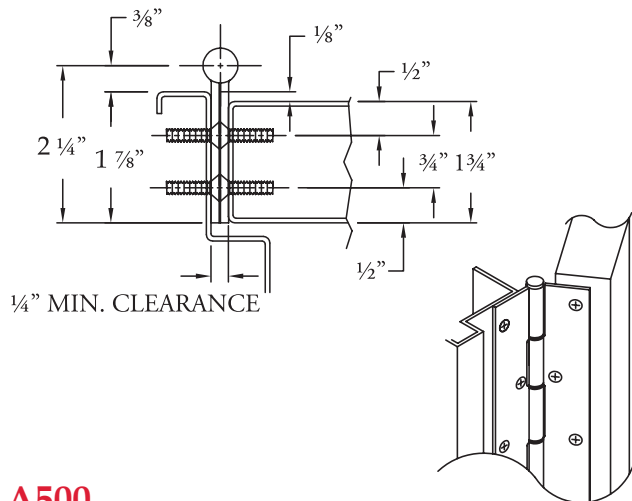


Stainless Steel Continuous Pin & Barrel Hinges



Innovation, Quality,
Customer Service...

Full Concealed



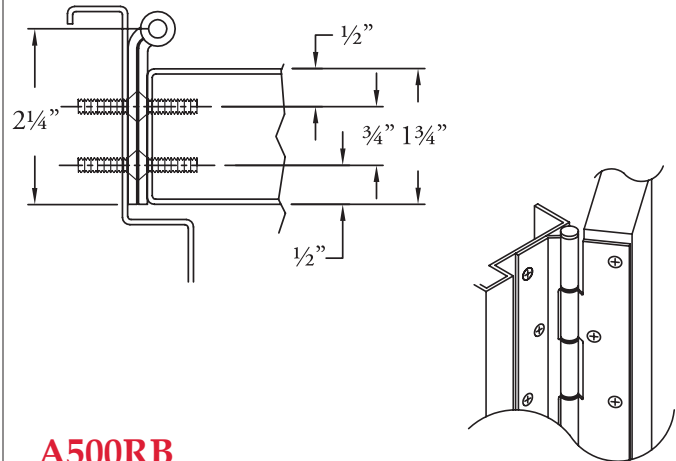
A500

Standard Features

- Full concealed, heavy duty
- 1/8" door inset
- 48" door width maximum
- 600 lbs. door weight maximum
- **Fasteners:** 10-24 x 7/8" undercut, self-drilling, thread-forming tek machine screws, stainless steel and #10 x 1-1/4" undercut wood screws, stainless steel
- **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



A500RB

Standard Features

- Raised barrel (swaged) for door set back in deep reveals
- Full concealed, heavy duty
- 48" door width maximum
- 600 lbs. door weight maximum
- **Fasteners:** 10-24 x 7/8" undercut, self-drilling, thread-forming tek machine screws, stainless steel and #10 x 1-1/4" undercut wood screws, stainless steel
- **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" 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



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Non - Electrical Options

“CUT” - Cut to Custom Length

If a non-standard length hinge is required, ABH will cut from the bottom of the hinge to the desired length as long as it does not interfere with a screw hole. **Specify length and handing.**

“SPLICE” - Spliced Hinge

For hinges exceeding 118-3/4”, ABH splices two separate lengths with an alternately split stainless steel pin that holds the barrel together. **Specify length and handing.**

“HT” - Welded Hospital Tip

Top of the hinge barrel is cut at a 45° angle and then welded to help provide and support a safer environment in hospitals and other institutions. **Specify handing.**

“DD” - Dutch Door

Modified door leaf cut to fit a dutch door application. Go online for order form or, specify top and bottom door leaf heights as well as clearance required between top and bottom and handing when ordering.

“STUD” - Security Studs

1/2” diameter stainless steel studs are permanently mounted to the frame leaf projecting 1/4” and extend into the door leaf for added security.

“AS” - Adjustable Studs

Threaded studs are supplied for hinges with door edge guards on both faces of the door to help correct door alignment issues up to 3/8”. Additional door reinforcement required. **Specify wood or metal door.**

“SEC” - Security Fasteners

Security fasteners are supplied in lieu of standard fasteners for all exposed areas. **Specify wood or metal door and frame**

“SNB” - Sex Bolts

When using on wood doors, sex bolts are provided for the surface mounted door portion.

“LL” - Lead-Lined

Lead is provided for the door portion fastener cover for half surface and full surface hinges.

“SL” - Sheared Leaf

Concealed leaf is sheared to accommodate a 1-3/8” thick door.

“ADB” - Cut for Automatic Door Bottom

Specify automatic door bottom model when ordering.

“CUSTOM HOLE”

Contact factory with custom mounting hole locations desired for unusual frame and/or door conditions. Restrictions apply.

“NO HOLE”

Contact factory for hinge without mounting holes.

“CUSTOM FINISH”

Custom powder coated finishes available – contact factory for details. Customer color sample approval will be required prior to fabrication.

Non-Electrical Options - Compatibility Chart



Hinge Model		CUT	SPLICE	HT	DD	STUD	AS	SEC	SNB	LL	SL	ADB	CUSTOM HOLES	NO HOLES	CUSTOM FINISH
Full Concealed	A500	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	A500RB	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	A550WT	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	A505	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	A505RB	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	A510	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	A511	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	A515	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	A515RB	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	A526	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	A529	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	A5500	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	A5515	•	•	•	•	•	•	•	•	•	•	•	•	•	•
A5505	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Half Mortise	A504	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	A506	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Half Surface	A503	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Full Surface	A502	•	•	•	•	•	•	•	•	•	•	•	•	•	•



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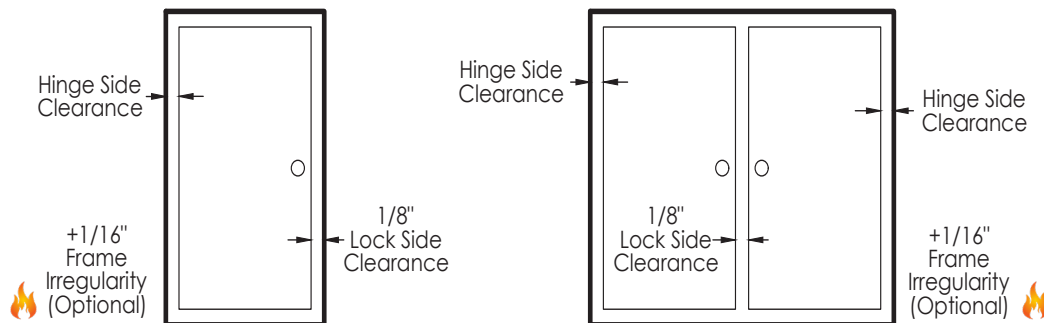
Stainless Steel Continuous Pin & Barrel Hinges

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

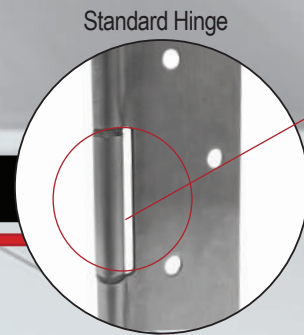
AC500

Stainless Steel Pin & Barrel Hinge

For use in behavioral health facilities, hospitals, correctional facilities, or any institution where there are ligature risks. ABH custom designed the AC500 to by using our welded hospital tip and hinge leafs with flanges to encase the barrel. While most hospital tips are designed to work only in the closed door position, this design works whether the hinge is open or closed.



No Gaps



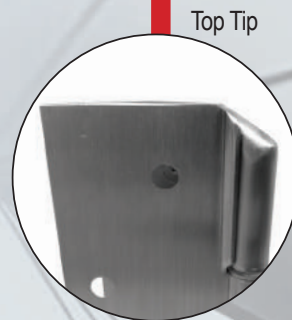
Gaps in a Standard Pin and Barrel Hinge pose possible Ligature points

Features

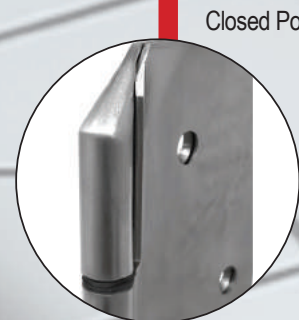
- Barrel cut at 45° and welded to close all gaps at the top and bottom
- Each barrel is encased in the hinge leaf flange to close all gaps ("No See Through" Design)
- Also available in A505 and A515 models
- **PATENT PENDING**

Technical Specifications:

Hinge Material: 304 Stainless Steel
 Finishes: Satin Stainless – Other Finishes by Request
 Fasteners: Pin-In-Torx Screws
 Meets ANSI BHMA 156.26 Grade 1



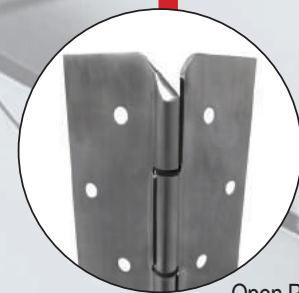
Top Tip



Closed Position



Bottom Tip



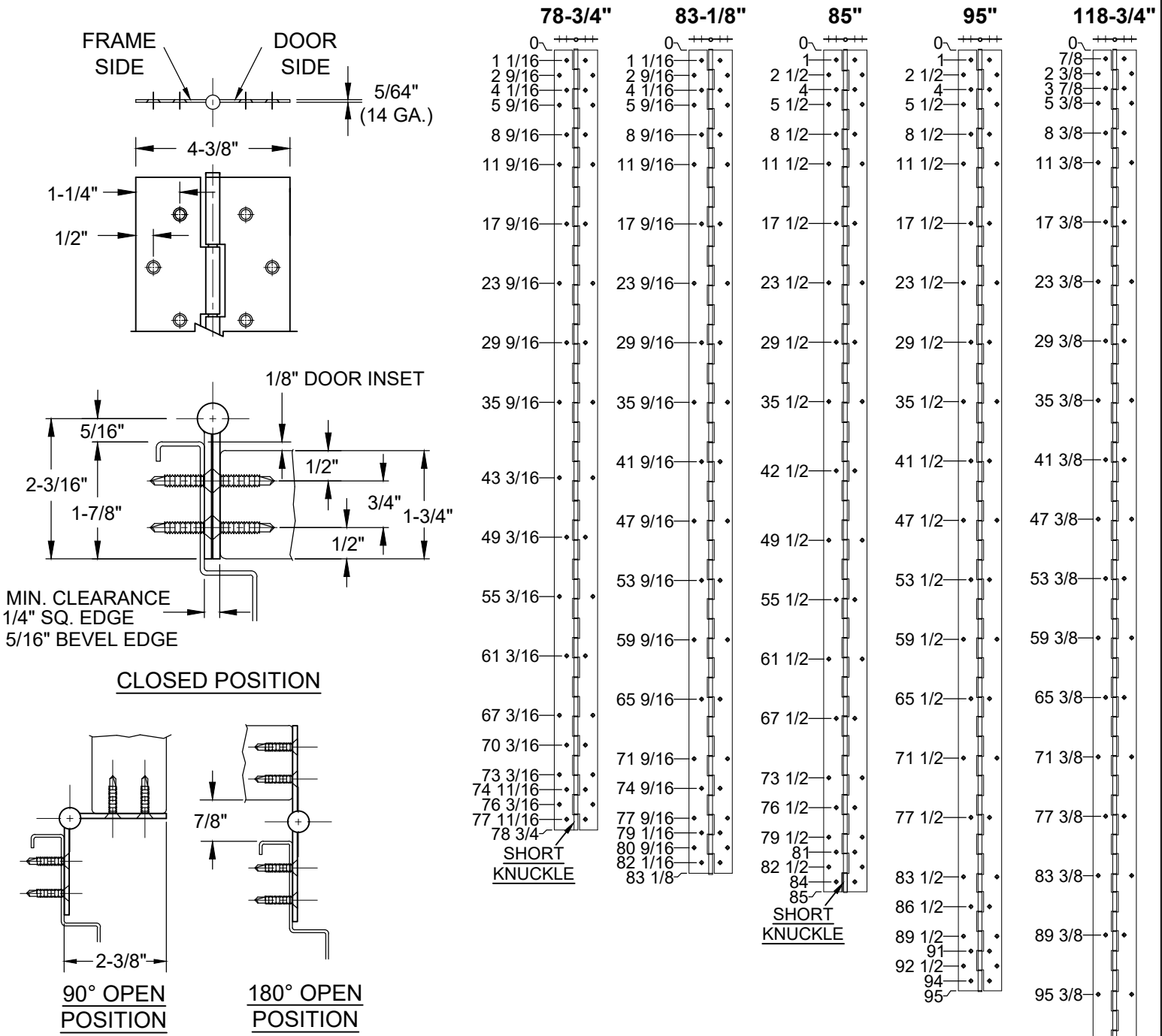
Open Position

Notes:

Behavioral health product applications are intended to provide a safer solution than traditional applications, they do not eliminate risk.

https://omh.ny.gov/omhweb/patient_safety_standards/guide.pdf

A500 - STAINLESS STEEL HINGE, FULL CONCEALED, EDGE MOUNT



NOTE: HINGES CUT TO CUSTOM LENGTH ARE CUT FROM THE BOTTOM - A500 DOES NOT REQUIRE HANDING WHEN CUT.

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"
10-24 x 7/8" PHILLIPS FLAT HEAD, UNDERCUT, SELF-DRILLING TEK MACHINE SCREW	40	42	42	46	54
#10 x 1-1/4" PHILLIPS FLAT HEAD, UNDERCUT, SHEET METAL SCREW	40	42	42	46	54

NOTE: THIS DRAWING IS NOT TO SCALE.



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A500-STAINLESS STEEL HINGE-01.DWG

A500
STAINLESS STEEL HINGE

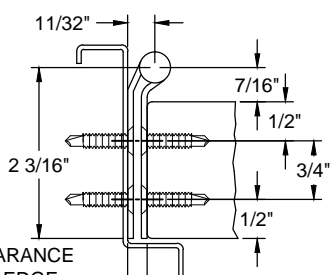
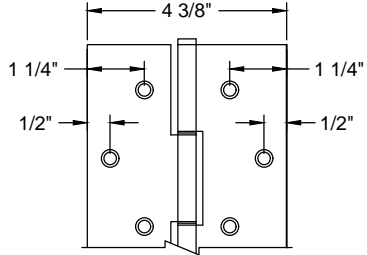
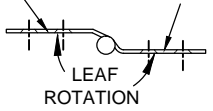
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A500RB - STAINLESS STEEL HINGE, FULL CONCEALED, RAISED BARREL

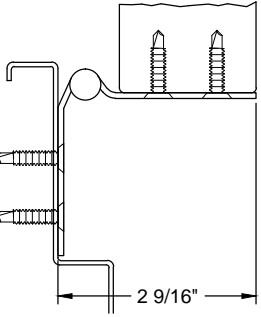


FRAME SIDE DOOR SIDE

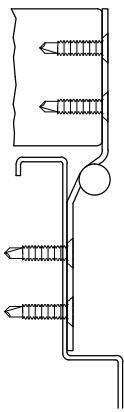


MIN. CLEARANCE
1/4" SQ. EDGE
5/16" BEVELED EDGE

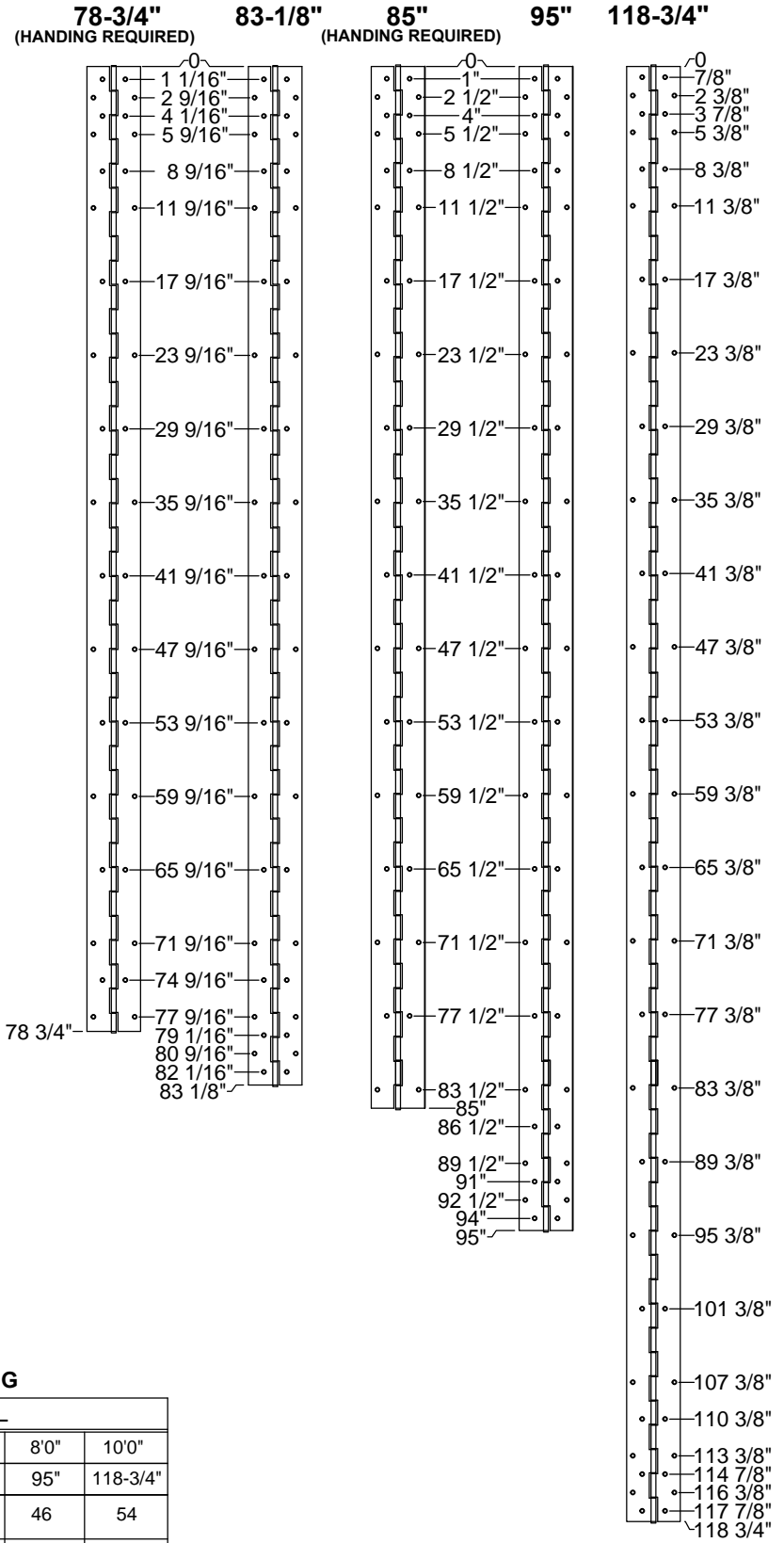
CLOSED POSITION



90° OPEN POSITION



180° OPEN POSITION



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"
10-24 x 7/8" PHILLIPS FLAT HEAD, UNDERCUT, SELF-DRILLING, TEK MACHINE SCREW	42	42	42	46	54
#10 x 1-1/4" PHILLIPS FLAT HEAD, UNDERCUT, SHEET METAL SCREW	42	42	42	46	54

NOTE: THIS DRAWING IS NOT TO SCALE.



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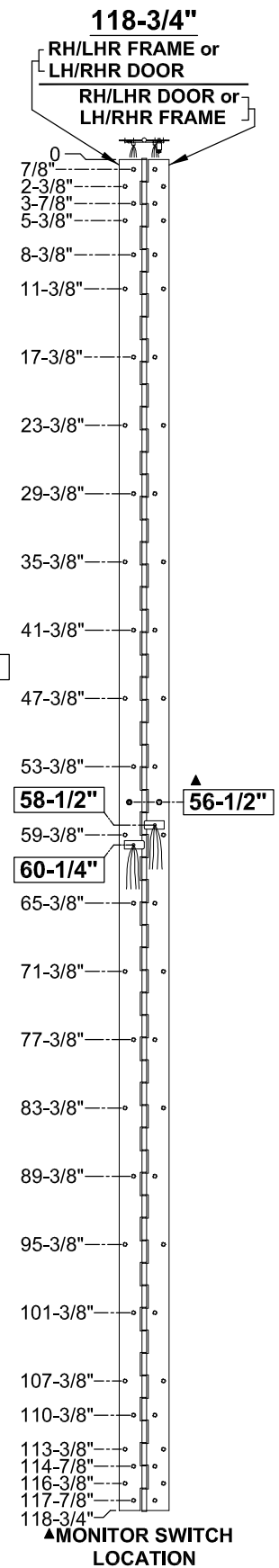
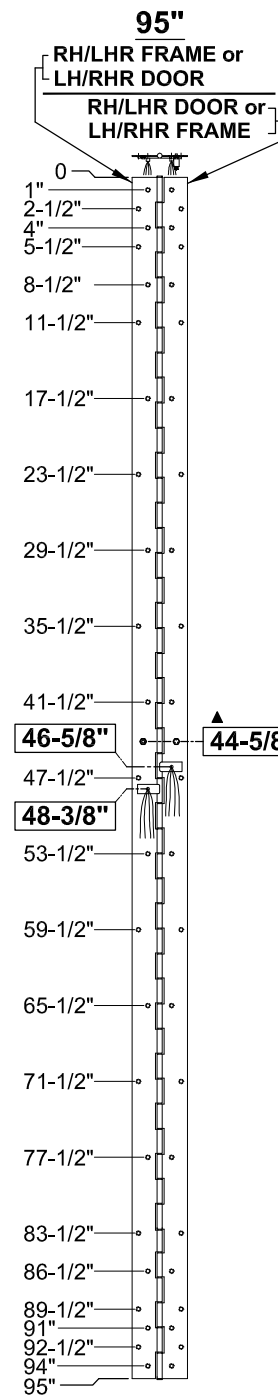
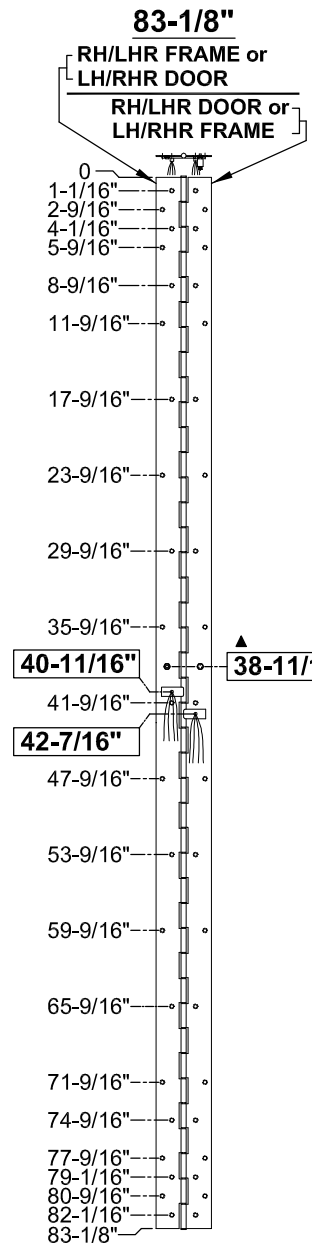
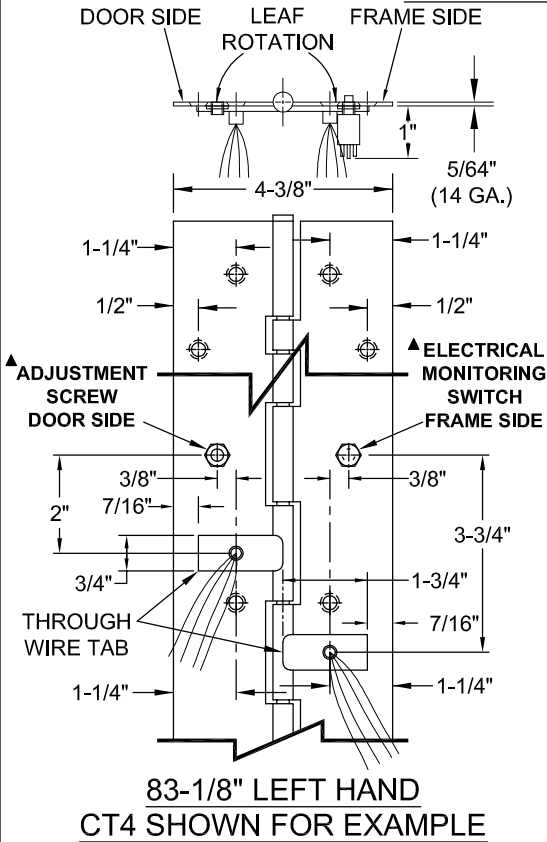
A500RB-STAINLESS STEEL HINGE-02.DWG

A500RB
STAINLESS STEEL HINGE

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PAGE 1 OF 1
ISSUED 12-23-16

A500 - "CT" OPTION, THRU WIRE & MONITOR SWITCH, FULL CONCEALED, EDGE MOUNT, STAINLESS STEEL HINGE



- NOTES:**
1. HINGES CUT TO CUSTOM LENGTH ARE CUT FROM BOTTOM OF HINGE.
 2. SPECIFY HANDING WHEN ORDERING.
 3. SPECIFY WIRE CONFIGURATION WHEN ORDERING, TEMPLATE REMAINS THE SAME.
 - CT4 • CT4 x EZ *
 - CT8 • CT8 x EZ *
 - CT12 • CT12 x EZ *

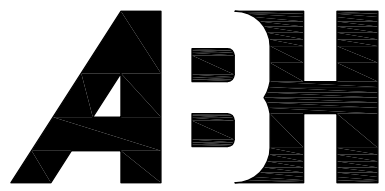
* SPECIFY ELECTRIFIED HARDWARE MANUFACTURER FOR CONNECTOR COMPABILITY

4. IF "M" OPTION (MOVEABLE PANEL) IS CHOSEN, TEMPLATE REMAINS THE SAME.
5. 30 AWG WIRES, APPROX. 4" LONG PER SIDE, RATED 2 AMP CONTINUOUS LOW VOLTAGE.
6. THRU WIRE & MONITOR SWITCH LOCATION DIMENSIONS +/- 1/16".

STANDARD HINGE SIZES & SCREW DETAIL			
NOMINAL DOOR HEIGHT	7'0"	8'0"	10'0"
ACTUAL HINGE HEIGHT	83-1/8"	95"	118-3/4"
10-24 x 7/8" PHILLIPS FLAT HEAD, UNDERCUT, SELF-DRILLING MACHINE SCREW	42	46	54
#10 x 1-1/4" PHILLIPS FLAT HEAD, UNDERCUT, SHEET METAL SCREW	42	46	54

THIS DRAWING IS NOT TO SCALE.

A500-CT OPTION, THRU WIRE & MONITOR SWITCH-1-00.DWG

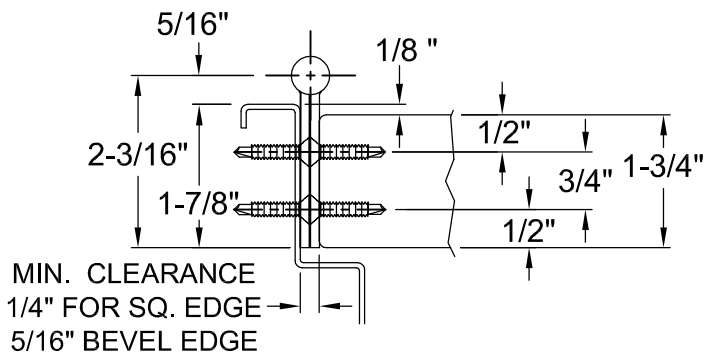


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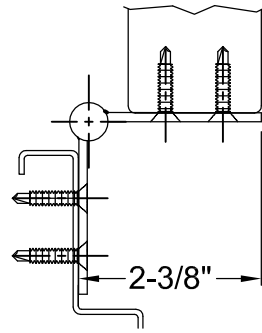
A500 - "CT" OPTION THRU WIRE & MONITOR SWITCH

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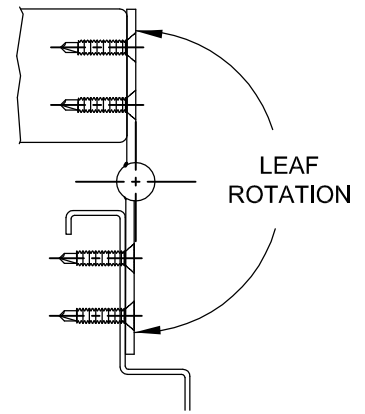
**A500 - "CT" OPTION, THRU WIRE & MONITOR SWITCH, FULL CONCEALED,
EDGE MOUNT, STAINLESS STEEL HINGE**



CLOSED POSITION
(WIRES NOT SHOWN)

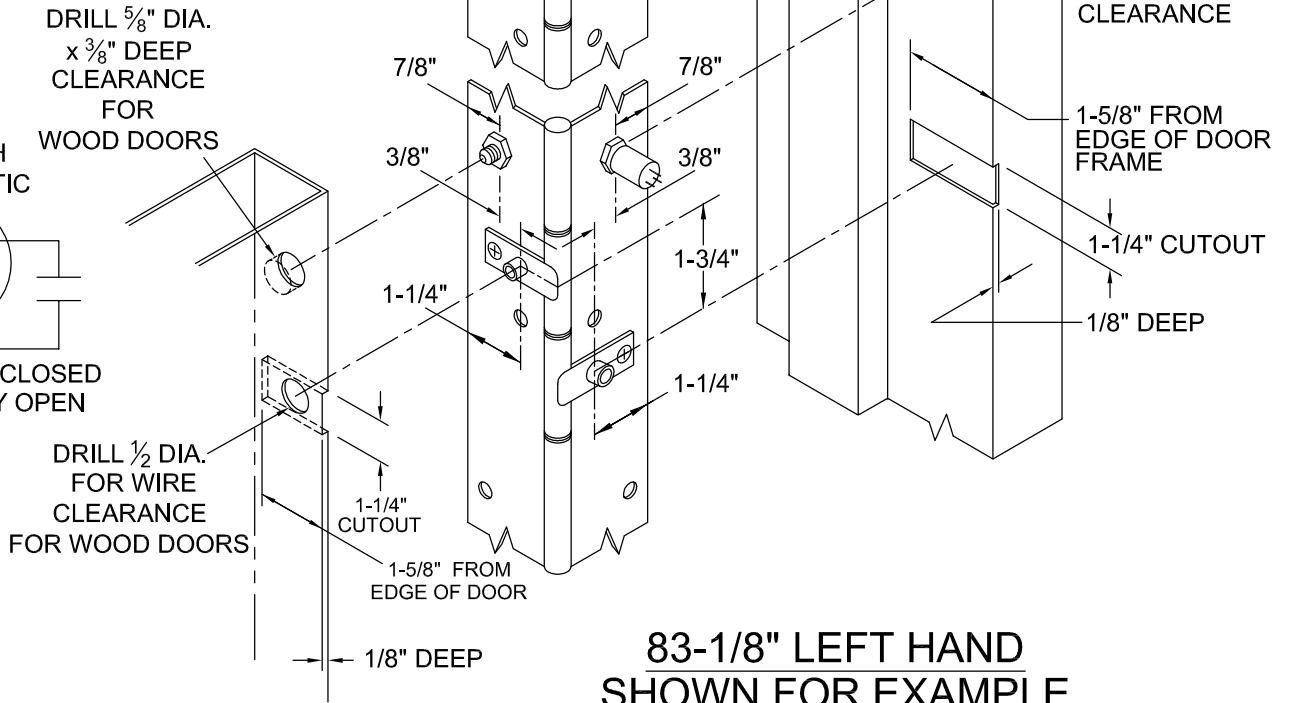
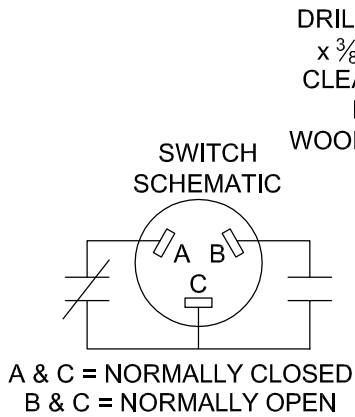
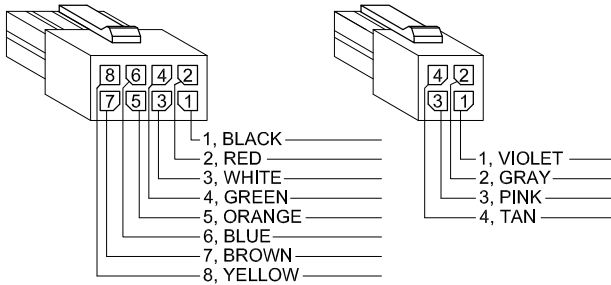


90° OPEN POSITION
(WIRES NOT SHOWN)



180° OPEN POSITION
(WIRES NOT SHOWN)

EZ CONNECT OPTION



**83-1/8" LEFT HAND
SHOWN FOR EXAMPLE**



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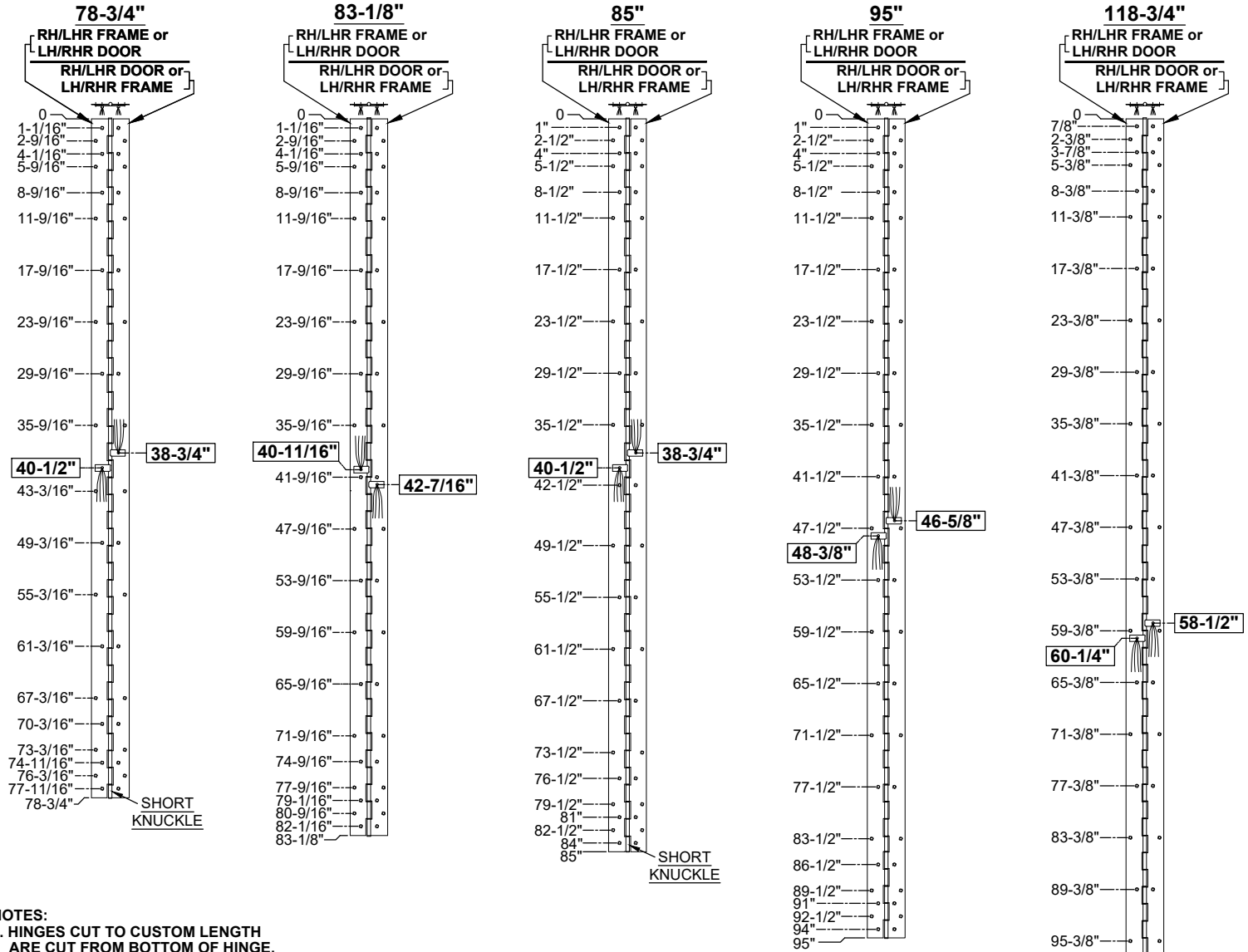
A500-CT OPTION, THRU WIRE & MONITOR SWITCH-2-00.DWG

**A500 - "CT" OPTION
THRU WIRE & MONITOR SWITCH**

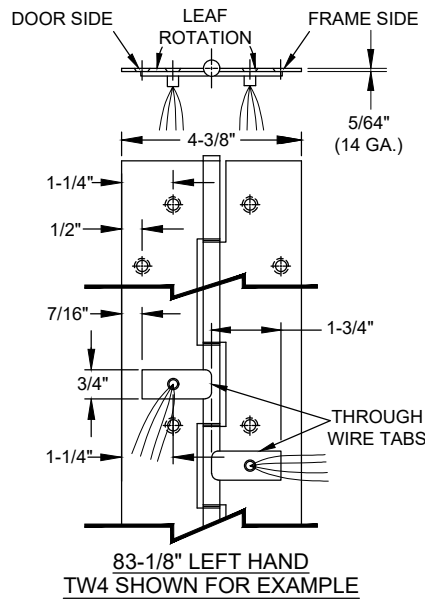
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PAGE 2 OF 2
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**A500 - "TW" or "EZ" OPTION, CONCEALED ELECTRIFICATION, FULL CONCEALED,
EDGE MOUNT, STAINLESS STEEL HINGE**



- NOTES:**
- HINGES CUT TO CUSTOM LENGTH ARE CUT FROM BOTTOM OF HINGE.
 - SPECIFY HANDING WHEN ORDERING.
 - SPECIFY WIRE CONFIGURATION WHEN ORDERING, TEMPLATE REMAINS THE SAME.
 - CT4
 - CT8
 - CT12
 - CT4 x EZ *
 - CT8 x EZ *
 - CT12 x EZ *
 - IF "M" OPTION (MOVEABLE PANEL) IS CHOSEN, TEMPLATE REMAINS THE SAME.
 - 30 AWG WIRES, APPROX. 4" LONG PER SIDE, RATED 2 AMP CONTINUOUS LOW VOLTAGE.
 - THRU WIRE LOCATION DIMENSIONS +/- 1/16".



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"
10-24 x 7/8" PHILLIPS FLAT HEAD, UNDERCUT, SELF-DRILLING MACHINE SCREW	40	42	42	46	54
#10 x 1-1/4" PHILLIPS FLAT HEAD, UNDERCUT, SHEET METAL SCREW	40	42	42	46	54

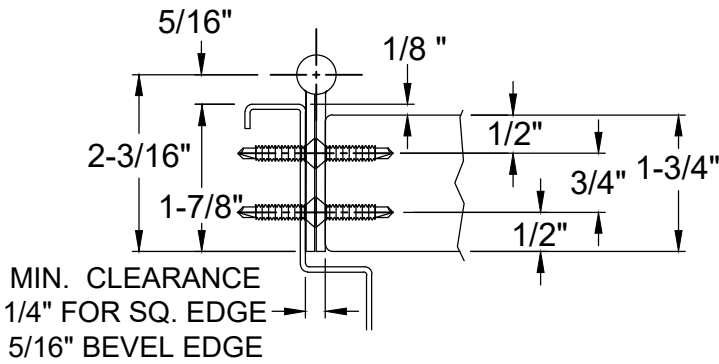
THIS DRAWING IS NOT TO SCALE
A500-TW or EZ OPTION, CONCEALED ELECTRIFICATION-1-02.DWG



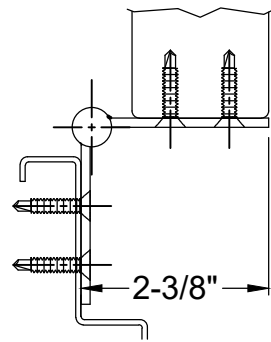
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**A500 - "TW" or "EZ" OPTION
CONCEALED ELECTRIFICATION**

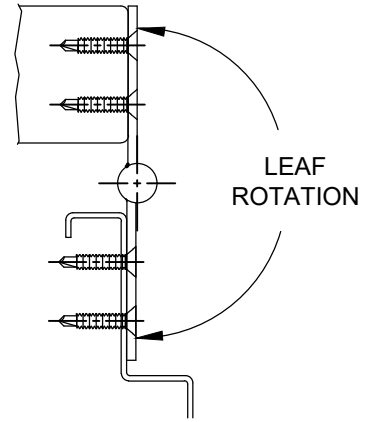
A500 - "TW" or "EZ" OPTION, CONCEALED ELECTRIFICATION, FULL CONCEALED, EDGE MOUNT, STAINLESS STEEL HINGE



CLOSED POSITION
(WIRES NOT SHOWN)

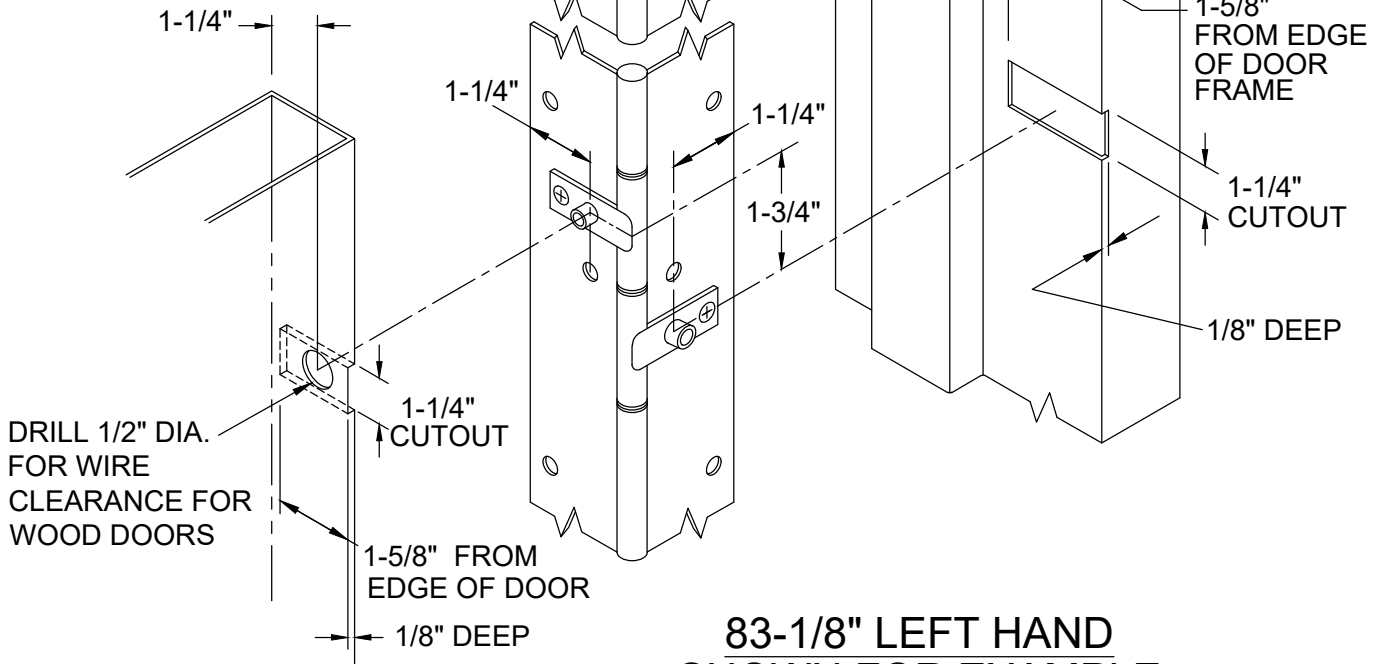
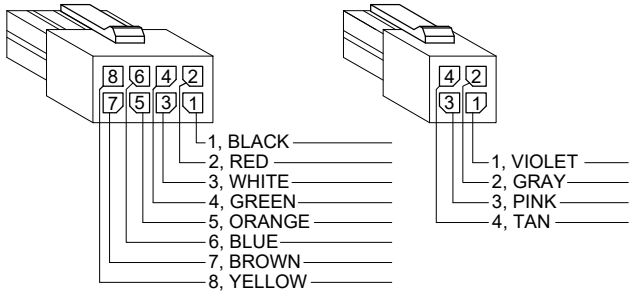


90° OPEN POSITION
(WIRES NOT SHOWN)



180° OPEN POSITION
(WIRES NOT SHOWN)

EZ CONNECT OPTION



83-1/8" LEFT HAND SHOWN FOR EXAMPLE

A500-TW or EZ OPTION, CONCEALED ELECTRIFICATION-2-02.DWG



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A500 - "TW" or "EZ" OPTION
CONCEALED ELECTRIFICATION

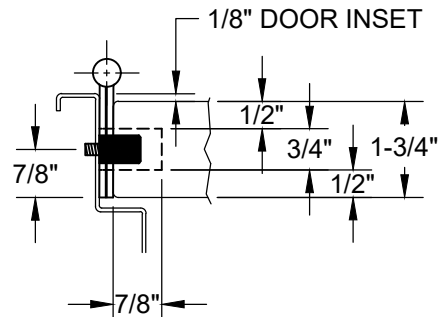
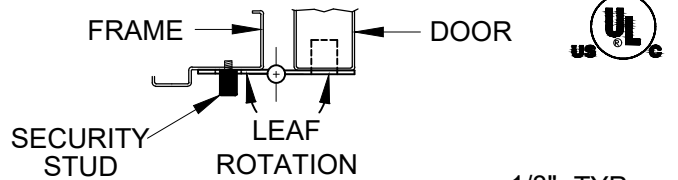
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PAGE 2 OF 2
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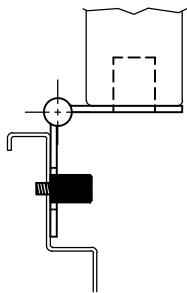
SECURITY "STUD" FOR FULL CONCEALED STAINLESS STEEL HINGES 14 & 12 GA.



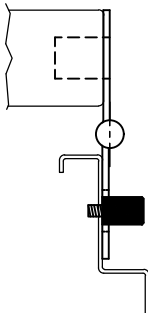
DIMENSION					
"A" HINGE LENGTH	78-3/4"	83-1/8"	85"	95"	118-3/4"
"B"	14-1/2"	14-1/2"	14-1/2"	14-1/2"	14-1/2"
"C"	39-3/8"	38"	32-1/2"	32-1/2"	44-1/2"
"D"	64-1/4"	68-5/8"	62-1/2"	62-1/2"	74-1/4"
"E"	-----	-----	80-1/2"	80-1/2"	104-1/4"



CLOSED POSITION
(A500 HINGE & STUD SHOWN, FOR EXAMPLE)



90° OPEN POSITION
(A500 HINGE & STUD SHOWN, FOR EXAMPLE)



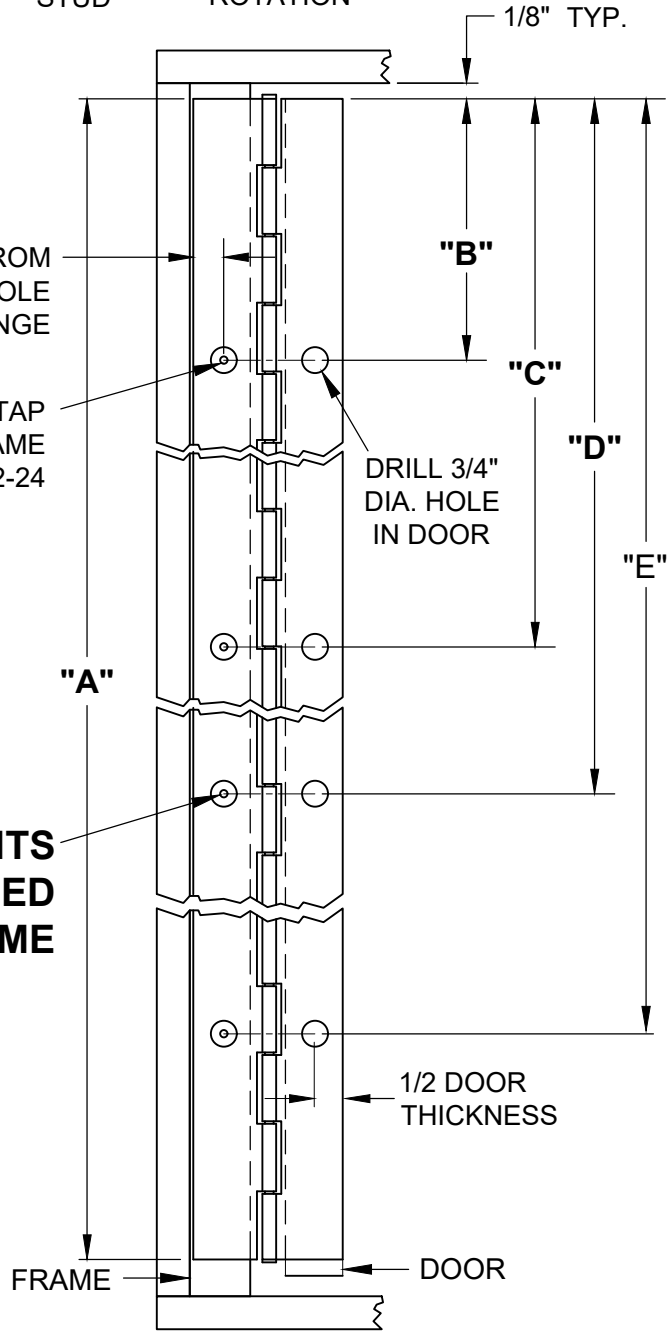
180° OPEN POSITION
(A500 HINGE & STUD SHOWN, FOR EXAMPLE)

7/8" FROM
CENTER OF HOLE
TO EDGE OF HINGE

DRILL & TAP
IN FRAME
12-24

DRILL 3/4"
DIA. HOLE
IN DOOR

**FIRE STUD MOUNTS
ONTO THE THREADED
FRAME**



FRONT VIEW

FOR SECURITY STUD LOCATION
MODEL A500 HINGE SHOWN FOR EXAMPLE

ALL HINGES ARE HANDED



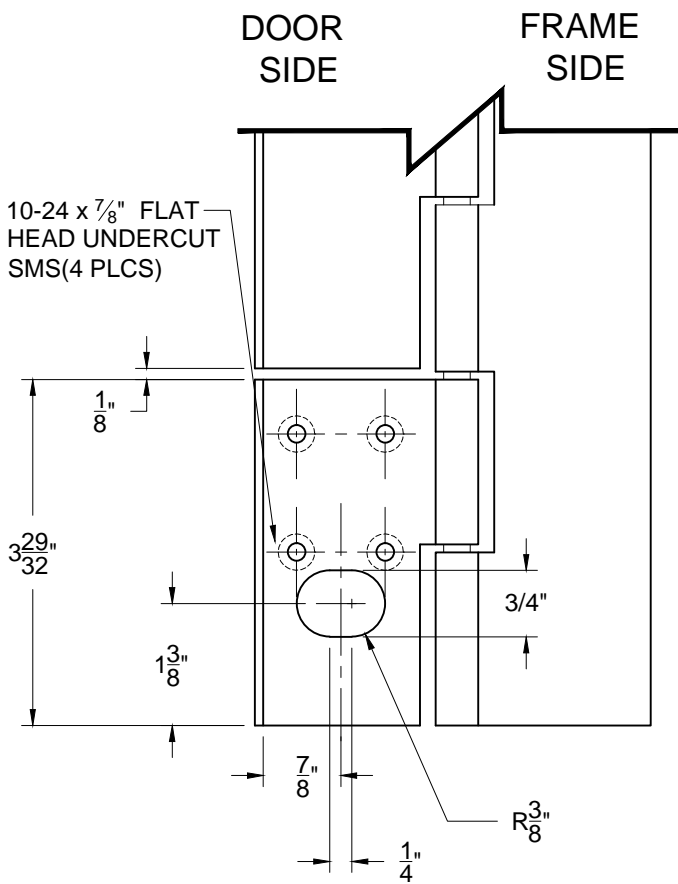
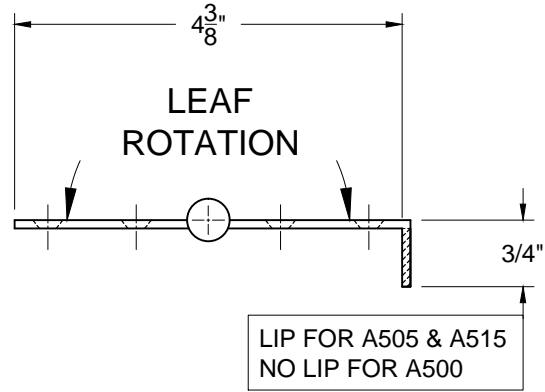
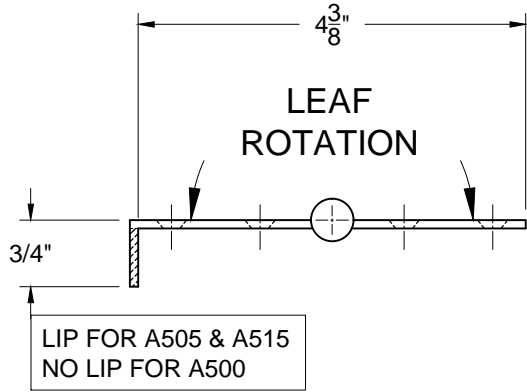
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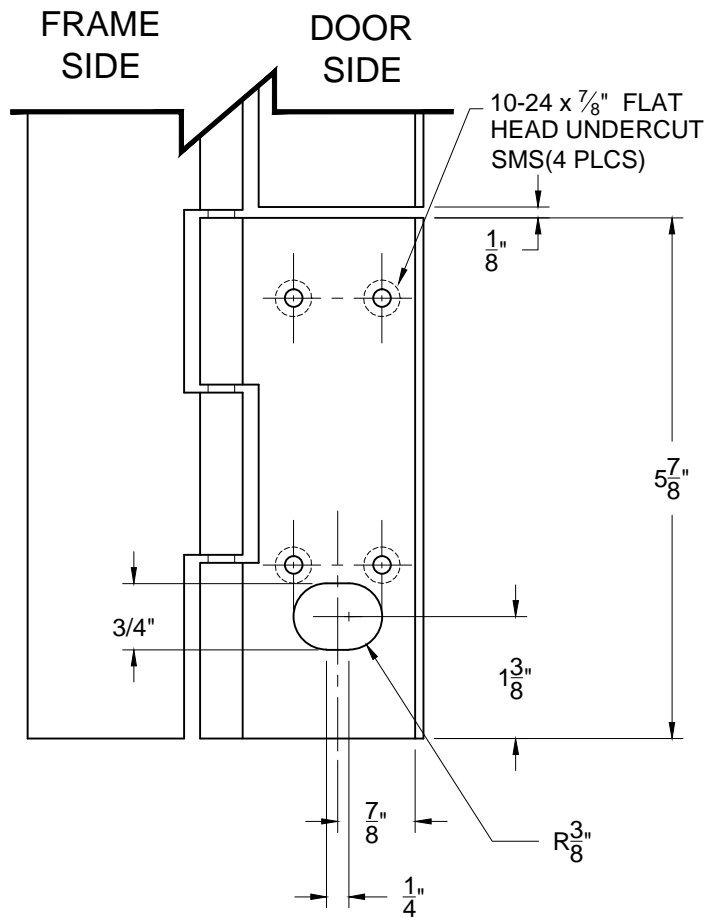
FC SECURITY STUD LOCATION SS-05.DWG
**FULL CONCEALED
SECURITY STUD
LOCATION INSTRUCTIONS**

ISSUED 10-21-20

HINGE WITH 1840 AUTOMATIC DOOR BOTTOM



LEFT HANDED



RIGHT HANDED



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TM-HINGE W-1840 DR BOTTOM-04.DWG
**HINGE W/ 1840
AUTOMATIC
DOOR BOTTOM**
REVISED 06-19-18

A500 FULL CONCEALED HINGE INSTALLATION INSTRUCTIONS

All holes in the door and frame must be drilled correctly. The fasteners must be properly installed. Failure to use the fasteners supplied by ABH will void the UL fire rating.

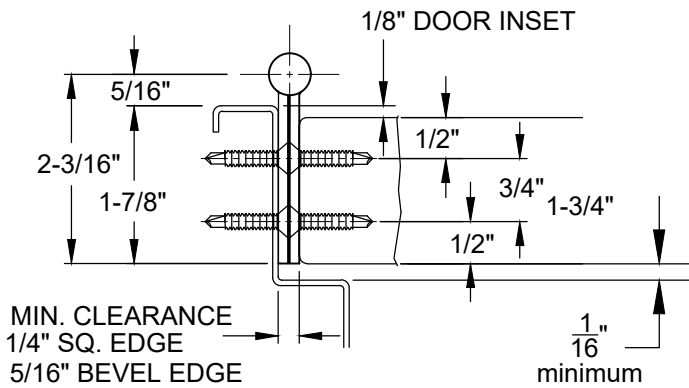


FIG. 1

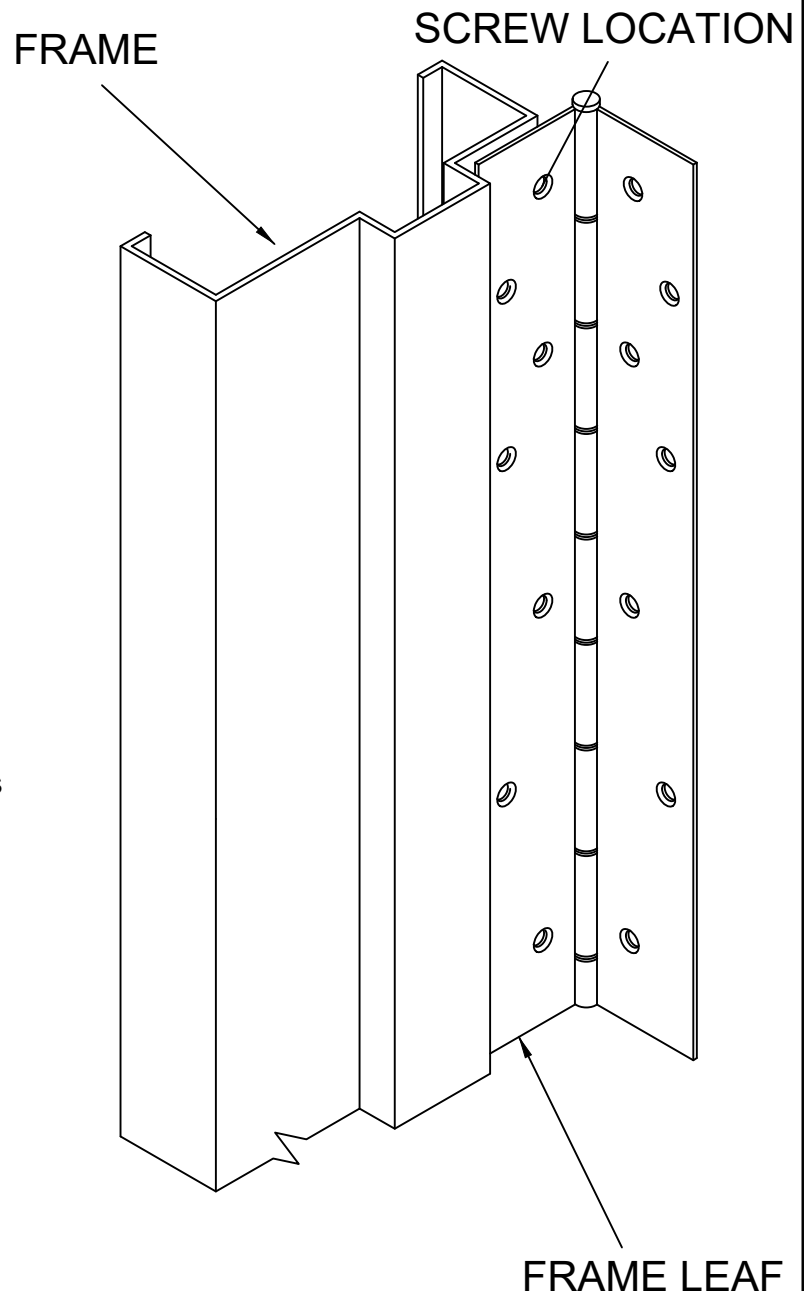
FRAME PREPARATION:

1. Place hinge on the frame as shown in Fig. 2 allowing 1/8" between top of hinge and underside of header. Allow $\frac{1}{16}$ " minimum clearance between hinge and stop (see Fig. 1).
2. Mark and center punch all the screw locations on the frame with the hinge held firmly in place (FIG. 2).
3. Remove hinge and prepare to drill frame.
4. Drill all the holes:
Hollow Metal Frame: Use a #25 bit. If Frame is reinforced Tap the holes for a 10-24 thread.
Wood Frame: Use a 1/8" drill bit.

DO NOT INSTALL HINGE TO FRAME AT THIS TIME

SEE OPPOSITE SIDE FOR DOOR SIDE INSTALLATION

FIG. 2



A500 FULL CONCEALED HINGE INSTALLATION INSTRUCTIONS

DOOR PREPARATION:

1. Place the hinge on the edge of the door. Carefully line up the top of the hinge with the top and back edges of the door.
2. Mark and center punch all the screw locations on the door with the hinge held firmly in place (FIG. 3).

3. Drill all the holes:

Hollow Metal Door: Use a #25 bit. If door is reinforced Tap the holes for a 10-24 thread.

Wood Door: use a 1/8" drill bit.

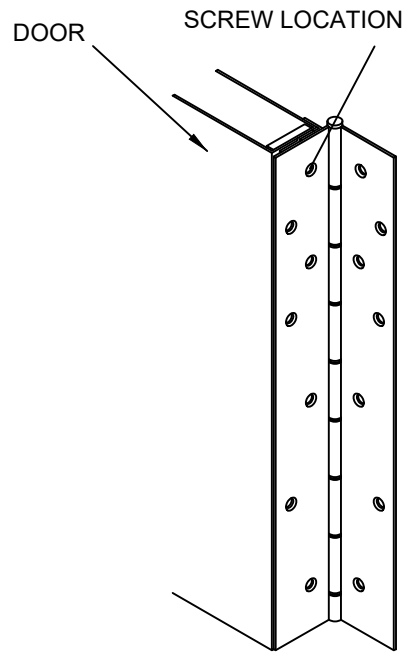


FIG. 3

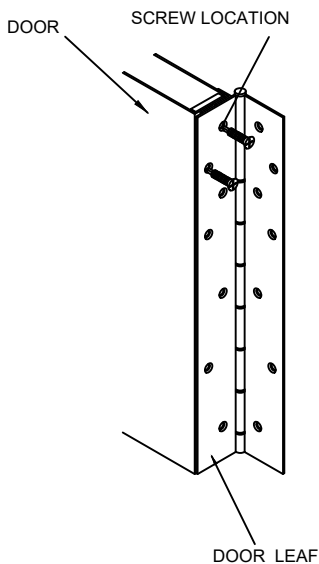


FIG. 4

HINGE INSTALLATION:

1. Attach Hinge to Door (FIG. 4):

Wood Door: use # 10 x 1-1/4" Flat Head, Undercut, Sheet Metal Screw

Metal Door: Use 10-24 x 7/8" Phillips Flat Head, Undercut, Self-Drilling Tek Machine Screw

2. Attach Hinge to Frame (FIG. 5):

Wood Frame: use # 10 x 1-1/4" Flat Head, Undercut, Sheet Metal Screw

Metal Frame: Use 10-24 x 7/8" Phillips Flat Head, Undercut, Self-Drilling Tek Machine Screw

Hospital tips on hinges should be mounted at the top of the door.

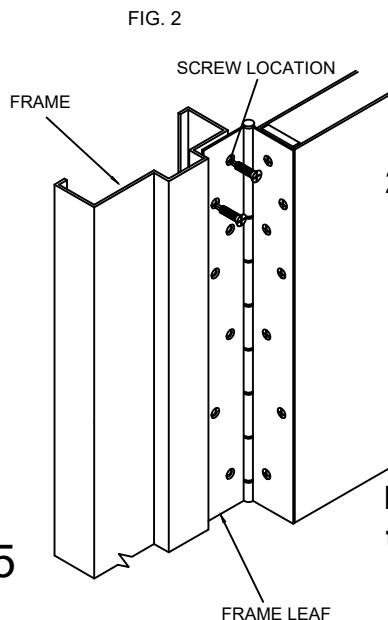
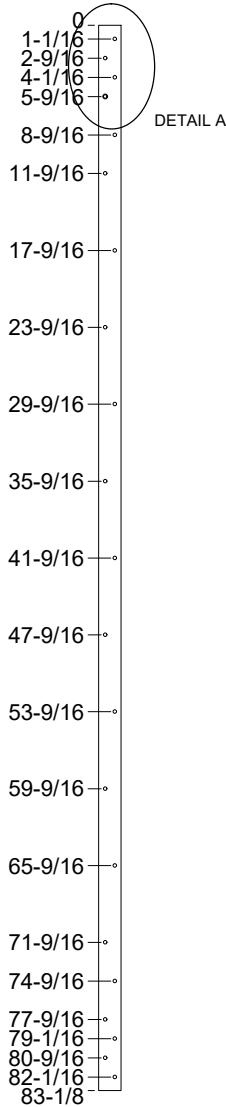


FIG. 5

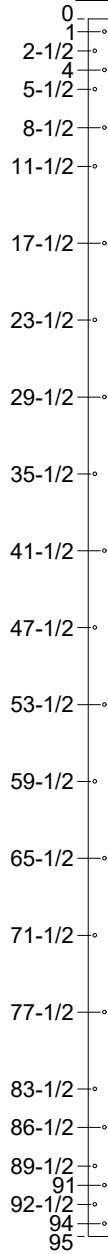
CHS-2, 16GA. STAINLESS STEEL SHIM

83-1/8"

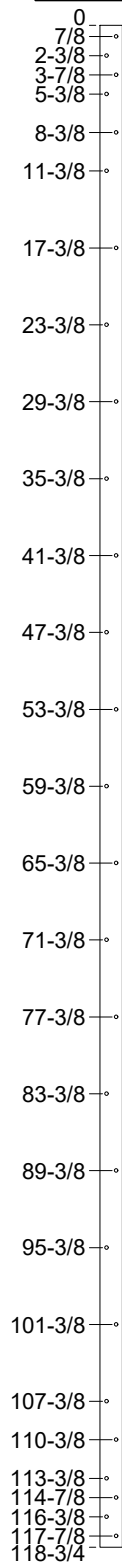


DETAIL A

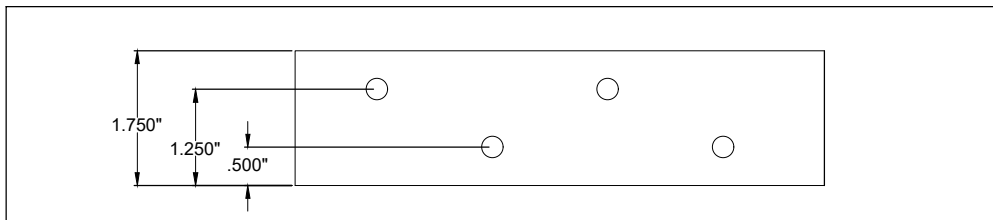
95"



118-3/4"



DETAIL A



MATERIAL: .063 STAINLESS STEEL



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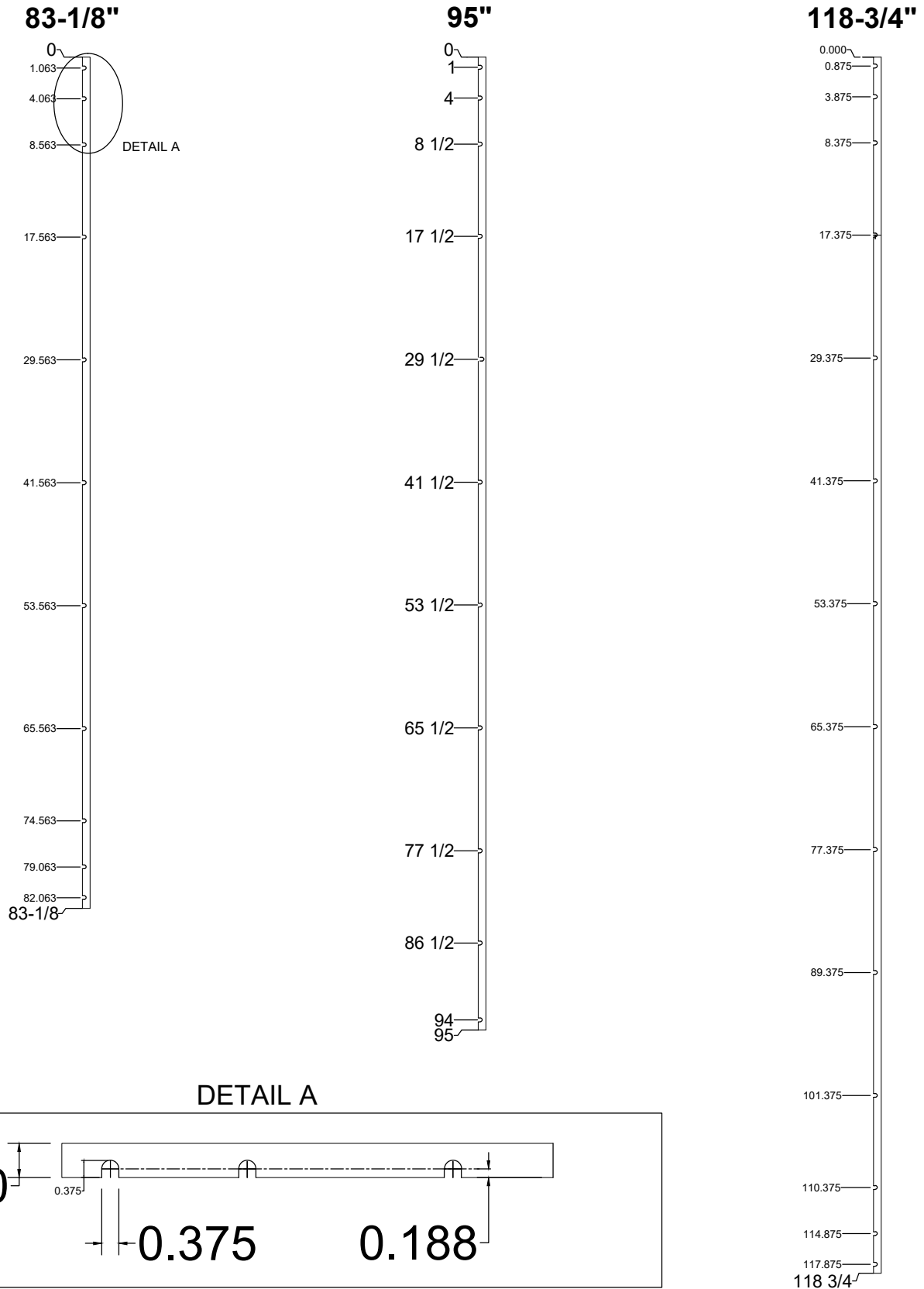
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CHS-2- SHIM-00.DWG

CHS-2
SHIM

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CHS-1, SLIP-IN, 16GA. (1/16") STAINLESS STEEL SHIM



CHS-1-SLIP-IN SHIM-00.DWG



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CHS-1
SLIP-IN SHIM

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