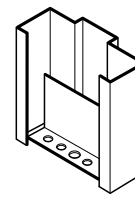


"Z" Steel Stud Weld-In Anchor for Special

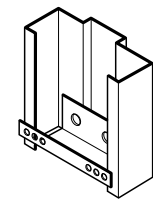


Weld-In Wood Stud Anchor

Sill anchors



Weld-In Floor Anchor



Weld-In Wood Stud Base Anchor

MacPro® Five Knuckle Standard Weight Series

The MacPro line offers contractor grade hinges to get the job done right. High quality MacPro hinges are an extraordinary value, ideal when you need large quantities of standard hinges.

- Plain bearing hinges are for standard weight doors only
- For standard weight doors with a closing device, MPB79 or MPB91 bearing hinge must be used
- MacPro templated hinges are made to conform to ANSI/BHMA 156.1, 156.7
- For available finishes consult the factory

No.	ANSI Cross Reference	Base Material	Weight	Bearing
MP79	A8133	Steel	STD	Plain Bearing
MPB79	A8112	Steel	STD	Bearing
MPB91	A5112	Stainless*	STD	Bearing

*4 1/2" x 4 1/2"

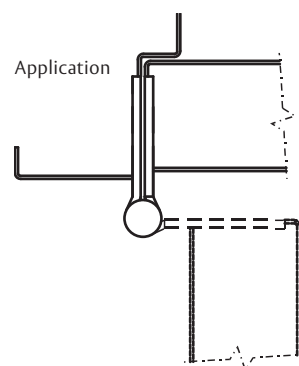
Specifications

Inches	mm	Gauge	No. of Holes	Fasteners	
				Machine	Wood
4 1/2" x 4"	114.3 x 101.6	.134	8	1/2 x 12-24	1 1/4 x 12
4 1/2" x 4 1/2"	114.3 x 114.3	.134	8	1/2 x 12-24	1 1/4 x 12

MP79



MPB79
MPB91



Options:

Code	Description
NRP	Non-Removable Pin

McKinney Hinge Pin Door Stop

- Recommended for high-use or high impact doors with MacPro MP79 & MPB79 hinges
- Protects against damage to doors and walls
- Runs the full length of the hinge

Part number	Description	Finish
76305	Hinge Pin Stop for MacPro MP79 & MPB79	26D
76306	Hinge Pin Stop for McKinney T2714 & TA2714	26D



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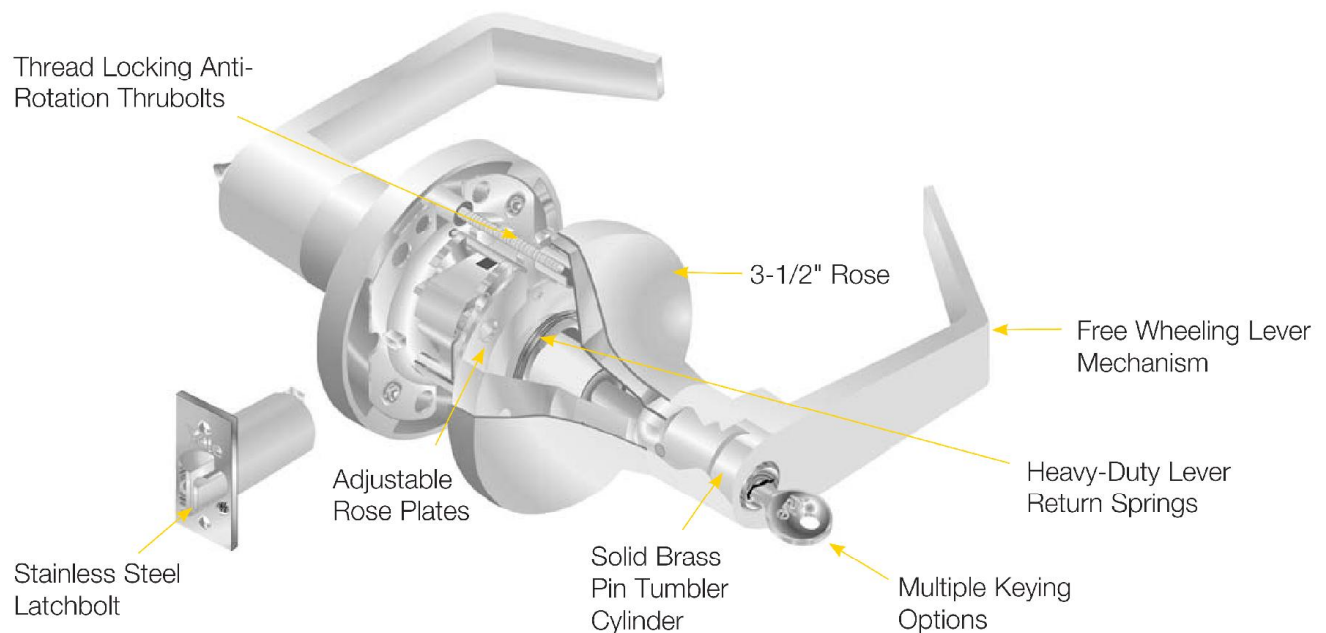
Benefits & Features

BENEFITS

- **Heavy-Duty:** Rugged Grade 1 construction offers greater reliability and resists wear-and-tear
- **Secure:** Innovative features protect against damage and vandalism
- **Versatile:** Range of functions and options offer an ideal solution for a variety of commercial applications
- **Easy installation:** Adjustable rose allows for easy adjustment on different door thicknesses
- **Strong & Reliable:** ANSI/BHMA Grade 1 certification for long-life and durability

FEATURES

- Heavy duty construction features wear-resistant chassis plates, longer thread-locking thrubolts, lifetime warranted lever return springs and stainless steel latchbolt for exceptional strength and durability
- Free Wheeling lever mechanism prevents vandalism and reduces maintenance
- Adjustable rose support plates
- Available in 3 lever designs, 24 functions (including electrified) and 12 standard finishes
- ANSI/BHMA Certified Grade 1
- ADA compliant for ease of accessibility



SPECIFICATIONS

Backset: 2-3/4" standard, 3-3/4" optional

Door Thickness: Adjustable for doors 1-3/4" to 2"

Handing: Non-handed, field reversible

Latchbolt: 2-3/4" backset, 1/2" throw. See page 14 for additional options.

Strike: ANSI strike 4-7/8" x 1-1/4" x 1-1/4" lip to center. See page 15 for additional options.

ANSI/BHMA: Certified Grade 1, ANSI/BHMA A156.2

UL/cUL: Listed for 3 hour fire doors


Windstorm: Certified, check local codes.

Warranty: 7 years





Finishes

ANSI/BHMA Code Finish Description				
605 Bright Brass, Clear Coated	606 Satin Brass, Clear Coated	609 Satin Brass, Blackened, Satin Relieved, Clear Coated	612 Satin Bronze, Clear Coated	613E Dark Oxidized Satin Bronze - equivalent
616 Satin Bronze, Blackened, and Satin Relieved, Clear Coated	619 Satin Nickel Plated, Clear Coated	620 Satin Nickel Plated, Blackened, Satin Relieved, Clear Coated	625 Bright Chrome Plated	626 Satin Chrome Plated 
693 Black Painted	BSP Black Suede Powder Coat	WSP White Suede Powder Coat		

613 and 722 finishes available by Special Product Request only. Please contact Customer Service for additional information.



Finish available with MicroShield® antimicrobial coating. Add YMS suffix to order Microshield antimicrobial coating.

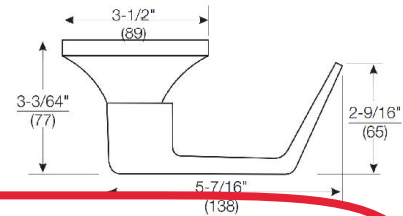
MicroShield coating may vary finish color from architectural standards. MicroShield is not intended as a substitute for traditional infection control programs such as hand hygiene or use of disinfectants. Coated products must still be cleaned to ensure the surfaces will be free of destructive microbes. Yale makes no representations or warranties, express or implied, as to the efficacy of MicroShield.



Lever Trim

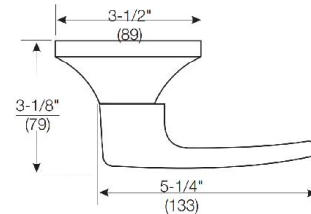
AUGUSTA AU

Lever: Cast Zinc
Rose: Wrought Brass



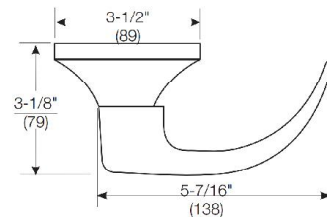
MONROE MO

Lever: Cast Zinc
Rose: Wrought Brass



PACIFIC BEACH PB

Lever: Cast Zinc
Rose: Wrought Brass



Available with large and small format interchangeable core. See page 12-13 for details.

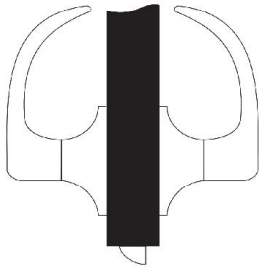
Dimensions shown are in inches/mm.

Functions

5401LN (F75)

Passage or Closet Latch

- For doors that do not require locking.
- Either lever operates latchbolt at all times.



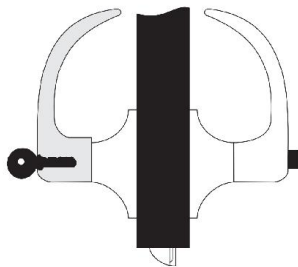
Outside

Inside

5404LN (F82A)

Entry Lock

- For entrance or office doors.
- Deadlocking latchbolt.
- Either lever operates latchbolt (except when outside lever is locked from inside).*
- Pushing button in inside lever locks outside lever. (Automatically releases when inside lever is turned or key is rotated in locked outside lever.)
- Latchbolt is operated by key in outside lever or by rotating inside lever.
- Inside lever always active.



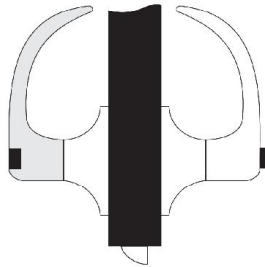
Outside

Inside

5402LN (F76A)

Privacy, Bedroom or Bath Lock

- For lavatory or other privacy doors.
- Either lever operates latchbolt unless outside lever is locked by pushbutton inside.*
- Button automatically releases when inside lever is turned or door is closed.
- Emergency release in outside lever.
- Emergency key supplied. (PN 14-5302-1053-048)
- Inside lever always active.



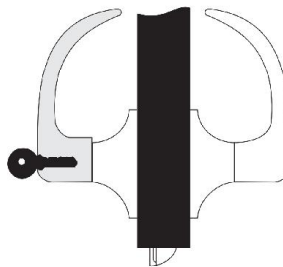
Outside

Inside

5405LN (F86)

Storeroom or Closet Lock

- For use on storeroom, utility, and exit doors.
- Deadlocking latchbolt.
- Latchbolt operated by lever inside, key in outside lever.
- Outside lever always locked.*
- Inside lever always active.



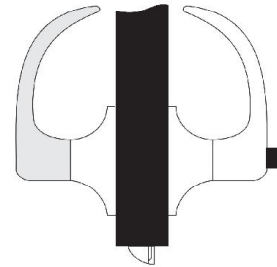
Outside

Inside

5403LN (F77A)

Patio or Privacy Lock

- For exit doors with limited entry.
- Deadlocking latchbolt.
- Either lever operates latchbolt unless outside lever is locked by pushbutton inside.*
- Button automatically releases when inside lever is turned or door is closed.
- Inside lever always active.



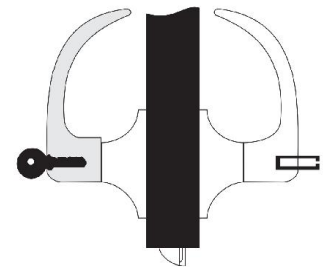
Outside

Inside

5406LN (F92)

Service Station Lock

- Deadlocking latchbolt.
- Either lever operates latchbolt.
- Pushbutton in inside lever locks outside lever. (Automatically releases when inside lever is turned, door is closed or key is rotated in outside lever, except when slotted pushbutton is rotated 90° clockwise to retain outside lever in locked position).*
- Latchbolt operated by key in outside lever, inside lever always active.



Outside

Inside

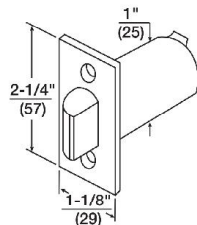
*Lever handles are Free Wheeling in locked position.
Shaded area denotes Free Wheeling lever.



Latchbolts

PLAIN LATCHBOLTS

Model No. 693 supplied standard with all 5400LN series locksets without locking function. Standard plain latchbolt has a 2-1/4" (57mm) x 1-1/8" (29mm) beveled front with a 2-3/4" (70mm) backset and a 1/2" (13mm) bolt throw. Optional latchbolts with a greater backset/throw available to special order.

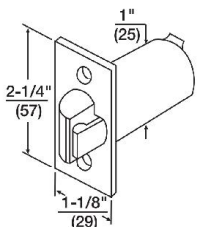


Model No.	Front	Backset	Throw	Front Width	Latch Diameter
693	Beveled	2-3/4" (70mm)	1/2" (13mm)	1-1/8" (29mm)	1" (25mm)
F693	Flat	2-3/4" (70mm)	1/2" (13mm)	1-1/8" (29mm)	1" (25mm)
3693	Beveled	3-3/4" (95mm)	1/2" (13mm)	1-1/8" (29mm)	1" (25mm)

Note: for 3/4" throw applications, only deadlocking latchbolts available.

DEADLOCKING LATCHBOLTS

Deadlocking latchbolt Model No. 694 supplied standard with all 5400LN series locksets with locking function. Standard deadlocking latchbolt has a 2-1/4" (57mm) x 1-1/8" (29mm) beveled front with a 2-3/4" (70mm) backset and a 1/2" (13mm) bolt throw. Optional latchbolts with a greater backset/throw available to special order.



Model No.	Front	Backset	Throw	Front Width	Latch Diameter
694	Beveled	2-3/4" (70mm)	1/2" (13mm)	1-1/8" (29mm)	1" (25mm)
F694	Flat	2-3/4" (70mm)	1/2" (13mm)	1-1/8" (29mm)	1" (25mm)
3694	Beveled	3-3/4" (95mm)	1/2" (13mm)	1-1/8" (29mm)	1" (25mm)
480B	Beveled	2-3/4" (70mm)	3/4" (19mm)	1-1/8" (29mm)	1" (25mm)
F480B	Flat	2-3/4" (70mm)	3/4" (19mm)	1-1/8" (29mm)	1" (25mm)
3480B	Beveled	3-3/4" (95mm)	3/4" (19mm)	1-1/8" (29mm)	1" (25mm)

Note: For 2-3/8" backset, contact Customer Support.

BACKSET EXTENSION LINKS

All 5400LN Series locksets are supplied with standard latchbolts of 2-3/4" (70mm) backset; optional latchbolts with a 3-3/4" (95mm) backset are available to special order. Extension links are also available for attachment to 2-3/4" (70mm) or 3-3/4" (95mm) backset latchbolts to extend the backset to the desired length.

Desired Backset	Latchbolt Backset	Order Extension List No.
5" (127mm)	2-3/4" (70mm)	481DL
6" (152mm)	3-3/4" (95mm)	481
7" (178mm)	2-3/4" (70mm)	482
8" (203mm)	3-3/4" (95mm)	482
18" (46cm)	2-3/4" (70mm)	484
19" (48cm)	3-3/4" (95mm)	484

Other extension links up to 42" (1.06m) backset are available to special order.

ATTACHING SCREWS

(Not regularly supplied when latchbolts ordered separately).

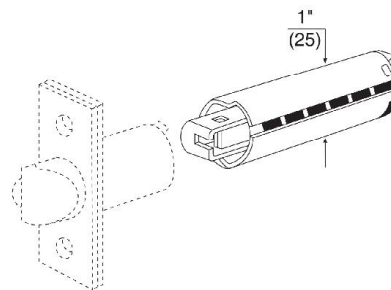
- For all latchbolts**

#8-8-32 x 3/4" (19mm) Phillips flat head combination wood and machine screws
 Brass - P/N 81-2022-0416*
 Bronze - P/N 81-2032-0416*

*Specify finish required.

- Hollow Metal Doors**

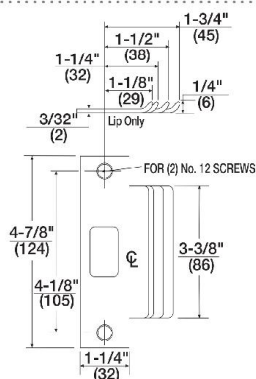
#8 - 32 x 1" (25mm) Phillips flat head machine screw
 Brass - P/N 81-0022-0420*
 Bronze - P/N 81-0032-0420*





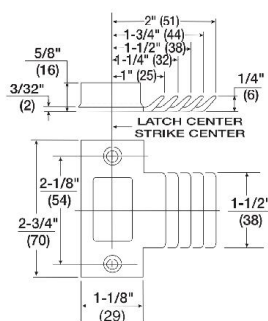
Strikes

Yale® 5400LN locks are available with a variety of strike options. All strikes are located on the same vertical and horizontal center lines as the latchbolt. Some strikes are available in special lip lengths to accommodate varying thickness of doors and frames. To determine the proper length of the lip, measure from the center line of the strike to the edge of the jamb, accounting for any interfering trim (i.e. wood molding) and then add 1/4" (6mm) for curved lip. All strikes are reversible. Strikes are fabricated of either brass, bronze or stainless steel, depending on the lockset trim finish. When ordering strikes separately, specify the finish required.



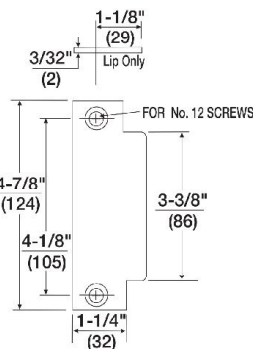
Model No. 497 ANSI Strike (Standard)

1-1/4" supplied standard, 1-1/8", 1-1/2", and 1-3/4" lip lengths available by special order. For door and frames with ANSI/BHMA A156.115 preparations.



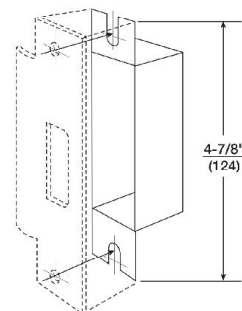
Model No. 371 T-Strike (Optional)

1/4" curved lip supplied standard. 1", 1-1/2", 1-3/4", and 2" curved lip lengths available by special order. Wrought strike box supplied.



Model No. 497B Blank ANSI Strike (Optional)

Available to special order. Installed in frame with standard ANSI/BHMA A156.115 preparation to replace the strike when the lockset has been removed from the door.



Model No. 202 Strike Box for ANSI Strike (Optional)

Specify 497 x 202

ATTACHING SCREWS

(Not regularly supplied when strikes ordered separately).

For Model No. 371 strike

#8-8-32 x 3/4" (19mm) Phillips flat head combination wood and machine screw P/N-81-2012-0416.

For Model No. 497 strike and 497B plate

#12-12-24 x 1" (25mm) Phillips flat head combination wood and machine screw P/N-81-2012-0620.

Note: When ordering strike plates or attaching screws individually, specify the finish required; i.e. 497 x 202 x 612; #81-2012-0620 x 612.



Features & Benefits



FEATURES

- Adjustable spring sizes 1-6
- Non-handed
- Aluminum body
- Tri-packed: regular, parallel or top jamb mounting
- Full plastic cover
- Hold open and heavy-duty arms available
- Sleeve nuts furnished standard with all models
- Optional fasteners: through-bolts and grommet nuts

BENEFITS




- **Accessible:** Rugged construction allows for ease of use and installation; Tri-packed closer allows installation of multiple applications
- **Economical:** 10-year limited warranty; Longer life results in fewer replacements and less material used
- **Customizable:** Non-handed for right or left hand installation; Adjustable 1-6 spring simplifies installation; Adjustments for backcheck, closing and latch speed, rack and pinion operation; Variety of arm options

FUNCTIONS

- Backcheck
- Closing speed
- Latching speed
- Delayed action; specify 2701DL

Overview

COMPLIANCE STANDARDS

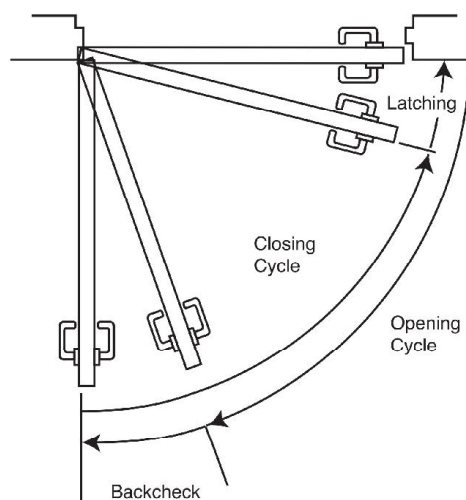
- Certified for ANSI/BHMA A156.4 Grade 1 
- UL and cUL listed. This includes compliance to UL10C. 
- Meets requirements for Americans with Disabilities Act (ADA) and ANSI/BHMA A117.1 
- 10-year limited warranty

CAUTION: Door Closers for Low Opening Force

Applications:

Door closers installed in openings required to meet the requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, when adjusted to meet those requirements, may not provide adequate closing power to dependably close and latch the door based on opening or site conditions.

DOOR CLOSING LATCH CYCLE



ARMS

Non-Hold Open

Self-closes door every time door is opened. Auxiliary stop (by others) required except when using the Holder/Stop arm.

Hold Open

Achieved by means of friction or ball and detent/roller. Friction hold open has a range of 90° to 180° using template location and mechanical adjustment. Ball and detent or roller hold open is effective in a range of 85° to 110°.

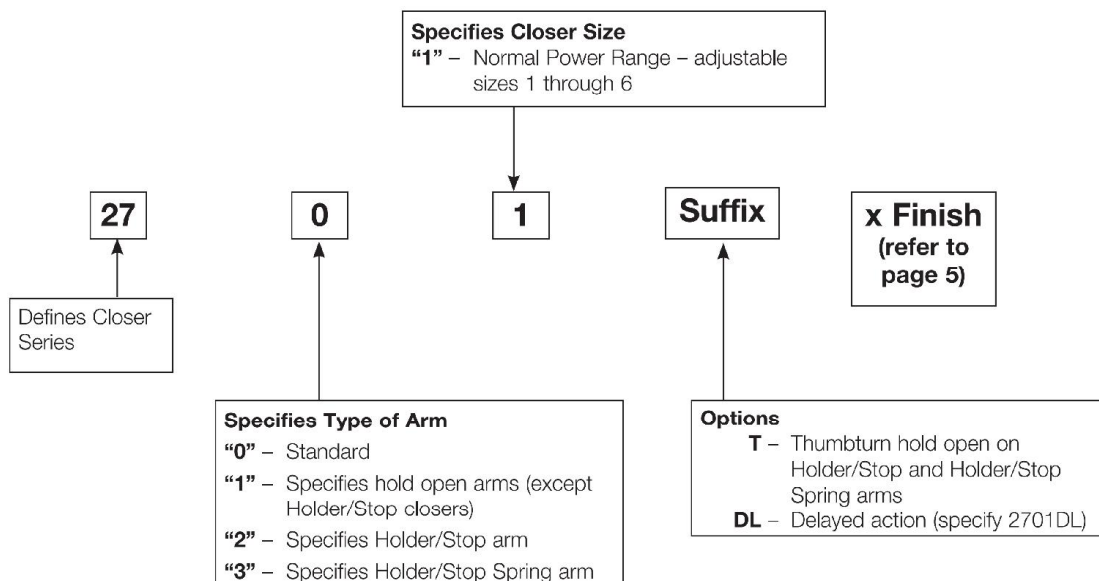
Hold open arm door closers are not permitted to be used on fire door assemblies.

Finishes

ANSI/BHMA Code Finish Description		
689 Aluminim Painted	690 Dark Bronze Painted	BSP Black Suede Powder Coat
		



How To Order

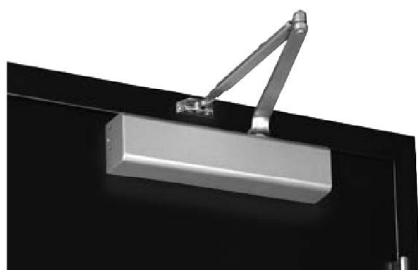


Notes:

- For heavy-duty parallel rigid arm applications, specify 2721 or 2721T, stop is removable.
- Door closer warranty becomes void if the closer is installed on the exterior side of a door in the exterior wall of a building.
- It is strongly recommended, and may be required on fire door assemblies, that doors having a door closer be hung on ball-bearing or anti-friction hinges or pivots. Consult local authority having jurisdiction.
- Failure to use fasteners supplied with closer may void factory warranty.
- Fasteners for fire/smoke door assemblies must conform to NFPA 80. In some applications additional fasteners may be mandated by NFPA 80 that are not shipped with standard Yale® product, such as sleeve-nuts/sex-nuts or thru bolts and grommet nuts.
- Information provided is based on 1-3/4" (44mm) x 7' (2.13m) standard weight doors swinging to 110°. Other conditions (such as door height or weight; or wind/draft conditions) may require adjustment of spring setting, selection of a larger size closer or different closer.

Applications

Regular Arm



Non-hold open arm shown, hold open application available.

- Pull side application; double lever arm
- Sufficient frame, door and/or ceiling clearance must be considered
- Due to arm projection, application may present an aesthetics issue or be prone to vandalism

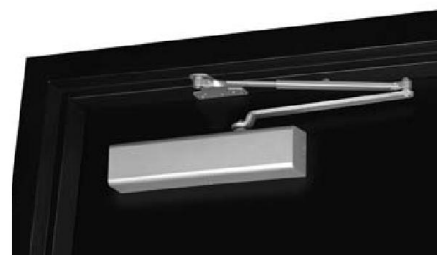
Top Jamb



Non-hold open arm shown, hold open application available.

- Push side application
- Sufficient frame face and/or ceiling clearance must be considered
- 2-1/4" (57mm) top rail on door is required
- Best door control for doors in exterior walls that swing out of building
- Consideration must be given to depth of reveal

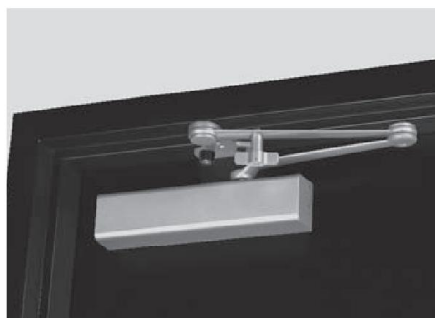
Parallel Arm



Non-hold open arm shown, hold open application available.

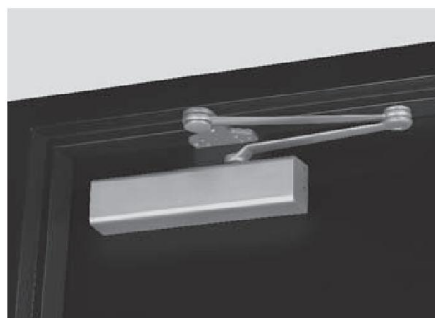
- Push side application
- In the closed position, there is little or no hardware projection beyond the frame face
- Due to arm geometry, approximately 25% less power-efficient than regular arm application
- Closer and arm mounted below the frame stop

Holder/Stop Arm



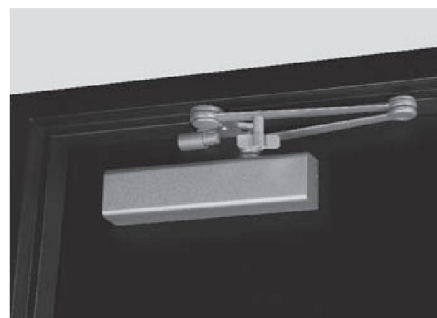
2721T (hold open) shown

- Holder/Stop arms incorporate a stop at the arm's soffit plate to dead stop the door at a predetermined degree of door swing between 85° and 110°, in 5° increments
- Prior to dead stop, backcheck slows the door speed to reduce the stop action
- Arm is intended for use where an auxiliary door stop cannot be used and low to moderate abuse is anticipated
- Stop is removable to allow for additional applications where auxiliary door stops are installed



2721 (non-hold open, without stop) shown

- Holder/Stop Spring arms incorporate a buffer spring that provides greater protection at the end of the door opening cycle.
- Spring is removable



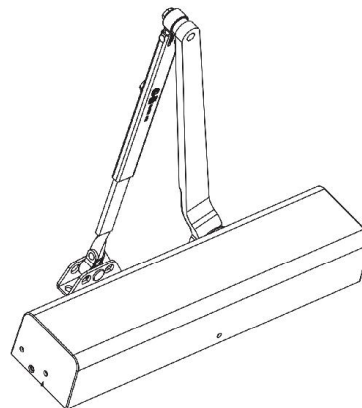
2731T (hold open with thumbturn and spring) shown

Consult factory if door weight exceeds 225 lbs.



Model/Part Numbers

Complete Units	
Model Number	Description
2701	Non-Hold Open Tri-Packed
2701DL	Non-Hold Open Tri-Packed with Delayed Action
2711	Hold Open Tri-Packed
2721	Heavy-Duty Non-Hold Open Parallel Arm with Removable Stop
2721T	Heavy-Duty Hold Open Parallel Arm with Thumbturn and Removable Stop
2731	Heavy-Duty Non-Hold Open Parallel Arm with Spring and Removable Stop
2731T	Heavy-Duty Hold Open Parallel Arm with Thumbturn and Spring and Removable Stop



Note: for heavy-duty parallel rigid arm applications, specify 2721 or 2721T, stop is removable.

See page 6 for more how to order info.

Miscellaneous Parts*	
Part Number	Description
2700COV	Full Plastic Cover
2700SP	Screw Pack
2730Kit	Door Saver Spring Stop



2730Kit

*Specify finish when ordering.

Optional Fasteners	
Part Number	Description
TBGN134-38	Through-Bolts & Grommet Nuts

Note: Sleeve nuts furnished standard with all models.

Cover Dimensions		
Width	Length	Projection
2-7/8" (73mm)	13" (330mm)	2-1/8" (54mm)

Architectural Finishes

Most Rockwood products are available in all of the following architectural finishes. The catalog indicates exceptions. This finish list is grouped by base metal.

Base Metal	Description	Rockwood Code	BHMA Code
Aluminum	Satin	US27	627
Aluminum	Clear anodized	US28	628
Aluminum	Light bronze anodized	311	—
Aluminum	Medium bronze anodized	312	—
Aluminum	Dark bronze anodized	313	710
Aluminum	Extra dark bronze anodized	314	—
Aluminum	Black anodized	315	711
Aluminum	White powder coat	WPC	—
Aluminum	Red powder coat	RPC	—
Aluminum	Black powder coat	BPC	—
Brass	Polished clear coated	US3	605
Brass	Polished no coating	US3NL	—
Brass	Satin clear coated	US4	606
Brass	Satin oxidized relieved	US5	609
Brass	Satin nickel plated clear coated	US15	619
Brass	Satin nickel blackened relieved clear coated	US15A	620
Brass	Flat black powder coated	US19	622
Brass	Polished chrome plated	US26	625
Brass	Satin chrome plated	US26D	626

Base Metal	Description	Rockwood Code	BHMA Code
Bronze	Polished clear coated	US9	611
Bronze	Satin clear coated	US10	612
Bronze	Black oxidized bronze oil rubbed	US10A	722
Bronze	Satin oxidized oil rubbed	US10B*	613
Bronze	Oxidized equivalent	US10BE	613E
Bronze	Satin oxidized clear coated	US10BL	614
Stainless Steel	Polished	US32	629
Stainless Steel	Satin	US32D	630
Bronze	Satin dark statuary	US20A	624

Special Finishes (see descriptions below)

Stainless Steel	Satin MicroShield® coated	US32DMS**	—
Stainless Steel	Polished 316 alloy	US32316**	—
Stainless Steel	Satin 316 alloy	US32D316**	—
Black Suede	Powder Coat	BSP	—

US32DMS (MicroShield®):

As part of its promise to provide innovative solutions to their customers, ASSA ABLOY Group companies offer the MicroShield® technology, a silver-based antimicrobial coating designed to inhibit the spread of germs and bacteria.

US32316 and US32D316:

Made from alloy 316 stainless steel containing molybdenum and extra nickel giving it substantially higher corrosion resistance than the standard stainless steels typically used in door hardware. This finish is ideal for use in coastal, urban, and industrial areas that have harsh environmental conditions. 32316 (polish) finishes offer the best corrosion resistance and should be used in caustic environments.



MicroShield® is a registered trademark of Yale Security Inc., an ASSA ABLOY Group company.



Solid Cast Wall Stops No. 400, 401, 402

Material: Cast brass with rubber bumper

Finishes: Available in standard architectural finishes (see page 9)

Features: Concealed mounting, convex bumper.

No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
400	Convex	#6 x 1½" FH SMS, plastic toggle	2⅞" dia.	1"	2 lbs./10	L02101
401	Convex	#8 x 1" RH WS, plastic anchor	2⅞" dia.	1"	2 lbs./10	L02101
402	Convex	#8 - 32 x 1" TH MS, anchor	2⅞" dia.	1"	2 lbs./10	L02101



Solid Cast Wall Stops No. 403, 404, 405

Material: Cast brass with rubber bumper

Finishes: Available in standard architectural finishes (see page 9)

Features: Concealed mounting, concave bumper.

No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
403	Concave	#6 - 1½" FH SMS, plastic toggle	2⅞" dia.	1"	2 lbs./10	L02251
404	Concave	#8 x 1" RH WS, plastic anchor	2⅞" dia.	1"	2 lbs./10	L02251
405	Concave	#8 - 32 x 1" TH MS, anchor	2⅞" dia.	1"	2 lbs./10	L02251



Wrought Wall Stops No. 406

Material: Wrought brass, bronze, and stainless steel with rubber bumper

Finishes: Available in standard architectural finishes (see page 9)

Features:

- Concealed mounting, convex bumper. Back plate prevents damage to wall
- Accepted by the New York State Office of Mental Health (OMH) for use in high risk areas

No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
406	Convex	#8 x 1¼" TH SMS, plastic toggle	2½" dia.	1"	1¼ lbs./10	L02101



Wrought Wall Stops No. 409

Material: Wrought brass, bronze, and stainless steel with rubber bumper

Finishes: Available in standard architectural finishes (see page 9)

Features:

- Concealed mounting, concave bumper. Back plate prevents damage to wall
- Accepted by the New York State Office of Mental Health (OMH) for use in high risk area

Options: Rubber bumper available in standard gray or optional black

No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
409	Concave	#8 x 1¼" TH SMS, plastic toggle	2½" dia.	1"	1¼ lbs./10	L02251