

Aluminum geared continuous hinges

Geared continuous hinges are designed to last the life of a building by distributing the weight of a door along the entire length of its frame. The geared continuous hinge has no pin. Instead, these hinges utilize a single gear section for the leaf and a separate gear section for the frame side of the door. The two are held in place by a full-length cover channel and rotate on a series of bearings. Ives HD models feature a spread bearing design for lighter weight doors. The XY models feature lateral and vertical adjustment after the hinge is secured to door and frame, a center loaded bearing design to help reduce frame issues and has available a hospital tip cap and electric through-wire panel with a continuous cover.



General information

ANSI/BHMA Certified

All Ives aluminum geared hinges are certified to ANSI/BHMA 156.26, Grade 1
XY models: Grade 1 150lb and 300lb door test
HD models: Grade 1 150lb door test

UL Listed

All Ives Aluminum geared hinges are tested and approved UL 10C (90 minutes).

Material

6063-T6 Aluminum.

Hinge duty

All Ives Aluminum geared hinges are heavy duty (XY and HD models).

XY model - slot adjustability



XY model - bearings



HD model



XY models

- Rounded gear design for extended life and smoother operation
- Patented, center loaded, interlocking bearing design which helps handle the opening and closing of the door better over time (all sizes have 37 bearings)
- XY mounting slot adjustability on all full and half surface models to help with installation
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps
- Improved aesthetics with a curved, articulating cover design which eliminates pinch points

HD models

Features transmission gear design with bearings that are evenly spaced every 3" on center - Amount of bearings varies by size

- 83" - 32 Bearings
- 85" - 32 Bearings
- 95" - 36 Bearings
- 120" - 47 Bearings

Standard lengths

83", 85", 95", 119" (XY models), 120" (HD models)
custom lengths available up to 119", consult factory.
Handing required for 224HD.

Finishes

BHMA	US	Description	Base material
628	US28	Clear Aluminum Anodized	Aluminum
710	313AN	Dark Bronze Anodized	Aluminum
711	315AN	Black Anodized (XY only)	Aluminum

Custom finishes available, consult factory.

Field modifications

Ives aluminum geared continuous hinges can be cut to length from both ends during installation.

XY models

The unique mounting pattern of the XY hinge allows it to be cut down to 69" while still having double row fasteners regardless of the original length of the hinge. Requires the hinge to be cut from both ends. Example: A 119" hinge can have 25" removed from each end to make it a 69" long hinge.

HD models

The unique mounting pattern allows to cut up to 6" from bottom while still having double row fasteners. If cut more than 13.5", other modifications may be necessary.

Door weight

For doors up to 200 lbs, no door reinforcement is required. For doors between 200 and 450 lbs a 16 gauge channel in the frame is required. For doors up to 600 lb, rivet nuts are required in the frame in addition to the frame reinforcement. Max door width of 4'0".

Hospital tips

For Ives 112XY and 224XY models, Ives offers a patented ligature resistant and tamper resistant hospital tip cap option ideal for behavioral health and medical facilities to reduce the risk of injury or death due to ligature strangulation. The steeply sloped design prevents objects from hanging on cap by decreases ability for catching or looping with no exposed edges or gaps. It features a wrap around raised channel for added ligature resistance and fills in the door gap to cover hinge leaves.

Learn more at us.allegion.com/IvesXY.

Lifetime warranty

Ives continuous hinges carry a limited lifetime warranty with exception of electrified continuous hinges, which carry a 12 month warranty from time of shipment.

Learn more at us.allegion.com/warranty.

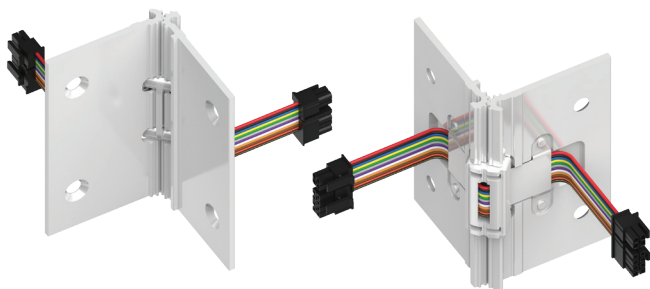


Hinges and pivots

Aluminum geared continuous hinges

General information

Electrification options



Electric power transfer (EPT) available on HD and XY models

Electric power transfer provides the most secure and best solution for transferring power from the door frame to the edge of a swinging door. Ives Continuous Hinges provide standard cut outs to fit Von Duprin EPT-2, EPT-10 and PNT-1 devices. Consult factory for other electrical cut out options. Door handing is required.

Electrical through-wire panel with Allegion Connect (TWP CON) (XY models only)

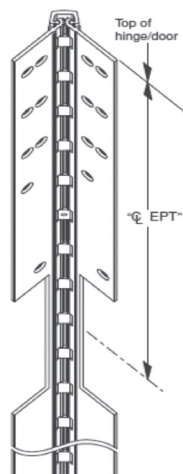
The most secure and best solution for powering your door. The redesigned XY Through-Wire Panel is heavy duty and easy-to-install. Hinge consists of single piece cover design for improved aesthetics and three sections with a standard bottom length and through-wire panel location. The panel can quickly slip in and out of the the hinge for maintenance and replacement. Unlike all of the other manufacturer solutions, the XY through-wire panel maintains a one piece appearance on the cover side of the hinge. The new wire design features a teflon coated wire which greatly improves performance and durability. The new panel also comes standard with the Allegion Connect 8-pin and 4-pin connectors which make it easy to connect to other electrical consumption devices. Warrantied for up to 5 years. Door handing is required.

Provides electric power transfer from the frame to the door in order to supply power to an electrified mortise or cylindrical locks, exit devices with electric latch retraction, and/or electric strikes (pairs of doors). Through-wire is rated 50 volts AC/DC at 3.5 amp continuous and 16 amp pulse. Maximum pulse 400 milliseconds. Ives XY TWP hinges are fully compatible with up to 12 wire installations.

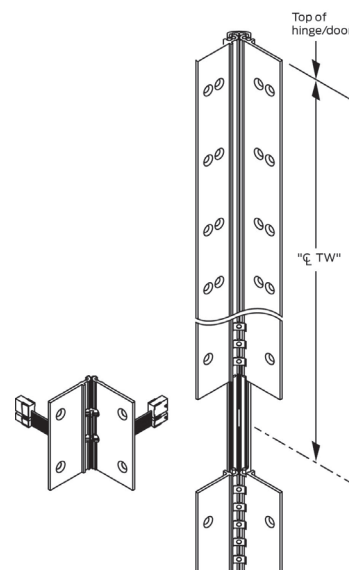
Electrical cutouts

Ives aluminum continuous hinges are available with factory modified cutouts to accommodate most electrical frame to door requirements. Special templates are required.

EPT 112HD



TWP XY Series



Note: See ordering guide in price book for proper placement.

When ordering indicate the following:

1. Opening size.
2. Handing. LH, RH, LHR or RHR.
3. Manufacturer and model number of the electrical product being used. Example: Von Duprin ETPT2.

Because clearances may vary between door and frame manufacturer, and locations can be influenced by the door hardware it is always recommend contacting Ives Customer Technical for specific template information.

Below are standard locations for Von Duprin EPT2 or EPT10, and monitor switch.

In accordance with industry standards, all cutouts are made from top edge of door to center line of cut-out. If top of door to top of cut-out is provided, $4\frac{3}{4}$ " are added to the dimension provided to determine the centerline of the cut-out. This provides an extra $\frac{1}{8}$ " of tolerance to ensure the EPT will fit during installation when varying installation methods are used.

Standard length	HD	XY	XY
	EPT	EPT	TWP CON
83"	30"	30"	43.5"
85"	32"	32"	45.5"
95"	42"	42"	55.5"
119" (XY)	—	66"	79.5"
120" (HD)	67"	—	—

XY TWP CON is located 39.5 inches from bottom of the hinge. Consult factory for TWP locations on custom length hinges.

Hinges and pivots

Aluminum geared continuous hinges

Mounting hardware

Standard hardware

Full mortise hinges	12-24 x 3/4" Steel self drilling / self tapping phillips head screw
Half surface hinges	12-24 x 3/4" Steel self drilling / self tapping phillips head screw
Includes 210XY	12-24 x 3/4" Steel self drilling / self tapping hex head screw
	1/4-20 x 3/4" Phillips head machine screws and pan head through bolts
Full surface hinges	12-24 x 3/4" Steel self drilling / self tapping hex head screw
157XY only	1/4-20 x 3/4" Phillips head machine screws and pan head through bolts

Security screws - Hollow metal door and frame (SEC/HM)

Full mortise hinges	12-24 X 1/2" Stainless steel socket security screw
112HD and 224HD only	
Available as accessory parts kit for full mortise XY hinges (026XY, 027XY, 040XY, 041XY, 112XY, 114XY, 224XY)	

Security screws - 1/2 wood, 1/2 hollow metal (SEC/WD/HM)

Full Mortise Hinges	12-24 X 1/2" Stainless steel socket security screw
112HD and 224HD only	12 X 1 1/4" Stainless steel socket security wood screw
Available as accessory parts kit for full mortise XY hinges (026XY, 027XY, 040XY, 041XY, 112XY, 114XY, 224XY)	

1/2 Self drill, self tap / 1/2 wood (TEK/WD)

Full mortise hinges	12-24 x 3/4" Steel self drilling/self tapping phillips head screw	12 x 1 1/4" Phillips head wood screw
Half surface hinges	12-24 x 3/4" Steel self drilling /self tapping phillips head screw	1/4 x 1 1/2" Hex head lag screw
Full surface hinges	12-24 x 3/4" Steel self drilling/self tapping hex head screw	1/4 x 1 1/2" Hex head lag screw

Wood door and frame (WD)

Full mortise hinges	12 x 1 1/4" Phillips head wood screw
Half surface hinges	12 x 1 1/4" Phillips head wood screw
Includes 210XY	1/4 x 1 1/2" Hex head lag screw
Full surface hinges	1/4 x 1 1/2" Hex head lag screw
157XY only	

Thread forming (TF)

Full mortise hinges	12-24 x 3/4" Steel thread forming phillips head screw
112HD and 224HD only	
Available as accessory parts kit for full mortise XY hinges (026XY, 027XY, 040XY, 041XY, 112XY, 114XY, 224XY)	

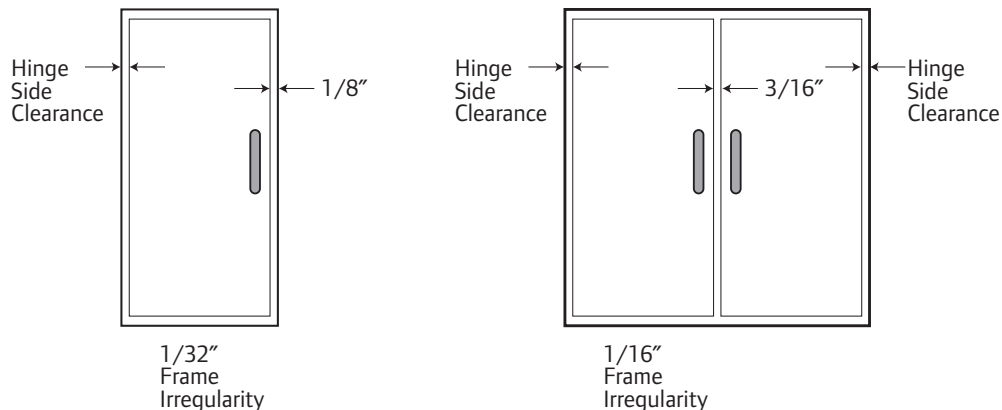
Hinges and pivots

Aluminum geared continuous hinges

Clearance requirements

Consult your local authority having jurisdiction for specific fire codes relating to fire rated doors.

The table below is only recommended for non fire related doors.



Single door

Model	Hinge-side clearance	Lock-side clearance	Frame irregularity	Beveled door clearance	Door under-sizing	
					Square edged	Beveled edge
026XY	5/16"	1/8"	1/32"	1/32"	15/32"	1/2"
027XY	5/16"	1/8"	1/32"	1/32"	15/32"	1/2"
040XY	5/16"	1/8"	1/32"	1/32"	15/32"	1/2"
041XY	5/16"	1/8"	1/32"	1/32"	15/32"	1/2"
045XY	5/16"	1/8"	1/32"	1/32"	5/16"	11/32"
046XY	5/16"	1/8"	1/32"	1/32"	5/16"	11/32"
053XY	5/16"	1/8"	1/32"	1/32"	5/16"	11/32"
054XY	5/16"	1/8"	1/32"	1/32"	5/16"	11/32"
112HD	5/16"	1/8"	1/32"	1/32"	15/32"	1/2"
112XY	5/16"	1/8"	1/32"	1/32"	15/32"	1/2"
114XY	5/16"	1/8"	1/32"	1/32"	15/32"	1/2"
157XY	1/16"	1/8"	1/32"	1/32"	7/32"	1/4"
210XY	1/16"	1/8"	1/32"	1/32"	7/32"	1/4"
224HD	5/16"	1/8"	1/32"	1/32"	15/32"	1/2"
224XY	5/16"	1/8"	1/32"	1/32"	15/32"	1/2"

Pair of doors

Model	Hinge-side clearance (2 doors)	Lock-side clearance	Frame irregularity (2 doors)	Beveled door clearance (2 doors)	Door under-sizing			
					Square edge total	Square edge each door	Beveled edge total	Beveled edge each door
026XY	5/8"	3/16"	1/16"	1/16"	7/8"	7/16"	5/16"	15/32"
027XY	5/8"	3/16"	1/16"	1/16"	7/8"	7/16"	5/16"	15/32"
040XY	5/8"	3/16"	1/16"	1/16"	7/8"	7/16"	5/16"	15/32"
041XY	5/8"	3/16"	1/16"	1/16"	7/8"	7/16"	5/16"	15/32"
045XY	5/16"	3/16"	1/16"	1/16"	9/16"	9/32"	5/8"	5/16"
046XY	5/16"	3/16"	1/16"	1/16"	9/16"	9/32"	5/8"	5/16"
053XY	5/16"	3/16"	1/16"	1/16"	9/16"	9/32"	5/8"	5/16"
054XY	5/16"	3/16"	1/16"	1/16"	9/16"	9/32"	5/8"	5/16"
112HD	5/8"	3/16"	1/16"	1/16"	7/8"	7/16"	5/16"	15/32"
112XY	5/8"	3/16"	1/16"	1/16"	7/8"	7/16"	5/16"	15/32"
114XY	5/8"	3/16"	1/16"	1/16"	7/8"	7/16"	5/16"	15/32"
157XY	1/8"	3/16"	1/16"	1/16"	3/8"	3/16"	7/16"	7/32"
210XY	1/8"	3/16"	1/16"	1/16"	3/8"	3/16"	7/16"	7/32"
224HD	5/8"	3/16"	1/16"	1/16"	7/8"	7/16"	5/16"	15/32"
224XY	5/8"	3/16"	1/16"	1/16"	7/8"	7/16"	5/16"	15/32"

Templates and installation instructions available on line at www.allegion.com/us

How to order

Model		Option 1		Finish		Length		Option 2
1		2		3		4		5
112XY	-	HT	-	628	-	83	-	TWP CON

Detail

1	Model			
026XY	Full mortise - narrow frame leaf, wide door leaf			
027XY	Full mortise - wide door leaf			
040XY	Full mortise - wide throw			
041XY	Full mortise - swing clear			
045XY	Half surface - narrow frame leaf, wide door leaf			
046XY	Half surface - wide door leaf			
053XY	Half surface - narrow frame leaf, narrow door leaf			
054XY	Half surface - narrow door leaf			
112XY	Full mortise - narrow frame and door leaf			
112HD	Full mortise - narrow frame and door leaf			
114XY	Full mortise - narrow frame leaf, door edge protector			
157XY	Full surface - center pivot			
210XY	Full surface - swing clear			
224XY	Full mortise - door edge protector			
224HD	Full mortise - door edge protector			
2 Option 1				
HT	Hospital tip (XY models only) (Only available on 112XY, 224XY)			
3 Finish				
BHMA	Description	Substrate	Finish	Availability
628	Clear Aluminum Anodized	Aluminum	US28	—
710	Dark Bronze Anodized	Aluminum	313AN	—
711	Black Anodized	Aluminum	315AN	XY only
Custom finishes available, consult factory.				
4 Length				
83"				
85"				
95"				
119" (XY) / 120" (HD)				
Custom lengths available up to 119", consult factory. When specifying length, handing required.				
5 Option 2				
EPT	Electric power transfer prep (Only available on 026XY, 027XY, 112HD, 112XY, 114XY, 224HD, 224XY) Handing (LH and RH) required for 026, 027, 114, and 224 models			
SECHM	Security fasteners - pin-in-socket			
SECWDHM	Security fasteners - pin-in-socket (half wood, half hollow metal)			
SECWDWD	Security fasteners - pin-in-socket (wood door and frame)			
TEKWD	Half thread forming, half wood			
TF	Thread forming screws - pilot hole required (Only available with 112HD and 224HD)			
TFWD	Half thread forming, half wood			
TWP CON	Through-wire panel with Allegion Connect standard (Only available on 026XY, 027XY, 112XY, 114XY, 224XY)			
WD	Wood door fasteners			

Hinges and pivots

Aluminum geared continuous hinges

026XY

Full mortise - narrow frame leaf, wide door leaf

- Wide door leaf for 2" and 2 1/4" doors
- Recommended for gasketing and weatherstripping applications
- Patented center loaded, interlocking bearing design
- Non-handed for custom cut lengths
- 3/32" door inset
- 48" Maximum door width
- Beveled or square edge doors
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps.
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing

Specifications

Standard length	83", 85", 95", 119"
Standard mounting hardware	12-24 x 3/4" Steel self drilling/self tapping phillips head screw
Certifications	<ul style="list-style-type: none"> ▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs ▪ UL10C listed (90 min)

Options

HT	Hospital tip
EPT	Electric power transfer
TWP CON	Electrical through-wire panel with Allegion Connect

Optional mounting hardware

SECHM	Security screws - hollow metal door and frame
SECWDHM	Security screws - 1/2 wood, 1/2 hollow metal
SECWDWD	Security screws - wood door and frame
TEKWD	1/2 Self drill, self tap 1/2 wood
WD	Wood door and frame

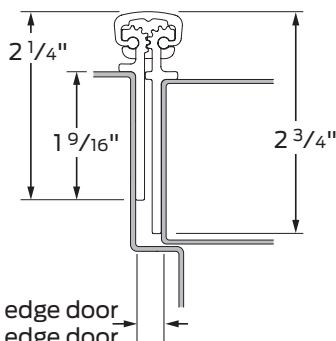
Finishes

BHMA	Description	Substrate	Finish
628	Clear Aluminum Anodized	Aluminum	US28
710	Dark Bronze Anodized	Aluminum	313AN
711	Black Anodized	Aluminum	315AN

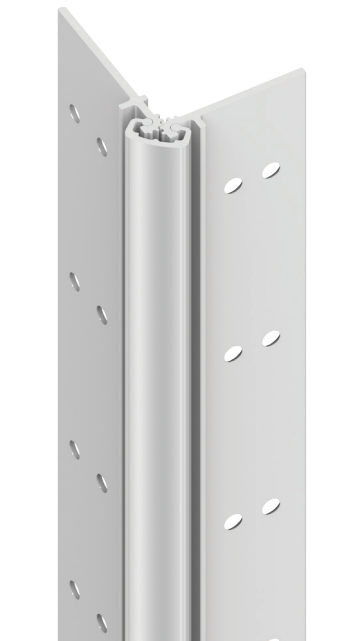
Custom anodizing and painting are available, consult factory

For single door applications:

For pairs of doors see chart and general information.



5/16" Clearance for square edge door
11/32" Clearance for beveled edge door



027XY

Full mortise - wide door leaf

- Wide door leaf for 2" and 2 1/4" doors
- Recommended for gasketing and weatherstripping applications
- Patented center loaded, interlocking bearing design
- Non-handed for custom cut lengths
- Flush mounted, no inset
- 48" Maximum door width
- Beveled or square edge doors
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing

Specifications

Standard length	83", 85", 95", 119"
Standard mounting hardware	12-24 x 3/4" Steel self drilling/self tapping phillips head screw
Certifications	Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs UL10C listed (90 min)

Options

HT	Hospital tip
EPT	Electric power transfer
TWP CON	Electrical through-wire panel with Allegion Connect

Optional mounting hardware

SECHM	Security screws - hollow metal door and frame
SECWDHM	Security screws - 1/2 wood, 1/2 hollow metal
SECWDWD	Security screws - wood door and frame
TEKWD	1/2 Self drill, self tap 1/2 wood
WD	Wood door and frame

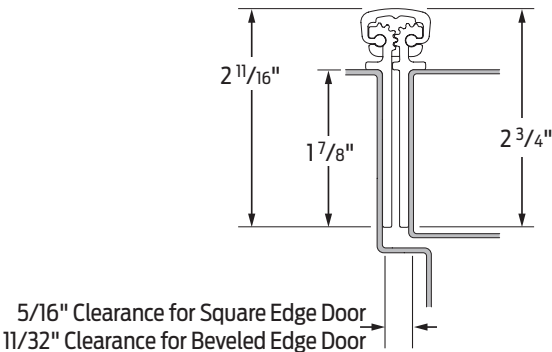
Finishes

BHMA	Description	Substrate	Finish
628	Clear Aluminum Anodized	Aluminum	US28
710	Dark Bronze Anodized	Aluminum	313AN
711	Black Anodized	Aluminum	315AN

Custom anodizing and painting are available, consult factory



For single door applications:
For pairs of doors see chart and general information.



040XY

Full mortise - wide throw

- Wide throw for $1\frac{3}{4}$ " doors
- Patented center loaded, interlocking bearing design
- Non-handed for custom cut lengths
- Flush mounted, no inset
- 48" Maximum door width
- Beveled or square edge doors
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing

Specifications

Standard length	83", 85", 95", 119"
Standard mounting hardware	12-24 x $\frac{3}{4}$ " Steel self drilling/self tapping phillips head screw
Certifications	<ul style="list-style-type: none"> ▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs ▪ UL10C listed (90 min)

Optional mounting hardware

SECHM	Security screws - hollow metal door and frame
SECWDHM	Security screws - $\frac{1}{2}$ wood, $\frac{1}{2}$ hollow metal
SECWDWD	Security screws - wood door and frame
TEKWD	$\frac{1}{2}$ Self drill, self tap $\frac{1}{2}$ wood
WD	Wood door and frame

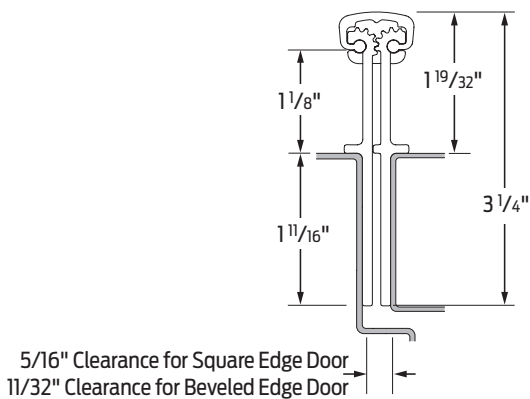
Finishes

BHMA	Description	Substrate	Finish
628	Clear Aluminum Anodized	Aluminum	US28
710	Dark Bronze Anodized	Aluminum	313AN
711	Black Anodized	Aluminum	315AN

Custom anodizing and painting are available, consult factory

For single door applications:

For pairs of doors see chart and general information.



O41XY

Full mortise - swing clear

- Swing clear for 1 3/4" doors
- Installs easily on doors with 90° opening
- Door edge protector
- Patented center loaded, interlocking bearing design
- Non-handed for custom cut lengths
- 1/16" door inset
- 48" Maximum door width
- Beveled or square edge doors
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing

Specifications

Standard length	83", 85", 95", 119"
Standard mounting hardware	12-24 x 3/4" Steel self drilling/self tapping phillips head screw
Certifications	Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs UL10C listed (90 min)

Optional mounting hardware

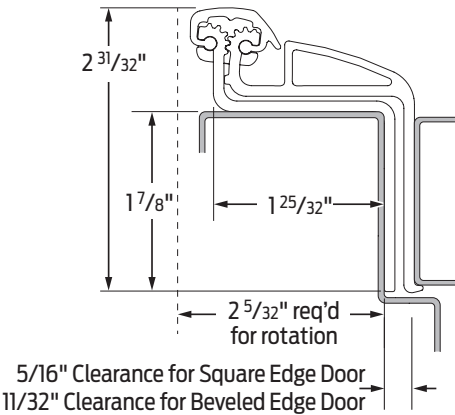
SECHM	Security screws - hollow metal door and frame
SECWDHM	Security screws - 1/2 wood, 1/2 hollow metal
SECWDWD	Security screws - wood door and frame
TEKWD	1/2 Self drill, self tap 1/2 wood
WD	Wood door and frame

Finishes

BHMA	Description	Substrate	Finish
628	Clear Aluminum Anodized	Aluminum	US28
710	Dark Bronze Anodized	Aluminum	313AN
711	Black Anodized	Aluminum	315AN

Custom anodizing and painting are available, consult factory

For single door applications:
For pairs of doors see chart and general information.



Hinges and pivots

Aluminum geared continuous hinges

045XY

Half surface - narrow frame leaf, wide door leaf

- Half surface for retrofit or new construction
- Frame leaf depth $1\frac{9}{16}"$
- Patented center loaded, interlocking bearing design
- XY (lateral and vertical) adjustability while hanging the door
- Pinch point between cover and door is eliminated
- Non-handed for custom cut lengths
- $\frac{9}{32}"$ door inset
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing

Specifications

Standard length	83", 85", 95", 119"
Standard mounting hardware	<ul style="list-style-type: none"> ▪ $\frac{1}{4}" \times 20 \times \frac{3}{4}"$ Phillips head machine screws and pan head through bolts ▪ 12-24 $\times \frac{3}{4}"$ Steel self drilling/self tapping hex head screw ▪ 12-24 $\times \frac{3}{4}"$ Steel self drilling/self tapping phillips head screw
Certifications	<ul style="list-style-type: none"> ▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs ▪ UL10C listed (90 min)

Optional mounting hardware

SECHM	Security screws - hollow metal door and frame
SECWDHM	Security screws - $\frac{1}{2}"$ wood, $\frac{1}{2}"$ hollow metal
SECWDWD	Security screws - wood door and frame
TEKWD	$\frac{1}{2}"$ Self drill, self tap $\frac{1}{2}"$ wood
WD	Wood door and frame

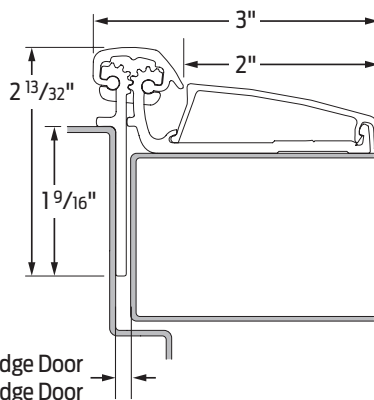
Finishes

BHMA	Description	Substrate	Finish
628	Clear Aluminum Anodized	Aluminum	US28
710	Dark Bronze Anodized	Aluminum	313AN
711	Black Anodized	Aluminum	315AN

Custom anodizing and painting are available, consult factory

For single door applications:

For pairs of doors see chart and general information.



$\frac{5}{32}"$ Clearance for Square Edge Door
 $\frac{3}{16}"$ Clearance for Beveled Edge Door



046XY

Half surface - wide door leaf

- Half surface for retrofit or new construction
- Frame leaf depth 1 7/8"
- Patented center loaded, interlocking bearing design
- XY (lateral and vertical) adjustability while hanging the door
- Pinch point between cover and door is eliminated
- Non-handed for custom cut lengths
- 9/32" door inset
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing



Specifications

Standard length	83", 85", 95", 119"
Standard mounting hardware	<ul style="list-style-type: none"> ▪ 12-24 x 3/4" Steel self drilling / self tapping hex head screw ▪ 12-24 x 3/4" Steel self drilling / self tapping phillips head screw ▪ 1/4-20 x 3/4" Phillips head machine screws and pan head through bolts
Certifications	<ul style="list-style-type: none"> ▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs ▪ UL10C listed (90 min)

Optional mounting hardware

SECHM	Security screws - hollow metal door and frame
SECWDHM	Security screws - 1/2 wood, 1/2 hollow metal
SECWDWD	Security screws - wood door and frame
TEKWD	1/2 Self drill, self tap 1/2 wood
WD	Wood door and frame

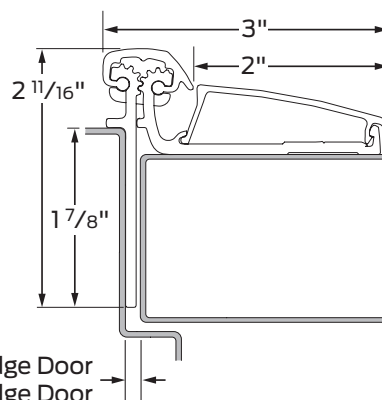
Finishes

BHMA	Description	Substrate	Finish
628	Clear Aluminum Anodized	Aluminum	US28
710	Dark Bronze Anodized	Aluminum	313AN
711	Black Anodized	Aluminum	315AN

Custom anodizing and painting are available, consult factory

For single door applications:

For pairs of doors see chart and general information.



5/32" Clearance for Square Edge Door
 3/16" Clearance for Beveled Edge Door

Hinges and pivots

Aluminum geared continuous hinges

053XY

Half surface - narrow frame leaf, narrow door leaf

- Half surface for retrofit or new construction
- Frame leaf depth $1\frac{9}{16}$ "
- Recommended for gasketing and weatherstripping applications
- Patented center loaded, interlocking bearing design
- XY (lateral and vertical) adjustability while hanging the door
- Pinch point between cover and door is eliminated
- Non-handed for custom cut lengths
- $\frac{1}{8}$ " door inset
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing

Specifications

Standard length	83", 85", 95", 119"
Standard mounting hardware	<ul style="list-style-type: none"> ▪ $\frac{1}{4}$-20 x $\frac{3}{4}$" Phillips head machine screws and pan head through bolts ▪ 12-24 x $\frac{3}{4}$" Steel self drilling/self tapping hex head screw ▪ 12-24 x $\frac{3}{4}$" Steel self drilling/self tapping phillips head screw
Certifications	<ul style="list-style-type: none"> ▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs ▪ UL10C listed (90 min)

Optional mounting hardware

SECHM	Security screws - hollow metal door and frame
SECWDHM	Security screws - $\frac{1}{2}$ wood, $\frac{1}{2}$ hollow metal
SECWDWD	Security screws - wood door and frame
TEKWD	$\frac{1}{2}$ Self drill, self tap $\frac{1}{2}$ wood
WD	Wood door and frame

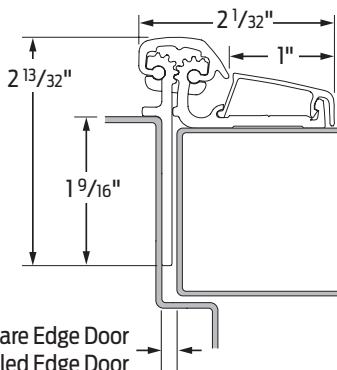
Finishes

BHMA	Description	Substrate	Finish
628	Clear Aluminum Anodized	Aluminum	US28
710	Dark Bronze Anodized	Aluminum	313AN
711	Black Anodized	Aluminum	315AN

Custom anodizing and painting are available, consult factory

For single door applications:

For pairs of doors see chart and general information.



054XY

Half surface - narrow door leaf

- Half surface for retrofit or new construction
- Frame leaf depth 1 7/8"
- Recommended for gasketing and weatherstripping applications
- Patented center loaded, interlocking bearing design
- XY (lateral and vertical) adjustability while hanging the door
- Pinch point between cover and door is eliminated
- Non-handed for custom cut lengths
- 1/8" door inset
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing

Specifications

Standard length	83", 85", 95", 119"
Standard mounting hardware	<ul style="list-style-type: none"> ▪ 12-24 x 3/4" Steel self drilling / self tapping hex head screw ▪ 12-24 x 3/4" Steel self drilling / self tapping phillips head screw ▪ 1/4-20 x 3/4" Phillips head machine screws and pan head through bolts
Certifications	<ul style="list-style-type: none"> ▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs ▪ UL10C listed (90 min)

Optional mounting hardware

SECHM	Security screws - hollow metal door and frame
SECWDHM	Security screws - 1/2 wood, 1/2 hollow metal
SECWDWD	Security screws - wood door and frame
TEKWD	1/2 Self drill, self tap 1/2 wood
WD	Wood door and frame

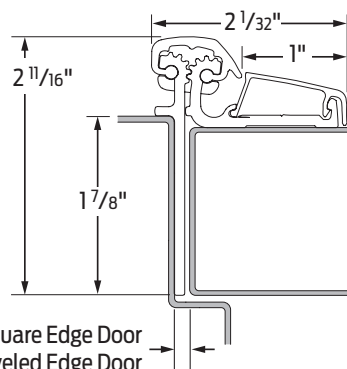
Finishes

BHMA	Description	Substrate	Finish
628	Clear Aluminum Anodized	Aluminum	US28
710	Dark Bronze Anodized	Aluminum	313AN
711	Black Anodized	Aluminum	315AN

Custom anodizing and painting are available, consult factory

For single door applications:

For pairs of doors see chart and general information.



Hinges and pivots

Aluminum geared continuous hinges

112HD

Full mortise - narrow frame and door leaf

- For 1 ³/₄" doors
- Spread bearing design
- Non-handed for custom cut lengths
- Flush mounted, no inset
- 48" Maximum door width
- Beveled or square edge doors
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing

Specifications

Standard length	83", 85", 95", 120"
Standard mounting hardware	12-24 x ³ / ₄ " Steel self drilling/self tapping phillips head screw
Certifications	<ul style="list-style-type: none"> ▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs ▪ UL10C listed (90 min)

Options

EPT	Electric power transfer
-----	-------------------------

Optional mounting hardware

SECHM	Security screws - hollow metal door and frame
SECWDHM	Security screws - 1/2 wood, 1/2 hollow metal
SECWDWD	Security screws - wood door and frame
TEKWD	1/2 Self drill, self tap 1/2 wood
TF	Thread forming screws
WD	Wood door and frame

Finishes

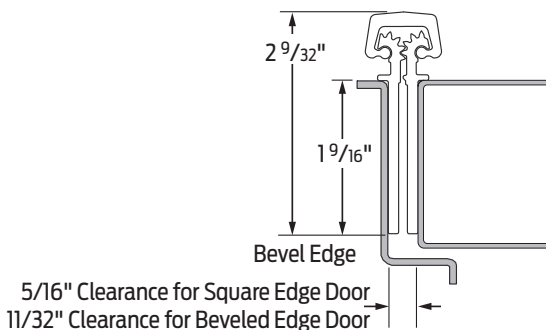
BHMA	Description	Substrate	Finish
628	Clear Aluminum Anodized	Aluminum	US28
710	Dark Bronze Anodized	Aluminum	313AN

Custom anodizing and painting are available, consult factory



For single door applications:

For pairs of doors see chart and general information.



112XY

Full mortise - narrow frame and door leaf

- For 1 3/4" doors
- Patented center loaded, interlocking bearing design
- Non-handed for custom cut lengths
- Flush mounted, no inset
- 48" Maximum door width
- Beveled or square edge doors
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing

Specifications

Standard length	83", 85", 95", 119"
Standard mounting hardware	12-24 x 3/4" Steel self drilling/self tapping phillips head screw
Certifications	<ul style="list-style-type: none">▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs▪ UL10C listed (90 min)

Options

EPT	Electric power transfer
HT	Hospital tip
TWP CON	Electrical through-wire panel with Allegion Connect

Optional mounting hardware

SECHM	Security screws - hollow metal door and frame
SECWDHM	Security screws - 1/2 wood, 1/2 hollow metal
SECWDWD	Security screws - wood door and frame
TEKWD	1/2 Self drill, self tap 1/2 wood
WD	Wood door and frame

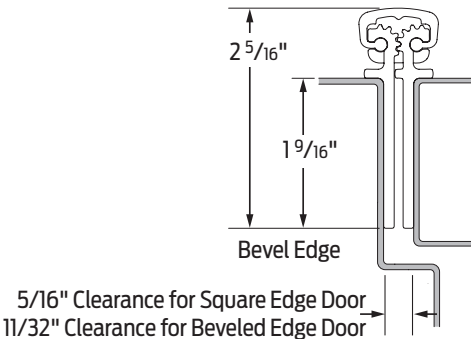
Finishes

BHMA	Description	Substrate	Finish
628	Clear Aluminum Anodized	Aluminum	US28
710	Dark Bronze Anodized	Aluminum	313AN

Custom anodizing and painting are available, consult factory



For single door applications:
For pairs of doors see chart and general information.



Hinges and pivots

Aluminum geared continuous hinges

114XY

Full mortise - narrow frame leaf, door edge protector

- For 1 ³/₄" doors
- Door edge protector
- Recommended for gasketing and weatherstripping applications
- Patented center loaded, interlocking bearing design
- Non-handed for custom cut lengths
- ¹/₁₆" door inset
- 48" Maximum door width
- Beveled or square edge doors
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing

Specifications

Standard length	83", 85", 95", 119"
Standard mounting hardware	12-24 x ³ / ₄ " Steel self drilling/self tapping phillips head screw
Certifications	<ul style="list-style-type: none"> ▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs ▪ UL10C listed (90 min)

Options

EPT	Electric power transfer
HT	Hospital tip
TWP CON	Electrical through-wire panel with Allegion Connect

Optional mounting hardware

SECHM	Security screws - hollow metal door and frame
SECWDHM	Security screws - ¹ / ₂ wood, ¹ / ₂ hollow metal
SECWDWD	Security screws - wood door and frame
TEKWD	¹ / ₂ Self drill, self tap ¹ / ₂ wood
WD	Wood door and frame

Finishes

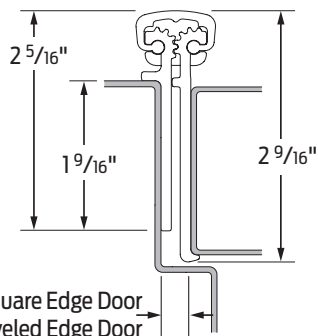
BHMA	Description	Substrate	Finish
628	Clear Aluminum Anodized	Aluminum	US28
710	Dark Bronze Anodized	Aluminum	313AN

Custom anodizing and painting are available, consult factory



For single door applications:

For pairs of doors see chart and general information.



5/16" Clearance for Square Edge Door
11/32" Clearance for Beveled Edge Door

Table of contents

Hinges and pivots

157XY

Pulls, push bars and plates

Hinges and pivots

Full surface

- A patented easy-to-install, heavy duty, full surface continuous hinge
- Narrow frame
- Patented center loaded, interlocking bearing design
- XY (lateral and vertical) adjustability while hanging the door
- Articulating cover design eliminates pinch point between center channel cover and door and frame leaf covers
- Non-handed for custom cut lengths
- 1/16" door inset
- 48" Maximum door width
- Beveled or square edge doors
- For doors weighing up to 550 lbs

Flush bolts, strikes and coordinators

Hinges and pivots

Specifications

Standard length	83", 95", 119"
Standard mounting hardware	<ul style="list-style-type: none">▪ 12-24 x 3/4" Steel self drilling / self tapping hex head screw▪ 1/4-20 x 3/4" Phillips head machine screws and pan head through bolts
Certifications	<ul style="list-style-type: none">▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs▪ UL10C listed (90 min)

Flush bolts, strikes and coordinators

Hinges and pivots

Optional mounting hardware

TEKWD	1/2 Self drill, self tap 1/2 wood
WD	Wood door and frame

Latches, catches and bolts

Hinges and pivots

Finishes

BHMA	Description	Substrate	Finish
628	Clear Aluminum Anodized	Aluminum	US28
710	Dark Bronze Anodized	Aluminum	313AN
711	Black Anodized	Aluminum	315AN

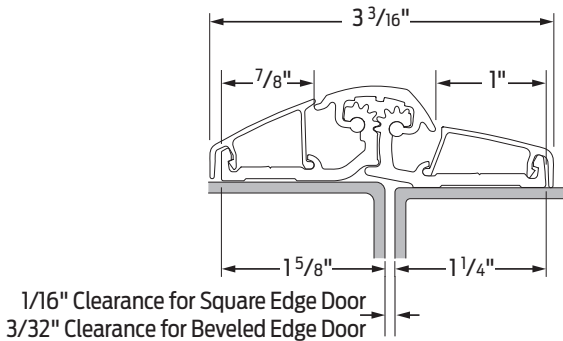
Custom anodizing and painting are available, consult factory

Door stops, holders and silencers

Hinges and pivots

For single door applications:

For pairs of doors see chart and general information.



Hinges and pivots

Aluminum geared continuous hinges

210XY

Full surface - swing clear

- Patented center loaded, interlocking bearing design
- XY (lateral and vertical) adjustability while hanging the door
- Articulating cover design eliminates pinch point between center channel cover and door and frame leaf covers
- Non-handed for custom cut lengths
- $\frac{1}{32}$ " door inset
- 48" Maximum door width
- Beveled or square edge doors
- For doors weighing up to 550 pounds

Specifications

Standard length	83", 85", 95", 119"
Standard mounting hardware	<ul style="list-style-type: none"> ▪ 12-24 x $\frac{3}{4}$" Steel self drilling / self tapping hex head screw ▪ 12-24 x $\frac{3}{4}$" Steel self drilling / self tapping phillips head screw ▪ $\frac{1}{4}$-20 x $\frac{3}{4}$" Phillips head machine screws and pan head through bolts
Certifications	<ul style="list-style-type: none"> ▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs ▪ UL10C listed (90 min)

Optional mounting hardware

SECHM	Security screws - hollow metal door and frame
SECWDHM	Security screws - $\frac{1}{2}$ wood, $\frac{1}{2}$ hollow metal
SECWDWD	Security screws - wood door and frame
TEKWD	$\frac{1}{2}$ Self drill, self tap $\frac{1}{2}$ wood
WD	Wood door and frame

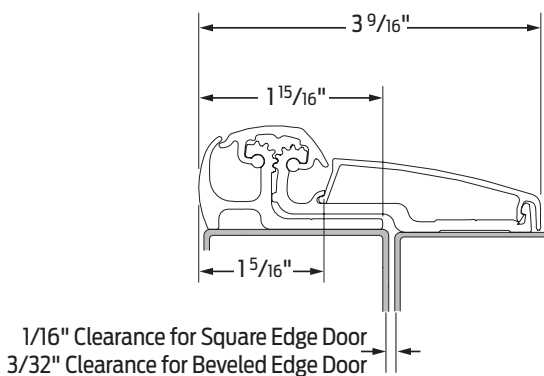
Finishes

BHMA	Description	Substrate	Finish
628	Clear Aluminum Anodized	Aluminum	US28
710	Dark Bronze Anodized	Aluminum	313AN
711	Black Anodized	Aluminum	315AN

Custom anodizing and painting are available, consult factory

For single door applications:

For pairs of doors see chart and general information.



224HD

Full mortise - door edge protector

- For 1 3/4" doors
- Door edge protector
- Spread bearing design
- Non-handed for custom cut lengths
- 1/16" Door Inset
- 48" Maximum door width
- Beveled or square edge doors
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing

Specifications

Standard length	83", 85", 95", 120"
Standard mounting hardware	12-24 x 3/4" Steel self drilling/self tapping phillips head screw
Certifications	<ul style="list-style-type: none"> ▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs ▪ UL10C listed (90 min)

Options

EPT	Electric power transfer
-----	-------------------------

Optional mounting hardware

SECHM	Security screws - hollow metal door and frame
SECWDHM	Security screws - 1/2 wood, 1/2 hollow metal
SECWDWD	Security screws - wood door and frame
TEKWD	1/2 Self drill, self tap 1/2 wood
TF	Thread forming screws
WD	Wood door and frame

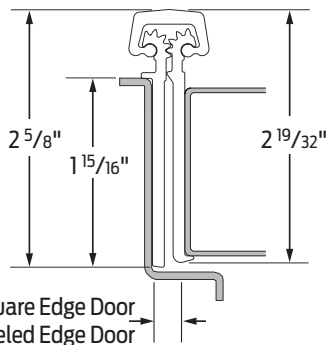
Finishes

BHMA	Description	Substrate	Finish
628	Clear Aluminum Anodized	Aluminum	US28
710	Dark Bronze Anodized	Aluminum	313AN

Custom anodizing and painting are available, consult factory

For single door applications:

For pairs of doors see chart and general information.



Hinges and pivots

Aluminum geared continuous hinges

224XY

Full mortise - door edge protector

- For 1 ³/₄" doors
- Door edge protector
- Patented center loaded, interlocking bearing design
- Non-handed for custom cut lengths
- ¹/₁₆" door inset
- 48" Maximum door width
- Beveled or square edge doors
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing

Specifications

Standard length	83", 85", 95", 119"
Standard mounting hardware	12-24 x ³ / ₄ " Steel self drilling/self tapping phillips head screw
Certifications	<ul style="list-style-type: none"> ▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs ▪ UL10C listed (90 min)

Options

EPT	Electric power transfer
HT	Hospital tip
TWP CON	Electrical through-wire panel with Allegion Connect

Optional mounting hardware

SECHM	Security screws - hollow metal door and frame
SECWDHM	Security screws - ¹ / ₂ wood, ¹ / ₂ hollow metal
SECWDWD	Security screws - wood door and frame
TEKWD	¹ / ₂ Self drill, self tap ¹ / ₂ wood
WD	Wood door and frame

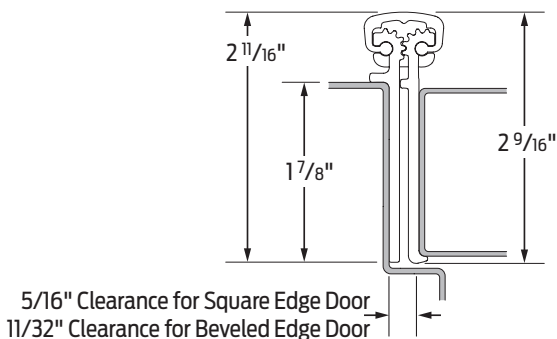
Finishes

BHMA	Description	Substrate	Finish
628	Clear Aluminum Anodized	Aluminum	US28
710	Dark Bronze Anodized	Aluminum	313AN
711	Black Anodized	Aluminum	315AN

Custom anodizing and painting are available, consult factory

For single door applications:

For pairs of doors see chart and general information.



Pin and barrel continuous hinges

Pin and barrel continuous hinges share many of the same characteristics of a traditional hinge. Both have a center pin and rolled knuckles. However, a continuous Pin and Barrel hinge stretches along the entire length of the frame. Ives offers both stainless steel and primed steel to best match your specific application. Ives also offers the CS series pin and barrel hinges which provides a patented solution that brings the clean aesthetic design of aluminum geared continuous hinge to the ruggedness and safety afforded by stainless pin and barrel continuous hinges.



Hinges and pivots

Pin and barrel continuous hinges

General information

Certifications

- 600 and 700 Series meets ANSI/BHMA 156.26, Grade 1
- CS Series models certified ANSI/BHMA 156.26, Grade 1, 150lb door test

UL Listed

- All Ives pin and barrel hinges are certified UL10C listed (3 hr)

Material

- 600 Series 1012 Series, 14 Gauge cold-rolled steel
- 700, 702, 705, 711, 715 Series 304 Series, 14 Gauge stainless steel
- CS Series 304 Series, 14 Gauge stainless steel body and 6063-T6 aluminum cover

Barrel type

Standard series

The standard series pin and barrel continuous hinges features twin self lubricated nylon bearings with a stainless steel pin.

CS Series

The CS Series is a heavy duty, easy-to-install, stainless steel pin and barrel continuous hinge that can be used for fire applications and is highly suitable for after-market or new construction situations. The patented covers hide the unsightly pin and barrel of the standard pin and barrel hinges, giving the CS Series continuous hinge a stylish appearance to accompany heavy duty performance.

The CS Series includes medical grade, patented nylon winged bearings. They also include the XY adjustability feature which allows for better door alignment during installation.

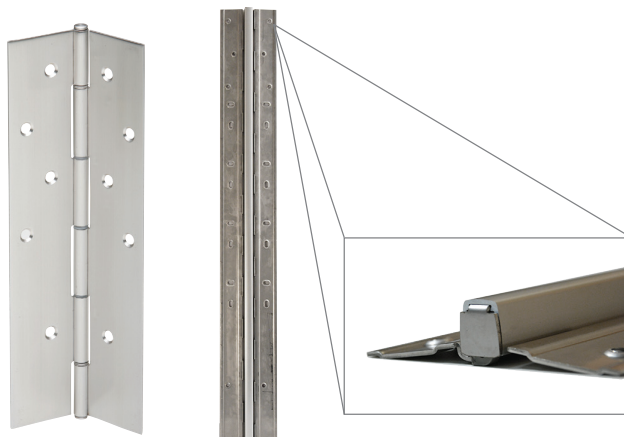
Standard lengths

- 83", 85", 95", 120"
 - Custom lengths available up to 120", consult factory
 - Hanging required for 702, 705, 711, 715

Finishes

BHMA	Description	Substrate	Finish
600 Series			
600	Grey Primer Paint	Steel	USP
700, 702, 705, 711, 715 Series			
630	Satin Stainless Steel	Stainless steel	US32D
700CS, 705CS, 711CS Series			
441	Satin Stainless Anodized	Aluminum	US32DAN
600	Grey Primer Paint	Aluminum	USP
628	Clear Aluminum Anodized	Aluminum	US28
688	Satin Brass Anodized	Aluminum	US4AN
709	Satin Bronze Anodized	Aluminum	US10AN
710	Dark Bronze Anodized	Aluminum	313AN
711	Black Anodized	Aluminum	315AN
712	Bright Chrome Anodized	Aluminum	US26AN
713	Satin Chrome Anodized	Aluminum	US26DAN

Custom finishes available, consult factory.



Field modifications

Ives pin and barrel continuous hinges can be cut to length during installation.

Standard models

The unique mounting pattern allows to cut up to 6" from bottom while still having double row fasteners. If cut more than 13.5", other modifications may be necessary.

CS models

The unique mounting pattern of the XY hinge allows it to be cut down to 69" while still having double row fasteners regardless of the original length of the hinge. Example: A 119" hinge can have 25" removed from each end to make it a 69" long hinge.

Door weight

For doors up to 200 lbs, no door reinforcement is required. For doors between 200 and 300 lbs, a 16 gauge channel in the frame is required. For doors up to 600 lb (max door width of 4'0"), rivet nuts are required in the frame in addition to the frame reinforcement.

Hospital tips (HT) for standard models

The standard hospital tip option includes an angle machined channel cover and bearing to provide a flush angled surface.

Must be ordered in exact lengths. Available on 600 and 700 Series hinges.

Lifetime warranty

Ives continuous hinges carry a limited lifetime warranty with exception of electrified continuous hinges, which carry a 12 month warranty from time of shipment.

Learn more at us.allegion.com/warranty.

General information

Electrification options*

Electric power transfer (EPT) available on 600, 700, 705, 715, 700CS, 715CS models

Electric power transfer provides the most secure and best solution for transferring power from the door frame to the edge of a swinging door. Ives Pin and Barrel Hinges provide standard cut outs to fit Von Duprin EPT- 2, EPT-10 and PNT-1 devices. Consult factory for other electrical cut out options. Door handing is required.

Electrical through-wire (TW8) for standard models (600, 700, 705, 715) only

Recommended for low frequency usage. Provides electric power transfer from the frame to the door cable in order to supply power to an electrified mortise or cylidrical locks, exit devices with electric latch retraction, and/or electric strikes (pairs of doors). Through-wire is rated 50 volts AC/ DC at 3.5 amp continuous and 16 amp pulse. Maximum pulse 400 milliseconds. Ives through-wire hinges are fully compatible with 4 wire and 8 wire installations. Available CON option comes with the Allegion Connect 8-pin Connector which makes it easy to connect to other electrical consumption devices. A monitor (MON) switch is available as an engineered special. Consult factory for availability.

Electrical through-wire panel with Allegion Connect (TWP) (700CS models only)

The through-wire panel solution works in the CS mortise hinge to maintain the clean aesthetic design of aluminum geared continuous hinges. Made with the same medical grade bearings of Ives other pin and barrel hinges, the CS Series brings through-wire panel innovation to your continuous hinge application while keeping its great looks.

The CS Series through-wire panel is a heavy duty, easy-to-install, stainless steel panel. Tested to 2.5 million cycles, the CS Series panel can quickly slip in and out of the hinge for maintenance and replacement.

Unlike all of the other manufacturer solutions the CS Series through-wire panel maintains a one piece appearance on the cover side of the hinge. It installs with the same 5/16" clearance as aluminum geared hinges and works in all of the decorative cover finishes.

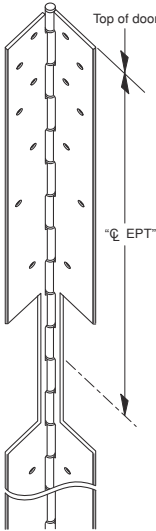
Provides electric power transfer from the frame to the door in order to supply power to an electrified mortise or cylindrical locks, exit devices with electric latch retraction, and/or electric strikes (pairs of doors). Through-wire panel is rated 50 volts AC/DC at 3.5 amp continuous and 16 amp pulse. Maximum pulse 400 milliseconds. Ives through-wire hinges are fully compatible with 4 wire and 8 wire installations. Available CON option comes with the Allegion Connect 8-pin Connector which makes it easy to connect to other electrical consumption devices.

*Only available for full mortise hinges.

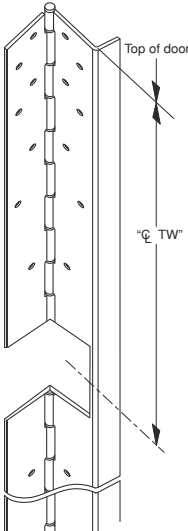
Electrical cutouts

Ives pin and barrel continuous hinges are available with factory modified cutouts to accommodate most electrical frame to door requirements. Special templates are required.

EPT 600/700/700CS



TW8 600/700s



Note: See ordering guide in price book for proper placement.

When ordering indicate the following:

- 1. Opening size.
- 2. Handing. LH, RH, LHR or RHR.
- 3. Manufacturer and model number of the electrical product being used. Example; Von Duprin ETPT2

Because clearances may vary between door and frame manufacturer, and locations can be influenced by the door hardware it is always recommend contacting Ives Customer Technical for specific template information.

For your general information following are standard locations for Von Duprin EPT2 or EPT10, and TW (through-wire).

In accordance with industry standards, all cutouts are made from top edge of door to center line of cut-out.

Standard length	EPT	TW	TWP
83"	30"	43 19/32"	43 13/16"
85"	32"	45 17/32"	44 29/32"
95"	42"	55 17/32"	55 9/32"
120"	67"	80 17/32"	79 1/2"

Hinges and pivots

Pin and barrel continuous hinges

Mounting hardware

Standard Hardware

600/602/611/700/702/705/711/715	10 x 1/2" Stainless self drilling/self tapping phillips head screw
	10 x 1" Stainless phillips head wood screw (1/2 pkg for door or frame)
705	10-32 x 3/4" Stainless screw and Adjusta-stud fastener
700CS/711CS/715CS	12-24 x 3/4" Stainless self drilling/self tapping phillips head screw

Security screws - hollow metal door and frame (SECHM)

600/700/602/702/705/611/711/715	10 X 1/2" Stainless steel Torx security screw
700CS/711CS/715CS	12-24 x 1/2" Stainless security head machine screw

Security screws - 1/2 wood, 1/2 hollow metal (SECWDHM)

600/700/602/702/705/611/711/715	10 X 1/2" Stainless steel Torx security screw
	10 x 1" Stainless Torx security wood screw

Security screws - 1/2 wood, 1/2 hollow metal (SECWDWD)

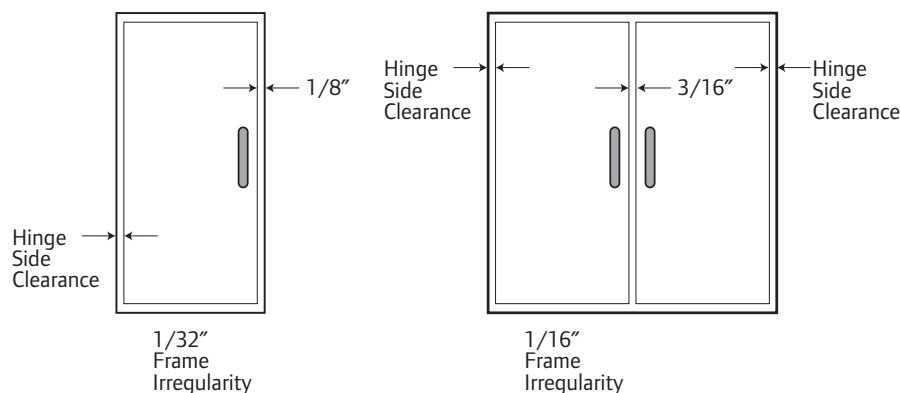
600/700/602/702/705/611/711/715	10 x 1" Stainless Torx security wood screw
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Wood door and frame (WD)

600/602/611/700/702/705/711/715	10 x 1" Stainless phillips head wood screw
700CS/711CS/715CS	#12 x 1 1/4" Stainless sheet metal screw

Clearance requirements

Consult your local authority having jurisdiction for specific fire codes relating to fire rated doors.
The table below is only recommended for non fire related doors.



Single door

Model	Hinge-side clearance	Lock-side clearance	Frame irregularity	Beveled door clearance	Door under-sizing	
					Square edged	Beveled edged
600	1/4"	1/8"	1/32"	1/32"	13/32"	7/16"
602	1/8"	1/8"	1/32"	1/32"	9/32"	5/16"
700	1/4"	1/8"	1/32"	1/32"	13/32"	7/16"
700CS	5/16"	1/8"	1/32"	1/32"	15/32"	1/2"
702	1/8"	1/8"	1/32"	1/32"	9/32"	5/16"
705	3/8"	1/8"	1/32"	1/32"	17/32"	9/16"
705*	1/2"	1/8"	1/32"	1/32"	21/32"	11/16"
711	7/32"	1/8"	1/32"	1/32"	3/8"	13/32"
711CS	3/8"	1/8"	1/32"	1/32"	17/32"	9/16"
715	1/4"	1/8"	1/32"	1/32"	13/32"	7/16"
715CS	5/16"	1/8"	1/32"	1/32"	15/32"	1/2"

* Use the Adjusta-Studs with 705.

Pair of doors

Model	Hinge-side clearance	Lock-side clearance	Frame irregularity	Beveled door clearance	Door under-sizing			
					Square edge total	Square edge each door	Beveled edge total	Beveled edge each door
600	1/4"	3/16"	1/16"	1/16"	3/4"	3/8"	13/16"	13/32"
602	1/8"	3/16"	1/16"	1/16"	1/2"	1/4"	9/16"	9/32"
700	1/4"	3/16"	1/16"	1/16"	3/4"	3/8"	13/16"	13/32"
700CS	5/16"	3/16"	1/16"	1/16"	7/8"	7/16"	15/16"	15/32"
702	1/8"	3/16"	1/16"	1/16"	1/2"	1/4"	9/16"	9/32"
705	3/8"	3/16"	1/16"	1/16"	1"	1/2"	1 1/16"	17/32"
705*	1/2"	3/16"	1/16"	1/16"	1 1/4"	5/8"	1 5/16"	21/32"
711	7/32"	3/16"	1/16"	1/16"	11/16"	11/32"	3/4"	3/8"
711CS	3/8"	3/16"	1/16"	1/16"	1"	1/2"	1 1/16"	17/32"
715	1/4"	3/16"	1/16"	1/16"	3/4"	3/8"	13/16"	13/32"
715CS	5/16"	3/16"	1/16"	1/16"	7/8"	7/16"	15/16"	15/32"

* Use the Adjusta-Studs with 705.

Hinges and pivots

Pin and barrel continuous hinges

How to order

Model		Option 1		Finish		Length		Option 2	
1		2		3		4		5	
700	-	HT	-	US32D	-	83	-	TW8 CON	

Detail

1 Model

700/700CS	Stainless steel full mortise
702	Stainless steel full surface - center pivot
705	Stainless steel full mortise - full wrap
711/711CS	Stainless steel full surface - swing clear
715/715CS	Stainless steel full mortise - half wrap
600	Steel full mortise
602	Steel full surface - center pivot
611	Steel full surface - swing clear

2 Option 1

HT	Hospital tip (600 and 700 models only)
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3 Finish

BHMA	Description	Substrate	Finish	Availability
630	Satin Stainless Steel	Stainless steel	US32D	700 Series only
441	Satin Stainless Anodized	Stainless steel/aluminum	US32DAN	CS Series only
600	Grey Primer Paint	Stainless steel/aluminum	USP	CS Series only
688	Satin Brass Anodized	Stainless steel/aluminum	US4AN	CS Series only
709	Satin Bronze Anodized	Stainless steel/aluminum	US10AN	CS Series only
712	Bright Chrome Anodized	Stainless steel/aluminum	US26AN	CS Series only
713	Satin Chrome Anodized	Stainless steel/aluminum	US26DAN	CS Series only
628	Clear Aluminum Anodized	Stainless steel/aluminum	US28	CS Series only
710	Dark Bronze Anodized	Stainless steel/aluminum	313AN	CS Series only
711	Black Anodized	Stainless steel/aluminum	315AN	CS Series only
600	Grey Primer Paint	Steel	USP	600 Series only

Custom finishes available, consult factory.

4 Length

83"
85"
95"
120"

Custom lengths available up to 120", consult factory. When specifying length, handling required.

5 Option 2

CON	Allegation Connect (600, 700, 705, 715, 700CS models only)
EPT	Electric power transfer prep (600, 700, 705, 715, 700CS, 715CS models only) Handling (LH and RH) required for 026, 027, 114, and 224 models
SECHM	Security fasteners - Torx
SECWDHM	Security fasteners - Torx (half wood, half hollow metal)
SECWDWD	Security fasteners - Torx (wood door and frame)
TW8	Electric through-wire (600, 700, 705, 715 models only)
TWP	Through-wire panel (only available on 700CS)
WD	Wood door fasteners

600 / 700

Full mortise pin and barrel continuous hinge (steel and stainless steel)

- 1/4" diameter pin with nylon self-lubricating, medical grade split bearing
- For doors weighing up to 300 pounds without reinforcing, 600 pounds with reinforcing
- 1/8" Inset recommended for 1 3/4" doors
- 48" Maximum door width
- Non-handed for custom cut lengths
- Bevel or square edge door

Specifications

Standard length	83", 85", 95", 120"
Material substrate	<ul style="list-style-type: none"> ▪ 600 - 1012 Cold-rolled steel ▪ 700 - 14 Gauge type 304 stainless steel
Standard mounting hardware	<ul style="list-style-type: none"> ▪ #10 X 1/2" Self drilling, self tapping screws ▪ #10 X 1" Wood screws
Certifications	<ul style="list-style-type: none"> ▪ Meets ANSI/BHMA 156.26 ▪ UL10C listed (3 hour)

Options

CON	Allegion Connect
EPT	Electric power transfer
HT	Hospital tip
TW8	Electrical through-wire

Optional mounting hardware

SECHM	Security screws - hollow metal door and frame
SECWDHM	Security screws - 1/2 wood, 1/2 hollow metal
SECWDWD	Security screws - wood door and frame
WD	Wood door and frame

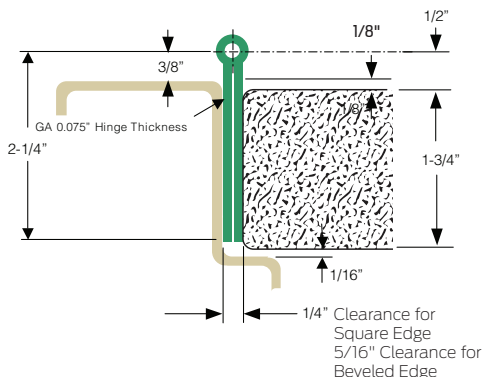
Finishes

BHMA	Description	Substrate	Finish
600	Grey Primer Paint	Steel	USP
630	Satin Stainless Steel	Stainless steel	US32D

Custom paint available on 600 Series, consult factory

For single door applications:

For pairs of doors see chart and general information.



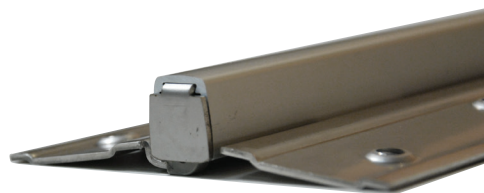
Hinges and pivots

Pin and barrel continuous hinges

700CS

Full mortise pin and barrel continuous hinge with decorative cover

- Patented cover protects hinge knuckle and creates a cleaner and neater appearance
- XY adjustability feature allows for better door alignment during installation
- Patented, medical grade, nylon winged bearings
- For doors weighing up to 300 pounds without reinforcing, 600 pounds with reinforcing
- 1/16" door inset
- 48" Maximum door width
- Non-handed
- Bevel or square edge door



Specifications

Standard length	83", 85", 95", 120"
Material substrate	Gauge type 304 stainless steel
Standard mounting hardware	12-24 X 3/4" Self drilling, self tapping screws
Certifications	<ul style="list-style-type: none"> ▪ Meets ANSI/BHMA 156.26 ▪ UL10C listed (3 hour)

Options

CON	Allegion Connect
EPT	Electric power transfer
TW8	Electrical through-wire

Optional mounting hardware

SECHM	Security screws - hollow metal door and frame
WD	Wood door and frame

Finishes

BHMA	Description	Substrate	Finish
441	Satin Stainless Anodized	Aluminum/steel	US32DAN
600	Grey Primer Paint	Aluminum/steel	USP
628	Clear Aluminum Anodized	Aluminum/steel	US28
688	Satin Brass Anodized	Aluminum/steel	US4AN
709	Satin Bronze Anodized	Aluminum/steel	US10AN
710	Dark Bronze Anodized	Aluminum/steel	313AN
711	Black Anodized	Aluminum/steel	315AN
712	Bright Chrome Anodized	Aluminum/steel	US26AN
713	Satin Chrome Anodized	Aluminum/steel	US26DAN

Custom paint available, consult factory. Standard custom paint is on cover only, specify if paint on whole hinge is needed.

For single door applications:

For pairs of doors see chart and general information.

602 / 702

Full surface pin and barrel continuous hinge (steel and stainless steel)

- 1/4" diameter pin with nylon self-lubricating, medical grade split bearing
- For doors weighing up to 300 pounds without reinforcing, 600 pounds with reinforcing
- Flush mounted, no inset
- 48" Maximum door width
- Non-handed for custom cut lengths
- Bevel or square edge door

Specifications

Standard length	83", 85", 95", 120"
Material substrate	<ul style="list-style-type: none"> 602 - 1012 Cold-rolled steel 702 - 14 Gauge type 304 stainless steel
Standard mounting hardware	<ul style="list-style-type: none"> #10 X 1/2" Self drilling, self tapping screws #10 X 1" Wood screws Cover clips
Certifications	<ul style="list-style-type: none"> Meets ANSI/BHMA 156.26 UL10C listed (3 hour)

Options

HT	Hospital tip
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Optional mounting hardware

SECHM	Security screws - hollow metal door and frame
SECWDHM	Security screws - 1/2 wood, 1/2 hollow metal
SECWDWD	Security screws - wood door and frame
WD	Wood door and frame

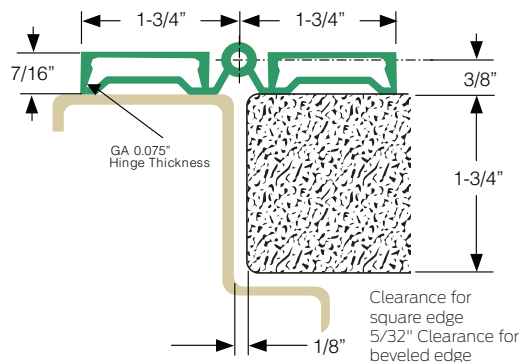
Finishes

BHMA	Description	Substrate	Finish
600	Grey Primer Paint	Steel	USP
630	Satin Stainless Steel	Stainless steel	US32D

Custom paint available on 600 Series, consult factory

For single door applications:

For pairs of doors see chart and general information.



Hinges and pivots

Pin and barrel continuous hinges

705

Full mortise, full wrap pin and barrel continuous hinge (stainless steel)

- Full wrap edge guard
- Adjustable for undersized and out of square doors
- 1/4" diameter pin with nylon self-lubricating, medical grade split bearing
- For doors weighing up to 300 pounds without reinforcing, 600 pounds with reinforcing
- Flush mounted, no inset
- 48" Maximum door width
- Non-handed, handing required for custom cut lengths
- Bevel or square edge door

Specifications

Standard length	83", 85", 95", 120"
Material substrate	14 Gauge type 304 stainless steel
Standard mounting hardware	<ul style="list-style-type: none"> ▪ #10-32 x 3/4" Stainless screw and Adjusta-Stud* fastener ▪ #10 X 1/2" Self drilling, self tapping screws ▪ #10 X 1" Wood screws
Certifications	<ul style="list-style-type: none"> ▪ Meets ANSI/BHMA 156.26 ▪ UL10C listed (3 hour)

Options

CON	Allegion Connect
EPT	Electric power transfer
HT	Hospital tip
TW8	Electrical through-wire

Optional mounting hardware

SECHM	Security screws - hollow metal door and frame
SECWDHM	Security screws - 1/2 wood, 1/2 hollow metal
SECWDWD	Security screws - wood door and frame
WD	Wood door and frame

Finishes

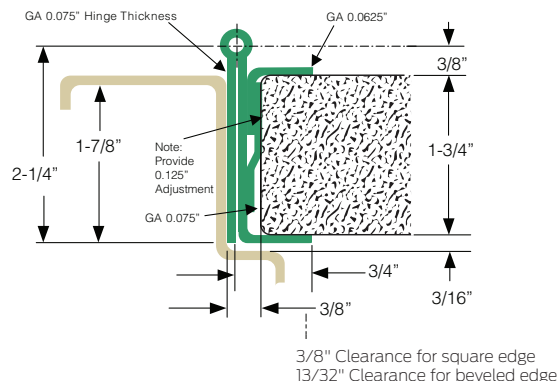
BHMA	Description	Substrate	Finish
630	Satin Stainless Steel	Stainless steel	US32D

Custom paint available, consult factory



For single door applications:

For pairs of doors see chart and general information.



* Adjusta-Stud allows up to 3/8" width adjustment which ensures proper alignment and easy installation. Adjusta-Stud also makes it possible for future adjustments of the door on the frame through repositioning. If using Adjusta-Stud, 14 gauge reinforcements on frame and door required.

611 / 711

Swing clear pin and barrel continuous hinge (steel and stainless steel)

- Edge guard
- May be difficult to install on inside walls
- 1/4" diameter pin with nylon self-lubricating, medical grade split bearing
- For doors weighing up to 300 pounds without reinforcing, 600 pounds with reinforcing
- 48" Maximum door width
- Non-handed, handing required for custom cut lengths
- Square edge door

Specifications

Standard length	83", 85", 95", 120"
Material substrate	<ul style="list-style-type: none"> ▪ 611 - 1012 Cold-rolled steel ▪ 711 - 14 Gauge type 304 stainless steel
Standard mounting hardware	<ul style="list-style-type: none"> ▪ #10 X 1/2" Self drilling, self tapping screws ▪ #10 X 1" Wood screws
Certifications	<ul style="list-style-type: none"> ▪ Meets ANSI/BHMA 156.26 ▪ UL10C listed (3 hour)

Options

HT	Hospital tip
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Optional mounting hardware

SECHM	Security screws - hollow metal door and frame
SECWDHM	Security screws - 1/2 wood, 1/2 hollow metal
SECWDWD	Security screws - wood door and frame
WD	Wood door and frame

Finishes

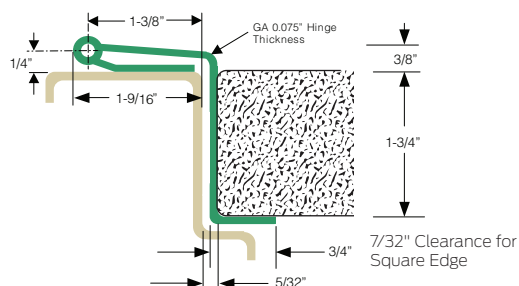
BHMA	Description	Substrate	Finish
600	Grey Primer Paint	Steel	USP
630	Satin Stainless Steel	Stainless steel	US32D

Custom paint available on 600 Series, consult factory



For single door applications:

For pairs of doors see chart and general information.



Hinges and pivots

Pin and barrel continuous hinges

711CS

Swing clear pin and barrel continuous hinge with decorative cover

- Patented cover protects hinge knuckle and creates a cleaner and neater appearance
- XY adjustability feature allows for better door alignment during installation
- Edge guard
- Easy to install mounting location on mortise end of frame
- 2 ¹¹/₁₆" minimum frame face requirement
- Patented, medical grade, nylon winged bearings
- For doors weighing up to 300 pounds without reinforcing, 600 pounds with reinforcing
- ¹/₁₆" door inset
- 48" Maximum door width
- Non-handed, handing required for custom cut lengths
- Square edge door

Specifications

Standard length	83", 85", 95", 120"
Material substrate	Gauge type 304 stainless steel
Standard mounting hardware	12-24 X ³ / ₄ " Self drilling, self tapping screws
Certifications	<ul style="list-style-type: none"> ▪ Meets ANSI/BHMA 156.26 ▪ UL10C listed (3 hour)

Optional mounting hardware

SECHM	Security screws - hollow metal door and frame
WD	Wood door and frame

Finishes

BHMA	Description	Substrate	Finish
441	Satin Stainless Anodized	Aluminum/steel	US32DAN
600	Grey Primer Paint	Aluminum/steel	USP
628	Clear Aluminum Anodized	Aluminum/steel	US28
688	Satin Brass Anodized	Aluminum/steel	US4AN
709	Satin Bronze Anodized	Aluminum/steel	US10AN
710	Dark Bronze Anodized	Aluminum/steel	313AN
711	Black Anodized	Aluminum/steel	315AN
712	Bright Chrome Anodized	Aluminum/steel	US26AN
713	Satin Chrome Anodized	Aluminum/steel	US26DAN

Custom paint available, consult factory. Standard custom paint is on cover only, specify if paint on whole hinge is needed.

For single door applications:

For pairs of doors see chart and general information.



715

Full mortise, half wrap pin and barrel continuous hinge (stainless steel)

- Half wrap edge guard
- 1/4" diameter pin with nylon self-lubricating, medical grade split bearing
- For doors weighing up to 300 pounds without reinforcing, 600 pounds with reinforcing
- 1/16" door inset
- 48" Maximum door width
- Non-handed, handing required for custom cut lengths
- Square edge door

Specifications

Standard length	83", 85", 95", 120"
Material substrate	14 Gauge type 304 stainless steel
Standard mounting hardware	<ul style="list-style-type: none"> ▪ #10 X 1/2" Self drilling, self tapping screws ▪ #10 X 1" Wood screws
Certifications	<ul style="list-style-type: none"> ▪ Meets ANSI/BHMA 156.26 ▪ UL10C listed (3 hour)

Options

CON	Allegion Connect
EPT	Electric power transfer
HT	Hospital tip
TW8	Electrical through-wire

Optional mounting hardware

SECHM	Security screws - hollow metal door and frame
SECWDHM	Security screws - 1/2 wood, 1/2 hollow metal
SECWDWD	Security screws - wood door and frame
WD	Wood door and frame

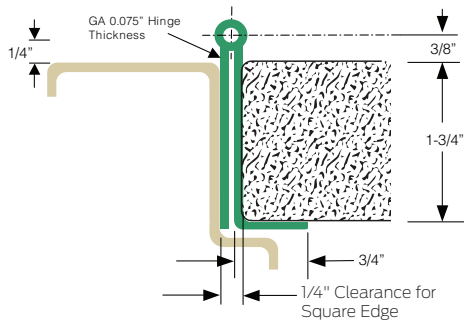
Finishes

BHMA	Description	Substrate	Finish
630	Satin Stainless Steel	Stainless steel	US32D

Custom paint available on 600 Series, consult factory

For single door applications:

For pairs of doors see chart and general information.



Hinges and pivots

Pin and barrel continuous hinges

715CS

Full mortise, half wrap pin and barrel continuous hinge with decorative cover

- Patented cover protects hinge knuckle and creates a cleaner and neater appearance
- XY adjustability feature allows for better door alignment during installation
- Half wrap edge guard
- Patented, medical grade, nylon winged bearings
- For doors weighing up to 300 pounds without reinforcing, 600 pounds with reinforcing
- Flush mounted, no inset
- 48" Maximum door width
- Non-handed, handing required for custom cut lengths
- Square edge door



Specifications

Standard length	83", 85", 95", 120"
Material substrate	Gauge type 304 stainless steel
Standard mounting hardware	12-24 X 3/4" Self drilling, self tapping screws
Certifications	<ul style="list-style-type: none"> ▪ Meets ANSI/BHMA 156.26 ▪ UL10C listed (3 hour)

Options

EPT	Electric power transfer
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Optional mounting hardware

SECHM	Security screws - hollow metal door and frame
WD	Wood door and frame

Finishes

BHMA	Description	Substrate	Finish
441	Satin Stainless Anodized	Aluminum/steel	US32DAN
600	Grey Primer Paint	Aluminum/steel	USP
628	Clear Aluminum Anodized	Aluminum/steel	US28
688	Satin Brass Anodized	Aluminum/steel	US4AN
709	Satin Bronze Anodized	Aluminum/steel	US10AN
710	Dark Bronze Anodized	Aluminum/steel	313AN
711	Black Anodized	Aluminum/steel	315AN
712	Bright Chrome Anodized	Aluminum/steel	US26AN
713	Satin Chrome Anodized	Aluminum/steel	US26DAN

Custom paint available, consult factory. Standard custom paint is on cover only, specify if paint on whole hinge is needed.

For single door applications:

For pairs of doors see chart and general information.