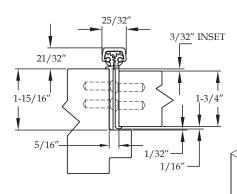
# **Aluminum Continuous Geared Hinges**



### **Full Concealed**



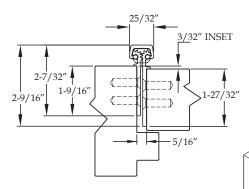


#### **Standard Features**

- Full concealed, heavy duty
- 3/32" door inset
- Door edge protection lip
- For use on 1-3/4" thick door
- 48" door width maximum
- 450 lbs. door weight maximum
- "LL" model for doors up to 1,000 lbs. (lead-lined staggered hole pattern)
- **Fasteners**: 12-24 x 7%" undercut self-drilling, thread-forming tek machine screws
- **Standard lengths**: 79", 83", 85", 95" and 120"
- **Finishes**: Clear, dark bronze and black anodized
- Fire Rating
  - Approved for use on metal swinging type fire doors rated up to and including 90 minutes (Specify "FR" option for 3 hour rating)
  - Approved for use on wood swinging type fire doors rated up to and including 60 minutes (Specify "FR" option for 90 minute rating)

#### **Options Available**

 See pages F-7 to F-8 for option availability and details



#### A260 HD A260 LL

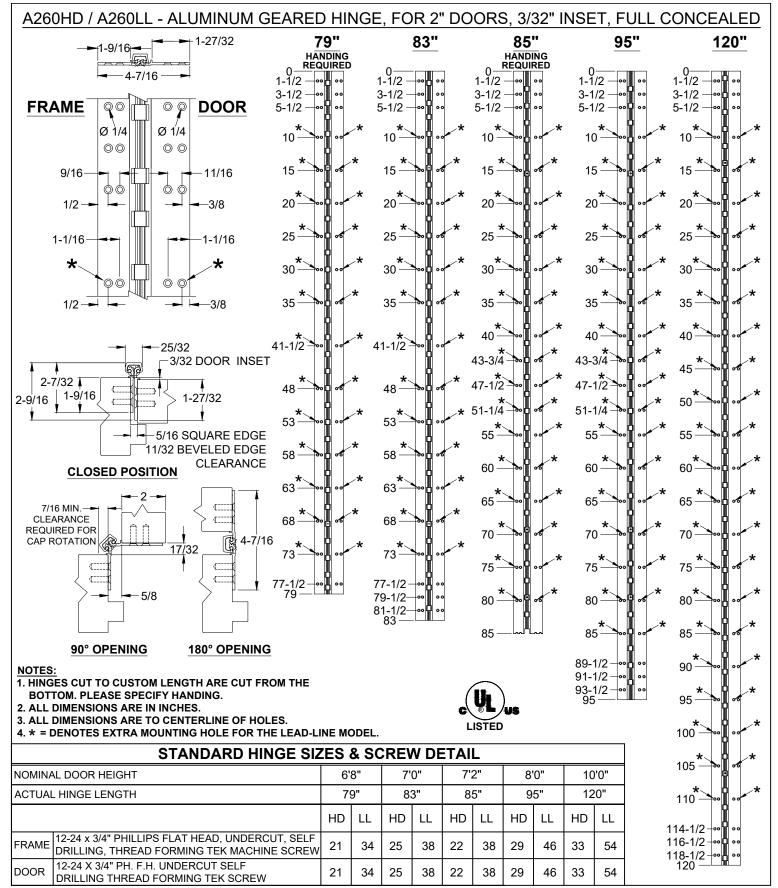
#### Standard Features

- Full concealed, heavy duty
- ¾32" door inset
- For use on 2" thick door
- 48" door width maximum
- 450 lbs. door weight maximum
- "LL" model for doors up to 1,000 lbs. (lead-lined staggered hole pattern)
- **Fasteners**: 12-24 x %" undercut self-drilling, thread-forming tek machine screws
- Standard lengths: 79", 83", 85", 95" and 120"
- **Finishes**: Clear, dark bronze and black anodized
- Fire Rating
  - Approved for use on metal swinging type fire doors rated up to and including 90 minutes (Specify "FR" option for 3 hour rating)
  - Approved for use on wood swinging type fire doors rated up to and including 60 minutes (Specify "FR" option for 90 minute rating)

#### **Options Available**

 See pages F-7 to F-8 for option availability and details







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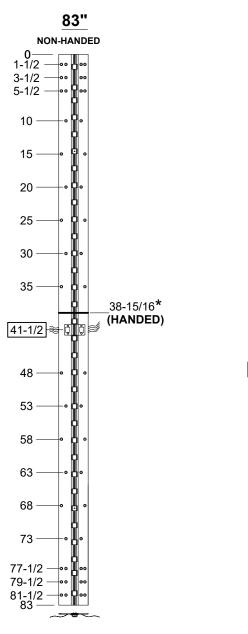
E-mail: abhinfo@abhmfg.com Architectural Builders Hardware Mfg., Inc. 1222 Ardmore Ave., Itasca, IL 60143 630.875.9900; FAX 800.9FAXABH (932.9224) A260-ALUMINUM GEARED HINGE-02.DWG

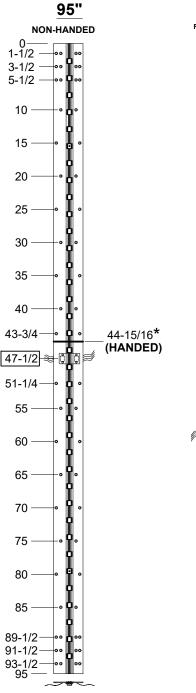
A260 ALUMINUM GEARED HINGE

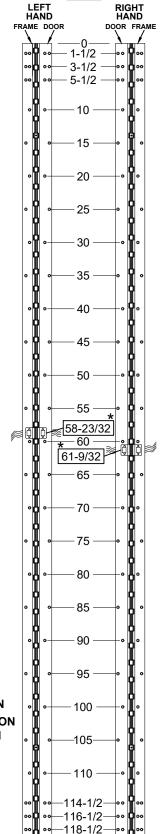
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PAGE 1 OF 1 REVISED 9-10-20

#### A260HD/LL - "EA" OPTION, EASY ACCESS, CONCEALED ELECTRIFICATION, FULL CONCEALED, **ALUMINUM GEARED HINGE**







120"

# 12 WIRE STANDARD

#### NOTES:

1. HINGES CUT TO CUSTOM LENGTH ARE **CUT FROM BOTTOM OF HINGE. CUSTOM CUT HINGE REQUIRES HANDING.** 



us D	=STANDARD LOCATION  * =LL (LEAD LINED) OPTIC (HANDED) LOCATION
CTAIL	

	STANDARD HINGE SIZES & SCREW DE	TAIL	_	
NOMINA	AL DOOR HEIGHT	7'0"	8'0"	10'0"
ACTUAL	_ HINGE LENGTH	83"	95"	120"
FRAME	12-24 x 3/4" PHILLIPS FLAT HEAD, UNDERCUT, SELF DRILLING, THREAD FORMING TEK MACHINE SCREW	24	28	33
DOOR	12-24 x 3/4" PHILLIPS FLAT HEAD, UNDERCUT, SELF DRILLING, THREAD FORMING TEK MACHINE SCREW	24	28	33

A260HD-EA OPTION, EASY ACCESS, CONCEALED ELECTRIFICATION-1-03DWG

MANUFACTURING INC.

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A260HD/LL - "EA" OPTION, EASY ACCESS E-mail: abhinfo@abhmfg.com Architectural Builders Hardware Mfg., Inc.

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PAGE 1 OF 2 **REVISED 08-10-22** 

CONCEALED ELECTRIFICATION

#### A260HD/LL - "EA" OPTION, EASY ACCESS, CONCEALED ELECTRIFICATION, FULL CONCEALED, **ALUMINUM GEARED HINGE** FRAME LEAF DOOR LEAF **CLEARANCE DRILL 3/4"** Ø 1/4 Ø 1/4 THRU-WIRES $\bigcirc$ 0 0 HOLES FOR 9/16 11/16 1/2 -**-**3/8 1-1/16 1-1/1612 WIRE 17/32 5/8 #6 SPANNER FLAT HEAD SECURITY SCREW PROVIDED STANDARD (4 PLACES) LEAF **ROTATION** 25/32 3/32 DOOR INSET **WIRE TRANSFER VIEW** 2-7/32 1-9/16 2-9/16 12 WIRE -5/16 5/8 1-9/16 1-27/32 **CLOSED POSITION** 15/16 1-5/16 ISOMETRIC VIEW 180° OPENING **WIRE TRANSFER VIEW EZ CONNECT OPTION ISOMETRIC VIEW** 7/16 MIN.-**CLEARANCE** ~90° OPENING REQUIRED FOR NOTES: CAP ROTATION 8642 42 1. MOLEX ® CONNECTOR OPTION **3**1 7531 **AVAILABLE - SUFFIX "EZ".** 1, BLACK \* SPECIFY ELECTRIFIED HARDWARE 2, RED 1, VIOLET 5/8 MANUFACTURER FOR CONNECTOR 3, WHITE 4. GREEN -2, GRAY -3. PINK COMPABILITY 5, ORANGE 6, BLUE 7, BROWN 90° OPENING 8, YELLOW **SPECIFICATION: DESCRIPTION:** SINGLE CONDUCTOR #22 AWG MINIATURE HOOK-UP WIRE FOR APPLICATIONS REQUIRING EXTREME FLEXIBILITY. CONDUCTOR:

#22 AWG 168/44 (0.002") SOFT BARE COPPER LHL.

**INSULATION:** PROPRIETARY FORMULATION PVC 0.010" NOM. WALL MEETS

VW-1 FLAME REQUIREMENT.

**DIAMETER:** 0.053" ± 0.003".

16.7 OHMS MAX. @ 20°C, PER 1000 FT. **RESISTANCE:** 

**VOLTAGE RATING: 600 VOLTS RMS, DEPENDING ON SPECIFICATION.** 

AVAILABLE AS ROHS COMPLIANT.



180° OPENING

4-7/16

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**A260HD/LL -** "EA" OPTION, EASY ACCESS E-mail: abhinfo@abhmfg.com Architectural Builders Hardware Mfg., Inc.

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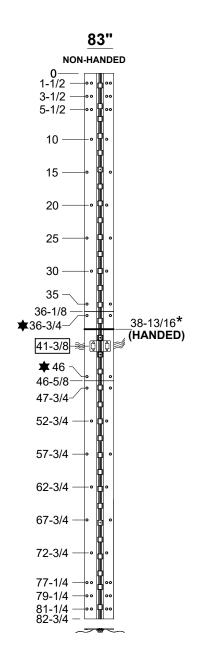
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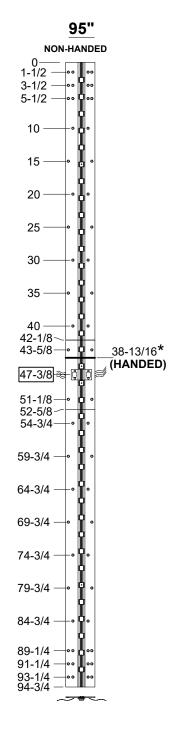
A260HD-EA OPTION, EASY ACCESS, CONCEALED ELECTRIFICATION-2-03.DWG

CONCEALED ELECTRIFICATION

PAGE 1 OF 2 **REVISED 08-10-22** 

#### A260HD/LL - "EA" & "R" ELECTRICAL MODIFICATION WITH REMOVABLE OPTION





LEFT HAND RIGHT HAND FRAME DOOR — 0 − ·1-1/2 3-1/2 5-1/2 10 15 20 25 30 35 40 45 50 53-7/8 54-7/8 58-19/32 **\***61-5/32 Ð**T**Ö 📚 64-7/8 65-7/8 69-3/4 74-3/4 79-3/4 84-3/4 89-3/4 94-3/4 99-3/4 104-3/4 109-3/4 114-1/4 116-1/4

120"

#### NOTES:

#### 12 WIRE STANDARD

1. HINGES CUT TO CUSTOM LENGTH ARE CUT FROM BOTTOM OF HINGE. CUSTOM CUT HINGE REQUIRES HANDING.



R = REMOVABLE, (3) INDIVIDUAL HINGES, THRU WIRE CAN BE REMOVED TO ACCESS WIRES.

★ = MANUFACTURING TO ADD (4) COUNTERSINK THRU HOLES FOR #12 FLAT HEAD SCREW.

	STANDARD HINGE SIZES & SCREW DETAIL									
NOMINA	AL DOOR HEIGHT	7'0"	8'0"	10'0"						
	ACTUAL HINGE LENGTH									
FRAME	12-24 x 3/4" PHILLIPS FLAT HEAD, UNDERCUT, SELF DRILLING, THREAD FORMING TEK MACHINE SCREW	26	28	32						
DOOR	12-24 x 3/4" PHILLIPS FLAT HEAD, UNDERCUT, SELF DRILLING, THREAD FORMING TEK MACHINE SCREW	26	28	32						

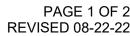
=STANDARD LOCATION

\* =LL (LEAD LINED) OPTION
(HANDED) LOCATION

A260HD-EA & R, ELECTRICAL MODIFICATION WITH REMOVABLE OPTION-1-02.DWG

**A260HD/LL -** "EA" & "R" ELECTRICAL MODIFICATION WITH REMOVABLE OPTION







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#### A260HD/LL - "EA" & "R" ELECTRICAL MODIFICATION WITH REMOVABLE OPTION FRAME LEAF DOOR LEAF $\mathbb{Q} \mathbb{O}$ **CLEARANCE DRILL 3/4"** Ø 1/4 Ø 1/4 **THRU-WIRES** 00 $\bigcirc$ HOLES FOR 9/16 11/16 1/2 -3/8 1-1/16 1-1/16 12 WIRE -17/32 5/8 -0 0 #6 SPANNER FLAT HEAD SECURITY SCREW PROVIDED STANDARD (4 PLACES) **LEAF** 25/32 ROTATION 3/32 DOOR INSET **WIRE TRANSFER VIEW** 2-7/32 1-9/16 2-9/16 1-27/32 12 WIRE 5/16 5/8 17/32 1-9/16 1-27/32 **CLOSED POSITION** 15/16 1-5/16 ISOMETRIC VIEW 180° OPENING **WIRE TRANSFER VIEW EZ CONNECT OPTION** ISOMETRIC VIEW 7/16 MIN.— CLEARANCE ~90° OPENING REQUIRED FOR NOTES: **CAP ROTATION** 8642 42 1. MOLEX ® CONNECTOR OPTION 7990 **3 AVAILABLE - SUFFIX "EZ".** └1, BLACK \* SPECIFY ELECTRIFIED HARDWARE MANUFACTURER FOR CONNECTOR 2, RED 3, WHITE 1. VIOLET 5/8 2, GRAY COMPABILITY 4, GREEN 3, PINK 5, ORANGE 6. BLUE 7, BROWN



180° OPENING

90° OPENING

#### SPECIFICATION:

DESCRIPTION: SINGLE CONDUCTOR #22 AWG MINIATURE HOOK-UP

WIRE FOR APPLICATIONS REQUIRING EXTREME FLEXIBILITY.

8, YELLOW

A260HD-EA & R. ELECTRICAL MODIFICATION WITH REMOVABLE OPTION-2-02.DWG

CONDUCTOR: #22 AWG 168/44 (0.002") SOFT BARE COPPER LHL.

INSULATION: PROPRIETARY FORMULATION PVC 0.010" NOM. WALL MEETS

VW-1 FLAME REQUIREMENT.

DIAMETER: 0.053" ± 0.003".

RESISTANCE: 16.7 OHMS MAX. @ 20°C, PER 1000 FT.

**VOLTAGE RATING: 600 VOLTS RMS, DEPENDING ON SPECIFICATION.** 

**AVAILABLE AS ROHS COMPLIANT.** 



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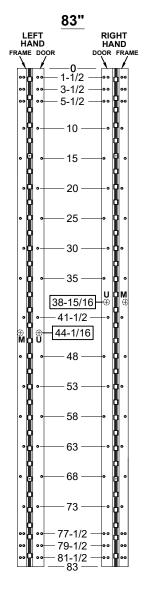
**A260HD/LL -** "EA" & "R" ELECTRICAL MODIFICATION

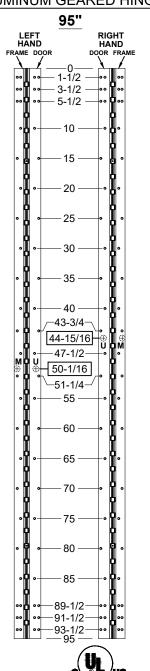
WITH REMOVABLE OPTION

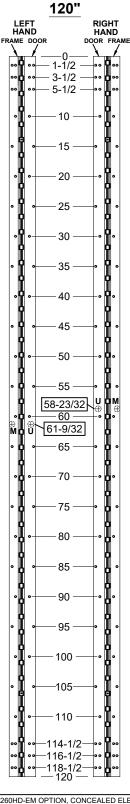
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PAGE 2 OF 2 REVISED 08-22-22

#### A260HD - "EM" OPTION, CONCEALED ELECTRIFICATION, FULL CONCEALED, ALUMINUM GEARED HINGE







#### M = MONITOR SWITCH SIDE U = MAGNET SIDE

	STANDARD HINGE SIZES & SCREW DETAIL									
NOMINA	AL DOOR HEIGHT	7'0"	8'0"	10'0"						
ACTUA	L HINGE LENGTH	83"	95"	120"						
FRAME	12-24 x 3/4" PHILLIPS FLAT HEAD, UNDERCUT, SELF DRILLING, THREAD FORMING TEK MACHINE SCREW	25	29	33						
DOOR	12-24 x 3/4" PHILLIPS FLAT HEAD, UNDERCUT, SELF DRILLING, THREAD FORMING TEK MACHINE SCREW	25	29	33						

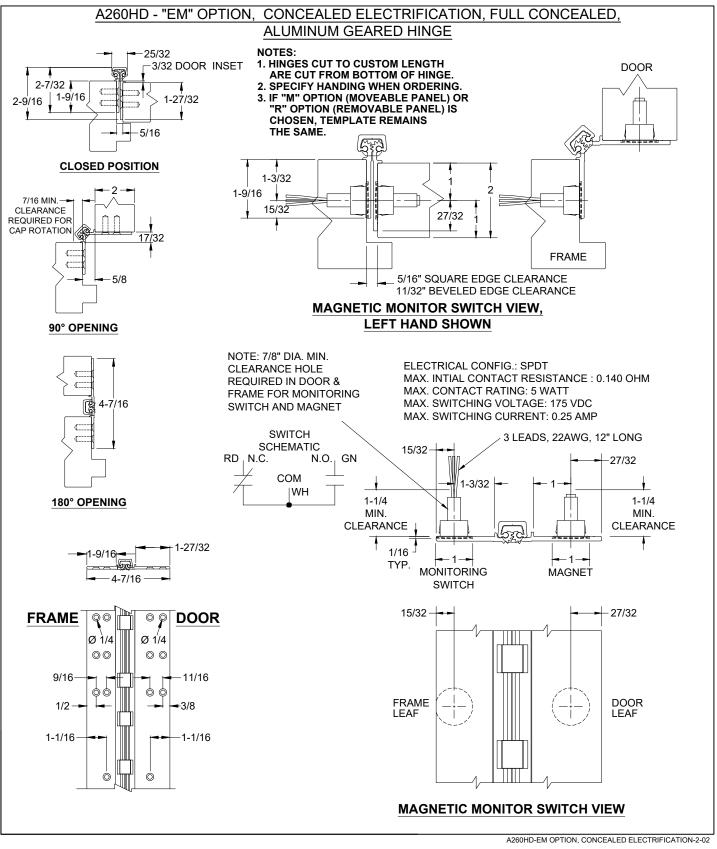
A260HD-EM OPTION, CONCEALED ELECTRIFICATION-1-02



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A260HD - "EM" OPTION **CONCEALED ELECTRIFICATION** 

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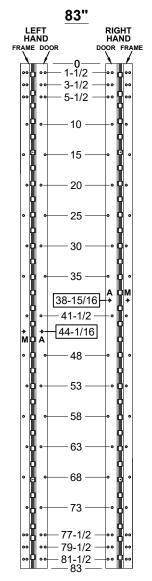
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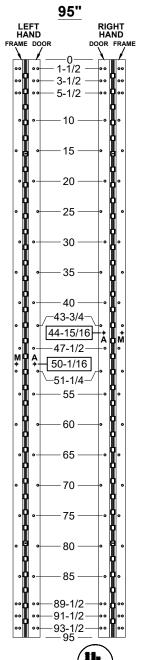
A260UD "ENA" ORTION

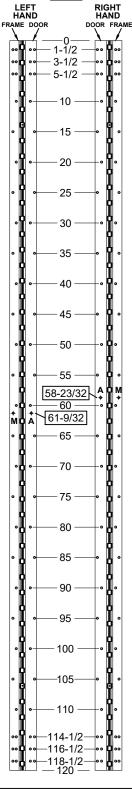
**A260HD -** "EM" OPTION CONCEALED ELECTRIFICATION

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# A260HD - "ES" OPTION, CONCEALED ELECTRIFICATION, FULL CONCEALED, ALUMINUM GEARED HINGE







120"

M = MONITOR SWITCH SIDE A = ADJUSTMENT SCREW SIDE

	STANDARD HINGE SIZES & SCREW DETAIL									
NOMINA	AL DOOR HEIGHT	7'0"	8'0"	10'0"						
ACTUAL	HINGE LENGTH	83"	95"	120"						
FRAME	12-24 x 3/4" PHILLIPS FLAT HEAD, UNDERCUT, SELF DRILLING, THREAD FORMING TEK MACHINE SCREW	25	29	33						
	12-24 x 3/4" PHILLIPS FLAT HEAD, UNDERCUT, SELF	25	29	33						

A260HD-ES OPTION, CONCEALED ELECTRIFICATION-1-02

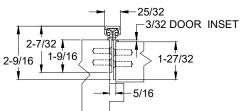


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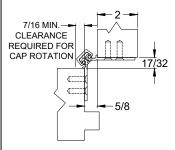
**A260HD -** "ES" OPTION CONCEALED ELECTRIFICATION

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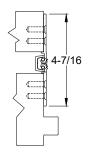
# A260HD - "ES" OPTION, CONCEALED ELECTRIFICATION, FULL CONCEALED, ALUMINUM GEARED HINGE



# CLOSED POSITION



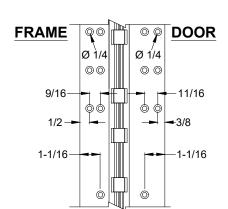
90° OPENING



180° OPENING

1-9/16+

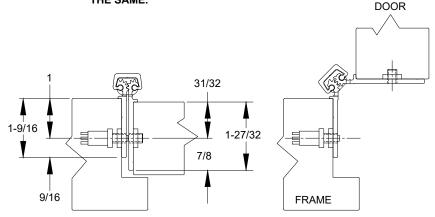
4-7/16



1-27/32

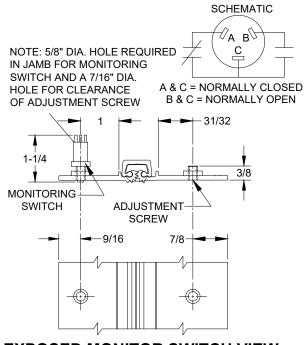
#### NOTES:

- 1. HINGES CUT TO CUSTOM LENGTH ARE CUT FROM BOTTOM OF HINGE.
- 2. SPECIFY HANDING WHEN ORDERING.
- 3. IF "M" OPTION (MOVEABLE PANEL) OR "R" OPTION (REMOVABLE PANEL) IS CHOSEN, TEMPLATE REMAINS THE SAME.



#### **EXPOSED MONITOR SWITCH VIEW, LEFT HAND SHOWN**

**SWITCH** 



**EXPOSED MONITOR SWITCH VIEW** 

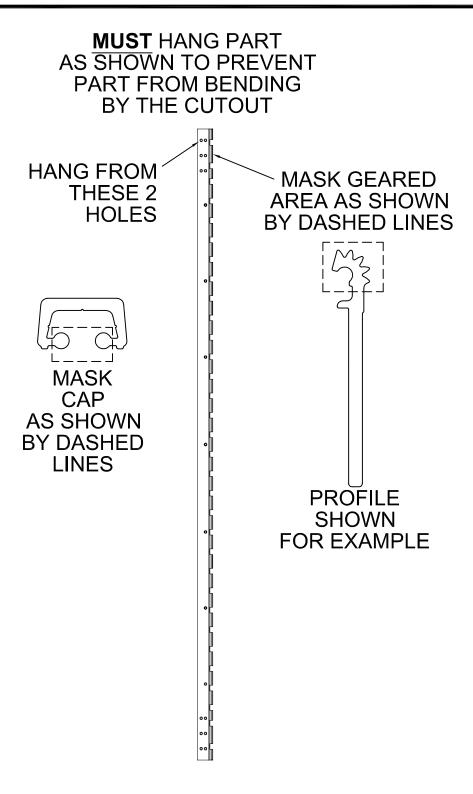


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**A260HD -** "ES" OPTION CONCEALED ELECTRIFICATION

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# POWDER COAT MASKING





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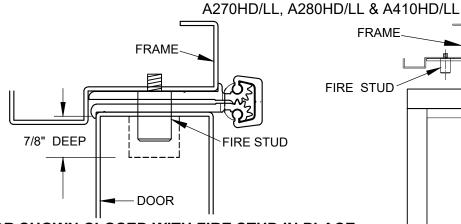
POWDER COAT MASKING-00.DWG

## **UL FIRE RATED STUDS FOR INSTALLATION FULL CONCEALED ALUMINUM GEARED HINGES**

MODELS A110HD/LL, A111HD/LL, A140HD/LL, A150HD/LL, A160HD/LL, A240HD/LL, A260HD/LL

FRAME.

FIRE STUD



DOOR SHOWN CLOSED WITH FIRE STUD IN PLACE **USING MODEL A240HD HINGE** 

#### NOTES:

- 1. INSTALL HINGE PER INSTALLATION INSTRUCTIONS FOR EACH MODEL.
- 2. FOR THE FRAME SIDE DRILL AND TAP (4) 12-24 HOLES FOR FIRE STUDS.
- 3. FOR THE DOOR SIDE DRILL (4) 3/4" DIA. HOLES IN THE DOOR TO CORRESPOND TO THE STUD HOLES IN THE FRAME SIDE.
- 4. INSERT STUDS IN THE FOUR (4) TAPPED FRAME HOLES, TIGHTEN SECURELY.
- 5. SLOWLY CLOSE DOOR MAKING SURE THAT THE STUDS ARE PROPERLY ALIGNED.
- 6. MINOR INTERFERENCE CAN BE TAKEN CARE OF WITH A ROUND METAL FILE.

	DIMENSION											
"A" HINGE LENGTH	79"	83"	95"	120"								
"B"	12"	12"	12"	12"	12"							
"C"	25-3/8"	27-3/8"	28-3/8"	32-3/8"	42-1/2"							
"D"	53-5/8"	55-5/8"	56-5/8"	62-5/8"	77-1/2"							
"E"	67"	71"	73"	83"	108"							

ON THE FRAME, DRILL AND TAP (4)12-24 HOLES

1/2 THE DOOR THICKNESS + 1/32" FROM CENTER OF HOLE TO EDGE OF FRAME

ALL FOUR (4) STUDS MUST BE INSTALLED TO COMPLY WITH U.L. RATING

**DOOR SHOWN OPEN 180°** FIRE STUD - FULL CONCEALED-03.DWG

DOOR

В

C

G OF BEARING

7/8" DEEP

-%" STD.

**CLEARANCE** 

Α



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FRAME

FIRE STUD -**FULL CONCEALED** 

**DOOR** 

½ DOOR THICKNESS

ON THE DOOR DRILL (4) 3/4" DIA.

HOLES

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PAGE 1 OF 1 **REVISED 11-22-21** 



#### **ABH Manufacturing Inc.**

1222 Ardmore Avenue Itasca, IL 60143

Ph: (630)875-9900 Fax: (800) 932-9224

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#### ANSI/BHMA A156.26-2017 Certified Continuous Hinges

Edge Mounted-Barrel Type-Stainless Steel-Grade 1

ABH Model Number(s): A500, A505, A515

Edge Mounted-Gear Type-Aluminum-Grade 1

ABH Model Number(s): A110(HD/LL), A110WT(HD/LL), A111(HD/LL), A111WT(HD/LL), A130HD, A140(HD/LL), A150(HD/LL), A160(HD/LL), A240(HD/LL), A260(HD/LL), A270(HD/LL), A410(HD/LL)

Full Surface Mounted-Barrel Type-Stainless Steel-Grade 1

ABH Model Number(s): A502, A512

Full Surface Mounted- Gear Type- Aluminum-Grade 1

ABH Model Number(s): A210HD, A570HD, A571HD

Half-Surface Mounted-Barrel Type-Stainless Steel-Grade 1

ABH Model Number(s): A503

Half-Surface Mounted- Gear Type- Aluminum-Grade 1

ABH Model Number(s): A211HD, A213HD, A450HD, A460HD, A530HD, A540HD, A550HD

Half Mortise Mounted-Barrel Type-Stainless Steel-Grade 1

ABH Model Number(s): A504, A506

Half Mortise Mounted- Gear Type- Aluminum-Grade 1

ABH Model Number(s): A520HD

Swing Clear Edge Mounted-Barrel Type-Stainless Steel-Grade 1

ABH Model Number(s): A510, A511, A526, A529

Swing Clear Edge Mounted- Gear Type- Aluminum-Grade 1

ABH Model Number(s): A410(HD/LL), A211HD

HD-denotes Heavy Duty Hinge

LL-denotes Heavy Duty hinge with extra screw holes to accommodate the lead in lead lined doors

#### INSTALLATION INSTRUCTIONS FOR FULL CONCEALED HINGES

A110HD/LL, A111HD/LL, A130HD, A135HD, A140HD/LL, A150HD/LL, A160HD/LL A240HD/LL, A260HD/LL, A270HD/LL, A280HD/LL & A410HD/LL

- A. All uncut standard length hinges are non-handed and can be used for right or left hand doors.
- B. Standard length hinges are supplied slightly shorter than nominal door height to accommodate threshold and carpeting clearances.

#### **CUTTING THE HINGE TO FIT**

- Keep hinge in the closed position
- Determine HANDING if required. Not all hinges will become handed after cutting.
- Cut one end of the hinge only. Cut end will be installed at the bottom (Six-hole pattern remains at the top)
- Use a Metal Cutting Saw cut through the gear cap first.

Note: If cut length interferes with a set screw bearing remove it and switch it with a plain bearing above the cut location.

#### **FRAME PREP**

With the hinge in the open position

1. Locate the top of the hinge 1/8" below the header

With the frame leaf flange tight against the frame

2. Mark or Center Punch hole locations

Note: If using wood screws drill a 5/32" pilot hole

DO NOT ATTACH HINGE TO FRAME AT THIS TIME

#### ATTACH THE HINGE TO THE DOOR

- 4. Position Door Leaf on door. Door leaf alignment flange or door leaf lip must be seated against door edge.
- 5. Align the top end of the hinge to be absolutely flush with the top of the door.
- 6. Mark or Center Punch hole locations
- 7. Using the provided Self Drilling/Thread Forming Screws and the proper drive bit please proceed to attach the hinge to the door **Note:** If using wood screws drill a 5/32" pilot hole.

#### ATTACHING DOOR TO FRAME

- 8. Position door 90 degrees to frame
- 9. Shim door to the proper height to line up the screw holes in hinge frame leaf with the marks at the top of the frame.
- 10. Install two screws at the top of the hinge to hold in place
- 11. Remove shim and align the remaining holes. Install two additional screws in the middle and at the bottom.
- 12. Check door for proper swing and clearance before installing remaining screws, making necessary adjustments.
- 13. Install the remaining fasteners after any adjustments are made.

#### **REINFORCING AND RIVNUTS**

- No reinforcing is necessary except on extremely high-frequency, extremely heavy or extra-wide doors.
- Rivnuts are recommended for use in the frame when the door exceeds 450lbs.

Note:RIVNUTS are not to be used with Fire Rated Hinges

#### PAIRS OF DOORS WITH MULLIONS

- If the mullion is between the doors, install as single doors.
- If the mullion is behind the doors, install as a double doors.

#### **GROUT/SLUSHED-IN FRAMES**

It is recommended that a mudguard be installed behind the frame for ease of installation. Do not use self-drill screws with grouted steel frames without a mudguard. If no mudguard has been used, drill holes through frame and remove grout for screw clearances. Do not oversize hole.

	SCREW DETAIL
FRAME	12-24 x 3/4" PHILLIPS FLAT HEAD, UNDERCUT, SELF DRILLING, THREAD FORMING TEK MACHINE SCREW
DOOR	12-24 x 3/4" PHILLIPS FLAT HEAD, UNDERCUT, SELF DRILLING, THREAD FORMING TEK MACHINE SCREW

Note: #12 x 1-1/2" FLAT HEAD UNDERCUT WOOD SCREWS AVAILABLE UPON REQUEST

The following actions will void any warranty, expressed or implied.

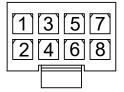
- Failure to Install the hinge according to ABH's specifications and requirements
- Use of Fasteners other than those supplied with the hinge.
- Unauthorized field modifications including removing any of the bearings, altering the original finish or painting the hinge.



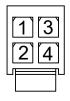
www.abhmfg.com E-mail: abhinfo@abhmfg.com Architectural Builders Hardware Mfg., Inc. 1222 Ardmore Ave., Itasca, IL 60143 630,875,9900; FAX 800,9FAXABH (932,9224) FM INSTALLATION-05.DWG FULL CONCEALED INSTALLATION INSTRUCTIONS PAGE 1 OF 1 REVISED 9-17-20

# ABH EZ CONNECT WIRE COLOR & POSITION STANDARD FOR MOLEX®MICRO-FIT 3.0 CONNECTOR

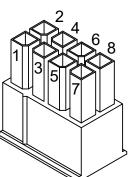
#### (TERMINAL INSERTION END SHOWN)



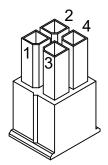
- 1: BLACK
- 2: RED
- 3: WHITE
- 4: GREEN
- 5: ORANGE
- 6: BLUE
- 7: BROWN
- 8: YELLOW



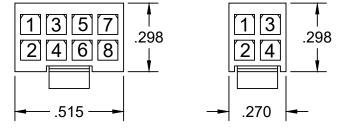
- 1: VIOLET
- 2: GREY
- 3: PINK
- 4: TAN



8-PIN HOUSING WIRE POSITION



4-PIN HOUSING WIRE POSITION



#### NOTE:

ABH CAN MATCH ANY MANUFACTURERS WIRE COLOR POSITION

#### **AVAILABLE ON**

- STAINLESS STEEL CONTINUOUS HINGE
- ALUMINUM CONTINUOUS HINGES
- POWER TRANSFER UNITS
- PIVOTS
- ABH MORTISE LOCKS

CONNECTORS COMPATIBLE WITH CONNECTORS ON ASSA ABLOY PRODUCTS\*

\*BRAND NAMES ARE TRADEMARKS OR REGISTERED TRADEMARKS OF THEIR RESPECTIVE COMPANIE

PT1000EZ WIRE COLOR-ASSA ABLOY-06.DW



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EZ CONNECT WIRE COLOR & POSITION STANDARD FOR MOLEX®CONNECTOR

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# **Aluminum Continuous Geared Hinges**



# Door Clearance Chart **Squared Edge**

Single Door - Squared Edged										
Hinge Model		Hinge Thickness	+	Lock Side Clearance	+	*Frame // Irregularity (OPTIONAL)	=	Square Edged Door Undersized (Single)		
Full Concealed	A110, A110WT, A111 A111WT, A120,A140, A150, A160, A240, A260, A270, A410	5/16"	+	1/8"	+	1/32"	=	15/32"		
	A130, A135	13/16"	+	1/8"	+	1/32"	=	31/32"		
Half Surface	A211, A213, A450, A460, A520, A530, A540, A550	3/16"	+	1/8"	+	1/32"	=	11/32"		
Full Surface	A210, A570, A571, A575	1/16"	+	1/8"	+	1/32"	=	7/32"		

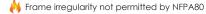
Single Door

Pair of Doors



Pair of Doors - Squared Edged										
Hinge Model		Hinge Thickness (Pair)	+	Lock Side Clearance	+	*Frame // Irregularity (OPTIONAL)	=	Square Edged Door Undersized (Pair)		
Full Concealed	A110, A110WT, A111 A111WT, A120, A140, A150, A160, A240, A260, A270, A410	5/8"	+	1/8"	+	1/16"	=	13/16"		
	A130, A135	1-5/8"	+	1/8"	+	1/16"	=	1-13/16"		
Half Surface	A211, A213, A450, A460, A520, A530, A540, A550	1/4"	+	1/8"	+	1/16"	=	7/16"		
Full Surface	A210, A570, A571, A575	1/8"	+	1/8"	+	1/16"	=	5/16"		

<sup>\* 1/16&</sup>quot; Frame Irregularity Allowance, Optional and included in all Total Door Undersize for single and pairs of doors



# **Aluminum Continuous Geared Hinges**

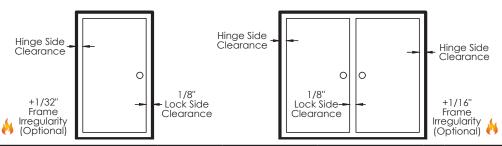


# Door Clearance Chart **Beveled Edge**

Single Door - Beveled Edged											
Hinge Model		Hinge Thickness	+	Lock Side Clearance	+	* Frame () Irregularity (OPTIONAL)	+	Beveled Door Clearance	=	Beveled Edged Door Undersized (Single)	
Full Concealed	A110, A110WT, A111 A111WT, A120,A140, A150, A160, A240, A260, A270, A410	5/16"	+	1/8"	+	1/32"	+	1/32"	=	1/2"	
	A130, A135	13/16"	+	1/8"	+	1/32"	+	1/32"	=	1"	
Half Surface	A211, A213, A450, A460, A520, A530, A540, A550	3/16"	+	1/8"	+	1/32"	+	1/32"	=	3/8"	
Full Surface	A210, A570, A571, A575	1/16"	+	1/8"	+	1/32"	+	N/A	=	7/32"	

Single Door

Pair of Doors



Pair of Doors - Beveled Edged											
Hinge Model		Hinge Thickness (Pair)	+	Lock Side Clearance	+	* Frame () Irregularity (OPTIONAL)	+	Beveled Door Clearance	=	Beveled Edged Door Undersized (Pair)	
Full Concealed	A110, A110WT, A111 A111WT, A120, A140, A150, A160, A240, A260, A270, A410	5/8"	+	1/8"	+	1/16"	+	1/16"	=	7 <sub>8</sub> "	
	A130, A135	1-5/8"	+	1/8"	+	1/16"	+	1/16"	=	1-%"	
Half Surface	A211, A213, A450, A460, A520, A530, A540, A550	1/4"	+	1/8"	+	1/16"	+	N/A	=	7/16"	
Full Surface	A210, A570, A571, A575	1/8"	+	1/8"	+	1/16"	+	N/A	=	5/16"	

<sup>\* 1/16&</sup>quot; Frame Irregularity Allowance, Optional and included in all Total Door Undersize for single and pairs of doors



# **EA THRU-WIRE REPLACEMENT INSTRUCTIONS**

## **Removal of Old Wires**

- 1. Turn off Power to avoid shock.
- 2. Remove (4) #6 Spanner Flat Head Screws from the covers on the face of each hinge leaf.



3. Remove (2) covers to expose the wires.



4. Pull wires through opening and disconnect from power source and electrified hardware.





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EA THRU-WIRE

EA THRU-WIRE

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REPLACEMENT
PAGE 1 OF 2
ISSUED 03-30-22

# **EA THRU-WIRE REPLACEMENT INSTRUCTIONS**

### **Installation of New Wire Ribbon**

All wire connections must follow local codes and/or ABH Manufacturing's Minimum Requirements\*\* to ensure proper and lasting connections

\*\*ABH requires the use of wire nuts and electrical tape or Crimp Connectors when connecting wires to their source or supplied EZ Connectors

- 1. Connect wire to the power source (FRAME SIDE) and pass wires back through hinge and frame opening.
- 2. Connect wires on DOOR side to electrified hardware and pass wires back through the hinge and door opening.
- 3. Excess Wire Ribbon should then be folded into the void of the cap.



TO



4. Once wires are properly connected, line up the Thru-Wire Face plate gears and fasten with (4) #6 Spanner Flat Head Screws, making sure the plates sit flush to the face of the hinge leafs.



5. Turn Power back on



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