



Concealed Steel Hinge

Minimum Door Thickness

1 3/8 in

1 3/4 in

2 in

Finish

Satin Brass

Satin Chrome

Satin Nickel

Wood Screw Sizes

#10 x 1-1/2"
(4.8 mm x 38
mm)

#10 x 1-1/4"
(4.8 mm x 32
mm)

#12 x 1-1/2"
(5.5 mm x 38
mm)

#14 x 1-1/2"
(6.3 mm x 38
mm)

Diameter (mm)

1 15/32 in

1 41/64 in

1 63/64 in

Center to Center (mm)

6 5/16 in

6 7/8 in

7 in

Door/Jamb Gap (mm)

3/4 in

1 in

Door/Jamb Inset (mm)

3/16 in

1/4 in

9/32 in

Width

1 in

1 1/8 in

1 3/8 in

Leaf Gap

1/4 in

3/8 in

1/2 in

Length

4 5/8 in

5 1/2 in

Door/Jamb Gap

47/64 in

7/8 in

1 1/16 in

Door/Jamb Inset

15/64 in

1/4 in

9/32 in

Leaf Body Mortise Length

Height

DESCRIPTION

The hinge is invisible when closed.

Richelieu's concealed hinges offer superior appearance and durability with contemporary and functional style. They easily install and can be used for many applications on wood or metal doors to meet all your needs.

ADVANTAGES AND BENEFITS

Security: When closed, the SOSS concealed hinge cannot be seen or tampered with. When opened, the riveted hinge pin is non-removable. **Safety:** The moving pivot point remains inside the hinge during movement until fully opened, eliminating an external pinch point on the back side of the door. **Strength:** The installed hinge is firmly anchored in a deep, full mortise with screws to support the door and provide a rigid and secure installation. **Superior Construction:** Concealed hinges are designed to ensure reliable operation for years. The standard hinges are made of high-strength steel and zinc alloy. **Smooth Operation:** All hinges have been designed and developed to give smooth performance and reduce friction.

AVAILABLE PRODUCTS

Product #	Minimum Door Thickness	Finish	Wood Screw Sizes	Diameter (mm)	Center to Center (mm)	Door/Jamb Gap (mm)	Door/Jamb Inset (mm)	Width	Leaf Gap	Length	Door/Jamb Gap	Door/Jamb Inset	Leaf Body Mortise Length	Height
421216160	1 3/8 in	Satin Brass	#14 x 1-1/2" (6.3 mm x 38 mm)	1 15/32 in	6 5/16 in	3/4 in	1/4 in	1 in	1/4 in	4 5/8 in	47/64 in	15/64 in	2 19/32 in	1 15/32 in
421216145	1 3/8 in	Satin Chrome	#14 x 1-1/2" (6.3 mm x 38 mm)	1 15/32 in	6 5/16 in	3/4 in	1/4 in	1 in	1/4 in	4 5/8 in	47/64 in	15/64 in	2 19/32 in	1 15/32 in
421216185	1 3/8 in	Satin Nickel	#10 x 1-1/4" (4.8 mm x 32 mm)	1 15/32 in	6 5/16 in	3/4 in	1/4 in	1 in	1/4 in	4 5/8 in	47/64 in	15/64 in	2 19/32 in	1 15/32 in
421218160	1 3/4 in	Satin Brass	#10 x 1-1/2" (4.8 mm x 38 mm)	1 41/64 in	7 in	1 in	3/16 in	1 1/8 in	3/8 in	4 5/8 in	7/8 in	1/4 in	2 15/32 in	1 41/64 in
421218145	1 3/4 in	Satin Chrome	#10 x 1-1/2" (4.8 mm x 38 mm)	1 41/64 in	7 in	1 in	3/16 in	1 1/8 in	3/8 in	4 5/8 in	7/8 in	1/4 in	2 15/32 in	1 41/64 in
421218185	1 3/4 in	Satin Nickel	#10 x 1-1/2" (4.8 mm x 38 mm)	1 41/64 in	7 in	1 in	3/16 in	1 1/8 in	3/8 in	4 5/8 in	7/8 in	1/4 in	2 15/32 in	1 41/64 in
421220145	2 in	Satin Chrome	#12 x 1-1/2" (5.5 mm x 38 mm)	1 63/64 in	6 7/8 in	1 in	9/32 in	1 3/8 in	1/2 in	5 1/2 in	1 1/16 in	9/32 in	2 15/16 in	1 63/64 in
421220185	2 in	Satin Nickel	#12 x 1-1/2" (5.5 mm x 38 mm)	1 63/64 in	6 7/8 in	1 in	9/32 in	1 3/8 in	1/2 in	5 1/2 in	1 1/16 in	9/32 in	2 15/16 in	1 63/64 in

TECHNICAL SPECIFICATIONS

Material	Steel
Type of Hinge	Spring Closer
Fire Resistant	20 minutes
Drilling Depth (mm)	3/8 in
Standards and Certifications	UL R13638
Screw/Nail	Wood Screw (Included), Screw/Nail (Included)
Fixing Type	Screw-On
Mounting Type	Mortise
Cabinet Angle	180°
Door/Jamb Gap in Closed Position	1/16 in
Handedness	Reversible
Hinge Opening Angle	+180°

APPLICATION

The concealed hinges are used by designers, architects, and engineers to help solve design problems associated with today's ultra modern materials. Our hinges are found in many applications where concealment, compact size, and smooth operation are essential. Concealed hinges can be found in various high-tech products including, computers, cash registers, copy machines, medical equipment, and office equipment. Limited only by the imagination of the designer, SOSS concealed hinges are used in Cessna Bravo jets, custom furniture by experts in the cabinet and display industry and wherever invisibility and flexibility are of paramount importance. SOSS concealed hinges open a full 180° and operate with a single action. Ideally suited for mirrored doors, gates, wall panels, pass doors, storage cabinets, electronic and computer devices, wall units, hidden doors, pharmaceutical storage areas, courtrooms, and churches. SOSS concealed hinges are used in restaurants, homes, and offices to create environments with clean lines.

IMPORTANT INFORMATION

Note: The manufacturer reserves the right to make technical changes or modify information without prior notice. Picture for visual reference only: actual product may vary from that shown in photo. Please note that Richelieu will not accept any returns or claims for unpackaged products. Always be sure to install the product correctly using the appropriate fixation for your material. Never exceed the maximum weight or the maximum width recommended by the manufacturer. Never use any spray lubricant on these products.

Disclaimer: The preceding information, as well as any technical recommendations given in writing, verbally or based on tests, is provided to the best of our knowledge. However, recommendations are non-binding and do not affect your responsibility to determine the correctness of the given recommendations and the suitability of the product for your particular purposes. The application, use, or processing of our products, as well as the production of products based on our technical recommendations, are out of our control and therefore fall exclusively under your responsibility. Sales of our products are subject to our most recent General Sales and Delivery Conditions.

DISCLAIMER

The information provided as well as any technical recommendations given in writing, verbally or based on tests is provided to the best of our knowledge. However, recommendations are non-binding and do not diminish your responsibility for determining the correctness of these recommendations and the suitability of the product for your particular purpose. The application, use, or processing of our products as well as the production of products based on our technical recommendations are beyond our control and therefore exclusively your responsibility. Sales of our products are subject to our most recent General Sales and Delivery Conditions. Warning: This product can expose you to chemicals including chromium and nickel, which are known to the State of California to cause cancer or other reproductive harm. For further information go to www.p65warnings.ca.gov.

PRODUCT PHOTOS

