

IVES®

XY Series Hinges



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General Hinge Information

ANSI CERTIFIED

All Ives Aluminum Geared Hinges are certified to ANSI 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. Hanging Required for 224HD

FINISHES

BHMA	US	Description	Base Material
628	US28	Clear Aluminum Anodized	Aluminum
710	313AN	Dark Bronze Anodized	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

Hospital Tip (HT) for XY models

The new XY models features a new ligature resistant and tamper resistant Hospital Tip Cap. The new design provides a single uniform 45° angle surface with no exposed edges or openings.

Hospital Tips (HT) for HD models

The standard hospital tip option includes an angle machined channel cover and bearing to provide a flush angled surface. Recommended for HT retrofit applications only.

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	
Full Surface Hinges	12-24 x 3/4" Steel Self Drilling / Self Tapping Hex Head Screw	
157XY Only		
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)		

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 (TWP) FOR HD MODELS

The HD continuous hinge with Through-Wire Panel features a three piece hinge design. It includes top and bottom main hinges sections and a 4 1/2" tall through-wire panel. The panel can be removed for service and replaced as needed. Provides electric power transfer from the frame to the door via a ribbon cable 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 through-wire hinges are fully compatible with 4 wire and 8 wire installations. Recommended for low frequency usage. Warrantied up to 250,000 cycles

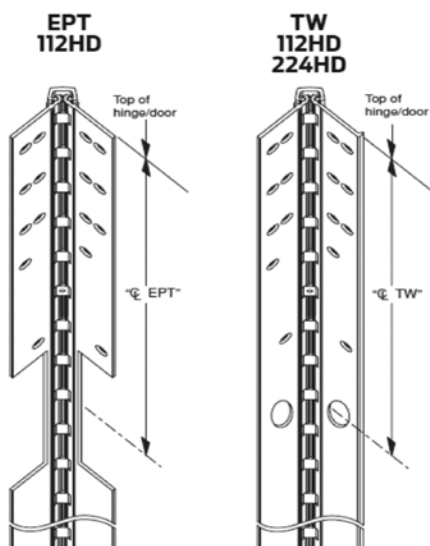
ELECTRICAL THROUGH-WIRE (TW8) FOR HD MODELS ONLY

Recommended for low frequency usage. Provides electric power transfer from the frame to the door via a ribbon cable 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 through-wire hinges are fully compatible with 4 wire and 8 wire installations. Requires the door to be torn down for maintenance. Warrantied up to 250,000 cycles.

NEW 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 Connector which makes 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 through-wire hinges are fully compatible with 4 wire and 8 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.

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

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

Standard Length	HD	HD	HD	XY	XY
	EPT	TW8	TWP	EPT	TWP CON
83"	30"	41-1/2"	41-1/2"	30"	43.5"
85"	32"	42-1/2"	42-1/2"	32"	45.5"
95"	42"	57-3/4"	57-3/4"	42"	55.5"
119" (XY)	-	-	-	66"	79.5"
120" (HD)	67"	81-25/32"	81-25/32"	-	-

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

Aluminum Geared Hinges

How to Order:

		112XY	HT	US28	83	TWP CON
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					
Option 1						
HT	Hospital Tip (HD models only)					
Finish						
US28	Clear Anodized Aluminum					
313AN	Dark Bronze Anodized Aluminum					
Custom Finishes Available, Consult Factory						
Length						
83"						
85"						
95"						
119"(XY) / 120"(HD)						
Custom lengths available up to 119", consult factory. When specifying length, handing required on 224HD.						
Option 2						
EPT	Electric Power Transfer Prep (Only Available on 112HD, 112XY, 224HD, 112XY, 114XY, 026XY, 027XY) Handing (LH and RH) Required for 026, 027, 114, and 224 models					
TWP CON	Through Wire Panel with Allegion Connect Standard (Only Available on 112HD, 112XY, 224HD, 112XY, 114XY, 026XY, 027XY)					
TWP	Through Wire Panel (112HD and 224HD models <=95" only)					
TW8	Electric Through Wire (112HD and 224HD models only)					
SEC	Security Fasteners - Pin-in-Socket (Only Available with 112HD and 224HD)					
WD	Wood Door Fasteners					
TF	Thread Forming Screws (pilot hole required) (Only Available with 112HD and 224HD)					

*Product will be available in late 2016.

Aluminum Geared 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	Door Under-Sizing		
				Beveled Door Clearance	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	5/32"	1/8"	1/32"	1/32"	5/16"	11/32"
046XY	5/32"	1/8"	1/32"	1/32"	5/16"	11/32"
053XY	5/32"	1/8"	1/32"	1/32"	5/16"	11/32"
054XY	5/32"	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"	15/16"	15/32"
027XY	5/8"	3/16"	1/16"	1/16"	7/8"	7/16"	15/16"	15/32"
040XY	5/8"	3/16"	1/16"	1/16"	7/8"	7/16"	15/16"	15/32"
041XY	5/8"	3/16"	1/16"	1/16"	7/8"	7/16"	15/16"	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"	15/16"	15/32"
112XY	5/8"	3/16"	1/16"	1/16"	7/8"	7/16"	15/16"	15/32"
114XY	5/8"	3/16"	1/16"	1/16"	7/8"	7/16"	15/16"	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"	15/16"	15/32"
224XY	5/8"	3/16"	1/16"	1/16"	7/8"	7/16"	15/16"	15/32"

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



026XY Full Mortise - Narrow Frame Leaf, Wide Door Leaf

UL10C certified

Meets ANSI 156.6 for 150lbs and 300lbs

- 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
- For lead-lined application consult factory for engineering specials

Standard lengths 83", 85", 95", 119"

Standard Mounting Hardware

12-24 x 3/4" Steel Self Drilling / Self Tapping Phillips Head Screw

Finishes

Clear Anodized (US28), Dark Bronze Anodized (313AN)

Custom Anodizing and Painting are available, consult factory

Options:

HT	Hospital Tip
EPT	Electric Power Transfer
TWP CON	Electrical Through Wire Panel with Allegion Connect

Optional Mounting Hardware:

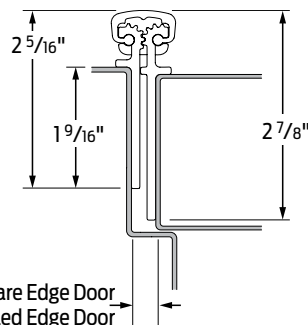
TEK/WD	1/2 Self Drill, Self Tap 1/2 Wood
WD	Wood Door and Frame

Available Accessory Kits:

Security Screws - Hollow Metal
Security Screws - Wood
Thread Forming Screws

For Single Door Applications

For pairs of doors see chart and general information





027XY Full Mortise - Wide Door Leaf

UL10C certified

Meets ANSI 156.26 for 150lbs and 300lbs

- 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
- For lead-lined application consult factory for engineering specials

Standard lengths 83", 85", 95", 119"

Standard Mounting Hardware

12-24 x 3/4" Steel Self Drilling / Self Tapping Phillips Head Screw

Finishes

Clear Anodized (US28), Dark Bronze Anodized (313AN)

Custom Anodizing and Painting are available, consult factory

Options:

HT	Hospital Tip
EPT	Electric Power Transfer
TWP CON	Electrical Through Wire Panel with Allegion Connect

Optional Mounting Hardware:

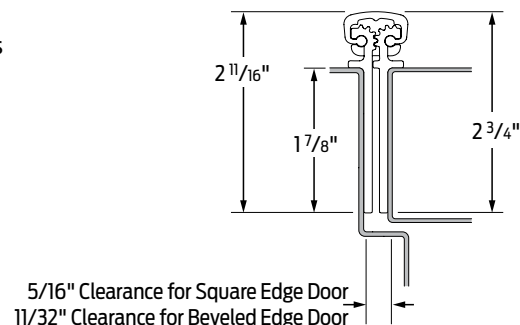
TEK/WD	1/2 Self Drill, Self Tap 1/2 Wood
WD	Wood Door and Frame

Available Accessory Kits:

Security Screws - Hollow Metal
Security Screws - Wood
Thread Forming Screws

For Single Door Applications

For pairs of doors see chart and general information





040XY Full Mortise - Wide Throw

UL10C certified

Meets ANSI 156.26 for 150lbs and 300lbs

- Wide Throw 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
- For lead-lined application consult factory for engineering specials

Standard lengths 83", 85", 95", 119"

Standard Mounting Hardware

12-24 x 3/4" Steel Self Drilling / Self Tapping Phillips Head Screw

Finishes

Clear Anodized (US28), Dark Bronze Anodized (313AN)

Custom Anodizing and Painting are available, consult factory

Options:

HT Hospital Tip

Optional Mounting Hardware:

TEK/WD 1/2 Self Drill, Self Tap
1/2 Wood

WD Wood Door and Frame

Available Accessory Kits:

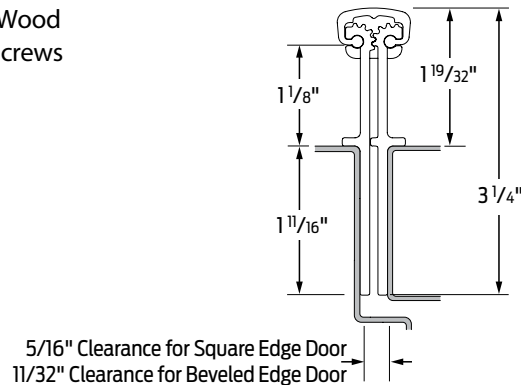
Security Screws - Hollow Metal

Security Screws - Wood

Thread Forming Screws

For Single Door Applications

For pairs of doors see chart and general information



**041XY Full Mortise - Swing Clear**

UL10C certified

Meets ANSI 156.26 for 150lbs and 300lbs

- 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
- For lead-lined application consult factory for engineering specials

Standard lengths 83", 85", 95", 119"

Standard Mounting Hardware

12-24 x 3/4" Steel Self Drilling / Self Tapping Phillips Head Screw

Finishes

Clear Anodized (US28), Dark Bronze Anodized (313AN)

Custom Anodizing and Painting are available, consult factory

Optional Mounting Hardware:TEK/WD 1/2 Self Drill, Self Tap
1/2 Wood

WD Wood Door and Frame

Available Accessory Kits:

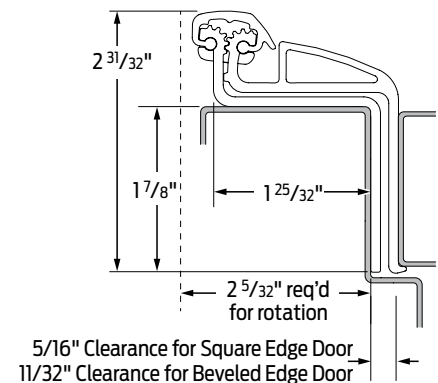
Security Screws - Hollow Metal

Security Screws - Wood

Thread Forming Screws

For Single Door Applications

For pairs of doors see chart and general information





045XY Half Surface - Narrow Frame Leaf, Wide Door Leaf

UL10C certified

Meets 156.26 for 150 lbs and 300 lbs

- Half surface for retrofit or new construction
- Frame leaf depth 1-9/16"
- 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
- 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
- For lead-lined application consult factory for engineering specials

Standard lengths 83", 85", 95", 119"

Standard Mounting Hardware

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

Finishes

Clear Anodized (US28), Dark Bronze Anodized (313AN)

Custom Anodizing and Painting are available, consult factory

Optional Mounting Hardware:

TEK/WD 1/2 Self Drill, Self Tap
1/2 Wood

WD Wood Door and Frame

Available Accessory Kits:

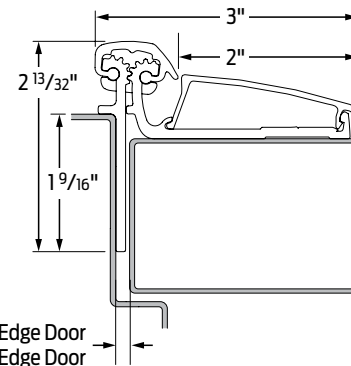
Security Screws - Hollow Metal

Security Screws - Wood

Thread Forming Screws

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



046XY Half Surface - Wide Door Leaf

UL10C certified

Meets 156.26 for 150 lbs and 300 lbs

- 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
- For lead-lined application consult factory for engineering specials

Standard lengths 83", 85", 95", 119"

Standard Mounting Hardware

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

Finishes

Clear Anodized (US28), Dark Bronze Anodized (313AN)

Custom Anodizing and Painting are available, consult factory

Optional Mounting Hardware:

TEK/WD 1/2 Self Drill, Self Tap

1/2 Wood

WD Wood Door and Frame

Available Accessory Kits:

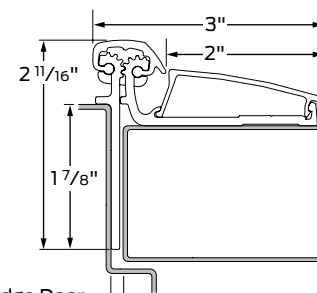
Security Screws - Hollow Metal

Security Screws - Wood

Thread Forming Screws

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



053XY Half Surface - Narrow Frame Leaf, Narrow Door Leaf

UL10C certified

Meets 156.26 for 150 lbs and 300 lbs

- Half surface for retrofit or new construction
- Frame leaf depth 1-9/16"
- 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
- 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
- For lead-lined application consult factory for engineering specials

Standard lengths 83", 85", 95", 119"

Standard Mounting Hardware

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

Finishes

Clear Anodized (US28), Dark Bronze Anodized (313AN)

Custom Anodizing and Painting are available, consult factory

Optional Mounting Hardware:

TEK/WD 1/2 Self Drill, Self Tap
1/2 Wood

WD Wood Door and Frame

Available Accessory Kits:

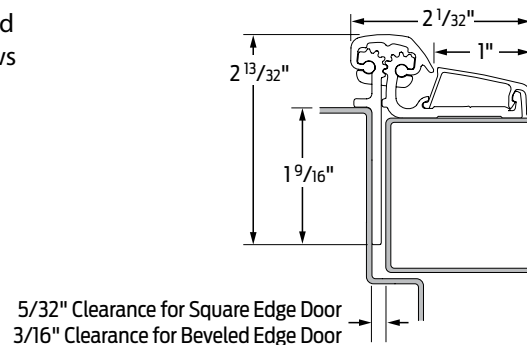
Security Screws - Hollow Metal

Security Screws - Wood

Thread Forming Screws

For Single Door Applications

For pairs of doors see chart and general information



**054XY Half Surface - Narrow Door Leaf**

UL10C certified

Meets 156.26 for 150 lbs and 300 lbs

- 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
- 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
- For lead-lined application consult factory for engineering specials

Standard lengths 83", 85", 95", 119"

Standard Mounting Hardware

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

Finishes

Clear Anodized (US28), Dark Bronze Anodized (313AN)

Custom Anodizing and Painting are available, consult factory

Optional Mounting Hardware:

TEK/WD 1/2 Self Drill, Self Tap

1/2 Wood

WD Wood Door and Frame

Available Accessory Kits:

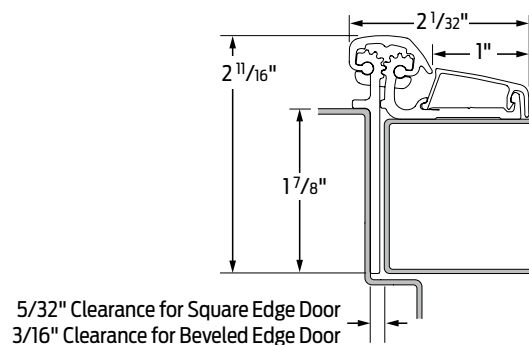
Security Screws - Hollow Metal

Security Screws - Wood

Thread Forming Screws

For Single Door Applications

For pairs of doors see chart and general information





112HD Full Mortise - Narrow Frame and Door Leaf

UL10C certified

Meets ANSI 156.26 for 150lbs

- 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

Standard lengths 83", 85", 95", 120"

Standard Mounting Hardware

12-24 x 3/4" Steel Self Drilling / Self Tapping Phillips Head Screw

Finishes

Clear Anodized (US28), Dark Bronze Anodized (313AN)

Custom Anodizing and Painting are available, consult factory

Options:

HT	Hospital Tip
EPT	Electric Power Transfer
TWP CON*	Through Wire Panel with Allegion Connect
TWP*	Electrical Through Wire Panel
TW8	Electrical Through Wire

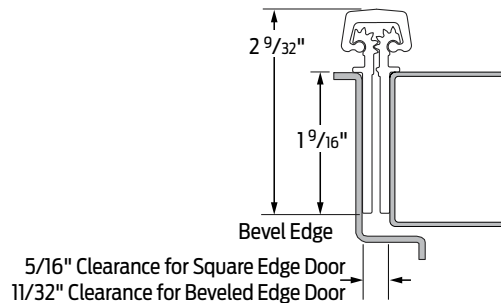
Optional Mounting Hardware:

SEC/HM	Security Screws - Hollow Metal Door and Frame
SEC/WD/HM	Security Screws - 1/2 Wood, 1/2 Hollow Metal
TF	Thread Forming Screws
TEK/WD	1/2 Self Drill, Self Tap 1/2 Wood
WD	Wood Door and Frame

*TWP only available on lengths <= 95"

For Single Door Applications

For pairs of doors see chart and general information
Hospital tip recommended for retrofit only





112XY Full Mortise - Narrow Frame and Door Leaf

UL10C certified

Meets ANSI 156.26 for 150 lbs and 300 lbs.

- 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
- For lead-lined application consult factory for engineering specials

Standard lengths 83", 85", 95", 119"

Standard Mounting Hardware

12-24 x 3/4" Steel Self Drilling / Self Tapping Phillips Head Screw

Finishes

Clear Anodized (US28), Dark Bronze Anodized (313AN)

Custom Anodizing and Painting are available, consult factory

Options:

HT	Hospital Tip
EPT	Electric Power Transfer
TWP CON	Electrical Through Wire Panel with Allegion Connect

Optional Mounting Hardware:

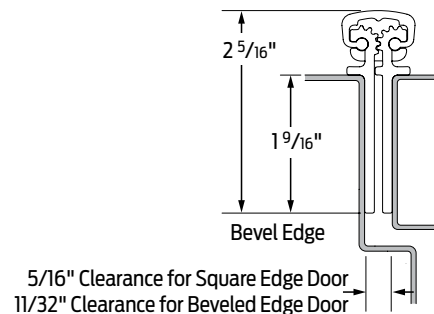
TEK/WD	1/2 Self Drill, Self Tap 1/2 Wood
WD	Wood Door and Frame

Available Accessory Kits:

Security Screws - Hollow Metal
Security Screws - Wood
Thread Forming Screws

For Single Door Applications

For pairs of doors see chart and general information





114XY Full Mortise - Narrow Frame Leaf, Door Edge Protector

UL10C certified

Meets ANSI 156.26 for 150 lbs and 300 lbs.

- 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
- For lead-lined application consult factory for engineering specials

Standard lengths 83", 85", 95", 119"

Standard Mounting Hardware

12-24 x 3/4" Steel Self Drilling / Self Tapping Phillips Head Screw

Finishes

Clear Anodized (US28), Dark Bronze Anodized (313AN)

Custom Anodizing and Painting are available, consult factory

Options:

HT	Hospital Tip
EPT	Electric Power Transfer
TWP CON	Electrical Through Wire Panel with Allegion Connect

Optional Mounting Hardware:

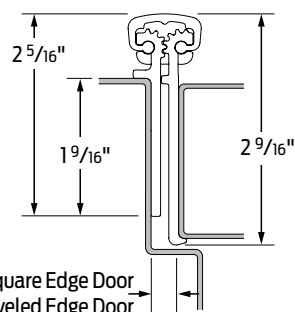
TEK/WD	1/2 Self Drill, Self Tap 1/2 Wood
WD	Wood Door and Frame

Available Accessory Kits:

Security Screws - Hollow Metal
Security Screws - Wood
Thread Forming Screws

For Single Door Applications

For pairs of doors see chart and general information





157XY Full Surface

UL10C certified

Meets ANSI 156.26 for 150 lbs and 300 lbs.

- 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
- For lead-lined application consult factory for engineering specials

Standard lengths 83", 95", 119"

Standard Mounting Hardware

12-24 x 1/2" Steel Self Drilling / Self Tapping Hex Head Screw

Finishes

Clear Anodized (US28), Dark Bronze Anodized (313AN)

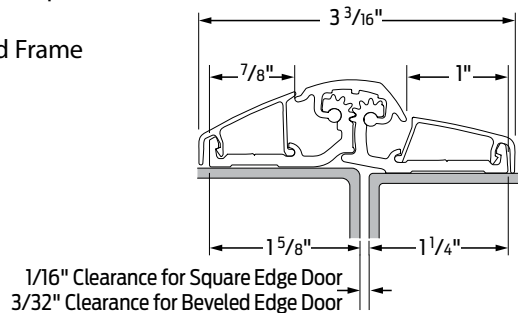
Custom Anodizing and Painting are available, consult factory

Optional Mounting Hardware:

TEK/WD	1/2 Self Drill, Self Tap
	1/2 Wood
WD	Wood Door and Frame

For Single Door Applications

For pairs of doors see chart and general information





210XY Full Surface - Swing Clear

UL10C certified

Meets ANSI 156.26 for 150 lbs and 300 lbs.

- 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
- 1/32" door inset
- 48" Maximum Door Width
- Beveled or Square Edge Doors
- For Doors Weighing up to 550 pounds
- For lead-lined application consult factory for engineering specials

Standard lengths 83", 85", 95", 119"

Standard Mounting Hardware

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

Finishes

Clear Anodized (US28), Dark Bronze Anodized (313AN)

Custom Anodizing and Painting are available, consult factory

Optional Mounting Hardware:

TEK/WD 1/2 Self Drill, Self Tap
1/2 Wood

WD Wood Door and Frame

Available Accessory Kits:

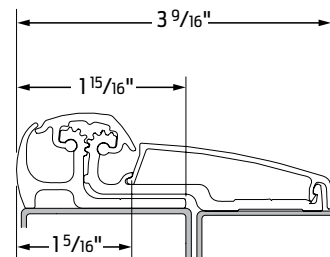
Security Screws - Hollow Metal

Security Screws - Wood

Thread Forming Screws

For Single Door Applications

For pairs of doors see chart and general information



1/16" Clearance for Square Edge Door
3/32" Clearance for Beveled Edge Door

**224HD Full Mortise - Door Edge Protector**

UL10C certified

Meets ANSI 156.26 for 150 lbs

- 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

Standard lengths 83", 85", 95", 120"

Standard Mounting Hardware

12-24 x 3/4" Steel Self Drilling / Self Tapping Phillips Head Screw

Finishes

Clear Anodized (US28), Dark Bronze Anodized (313AN)

Custom Anodizing and Painting are available, consult factory

Options:

HT	Hospital Tip
EPT	Electric Power Transfer
TWP CON*	Through Wire Panel with Allegion Connect
TWP*	Electrical Through Wire Panel
TW8	Electrical Through Wire

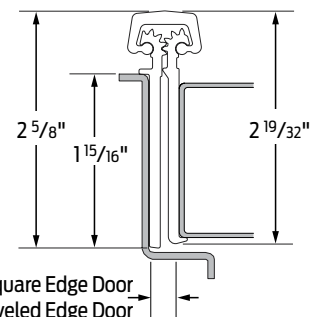
*TWP only available on lengths <= 95"

Optional Mounting Hardware:

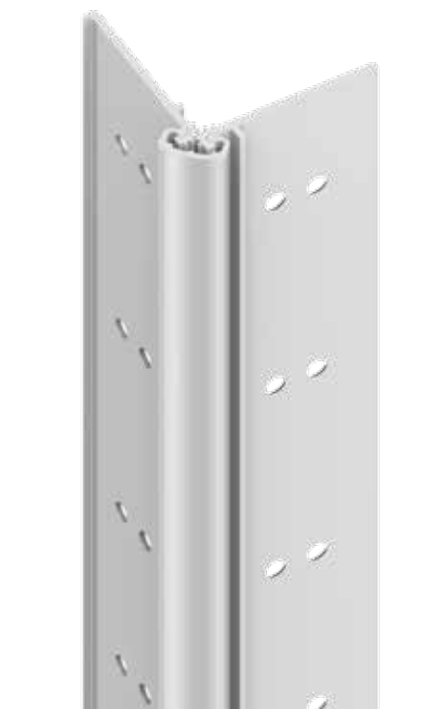
SEC/HM	Security Screws - Hollow Metal Door and Frame
SEC/WD/HM	Security Screws - 1/2 Wood, 1/2 Hollow Metal
TF	Thread Forming Screws
TEK/WD	1/2 Self Drill, Self Tap / 1/2 Wood
WD	Wood Door and Frame

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



224XY Full Mortise - Door Edge Protector

UL10C certified

Meets ANSI 156.26 for 150 lbs and 300 lbs.

- 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
- For lead-lined application consult factory for engineering specials

Standard lengths 83", 85", 95", 119"

Standard Mounting Hardware

12-24 x 3/4" Steel Self Drilling / Self Tapping Phillips Head Screw

Finishes

Clear Anodized (US28), Dark Bronze Anodized (313AN)

Custom Anodizing and Painting are available, consult factory

Options:

HT	Hospital Tip
EPT	Electric Power Transfer
TWP CON	Electrical Through Wire Panel with Allegion Connect

Optional Mounting Hardware:

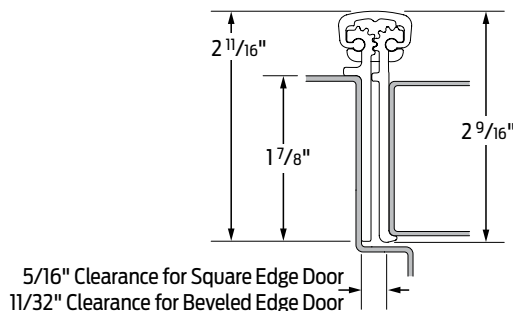
TEK/WD	1/2 Self Drill, Self Tap 1/2 Wood
WD	Wood Door and Frame

Available Accessory Kits:

Security Screws - Hollow Metal
Security Screws - Wood
Thread Forming Screws

For Single Door Applications

For pairs of doors see chart and general information



About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries.

For more, visit **www.allegion.com**

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