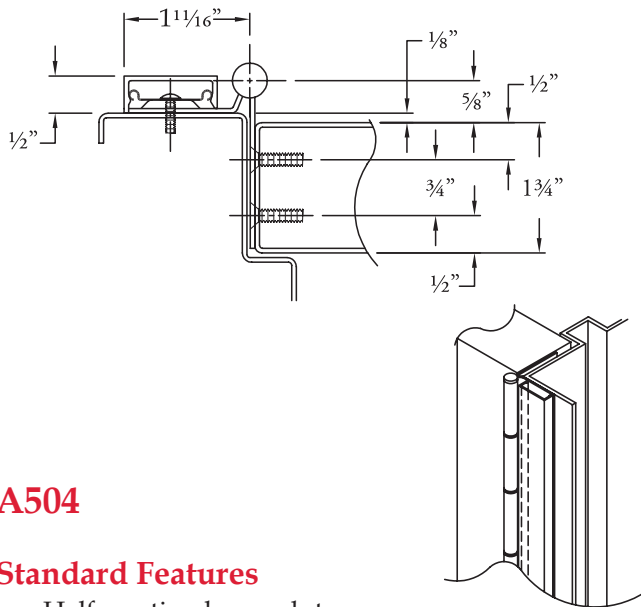


Half Mortise



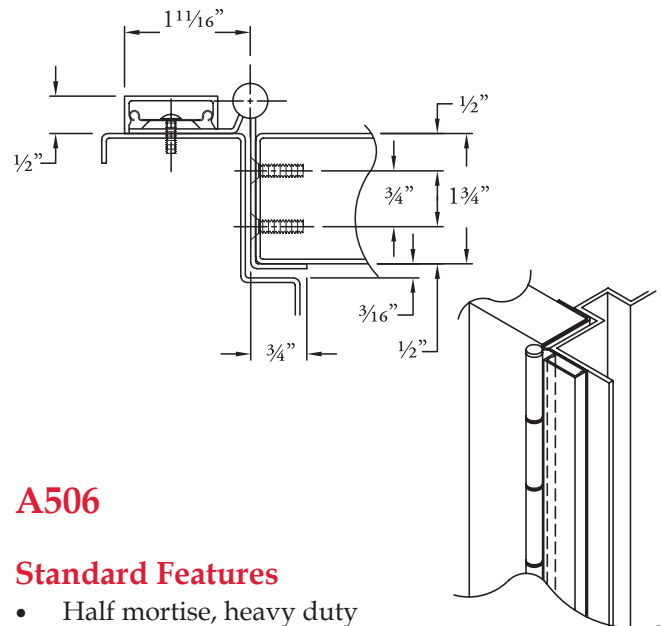
A504

Standard Features

- Half mortise, heavy duty
- 1/8" door inset
- 48" door width maximum
- 600 lbs. door weight maximum
- Frame leaf fastener cover is clear anodized aluminum
- **Fasteners:** 10-24 x 7/8" undercut, self-drilling, thread-forming tek machine screws, stainless steel for door and 1/4 -20 x 3/4" round head self-drilling tek machine screws, zinc plated for frame
- **Lengths:** 78-3/4", 83-1/8", 85", 95" and 118-3/4"
- **Finishes:** US32D Satin Stainless Steel or US32 Bright Stainless Steel
- **Fire Rating** - tested and certified by UL® (U.S.A. and Canada) on 4'0" x 10'0" fire rated doors, based on the following
 - 20 minutes - wood doors
 - 90 minutes - hollow metal and composite core wood fire doors
 - 3 hours - hollow metal doors

Options Available

- See pages G-6 to G-7 for modification availability and details



A506

Standard Features

- Half mortise, heavy duty
- No door inset, flush mount
- Door edge guard on stop side only
- 48" door width maximum
- 600 lbs. door weight maximum
- Frame leaf fastener cover is clear anodized aluminum
- **Fasteners:** 10-24 x 7/8" undercut, self-drilling, thread-forming tek machine screws, stainless steel for door and 1/4 -20 x 3/4" round head self-drilling tek machine screws, zinc plated for frame
- **Lengths:** 78-3/4", 83-1/8", 85", 95" and 118-3/4"
- **Finishes:** US32D Satin Stainless Steel or US32 Bright Stainless Steel
- **Fire Rating** - tested and certified by UL® (U.S.A. and Canada) on 4'0" x 10'0" fire rated doors, based on the following
 - 20 minutes - wood doors
 - 90 minutes - hollow metal and composite core wood fire doors
 - 3 hours - hollow metal doors

Options Available

- See pages G-6 to G-7 for modification availability and details



Electrical Options

“TW” - Concealed Electrical Thru-Wire

Transfers power from the frame to the door in a discreet manner.

- **TW4** - (4) 30 AWG wires
- **TW8** - (8) 30 AWG wires
- **TW12** - (12) 30 AWG wires

“EZ” - Concealed Electrical Thru-Wire with Molex® Connectors

Transfers power from the frame to the door in a discreet manner. Molex® plug-in connectors provided for installation ease.

- **EZ4** - (4) 30 AWG wires with Molex® connectors
- **EZ8** - (8) 30 AWG wires with Molex® connectors
- **EZ12** - (12) 30 AWG wires with Molex® connectors

“M” - Moveable Electrical Access Prep

Hinge is supplied as one complete piece (pin and barrel are continuous), but both hinge leaves are cut to allow access to the electrical section without having to uninstall the hinge.

“PT” - Cut-out Prep for Power Transfer

Hinge is prepped for the use electrical power transfer to be used - must specify which model power transfer unit being used. See ABH Electrical Power Transfer section in the catalog for available models (sold separately).

“AMS” - Adjustable Monitoring Switch

Adjustable button switch is installed in the frame leaf to monitor the door position. Specify handing.

“CT” Concealed Electrical Thru-Wire and Monitor Switch

Monitor switch is installed in the frame leaf to monitor the door position while the wires transfer power from the frame to the door in a discreet manner.



- **CT4** - (4) 30 AWG wires
- **CT8** - (8) 30 AWG wires
- **CT12** - (12) 30 AWG wires

Electrical Options - Compatibility Chart		TW	EZ	M	PT	AMS	CT
Full Concealed	A500	●	●	●	●	●	●
	A500RB	●	●	●	●	●	●
	A5500WT	●	●	●	●	●	●
	A505	●	●	●	●	●	●
	A505RB	●	●	●	●	●	●
	A510				●		
	A511				●		
	A515	●	●	●	●	●	●
	A515RB	●	●	●	●	●	●
	A526				●		
	A529				●		
	A5500	●	●	●	●	●	●
	A5515	●	●	●	●	●	●
A5505	●	●	●	●	●	●	
Half Mortise	A504				●		
	A506				●		
Half Surface	A503				●		
Full Surface	A502						



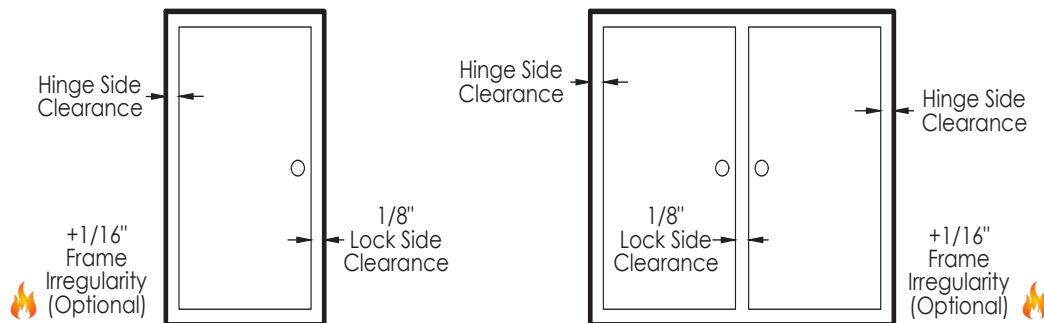
Stainless Steel Continuous Pin & Barrel Hinges

Door Clearance Chart

Single Door- Square Edged							
HINGE MODEL	HINGE SIDE CLEARANCE (Single)	+	LOCK SIDE CLEARANCE	+	***FRAME IRREGULARITY (OPTIONAL) 	=	SINGLE DOOR TOTAL UNDERSIZE
A500*, A500RB, A510**, A515, A515RB, A525, A529, AC500*	1/4"	+	1/8"	+	1/16"	=	7/16"
A505**, A505RB**, A526**, A5500*, A5515, A5505	5/16"	+	1/8"	+	1/16"	=	1/2"
A503, A504*, A506, A511	1/8"	+	1/8"	+	1/16"	=	5/16"
A502	3/32"	+	1/8"	+	1/16"	=	9/32"
Pairs of Doors- Square Edged							
HINGE MODEL	HINGE SIDE CLEARANCE (Pair)	+	LOCK SIDE CLEARANCE	+	***FRAME IRREGULARITY (OPTIONAL) 	=	PAIR OF DOORS TOTAL UNDERSIZE
A500*, A500RB, A510**, A515, A515RB, A529, AC500*	1/2"	+	1/8"	+	1/16"	=	11/16"
A505**, A505RB**, A526**, A5500*, A5515, A5505	5/8"	+	1/8"	+	1/16"	=	13/16"
A503, A504*, A506, A511	1/4"	+	1/8"	+	1/16"	=	7/16"
A502	3/16"	+	1/8"	+	1/16"	=	3/8"

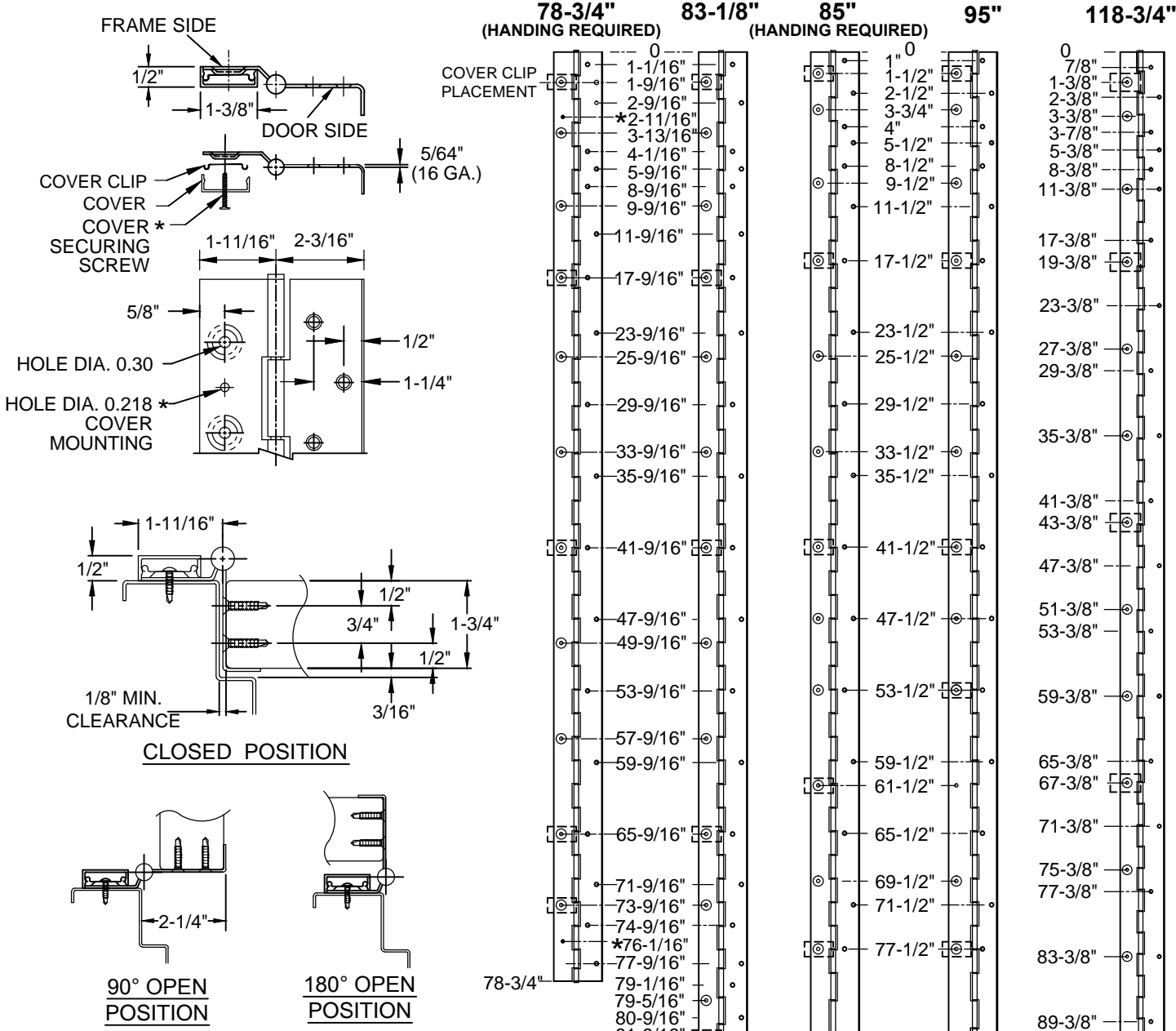
Single Door

Pair of Doors



* For beveled door, standard clearance is applied to the high side of the door. Refer to template.
 ** When using the optional "AS" Adjustable Studs, add 1/8" additional for adjustment clearance. (A505, A510 & A526 Only)
 *** 1/16" Frame Irregularity Allowance, Optional and included in all Total Door Undersize for single and pairs of doors

A506 - STAINLESS STEEL HINGE, HALF MORTISE WITH EDGE GUARD



NOTE: HINGES CUT TO CUSTOM LENGTH ARE CUT FROM THE BOTTOM - PLEASE SPECIFY HANDING

STANDARD HINGE SIZES & SCREW DETAIL					
NOMINAL DOOR HEIGHT	6'8"	7'0"	7'2"	8'0"	10'0"
ACTUAL HINGE HEIGHT	78-3/4"	83-1/8"	85"	95"	118-3/4"
1/4-20 x 3/4" PHILLIPS PAN HEAD, SELF-DRILLING, TEK MACHINE SCREW	13	13	13	15	17
10-24 x 7/8" PHILLIPS FLAT HEAD, UNDERCUT, SELF-DRILLING, TEK MACHINE SCREW	21	21	21	23	27
#10 x 1-1/4" PHILLIPS FLAT HEAD, UNDERCUT, SHEET METAL SCREW	21	21	21	23	27
COVER CLIP	5	5	5	6	7
#6 x 1" FLAT HEAD SHEET METAL SCREW, PIN-IN-TORX (SECURE COVER)	2	2	2	2	2

NOTE: THIS DRAWING IS NOT TO SCALE



www.abhmf.com
 E-mail: abhinfo@abhmf.com
 Architectural Builders Hardware Mfg., Inc.
 1222 Ardmore Ave., Itasca, IL 60143
 630.875.9900; FAX 800.9FAXABH (932.9224)

©2015 ABH Mfg., Inc.
 printed in USA

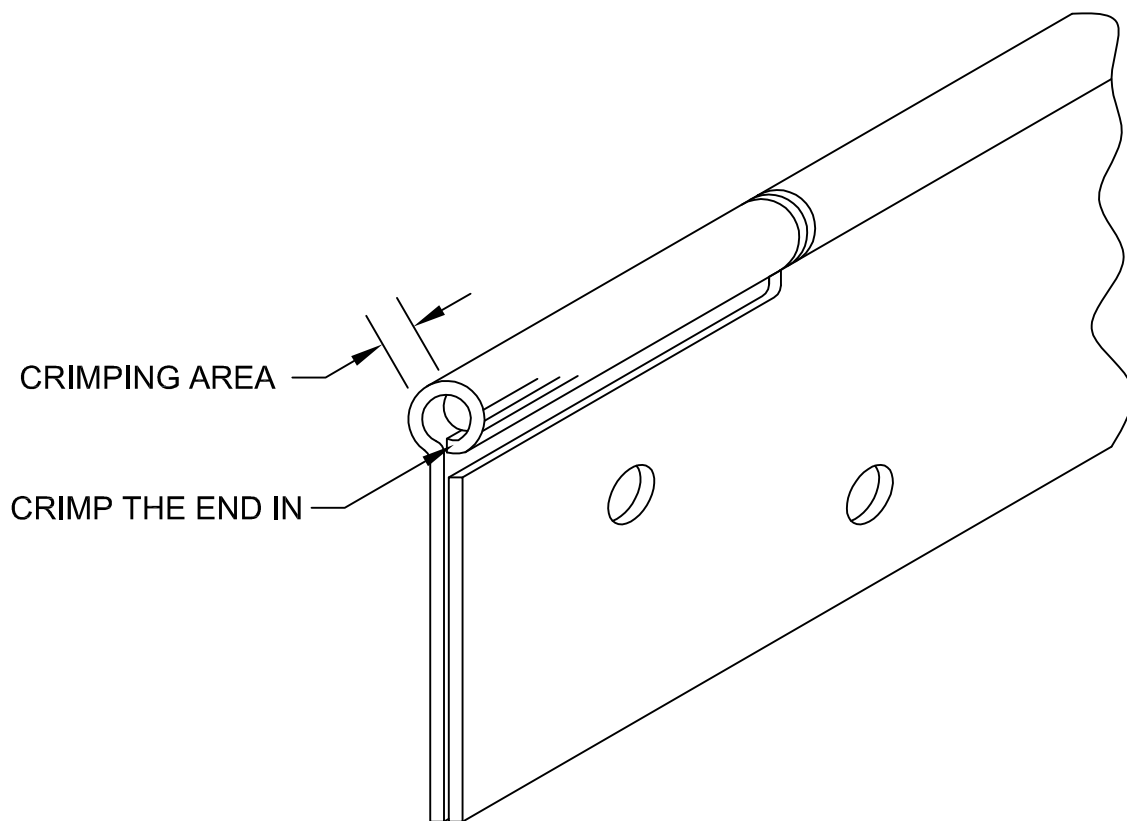
A506
STAINLESS STEEL HINGE

PAGE 1 OF 1
 ISSUED 06-04-15

A506-STAINLESS STEEL HINGE.00.DWG

CUTTING STAINLESS STEEL HINGES TO CUSTOM LENGTHS

1. DETERMINE THE AMOUNT THAT THE HINGE NEEDS TO BE SHORTENED. NOTE THE HAND OF THE HINGE BEFORE BEGINING TO LAY OUT YOUR CUT. ALL CUTS WILL BE DONE AT THE BOTTOM OF YOUR HINGE ASSEMBLY MAKING SURE TO LEAVE THE GANG HOLE PATTERN AT THE TOP.
2. MEASURE FROM THE TOP DOWN AND SCRIBE A CUT LINE ON YOUR LEAF AT THE DESIRED LENGTH.
3. CUT THE HINGE TO LENGTH WITH A HACKSAW, GOING THROUGH THE LEAFS, BARREL AND PIN. IF NECESSARY, USE A FILE TO REMOVE ALL SHARP EDGES AFTER CUTTING.
4. MOVE THE STAINLESS STEEL PIN OUT APPROXIMATELY 1" MAKING SURE THE ASSEMBLY STAYS TOGETHER AS ONE UNIT. REMOVE $\frac{1}{4}$ " FROM THE END OF THE PIN USING A HACKSAW AND THEN PUSH BACK INTO IT'S ORIGINAL POSITION.
5. USING A PAIR OF VICE-GRIPS, CRIMP THE END OF THE BARREL MAKING SURE THE HINGE PIN WILL NOT SLIDE OUT.



ABH suggests ordering the hinge cut to length at factory. If the hinge is field cut, it will void the warranty.



® www.abhmfg.com
E-mail: abhinfo@abhmfg.com
Architectural Builders Hardware Mfg., Inc.
1222 Ardmore Ave., Itasca, IL 60143
630.875.9900; FAX 800.9FAXABH (932.9224)

©2010 ABH Mfg., Inc.
printed in USA

STAINLESS STEEL HINGE
CUSTOM CUTTING LENGTHS

ISSUED 05-26-10

SS HINGE CUSTOM CUTTING LENGTHS-00.DWG