ABOUT BROOKLINE PIVOTS

DESIGN

- Stainless Steel base material improves durability, corrosion resistance and can be PVD finished to match any Brookline standard architectural finish.
- Interchangeable extended spindles are available to accommodate various floor and top jamb conditions.
- Center hung pivots offer complete concealment to allow for sleek modern design.

PERFORMANCE

- Brookline pivots provide bearings at the top and bottom of the door, assuring smooth operation and long life.
- Brookline pivots are mounted in shear rather than tension, to prevent thrusting of the door and ultimate misalignment of the opening.

SAFETY

- Brookline pivots provide bearings at the bottom, top and intermediate portions of the door to accommodate high frequency usage.
- These bearings reduce friction, and allow the door to open and close efficiently increasing door closer life and providing the most desirable ADA compliance.

INSTALLATION

- Brookline pivots and pivot sets are designed to install and adjust easily in the field.
- Brookline pivot sets are packed for wood or machine screw application.
- Installation templates are furnished with each and every pivot set.
- Installation of Brookline pivots require no special tools.

SUGGESTED SPECIFICATION

- All pivots and or pivot sets shall be constructed of stainless steel to accommodate uniform finish and matching design for labeled fire door and non labeled doors.
- All center hung pivots shall have adjustable spindle in the top pivot to facilitate varying job conditions.
- All pivots shall have either radius or thrust bearings and shall meet ANSI Grade 1 requirements.

D-2

VARIATIONS OF PIVOTS

3/4″ OFFSET PIVOTS

- All offset pivot sets are handed
- The pivot point of a 3/4″ offset pivot is ¾″ (19.1)mm from the heel and face of the door
- Door edges must be beveled 1/8″ (3.2)mm for every 2″ (50.8)mm of door thickness
- Offset pivots allow the door to be weathertight at both sides and the top using the stops

---

11/2″ OFFSET PIVOTS

- All offset pivot sets are handed
- The pivot point of an 1 1/2″ offset pivot is 3/4″ (19.1)mm from the heel and 1″ 1/2 (38.1)mm from the face of the door
- 1 1/2″ offset pivots allow additional clearance to accept various trim conditions
- 1 1/2″ offset pivots allow fascia to be applied to the face of a standard 1 3/4” (44.5)mm door
- Door edges must be beveled 1/8″ (3.2)mm for every 2″ (50.8)mm of door thickness
- Offset pivots allow the door to be weathertight at both sides and the top using the stops

---

INTERMEDIATE OFFSET PIVOTS

- Intermediate offset pivots maintain door alignment
- On labeled doors, NFPA 80 requires one intermediate pivot per door height up to 90″ (2286)mm and two intermediate pivots for doors from 90″(2286)mm to 120″(3048)mm
- Door edges must be beveled 1/8 ″ (3.2)mm for every 2″ (50.8)mm of door thickness

---

CENTER HUNG PIVOTS

- Center hung pivots cannot be used on labeled openings
- Center hung pivots offer complete concealment for single and double acting doors.
- Door edges must be radius on the pivot edge.

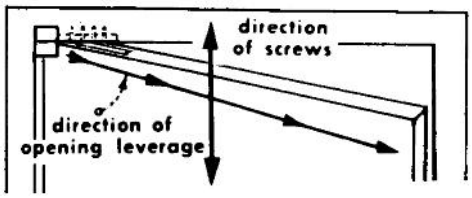
OFFSET HUNG PIVOT INFORMATION AND DETAILS

D-3

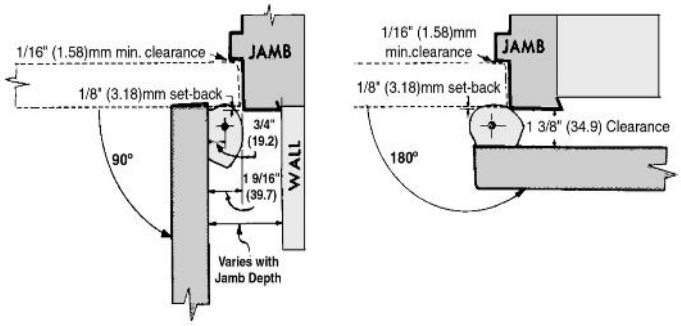
Why pivots are better than hinges

When a door is hung on a pivot, the entire weight of the door is carried by the bottom pivot resting on the floor. Since the screws in the top pivot are perpendicular to the pivot and at right angles to the opening leverage, the door is hung in sheer rather than in tension and is less likely to pull away from the jamb.

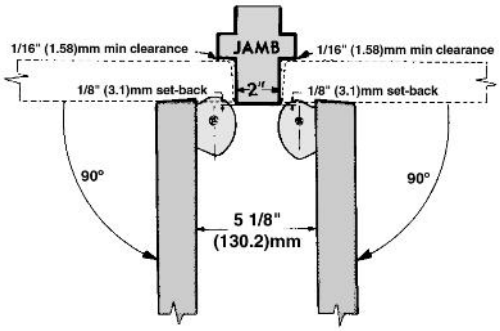
Offset Hung Doors assure a snug fit into the opening allowing a weathertight seal using both side and top stops A bottom seal can also be attained by using a panic threshold.



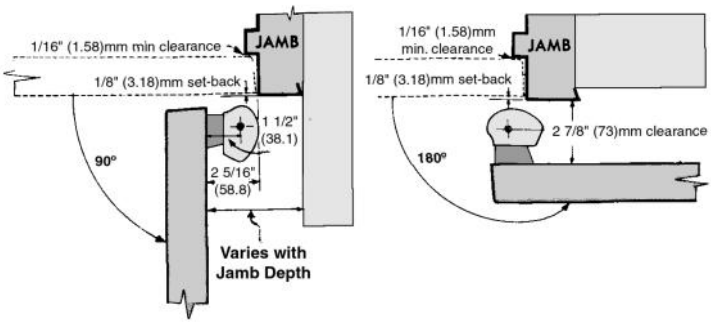
3/4" OFFSET



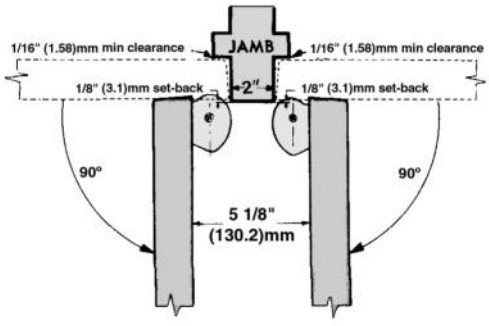
3/4" OFFSET Back to Back



1 1/2" OFFSET



1 1/2" OFFSET Back to Back

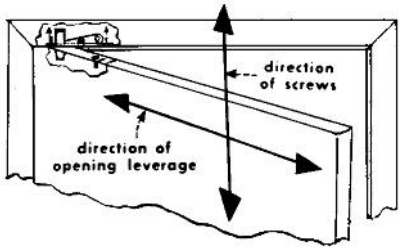


D-4

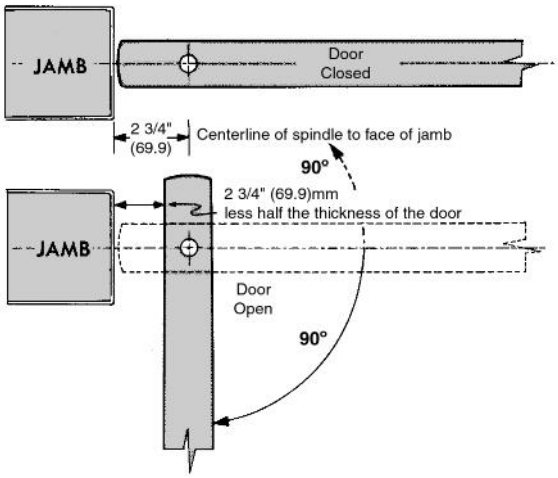
CENTER HUNG PIVOT INFORMATION AND DETAILS

Why pivots are better than hinges

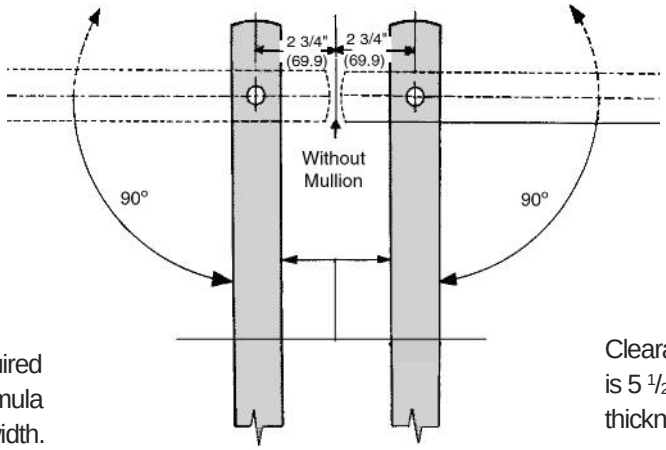
When a door is hung on a pivot, the entire weight of the door is carried by the bottom pivot resting on the floor. Since the screws in the top pivot are perpendicular to the pivot and at right angles to the opening leverage, the door is hung in sheer rather than in tension and is less likely to pull away from the jamb.



Single Door



Pair of Doors Back to Back



If a mullion is required use the same formula plus the mullion width.

Clearance between doors is 5 ½" (139.7)mm less thickness of one door

1231S

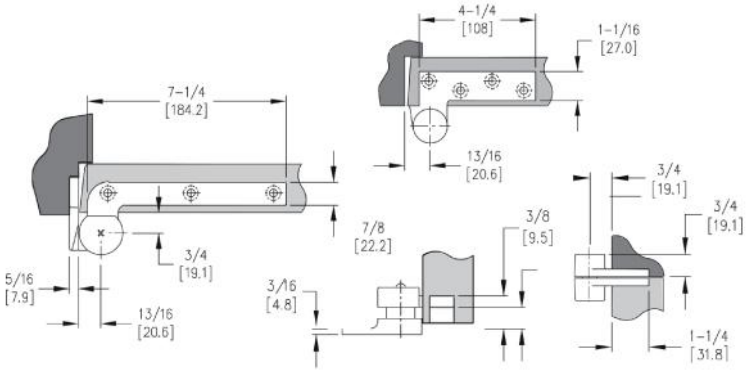
Offset Pivot Set (Handed)

For Interior Doors

Width to 3’8” (1118)mm
Height to 8’0” (2438)mm

Weight to 250lbs (113)kg

- Bottom pivot mortised into jamb
- Investment cast stainless steel, bearings top and bottom pivot
- Extended spindles in 1/2“(12.7)mm increments up to 2“(50.8)mm
- Available in standard architectural finishes
- Intermediate pivot **1251** suggested see page D-8



1233S

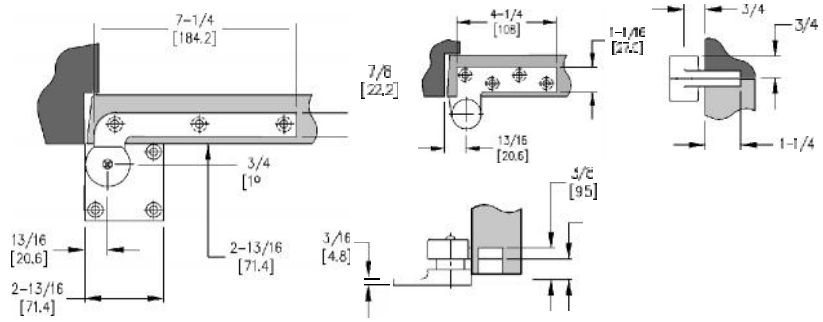
Offset Pivot Set (Handed)

Interior Doors

Width to 4’0” (1220)mm
Height to 8’0” (2440)mm

Weight to 250lbs (113)kg

- Bottom pivot mounts directly to floor
- Intermediate pivot required for fire application
- Investment cast stainless steel, bearings top and bottom pivot
- Available in standard architectural finishes
- Extended spindles in 1/2“(12.7)mm increments up to 2“(50.8)mm
- Intermediate pivot **1251** suggested see page D-8



BROOKLINE

D-6 **MODEL** **PRODUCT DESCRIPTIONS & FEATURES**

1235S

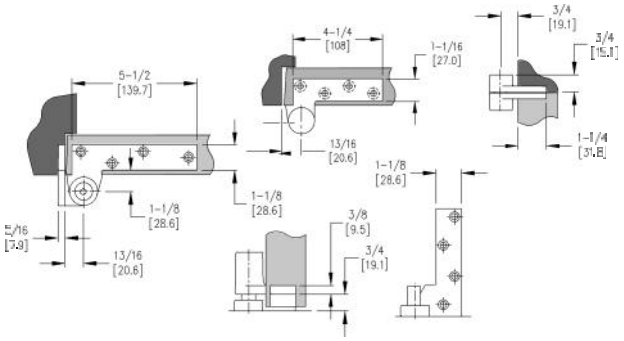
Offset Pivot Set (Handed)

Exterior or Interior Doors

Width to 4’0” (1219)mm
Height to 8’0” (2438)mm

Weight to 450lbs (204)kg

- Bottom pivot mortised into jamb
- Bottom pivot has 3/16”(4.8)mm vertical adjustment
- Investment cast stainless steel, bearings top and bottom pivot
- Available in standard architectural finishes
- Intermediate pivot **1251** suggested see page D-8



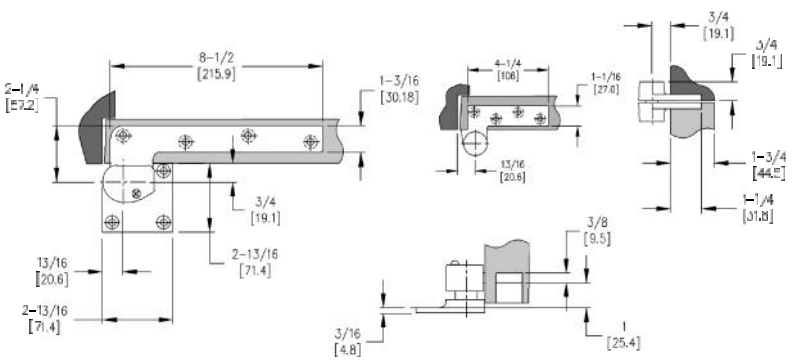
1237S

Offset Pivot Set (Handed)

Exterior doors
Width to 3’6” (1067)mm
Height to 7’0” (2134)mm
Interior doors
Width to 4’0” (1220)mm
Height to 8’6” (2590)mm

Weight to 600lbs (272kg)

- Bottom pivot mounts directly to floor
- Intermediate pivot 1257 required for fire application
- Investment cast stainless steel
- Available in standard architectural finishes
- Extended spindles in 1/2“(12.7mm) increments up to 2“(50.8mm)
- Intermediate pivot **1251** suggested see page D-8



1238S

Offset Pivot Set (Handed)

Exterior doors

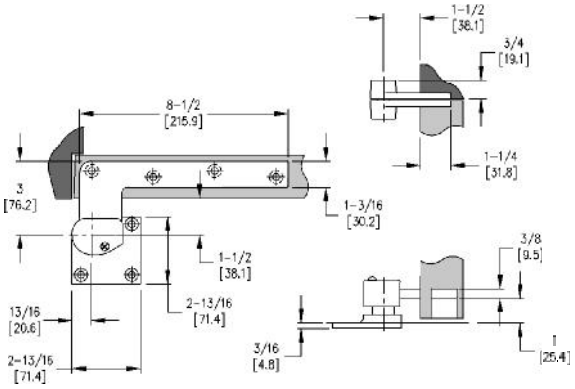
Width to 3’6” (1067)mm
Height to 7’0” (2134)mm

Interior doors

Width to 4’0” (1220)mm
Height to 8’6” (2590)mm

Weight to 350lbs (159)kg

- Bottom pivot mounts directly to floor
- Available for fire door assemblies up to three hours (Prefix with “F”)
- Intermediate pivot 1258 required for fire application
- 1 1/2” offset (38.1)mm
- Investment cast stainless steel, bearings top and bottom pivot
- Available in standard architectural finishes
- Extended spindles in 1/2“(12.7)mm increments up to 2“(50.8)mm
- Intermediate pivot **1258** recommended see below



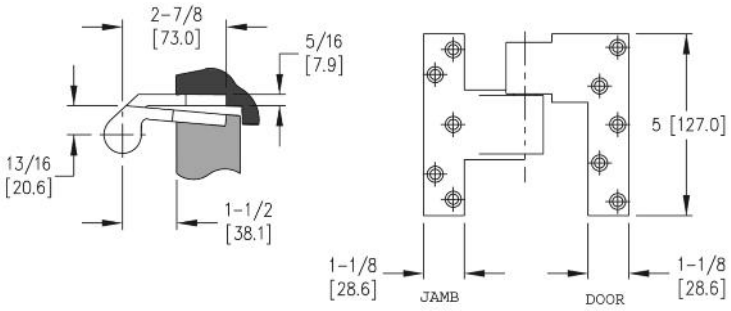
1258

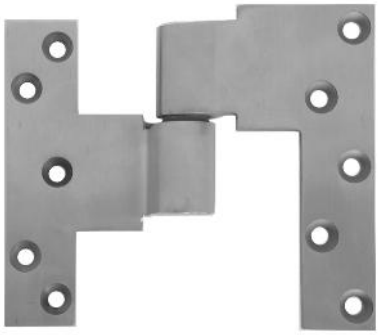
Intermediate Pivot (Handed)

Full Mortise

Technical Note: On labeled doors NFPA 80 requires one intermediate pivot per door height up to 90˝ (2286)mm and two intermediate pivots for doors from 90˝(2286)mm to 120˝ (3048)mm

- Maintains alignment of the door
- 1 1/2” offset (38.1)mm
- Investment cast stainless steel
- Needle bearings
- Available in standard architectural finishes
- Recommended for use with **1238S**





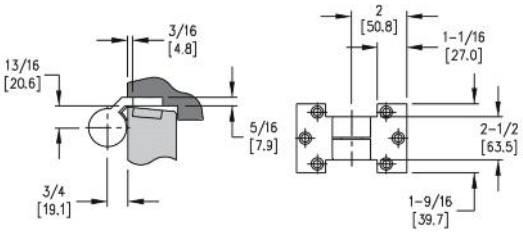
D-8 **MODEL** **PRODUCT DESCRIPTIONS & FEATURES**

1251

Intermediate Offset Pivot

Full Mortise (Handed)

- Leaf height of 2 1/2” (63.5)mm with no vertical load capacity
- Maintains alignment of the door
- Investment cast stainless steel
- Needle bearings
- Available in standard architectural finishes
- Suggested for use with **1231S** or **1233S**

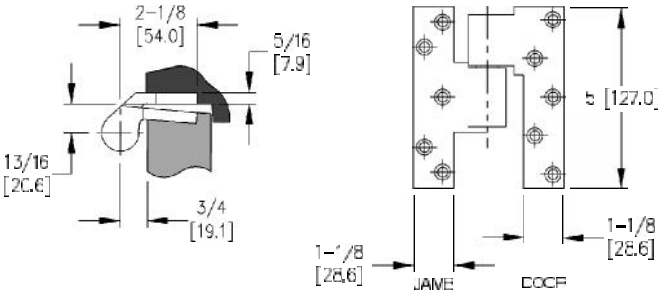


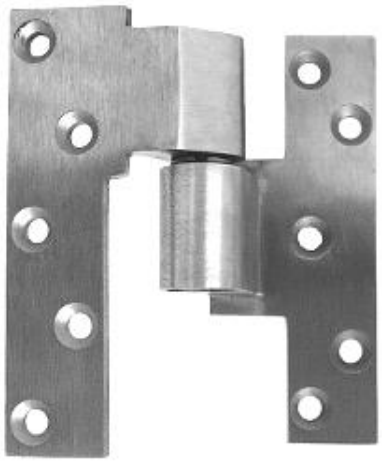
1257

Intermediate Offset Pivot

Full Mortise (Handed)

- Maintains alignment of the door
- 3/4” offset (19.1)mm
- Investment cast stainless steel
- Needle bearings
- Available in standard architectural finishes
- Suggested for use with **1235S** or **1237S**





Technical Note: On labeled door NFPA 80 requires one intermediate pivot per door height up to 90˝ (2286)mm and two intermediate pivots for doors from 90˝(2286)mm to 120˝ (3048)mm

MODEL	PRODUCT DESCRIPTIONS & FEATURES	D-9

1257 E2W 2 Wire

1257 E4W 4 Wire

1257 E8W 8 Wire

Power Transfer

Intermediate Offset Pivot

Full Mortise (Handed)

1257 M4W **4 Wire**

1257 M8W **8 Wire**

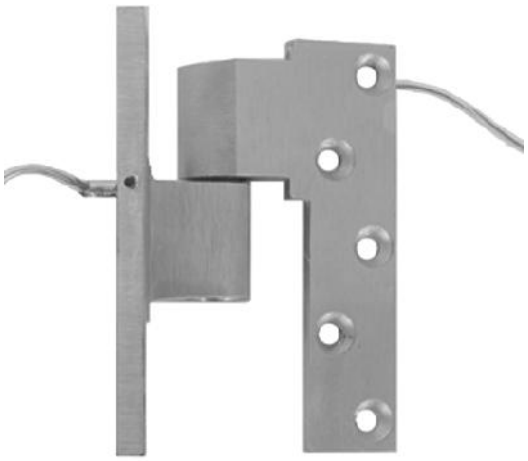
Power Transfer

Door Monitoring

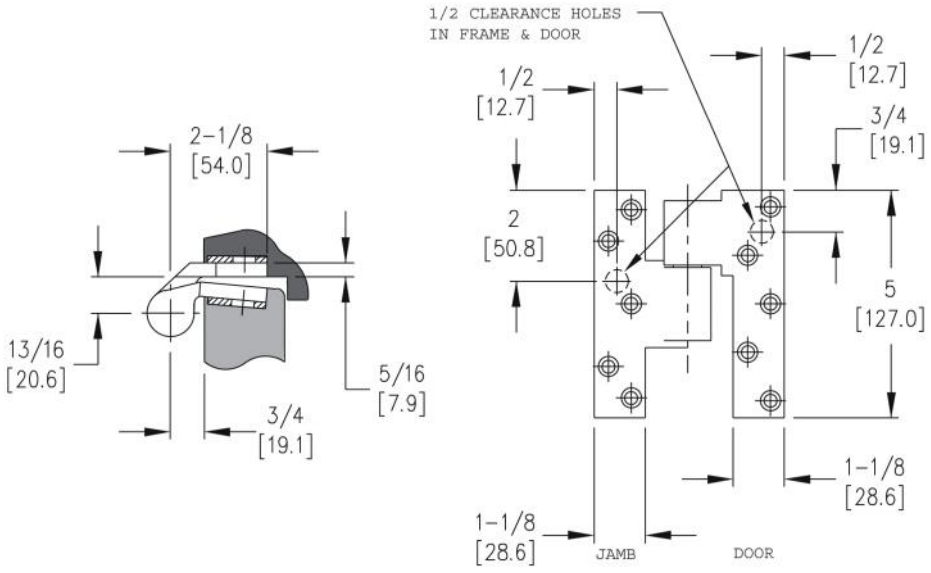
Intermediate Offset Pivot

Full Mortise (Handed)

- Maintains alignment of the door
- Transfers power or signal from frame to door
- Available for fire door assemblies (Prefix with “F”)
- 3/4” offset (19.1)mm only
- Investment cast stainless steel
- Available in standard architectural finishes
- Use with **1230** series 3/4” offset pivot sets



Technical Note : **please note extra preparation of the frame and door required to provide raceway for wires**



D-10 **MODEL** **PRODUCT DESCRIPTIONS & FEATURES**

1211S

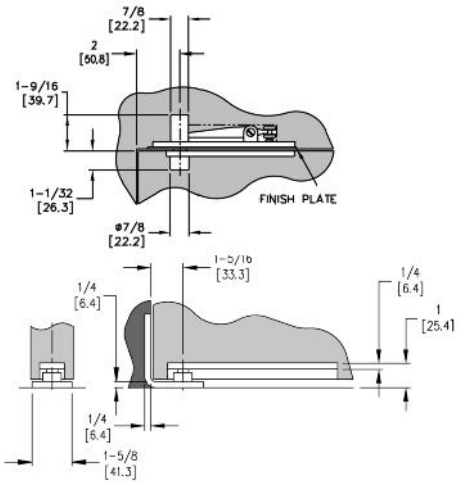
Center Hung Pivot Set

Interior Doors

Width to 3’6” (1067)mm
Height to 8’6” (2590)mm

Weight to 200 lbs (91)kg

- Bottom pivot mortise into side jamb
- Bearings top pivot and bottom arm
- Double acting
- Investment cast stainless steel
- Available in standard architectural finishes



1212S

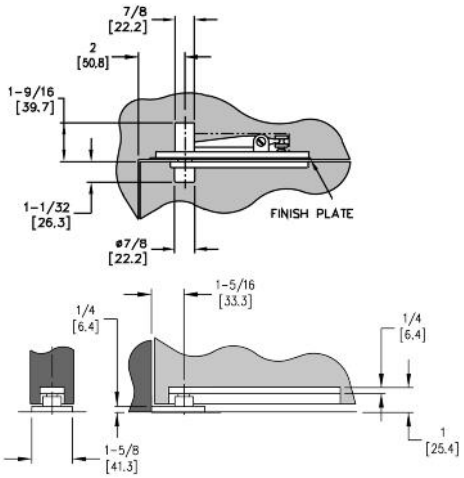
Center Hung Pivot Set

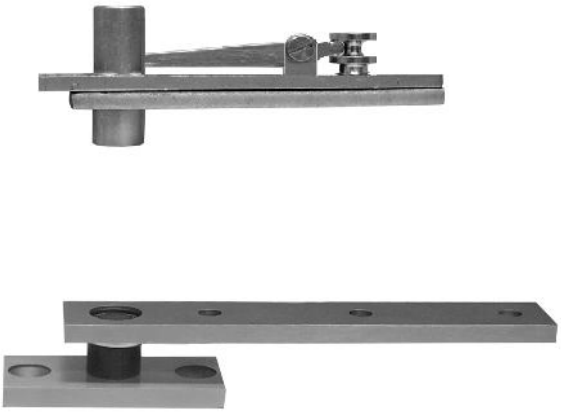
Interior Doors

Width to 3’6” (1067)mm
Height to 8’6” (2590)mm

Weight to 250 lbs (113)kg

- Bottom pivot mounts directly to floor
- Bearings top pivot and bottom arm
- Double acting
- Investment cast stainless steel
- Available in standard architectural finishes





1213S

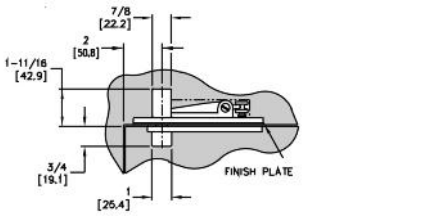
Center Hung Pivot Set

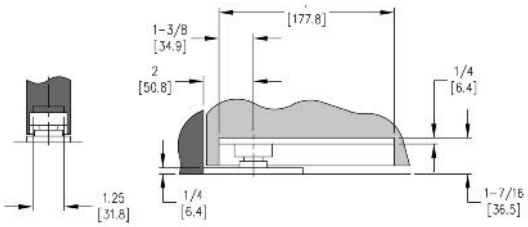
Exterior or Interior Doors

Width to 4’0” (1220)mm
Height to 8’6” (2590)mm

Weight to 500 lbs (227)kg

- Bottom pivot mounts directly to floor
- Bearings top pivot and bottom arm
- Bottom pivot bearing sealed for protection against weather and debris
- Top pivot spindle adjustable up to 1” (25.4)mm
- Investment cast stainless steel
- Available in standard architectural finishes





1261

Pocket Door Pivot
Non Handed

- Full mortise, non-handed pivot for pocket door applications
- Heavy duty stainless steel pivot with needle bearings
- 3-hour A label hollow metal doors and 20 minute wood doors
- Allows doors to swing 90º