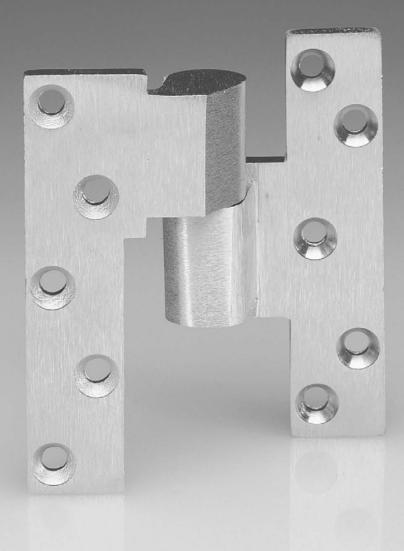


Experience a safer and more open world



PIVOTS AND PIVOT SETS

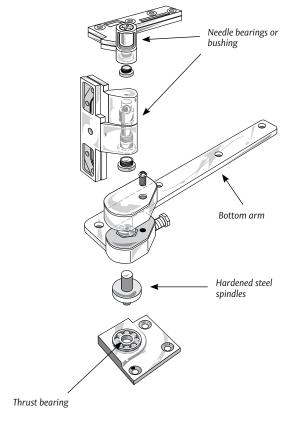
Architectural Solutions for Durable and Efficient Hanging of Doors

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GENERAL INFORMATION, HOW TO SELECT PRODUCT

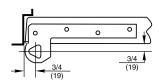
Pivot sets provide the best possible means of hanging a door. They are designed to work with the laws of physics to provide long-lasting performance and reliability.

- 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 nearer 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.



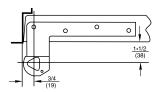
147 Pivot set and M19 Intermediate pivot shown (recommended)

1. OFFSET VS. CENTER HUNG APPLICATION



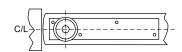
3/4" Offset

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 THICKNESS		
Door Material	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	_
Bullet Resistent	20	21	_
MDF	7	9	11.5
Tempered Glass	GLASS THICKNESS		
	3/8"	1/2"	3/4"
	5	7	9.75
141:	LEAD THICKNESS		
Lead Lining (add to door weight)	1/16"	1/8"	1/4"
	5	8	9.75
3/4" Cladding	CLADDING MATERIAL		
	Wood	Stone	Bronze
(add to door weight)	3	10.5	28

Example: 3'6" x 8' x 1/2" Tempered Glass Door Door: 28sq ft x 7lb./sq ft = 196lbs. For doors of other sizes, consult factory

Example: 3' x 7' 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.

3. CYCLES

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	High	
School entrance	1,250	225,000		
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	Average	
Office building corridor door	75	22,000		
Store restroom door	60	18,000		
Residential entrance door	40	15,000		
Residential restroom door	25	9,000	Low	
Residential hallway door	10	3,600		
Residential closet door	6	2,200		



OPTIONS, CERTIFICATIONS, WARRANTY, SPECIFICATIONS

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.

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.

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.

Handing

All offset pivots and pivot sets are handed. Suffix RH or LH.

CERTIFICATIONS



See individual sections for compliance with ANSI A156.4 standards.

LIMITED WARRANTY

Pivot sets are warranted for 2 years for defect. See Norton 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.

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.

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.

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.

Twenty-minute label – Suffix - 20



This UL rating is for 20-minute assemblies. Product with this rating has an authorized label.



Model 270

CENTER HUNG

Application

- Exterior or Interior Doors
- Weight to 300 lbs.
- Door Sizes up to 3'8"x 8'6"* (1118 x 2591mm)
- Non-handed

Product Description & Features

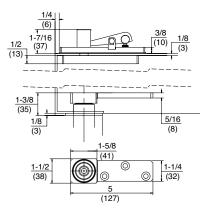
- Top pivot included
- Bottom pivot mounts directly to floor
- Pivot point centered in thickness of door
- Door must have radius on pivot edge
- Pivot set features sealed bearings for protection against weather and debris
- Not allowed for use on labeled doors and frames
- Furnished with wood and machine screws

Compliance

- ANSI A156.4, Grade 1
- ANSI C07031



Technical Information



Model 370

Application

- Exterior or Interior Doors
- Weight to 500 lbs.
- Door Sizes up to 3'8"x 8'6"* (1118 x 2591mm)
- Non-handed

Product Description & Features

- 340 top pivot included
- Bottom pivot mounts directly to floor
- Pivot point centered in thickness of door
- Door must have radius on pivot edge
- Pivot set features sealed bearings for protection against weather and debris
- Not allowed for use on labeled doors and frames
- Furnished with wood and machine screws

Optional Features

• Available with extended spindles in 1/2" (13mm) increments up to 2" (51mm) longer than standard

Compliance

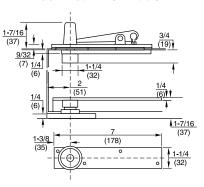
- ANSI A156.4. Grade 1
- ANSI C07032

Center hung pivots are door hanging means only. To close doors, see floor closer sections of the catalogs. *For doors taller than 8'6" use top pivot 345 in lieu of 340





Technical Information





ASSA ABLOY

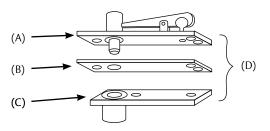
Model 370 Pivot Set

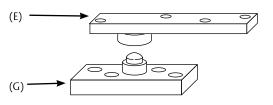
PARTS DRAWINGS

- (A) Top Pivot Jamb Portion 3065
- (B) Finish Plate x Screws 012202-*PK (BRS) 012204-*PK (SS)
- (C) Top Pivot Door Portion 30243
- (D) 340 Top Pivot
- (E) Arm 22131
- (G) Floor Portion and Stud 22121-*

Screw Kits

340 Top Pivot Screw Kit 107329 Machine & Wood 370 Floor Portion 107370-*





Model 117-3/4 Pivot Set

- (A) Top Pivot Jamb Portion 3065
- (B) Top Pivot Finish Plate 012202-*PK (BRS) 012204-*PK (SS)
- (C) Top Pivot Door Portion 30243
- (D) 340 Top Pivot
- (E) Arm 185.75
- (F) Spindle Shoulder Collar 16301*
- (G) Floor Plate x Screws 1174020-*
- (H) Floor Portion Assembly X01176320

Screw Kits

340 Top Pivot Screw Kit 107329 Machine & Wood Floor Plate Screws 107004-* Machine & Wood Arm Screw Kit 107064

*specify finish

