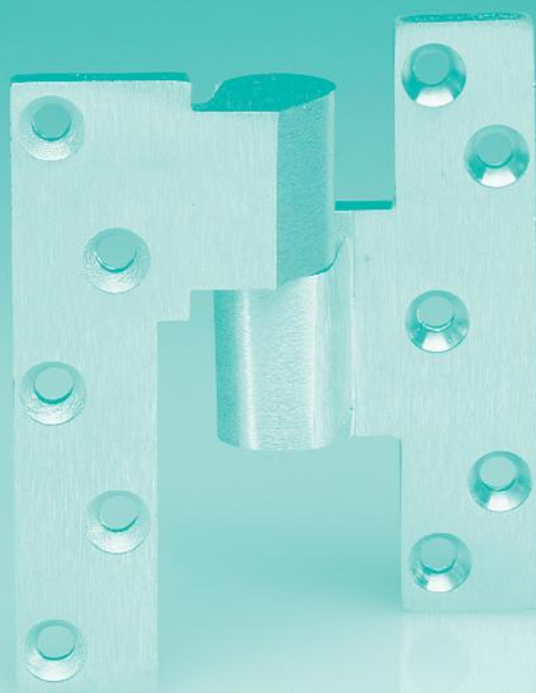


Pivots and Pivot Sets

RIXSON
ASSA ABLOY

Architectural Solutions for
Durable and Efficient
Hanging of Doors

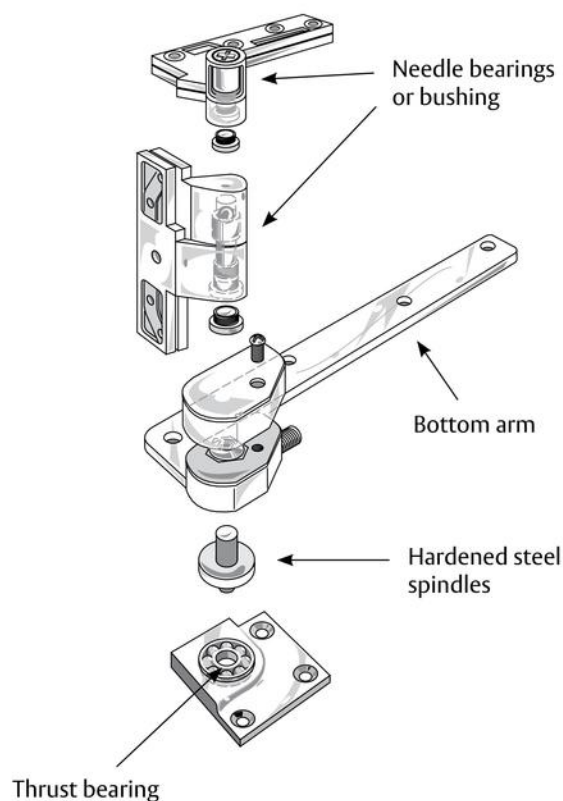


ASSA ABLOY, the global leader in door opening solutions

Introduction

Pivot sets provide the best possible means of hanging a door. They are designed to work with the laws of physics to provide long-lasting performance and reliability.

- The weight of the door is supported at the bottom by the floor
 - Uses principles of gravity to its advantage
 - Door swings with less resistance
 - Heavier doors can be accommodated
- Reduced stress on frame
 - Fasteners are in shear, not tension
 - Eliminates door sag
 - Vertically adjustable
- Heavy-duty hardened steel spindles
 - Thrust bearing supports vertical load
 - Needle bearings and bushings for lateral force
 - Extra heavy-duty models also have an additional surface-applied thrust bearing to handle heavier or high-traffic doors
- Offset pivots provide better weight distribution and can accommodate taller doors
- Intermediate pivots are used for alignment and to ensure proper installation of bottom pivot or floor closer
- Center hung pivots are used for aesthetics or if the pivot point is going to be moved closer to the lock edge of the door
- PIVOTS DO NOT RETURN DOORS TO CENTER. Pivots in this section are for door hanging means only. For door control see door closer catalog sections.



147 Pivot set and M19 Intermediate pivot shown (recommended)

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Electrified Center Hung Top Pivots

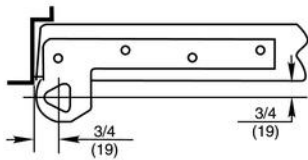
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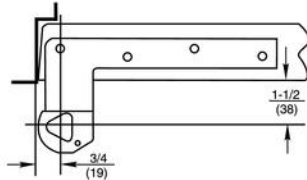
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1. Offset vs. Center Hung Application



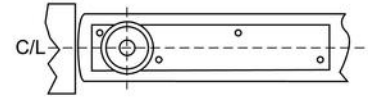
3/4" Offset

Pivot point located 3/4" from the heel edge of the door and 3/4" from face of door



1-1/2" Offset

Pivot point located 3/4" from the heel edge of the door and 1-1/2" from face of door. Extended offsets should be used when there is cladding on the face of door or trim on the frame



Center Hung

Pivot point centered in thickness of door.

2. Size of Door (width, height, thickness)

Estimated door weights pounds per square foot (PSF)

Door Material	Door Thickness		
	1-3/4"	2-1/4"	3"
Hollow Metal	6.5	7	-
Solid Core Wood	7	9	11.5
Aluminum/Glass Storefront	3.5	4	-
Tempered Glass	Glass Thickness		
	3/8"	1/2"	3/4"
	5	7	9.75
Lead Lining (add to door weight)	Lead Thickness		
	1/16"	1/8"	1/4"
	5	8	9.75
3/4" Cladding (add to door weight)	Cladding Material		
	Wood	Stone	Bronze
	3	10.5	28

Example: 3/0 X 7/0 X 1-3/4" WD X 1/4" Lead lining
Door: 21sq ft x 7lb./sq ft = 147lbs
Lead Lining: 9.75 = 204.75lbs
Total Door weight: 351.75lbs

Example: 3/6 X 8/0 X 1/2" Tempered Glass Door
Door: 28sq ft x 7lb./sq ft = 196lbs

For doors of other sizes, consult factory

3. Expected Frequency of Door Operation

Application	Daily Cycles	Yearly Cycles	
Large department store entrance	5,000	1,500,000	
Large office building entrance	4,000	1,200,000	
Theater entrance	1,000	365,000	
School entrance	1,250	225,000	High
School restroom door	1,250	225,000	
Store or bank entrance	500	150,000	
Office building restroom door	400	118,000	
School corridor door	80	15,000	
Office building corridor door	75	22,000	Average
Store restroom door	60	18,000	
Residential entrance door	40	15,000	
Residential restroom door	25	9,000	
Residential hallway door	10	3,600	Low
Residential closet door	6	2,200	

In USA: (800) 457-5670 or www.rixson.com

In Canada: (800) 461-3007 or www.assaabloy.ca

8/10

ASSA ABLOY, the global leader in door opening solutions

Pivots and Pivot Sets Options, Certifications Limited Warranty, Specifications

Options

Fire Rated – Prefix F

Pivots for fire rated doors (up to 3 hours) include a steel top pivot and must have additional steel intermediate pivots. For F519 pocket pivot, door assemblies must have been tested with pocket pivots. 

Twenty-minute label – Suffix - 20

This UL rating is for 20-minute assemblies.

Product with this rating has an authorized label. 

Handing

All offset pivots and pivot sets are handed.

Suffix RH or LH.

Extended Spindle – Suffix extra length needed

Any special coverings or severe door undercuts will affect the spindle height. In these applications, an extended spindle may be required. Most standard spindle heights accommodate door undercuts up to 1/2". Extended spindles available in 1/2" increments up to 2" longer than standard. See template.

1-1/2" Offset – Suffix 1-1/2

Offset is the distance from the face of the door to the pivot point. Extended offsets should not be used unless there is cladding on the face of the door or there is trim to clear on the frame. 1-1/2" offset arms and pivots are for doors with cladding or trim that project 3/4" from the face of the door. The greater the offset the less weight can be carried by the pivot.

Less Top Pivot – Suffix LTP

For conditions requiring special top pivots or for arch top doors, the pivot set should be ordered less top pivot – LTP. For offset installations an additional load bearing intermediate (side jamb) M190 pivot is required. All intermediate pivots for that opening should be M190's, not M19's.

Special Layouts – Suffix SPLO#

Unique installations or specially engineered products are called special layouts. These numbers must be assigned by the technical support department and they must be called out specifically by their number when ordering.

Door Thickness – Suffix 1-3/4", 2", 2-1/4", 2-1/2" or 3"

When ordering L series pivot for lead-lined doors, the thickness of the door must be given. The purpose of the L product is to have screws spaced so they straddle the lead in the center of the door. Also used when lead lining is under the skins of the door. Recommended for use on extra heavy or high traffic doors.

ElectroLynx® Connectors – Suffix QC – Number of Wires

The plug-in connectors with easy color coded wire system eliminate matching wires. Must be used with ASSA ABLOY doors, frames and hardware. Available 4, 6, 8 or 12 wires for most products.

Hardwiring Made Easy®



Certifications

All Rixson® pivots and pivot sets are in compliance with ANSI/ BHMA 156.4 Standards. See individual products for sub sections. 

Limited Warranty

Rixson Pivot sets are warranted for 2 years for defect. See Rixson Price Book for specific details of the limited warranty.

Specifications

All pivots and pivot sets shall be of one manufacturer. All heavy-duty pivots shall have a minimum of 2 bearings internal to the bottom pivot. One shall be a thrust bearing and the other a needle bearing. Separate bearing surfaces shall be in the top pivot. Lead-lined door units and high traffic pivots shall have additional thrust bearing. Fire rated pivot sets shall have steel top pivots. Fire rated doors require steel intermediate pivots.

Model 117-1/4

Application

Interior Doors
Weight to 250 lbs.*
Door Width up to 3'6" (1067mm)
Handed



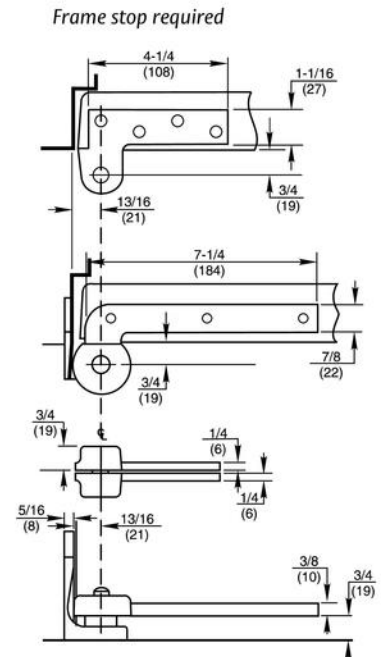
BHMA/ANSI NO: C07172

* Door size & weight guidelines are determined using the appropriate number of intermediate pivots

Product Description & Features

- Standard top pivot 180 included
- 119 intermediate pivot recommended (order separately); see page 136
- Bottom pivot mortised into side jamb
- Not available for fire-rated doors
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2"
- Weight of door borne by floor
- Furnished with wood and machine screws
- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard

Technical Information



Model 117

Application

Interior Doors
Weight to 300 lbs.*
Door Width up to 3'6" (1067mm)
Handed



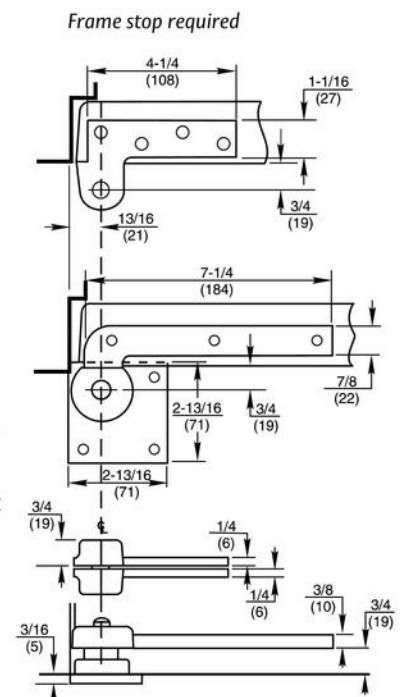
BHMA/ANSI NO: C07162/C07202

* Door size & weight guidelines are determined using the appropriate number of intermediate pivots

Product Description & Features

- Standard top pivot 180 included
- 119 intermediate pivot recommended (order separately); see page 136
- Bottom pivot mortised into floor
- Available for fire door assemblies up to three hours – specify F117. Intermediate pivot required by UL. Specify FM19, (order separately), see page 136
- For 20-minute label suffix “-20” to the part number
- Non-ferrous base material
- Doors up to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Available for 1-1/2" (38mm) offset (door weight 150lbs) for doors with cladding or frame molding.
- Door edges must be beveled 1/8" in 2"
- Furnished with wood and machine screws
- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard
- Doors will swing 180°, trim permitting

Technical Information



Model 173

Application

Interior Doors

Weight 150 lbs

Door Sizes up to 3'0" x 8'0" x 1-3/4"

Handed



C07202

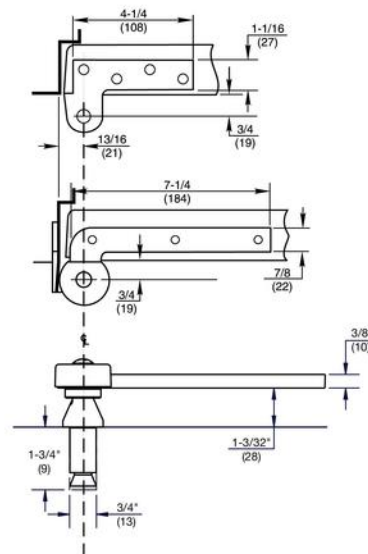
BHMA/
ANSI :
C07162\

Product Description & Features

- Standard top pivot 180 included
- 119 intermediate pivot recommended for all doors over 6'8" (order separately) see page 136
- Bottom pivot mounts directly to concrete floor
- Uses same arm and cap as 117 pivot set
- Non-ferrous base metal
- 3/4" offset only (*measured from centerline of pivot to face of door*)
- Available for 1-1/2" (38mm) offset (*door weight 100 lbs*) for doors with cladding or frame molding
- Door edges must be beveled 1/8" in 2"
- Furnished with wood and metal screws
- 3/8" vertical adjustment
- No spindle extensions available
- Door will swing 180°, trim permitting

Technical Information

Frame stop required



Model 147

Application

Exterior or Interior Doors

Weight to 600 lbs.*

Door Width up to 4'0" (1219mm)

Handed



ANSI NO:

C07162
C07202

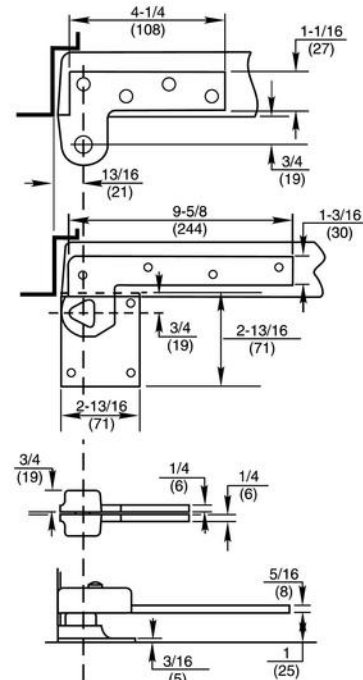
BHMA/

Product Description & Features

- Standard top pivot 180 included
- M19 intermediate pivot required (*order separately*); see page 136
- Bottom pivot mounts directly to floor
- Uses same arm and cap as 27 floor closer
- Available for fire door assemblies up to three hours (*ferrous material*) – specify F147. Intermediate pivot required by UL. Specify FM19 (*order separately*), see page 136
- For 20-minute label suffix “-20” to the part number
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- 3/4" (19mm) offset (*measured from centerline of pivot to face of door*)
- Available for 1-1/2" (38mm) offset (*door weight 350lbs.*) for doors with cladding or frame molding
- Door edges must be beveled 1/8" in 2"
- Furnished with wood and machine screws
- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard
- Doors will swing 180°, trim permitting

Technical Information

Frame stop required



* Door size & weight guidelines are determined using the appropriate number of intermediate pivots

Model L147

Application

Exterior or Interior Doors
Lead-Lined/Heavy/High Traffic Doors
Weight to 800 lbs.
Door Width up to 4'0" (1219mm)
Handed



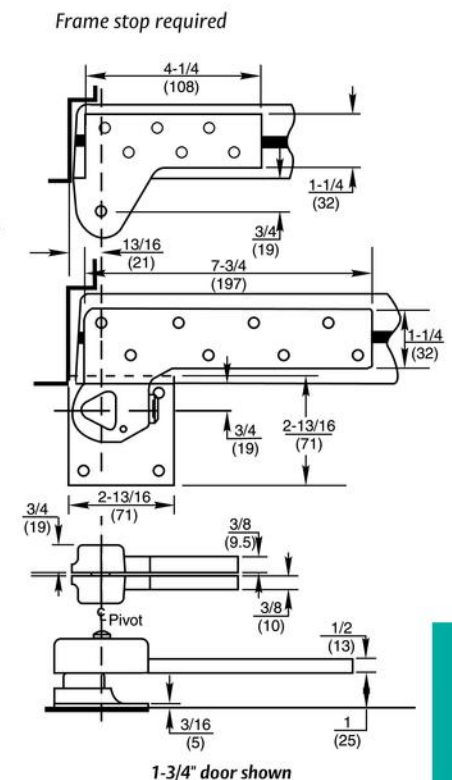
BHMA/ANSI NO: C07162
C07202

* Door size & weight guidelines are determined using the appropriate number of intermediate pivots

Product Description & Features

- Standard top pivot L180 included
- ML19 intermediate pivot required (order separately), see page 137
- Bottom pivot mounts directly to floor
- Doors with lead lining under the skin should also use this product.
- Screw holes in top pivot and bottom arm spaced to straddle lead lining in the middle of the door
- Available for fire door assemblies up to three hours for 1-3/4" (44mm) doors only (ferrous material) – specify FL147. Intermediate pivot required by UL. Specify FML19 (order separately), see page 137
- For 20-minute label suffix "-20" to the part number
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Available to accommodate lead in door thicknesses 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), or 3" (76mm) – specify when ordering
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2"
- Furnished with wood and machine screws
- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard
- Doors will swing 180°, trim permitting

Technical Information



Model 547

Application

Exterior or Interior Doors
For Arch Top Doors or Overhead
Concealed Closers
Weight to 500 lbs.
Door Width up to 3'6" (1067mm)
Handed



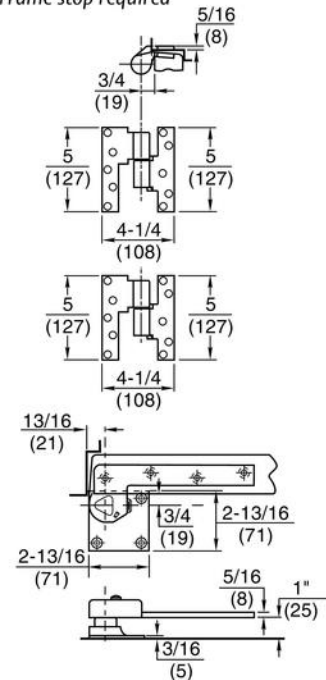
BHMA/ANSI NO: C07162 (modified)
C07202

Product Description & Features

- Set consists of two each M190 intermediate pivots and bottom pivot
- Bottom pivot mounts directly to floor
- Available for fire door assemblies up to three hours. Specify F547. Intermediate pivots FM190 included
- For 20-minute label suffix "-20" to the part number
- Non-ferrous base material
- Doors 60" (1524) to 90" (2286mm) in height have two intermediate pivots. Each additional 30" (762mm) of door height warrants another intermediate pivot
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2"
- Furnished with wood and machine screws
- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard
- Doors will swing 180°, trim permitting

Technical Information

Frame stop required



Model 165

Application

Exterior or Interior Doors
For Doors Without Bottom Pivots
Weight to 300 lbs.
Door Width up to 3'6" (1067mm)
Handed



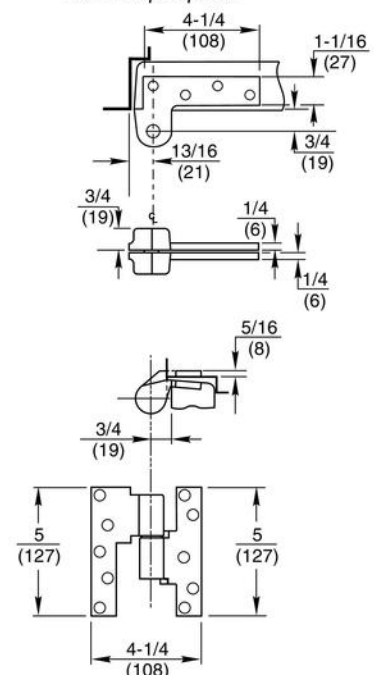
BHMA/ANSI NO: C07162 (modified)

Product Description & Features

- Set consists of one H180 top pivot and 2 each M190 intermediate pivots
- Not available for fire door assemblies
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height have two intermediate pivots. Each additional 30" (762mm) of door height warrants another intermediate pivot
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2"
- Furnished with wood and machine screws
- Doors will swing 180°, trim permitting

Technical Information

Frame stop required



Model 195

Application

Exterior or Interior Doors
Weight to 450 lbs.*
Door Width up to 4'0" (1219mm)
Handed

BHMA/



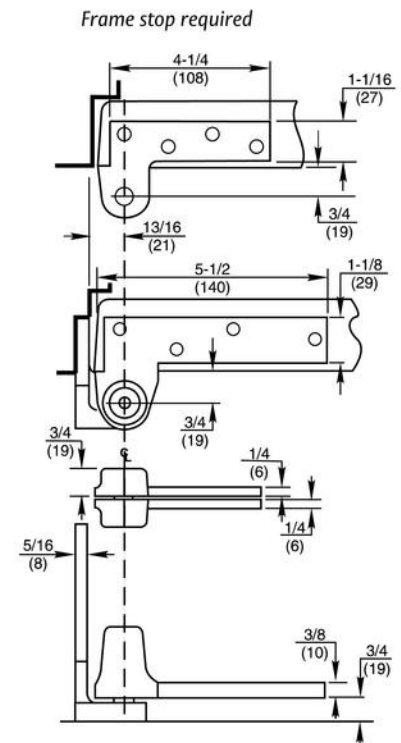
ANSI NO: C07131

* Door size & weight guidelines are determined using the appropriate number of intermediate pivots

Product Description & Features

- Standard top pivot 180 included
- 119 or M19 intermediate pivots are recommended (*order separately*), see page 136
- Bottom pivot mortised into side jamb
- Not available for fire-rated door
- Pivot set can be vertically adjusted up to 3/16" (5mm) after installation without the use of shims
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Non-ferrous base material
- 3/4" (19mm) offset (*measured from centerline of pivot to face of door*)
- Door edges must be beveled 1/8" in 2"
- Weight of door is borne by floor portion
- Furnished with wood and machine screws
- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard
- Doors will swing 180°, trim permitting

Technical Information



Model 117-1/2

Application

Exterior or Interior Doors
Weight to 650 lbs.*
Door Width up to 4'0" (1219mm)
Handed



BHMA/ANSI NO: C07121/C07202

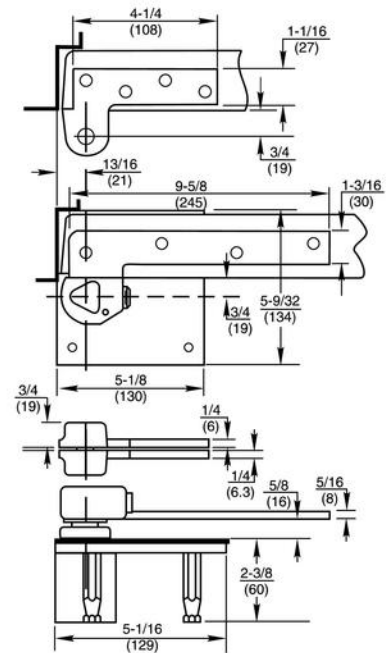
* Door size & weight guidelines are determined using the appropriate number of intermediate pivots

Product Description & Features

- Standard top pivot 180 included
- M19 intermediate pivot required (*order separately*), see page 136
- Bottom pivot mortised into floor
- Available for fire door assemblies up to three hours (*ferrous material*) – specify F117-1/2. Intermediate pivot required by UL. Specify FM19 (*order separately*), see page 136
- For 20-minute label suffix “-20” to the part number
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- 3/4" (19mm) offset (*measured from centerline of pivot to face of door*)
- Available for 1-1/2" (38mm) offset (*door weight 350 lbs.*) for doors with cladding or frame molding
- Door edges must be beveled 1/8" in 2"
- Furnished with wood and machine screws
- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard
- Doors will swing 180°, trim permitting

Technical Information

Frame stop required



Model L117

Application

Exterior or Interior Doors
Lead-Lined/Heavy/High Traffic Doors
Weight to 1,750 lbs.*
Door Width up to 4'0" (1219mm)
Handed



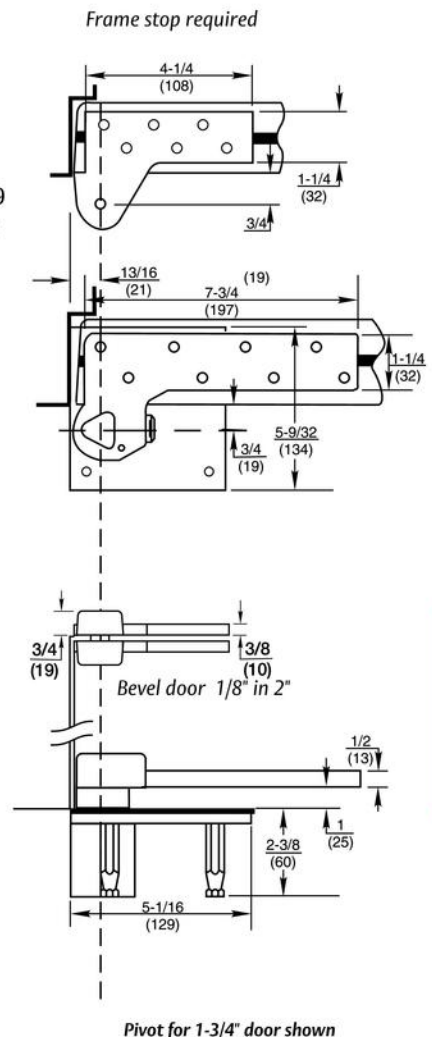
BHMA/ANSI NO: C07111

* Door size & weight guidelines are determined using the appropriate number of intermediate pivots

Product Description & Features

- Standard top pivot L180 included
- ML19 intermediate pivot required (order separately), see page 137
- Bottom pivot mortised into floor
- Available for fire door assemblies up to three hours (ferrous material). Specify FL117. Intermediate pivot required by UL. Specify FML19 (order separately), see page 137. Note: UL listing for 1-3/4" thick doors only
- Available to accommodate lead in door thicknesses 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), or 3" (76mm) – specify when ordering
- Additional thrust bearing for greater load capacity
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- For 20-minute label suffix "-20" to the part number
- Non-ferrous base material for top pivot
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled in 1/8" in 2"
- Furnished with wood and machine screws
- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard
- Doors will swing 180°, trim permitting

Technical Information



Model 180

Application

Full Mortise
Non-handed

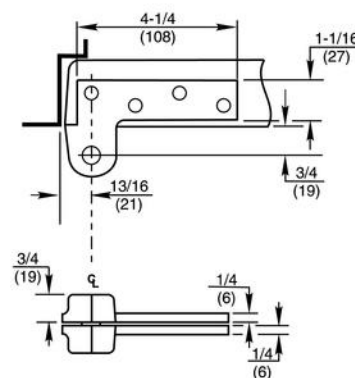


Product Description & Features

- Standard top pivot for most offset pivot sets and floor closers
- Oil-impregnated sintered bronze bushing
- Non-ferrous base material
- Available for fire door assemblies (*ferrous material*) – specify F180 or FH180
- For 20-minute label suffix “-20” to the part number
- 3/4" (19mm) offset (*measured from centerline of pivot to face of door*)
- Available for 1-1/2" (38mm) offset
- Furnished with wood and machine screws
- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only
- For extra wide or high traffic prefix "H"
 - H pivots have heavy-duty needle bearings
 - H Pivots available in 1-1/2" (38mm) offset

Technical Information

Frame stop required



Model 180 x 102

Application

Full Mortise
Non-handed

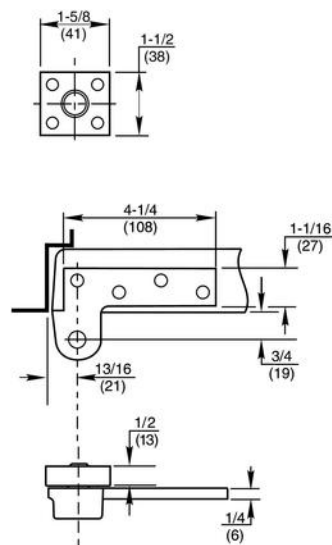


Product Description & Features

- Special top pivot for doors in deep reveals or unusual door details where one leaf is too long for the normal door or frame portion
- Oil-impregnated sintered bronze bushings
- Non-ferrous base metal
- Available for 1-1/2" (38mm) offset
- May be inverted
- Furnished with wood and machine screws
- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

Technical Information

Frame stop required



Model L180

Application

Lead-Lined/Heavy/High Traffic
Doors
Full Mortise
Non-handed

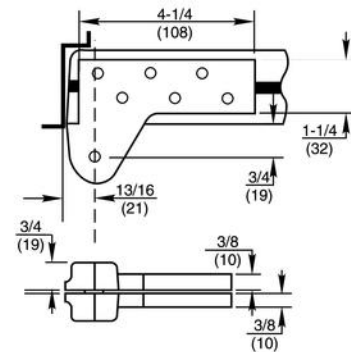


Product Description & Features

- Standard top pivot for L147, L117 pivots and L27 floor closers
- Doors with lead lining under the skin should also use this product
- Screw holes spaced to straddle lead in the middle of the door
- Available to accommodate lead lined door thicknesses: 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), or 3" (76mm) –specify when ordering
- Available for fire door assemblies for 1-3/4" (19mm) doors only (*ferrous material*). Specify FL180
- For 20-minute label suffix "-20" to the part number
- Non-ferrous base material
- 3/4" (19mm) offset (*measured from centerline of pivot to face of door*)
- Furnished with wood and machine screws
- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

Technical Information

Frame stop required



1-3/4" door shown

Model FA180

Application

Asylum Design
Full Mortise
Handed

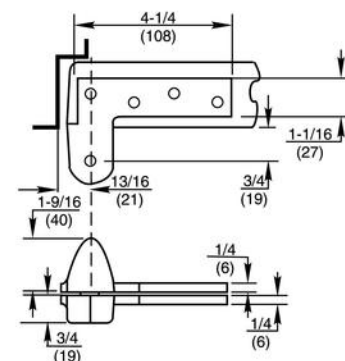


Product Description & Features

- Standard top pivot for SEC27-180 floor closer packages
- Optional top pivot for institutional use or installations where flat surfaces are objectionable
- For fire door assemblies
- Ferrous base material
- 3/4" (19mm) offset (*measured from centerline of pivot to face of door*)
- Furnished with wood and machine Torx® screws
- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

Technical Information

Frame stop required



Model 280

Application

Half Surface
Handed

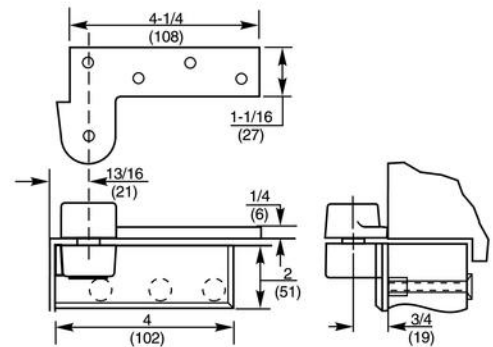
BHMA/ANSI NO: C07501



Product Description & Features

- Flush door and frame application only
- Optional top pivot where door portion cannot be mortised
- Available for fire door assemblies (*ferrous material*) – specify F280
- Non-ferrous base material
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- 1-3/4" door only
- Contact factory if door is not flush
- Furnished with wood and machine screws
- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

Technical Information



Model 380

Application

Half Mortise
Handed

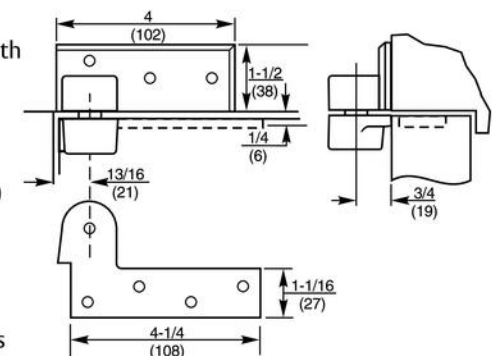
BHMA/ANSI NO: C07511



Product Description & Features

- Flush door and frame application only
- Optional top pivot where jamb portion cannot be mortised
- Designed for channel iron door frames with aluminum, hollow metal or wood doors
- Available for fire door assemblies (*ferrous material*) – specify F380
- Door portion from L180 pivot is available if lead-lined doors are used – specify L380 and door thickness
- Non-ferrous base material
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Furnished with wood and machine screws
- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

Technical Information



Model 480

Application

Full Surface
Handed

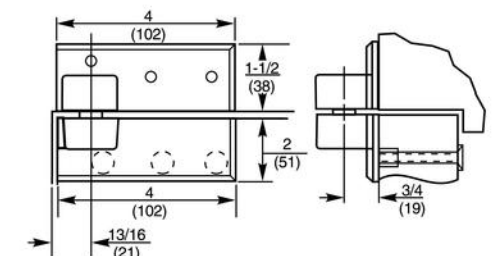
BHMA/ANSI NO: C07521



Product Description & Features

- Flush door and frame application only
- Optional top pivot where door and jamb portion cannot be mortised
- Designed for channel iron door frames and any door where thru-bolting is advantageous
- Available for fire door assemblies (*ferrous material*) – specify F480
- Non-ferrous base material
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- 1-3/4" door only
- Furnished with wood and machine screws
- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

Technical Information



Model 680

Application

Side Jamb Mounted
Frame Portion
Handed

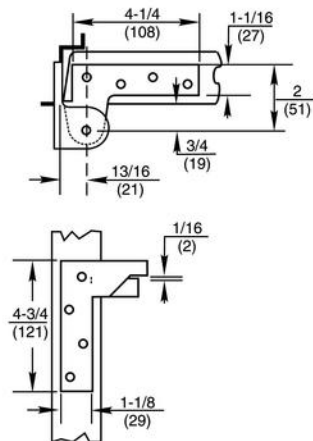


Product Description & Features

- Used where no frame exists above door, or where it is not possible to anchor pivot into header of frame
- Side jamb portion can be surface mounted or mortised
- Non-ferrous base material
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Furnished with wood and machine screws

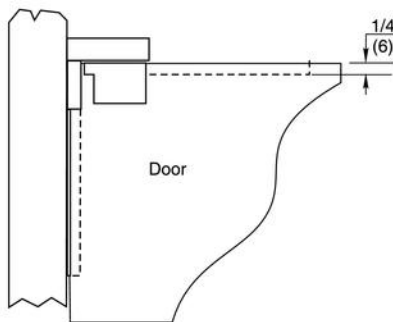
Technical Information

Frame stop required

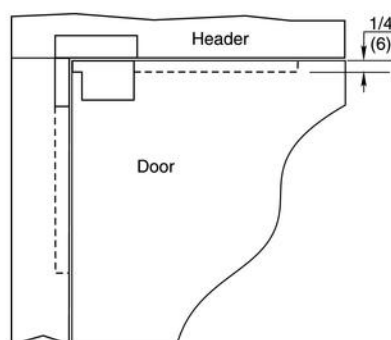


Technical Information

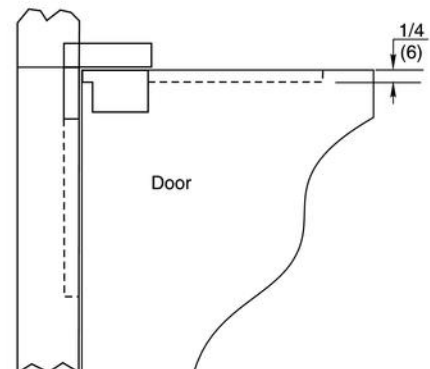
Surface Mount Jamb Double Mortise Door



Mortise Jamb, Header and Door



Mortise Jamb and Door



Model 119

Application

Full Mortise
Handed

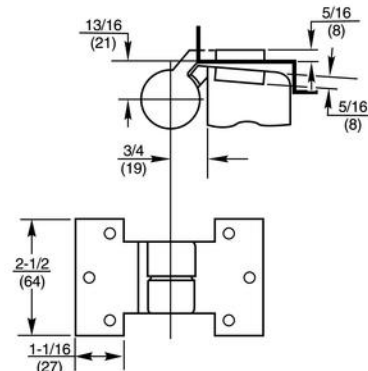
BHMA/ANSI NO: C07382



Product Description & Features

- Not load-bearing
- Maintains door alignment
- Available 3/4" (19mm) offset only
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door weight warrants another intermediate pivot
- Used with 117, 117-1/4, 195 and 127 closers
- Furnished with wood and machine screws

Technical Information



Model M19

Application

Full Mortise
Handed

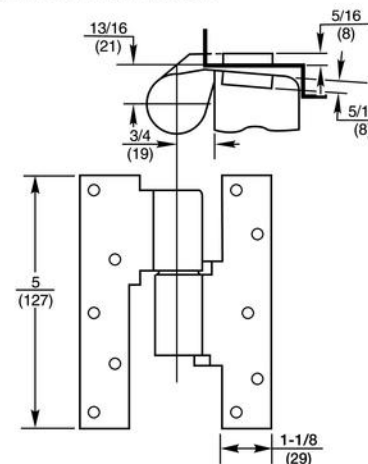
BHMA/ANSI NO: C07321/C07371



Product Description & Features

- Not load-bearing
- Maintains door alignment
- Aids in installing floor closers and bottom pivots
- For 20-minute label suffix "-20" to the part number
- Non-ferrous base metal
- 3/4" (19mm) offset
- Available for 1-1/2" (38mm) offset
- Available for fire door assemblies (*ferrous material*) – specify FM19
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws

Technical Information



Model M190

Application

Heavy-Duty Full Mortise
Handed

BHMA/ANSI NO: C07321/C07371

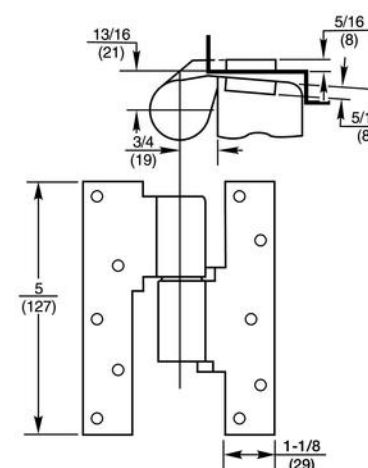


Product Description & Features

Used when frame condition does not allow standard top pivot

- Lateral load-bearing
- Maintains door alignment
- Aids in installing floor closers and bottom pivots
- Heavy-duty needle bearing
- Non-ferrous base metal
- 3/4" (19mm) offset standard
- Available for 1-1/2" (38mm) offset
- Available for fire door assemblies (*ferrous material*) – specify FM190
- For 20-minute label suffix "-20" to part number
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws

Technical Information

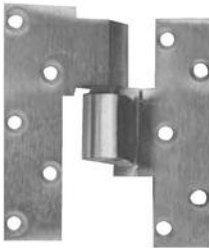


Model ML19

Application

Full Mortise
Lead-Lined, Heavy or
High Traffic Doors
Handed

BHMA/ANSI NO: C07311

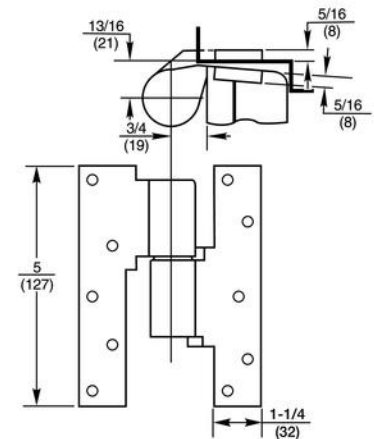


Product Description & Features

Screw holes spaced to straddle lead lining in center of door. Also use on extra heavy or high traffic door

- Load-bearing
- Maintains door alignment
- Aids in installing closers and pivots
- For 20-minute label suffix "-20" to the part number
- Available to accommodate door thicknesses 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), or 3" (76mm) – specify thickness when ordering
- Non-ferrous base material
- Available for fire door assemblies – 1-3/4" (44mm) door only – specify FML19
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws

Technical Information



Model FA19

Application

Full Mortise
Asylum or High Security
Applications
Handed

BHMA/ANSI NO: C07361

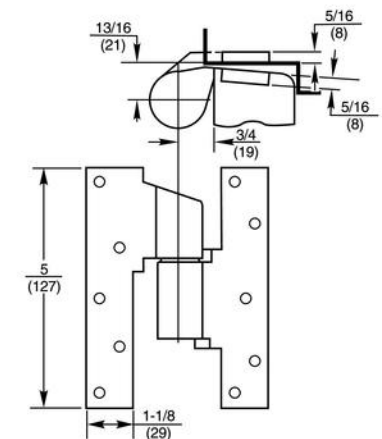


Product Description & Features

Optional intermediate pivot for institutional use or installations where flat surfaces are objectionable

- Maintains door alignment
- Aids in installing bottom pivots
- 3/4" (19mm) offset
- May be used with fire door assemblies
- For 20-minute label suffix "-20" to the part number
- Ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine Torx® screws

Technical Information



Model 219

Application
Half Surface
Handed

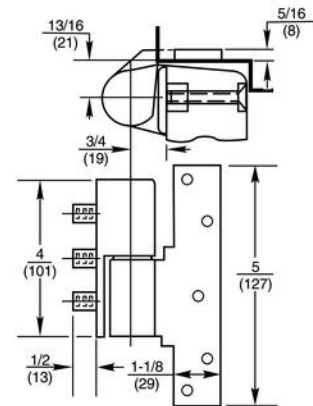
BHMA/ANSI NO: C07331



Product Description & Features

- Flush door and frame applications only
- Optional intermediate pivot where door portion cannot be mortised
- Maintains door alignment
- Available for fire door assemblies (*ferrous material*) – specify F219
- Non-ferrous base material
- 3/4" (19mm) offset only
- 1-3/4" door only
- Doors up to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws

Technical Information



Model 319

Application
Half Mortise
Handed

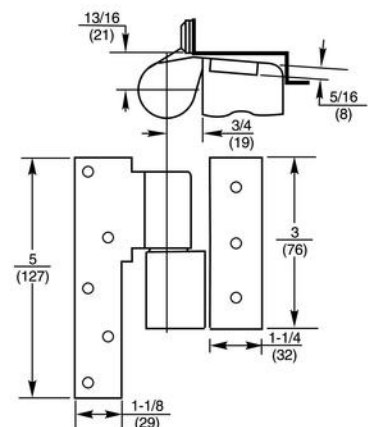
BHMA/ANSI NO: C07341



Product Description & Features

- Flush door and frame applications only
- Optional intermediate pivot where jamb portion cannot be mortised
- Door portion from ML19 pivot is available if lead-lined door is used – specify L319 and door thickness
- Maintains door alignment
- Non-ferrous base material
- 3/4" (19mm) offset only
- Available for fire door assemblies (*ferrous material*) – specify F319
- Doors up to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws

Technical Information



Model 419

Application
Full Surface
Handed

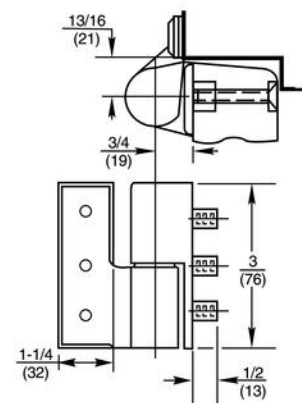
BHMA/ANSI NO: C07351



Product Description & Features

- Flush door and frame applications only
- Optional intermediate pivot where door and jamb portion cannot be mortised
- Maintains door alignment
- Non-ferrous base material
- 3/4" (19mm) offset only
- 1-3/4" door only
- Available for fire door assemblies (*ferrous material*) – specify F419
- Doors up to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws

Technical Information



Pivots and Pivot Sets Electrified Intermediate or Side Jamb Pivots

Model E-M19

Application

Offset Hung
Electric Pivot for Power Transfer
Handed

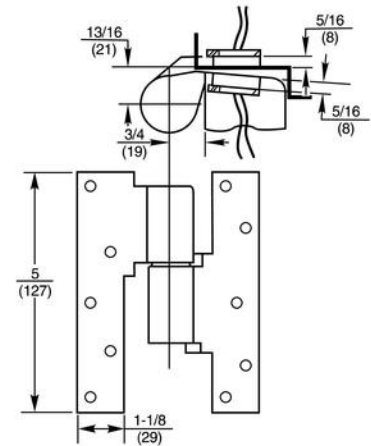


Whenever power transfer pivots are used, the leaves must not be separated

Product Description & Features

- Not load-bearing
- Door and jamb portion are factory assembled and cannot be separated
- Always use M19 intermediate pivot to install door
- Specify four, six, eight or twelve wires
- ElectroLynx® option available, suffix "QC#" (number of wires)
- 24-gauge wire is rated at 2 amps for low voltage, class II wiring applications
- Available for fire door assemblies (ferrous material) – specify E-FM19
- For 20-minute label, suffix "-20" to the part number
- 3/4" (19mm) offset
- Available 1-1/2" offset
- Furnished with wood and machine screws

Technical Information



Hardwiring Made Easy™



Model E-M19U

Application

Offset Hung
Electric Pivot for Power Transfer
Handed
For Electrified Panic Devices with
Large Inrush Current

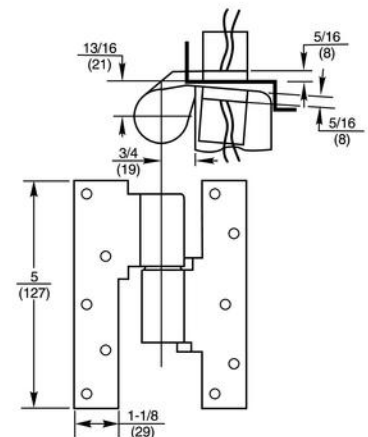


Whenever power transfer pivots are used, the leaves must not be separated

Product Description & Features

- Not load-bearing
- Always use M19 intermediate pivot to install door
- Door and jamb portion are factory assembled and cannot be separated
- Junction boxes are supplied with pivots
- 2 each 18 gauge wires. Each wire is rated at 2 amps continuously. UL listed for 24-volt, Class I wiring
- ElectroLynx® option not available
- Not available in ferrous material
- 3/4" (19mm) offset
- Furnished with wood and machine screws

Technical Information



Pivots and Pivot Sets Electrified Intermediate or Side Jamb Pivots

Model E-ML19

Application

Offset Hung
Lead Lined or Extra Heavy Doors
Electric Pivot for Power Transfer
Handed

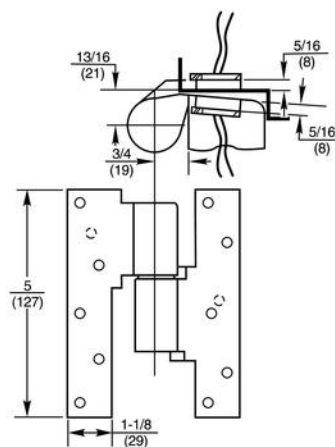


Whenever power transfer pivots are used,
the leaves must not be separated

Product Description & Features

- Not load-bearing
- Always use ML19 intermediate pivot to install door
- Door and jamb portion are factory assembled and cannot be separated
- Standard with four, six, eight or twelve wires
- ElectroLynx® option available, suffix "QC#" (number of wires)
- 24-gauge wire is rated at 2 amps for low voltage, class II wiring applications
- Available for fire door assemblies (*ferrous base material*) specify E-FML19
- For 20-minute label, suffix "-20" to the part number
- 3/4" (19mm) offset
- Furnished with wood and machine screws
- Available 1-3/4" doors only

Technical Information



Hardwiring Made Easy®



Model CS-M19

Application

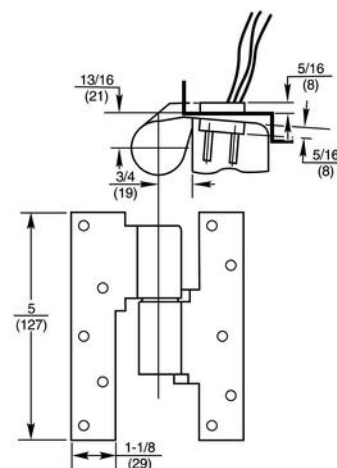
Offset Hung
Electric Pivot for Door
Position Monitoring
Handed



Product Description & Features

- Magnetically activated reed switch in frame leaf of pivot monitors door position
- Always use M19 intermediate pivot to install door
- Not load-bearing
- Adjusting screw is easy to set on-site after installation. Screw is disguised as an installation screw
- Switch rated at 0.3 amps and 28 volts maximum, 3 ea 22-gauge wires
- ElectroLynx® option not available
- 3/4" (19mm) offset
- Available 1-1/2" offset
- Furnished with wood and machine screws

Technical Information



Model CS-E-M19

Application

Offset Hung
Electric Pivot for Door
Position Monitoring
+ Power Transfer
Handed

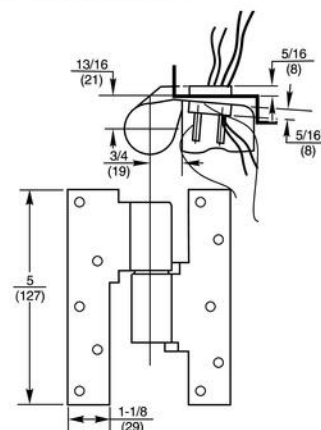


Whenever power transfer pivots are used, the leaves must not be separated

Product Description & Features

- Always use M19 intermediate pivot to install door
- Not load-bearing
- Magnetically activated reed switch in frame leaf of pivot monitors door position
- Adjusting screw is easy to set on-site after installation. Screw is disguised as an installation screw
- Door and jamb portion are factory assembled and cannot be separated
- For power transfer specify four, six, eight or twelve wires. 24-gauge wire is rated @ 2 amps for low voltage, class II wiring application
- Switch rated at 0.3 amps and 28 volts maximum. 3 each 22 gauge wires only
- ElectroLynx® option available for power transfer only, suffix "QC#" (number of wires) – Specify 4, 6, 8 or 12 wires
- Not available in ferrous material
- 3/4" (19mm) offset
- Furnished with wood and machine screws
- For 20-minute label, suffix -20
- Available 1-1/2" offset

Technical Information



Hardwiring Made Easy®



Model CS-ML19

Application

Offset Hung
Lead Lined or Extra Heavy Doors
Electric Pivot For Door Position
Monitoring
Handed



Product Description & Features

- Always use M19 intermediate pivot to install door
- Not load-bearing
- Door and jamb portion are factory assembled and cannot be separated
- Magnetically activated reed switch in frame leaf of pivot monitors door position
- Adjusting screw is easy to set on-site after installation. Screw is disguised as an installation screw
- Switch rated at 0.3 amps and 28 volts maximum, 3 ea 22 gauge wires
- ElectroLynx® option not available
- 3/4" (19mm) offset
- 1-3/4" door only
- Furnished with wood and machine screws

Technical Information

