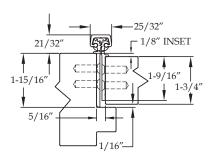
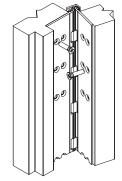
Aluminum Continuous Geared Hinges



Full Concealed





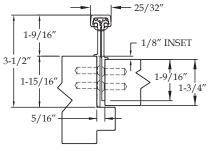
A111 HD A111 LL

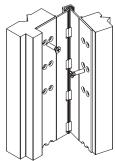
Standard Features

- Full concealed, heavy duty
- 1/8" door inset
- 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





A111 WT

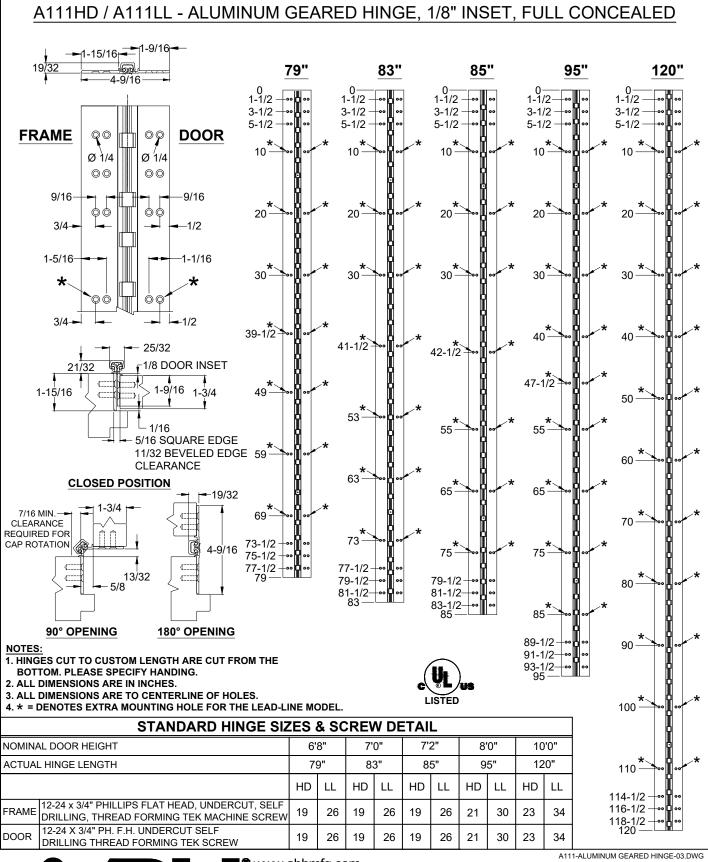
Standard Features

- Full concealed, heavy duty
- 1/8" door inset
- Wide throw for applications that need extra clearance for the door or the frame
- 48" door width maximum
- 450 lbs. door weight maximum
- **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 modification availability and details







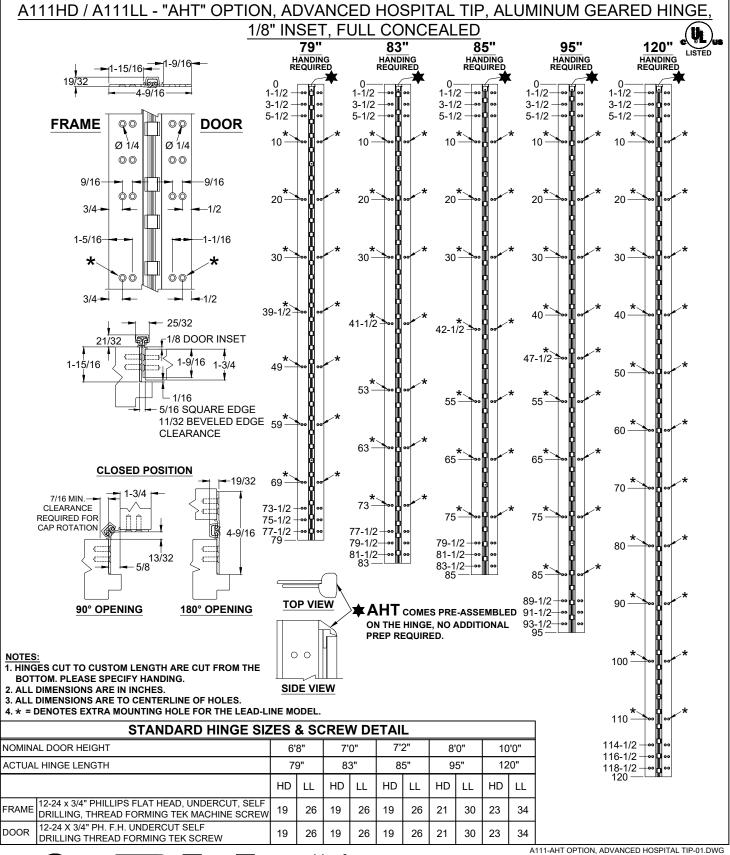
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ALUMINUM GEARED HINGE

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REVISED 08-21-20





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A111 - "AHT" OPTION ADVANCED HOSPITAL TIP

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PAGE 1 OF 1 REVISED 10-28-20

A111HD/LL - "EA" OPTION, EASY ACCESS CONCEALED ELECTRIFICATION, **ALUMINUM GEARED HINGE** 120" 79" RIGHT HAND LEFT HAND 83" 85" 95" FRAME DOOR DOOR FRAME NON-HANDED NON-HANDED NON-HANDED NON-HANDED 1 - 1/21-1/2 1-1/2 1-1/23-1/2 3-1/23-1/23-1/2 3-1/25-1/2 5-1/2 5-1/2 5-1/2 5-1/2 10 10 10 10 10 20 20 20 20 30 30 30 30 37-1/16* (HANDED) 38-15/16***** 39-15/16***** 39-1/2 (HANDED) (HANDED) 41-1/2 42-1/2 44-15/16* (HANDED) 47-1/2 49 50 53 55 55 58-23/32 59 63 61-9/32 65 69 70 73 73-1/2 75 75 75-1/2 77-1/2 79-1/2 79-1/2 80 81-1/2 83 — 81-1/2 83-1/2 85 — 85 89-1/2 12 WIRE STANDARD 91-1/2 93-1/2 95 — NOTES: 100 STANDARD LOCATION 1. HINGES CUT TO CUSTOM LENGTH ARE **=LL (LEAD LINED) OPTION CUT FROM BOTTOM OF HINGE. CUSTOM** (HANDED) LOCATION **CUT HINGE REQUIRES HANDING.** STANDARD HINGE SIZES & SCREW DETAIL 7'2" NOMINAL DOOR HEIGHT 6'8" 7'0" 8'0" 10'0' -116-1/2 **ACTUAL HINGE LENGTH** 83" 120' 118-1/2 12-24 x 3/4" PHILLIPS FLAT HEAD, UNDERCUT, SELF FRAME 18 18 18 20 23 DRILLING, THREAD FORMING TEK MACHINE SCREW 12-24 x 3/4" PHILLIPS FLAT HEAD, UNDERCUT, SELF DOOR 18 18 18 20 23 DRILLING, THREAD FORMING TEK MACHINE SCREW A111HD-EA OPTION, EASY ACCESS CONCEALED ELECTRIFICATION-1-04.DWG



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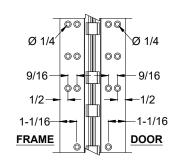
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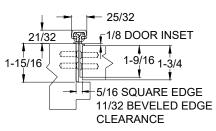
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A111HD/LL - "EA" OPTION EASY ACCESS **CONCEALED ELECTRIFICATION**

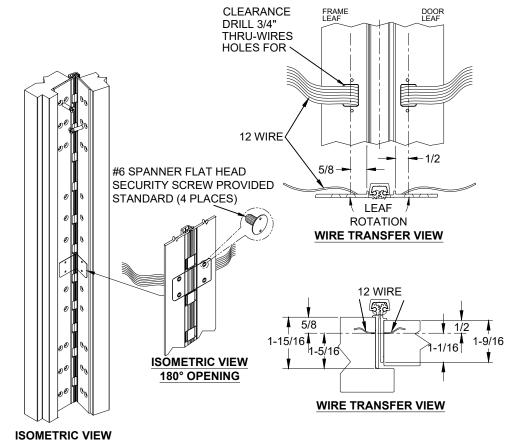
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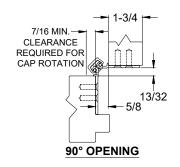
A111HD/LL - "EA" OPTION, EASY ACCESS CONCEALED ELECTRIFICATION, ALUMINUM GEARED HINGE





CLOSED POSITION



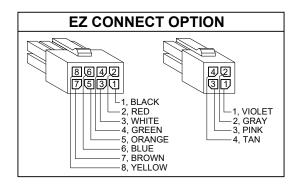


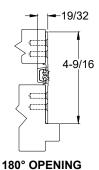
NOTES:

~90° OPENING

1. MOLEX ® CONNECTOR OPTION AVAILABLE - SUFFIX "EZ".

> * SPECIFY ELECTRIFIED HARDWARE MANUFACTURER FOR CONNECTOR COMPABILITY





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.

0.053" ± 0.003". DIAMETER:

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

VOLTAGE RATING: 600 VOLTS RMS, DEPENDING ON SPECIFICATION.

AVAILABLE AS ROHS COMPLIANT.

A111HD-EA OPTION, EASY ACCESS CONCEALED ELECTRIFICATION-2-04.DWG



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CONCEALED ELECTRIFICATION

120" 79" 83" 85" LEFT RIGHT HAND 95" HAND FRAME DOOR DOOR FRAME NON-HANDED **NON-HANDED** NON-HANDED **NON-HANDED** 1 - 1/21-1/2 1-1/2 1-1/2 1-1/2 3-1/23-1/23-1/2 3-1/2 3-1/2 5-1/2 5-1/2 5-1/2 5-1/2 5-1/2 10 10 10 20 20 20 20 20 30 30 30 30 34-1/8 ×34-3/4 36-1/8 36-15/16* 37-1/8 (HANDED) 36-3/4 38-13/16***** 37-3/4 39-13/16* 39-3/8 (HANDED) (HANDED) 41-3/8 42-3/8 € 44-13/16* **4**44 44-5/8 (HANDED) *****46 47-3/8 46-5/8 47-5/8 48-3/4 50 **≢52** − 52-5/8 54-3/4 52-3/4 54-3/4 58-19/32 58-3/4 62-3/4 61-5/32 64-3/4 64-3/4 **≠**65-1/4 65-7/8 68-3/4 69-3/4 72-3/4 73-1/4 74-3/4 74-3/4 75-1/4 77-1/4 77-1/4 78-3/4 79-1/4 79-1/4 79-3/4 81-1/4 84-3/4 12 WIRE STANDARD 89-1/4 89-3/4 91-1/4 NOTES: 93-1/4 94-3/4 1. HINGES CUT TO CUSTOM LENGTH ARE CUT FROM BOTTOM OF HINGE. CUSTOM 99-3/4 STANDARD LOCATION CUT HINGE REQUIRES HANDING. **=LL (LEAD LINED) OPTION** R = REMOVABLE, (3) INDIVIDUAL HINGES, THRU WIRE (HANDED) LOCATION CAN BE REMOVED TO ACCESS WIRES. locktriangle = MANUFACTURING TO ADD (4) COUNTERSINK THRU HOLES FOR #12 FLAT HEAD SCREW. 109-3/4 STANDARD HINGE SIZES & SCREW DETAIL 7'2" NOMINAL DOOR HEIGHT 7'0" 8'0" 10'0' 116-1/4 ACTUAL HINGE LENGTH 83" 95" 120' 12-24 x 3/4" PHILLIPS FLAT HEAD, UNDERCUT, SELF FRAME 20 20 20 22 24 DRILLING, THREAD FORMING TEK MACHINE SCREW 12-24 x 3/4" PHILLIPS FLAT HEAD, UNDERCUT, SELF DOOR 20 20 22 DRILLING, THREAD FORMING TEK MACHINE SCREW A111HD-EA & R, ELECTRICAL MODIFICATION WITH REMOVABLE OPTION-1-03.DWG

A111HD/LL - "EA" & "R" ELECTRICAL MODIFICATION WITH REMOVABLE OPTION



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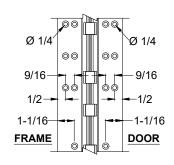
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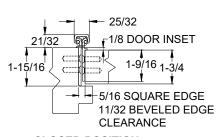
A111HD/LL - "EA" & "R" **ELECTRICAL MODIFICATION** WITH REMOVABLE OPTION

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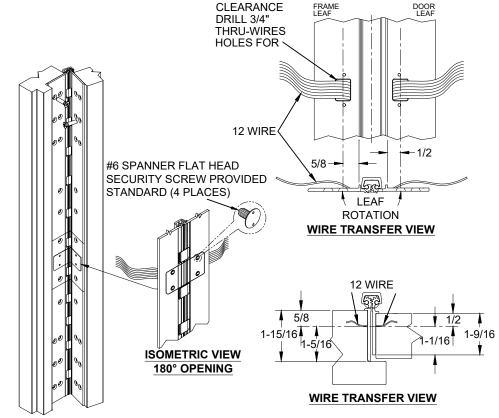
PAGE 1 OF 2 **REVISED 08-22-22**

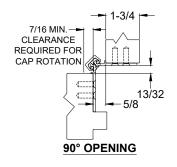
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CLOSED POSITION

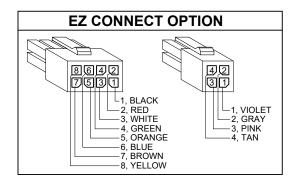


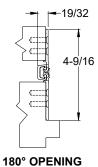


NOTES:

ISOMETRIC VIEW ~90° OPENING

- 1. MOLEX ® CONNECTOR OPTION AVAILABLE - SUFFIX "EZ".
 - * SPECIFY ELECTRIFIED HARDWARE MANUFACTURER FOR CONNECTOR





SPECIFICATION:

DIAMETER:

SINGLE CONDUCTOR #22 AWG MINIATURE HOOK-UP DESCRIPTION:

WIRE FOR APPLICATIONS REQUIRING EXTREME FLEXIBILITY.

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INSULATION: PROPRIETARY FORMULATION PVC 0.010" NOM. WALL MEETS

VW-1 FLAME REQUIREMENT. 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.

MANUFACTURING INC.

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A111HD-EA & R, ELECTRICAL MODIFICATION WITH REMOVABLE OPTION-2-03.DWG **A111HD/LL -** "EA" & "R" **ELECTRICAL MODIFICATION** WITH REMOVABLE OPTION

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

A111HD - "EM" OPTION, CONCEALED ELECTRIFICATION, FULL CONCEALED, **ALUMINUM GEARED HINGE** 79" 83" 85" 95" 120" LEFT HAND RIGHT HAND AME DO 1-1/21-1/2 1-1/2 1-1/2 1-1/2 3-1/2 3-1/2 3-1/2 3-1/2 3-1/2 5-1/2 5-1/2 5-1/2 5-1/2 5-1/2 10 10 10 10 10 20 20 20 20 20 30 30 30 30 30 M 37-1/16 38-15/1<u>6</u> 39-1/2 39-15/16 40 40 41-1/2 41-15/16 ⊕ M 44-1/16 45-1/16 44-15/16 ⊕ M 47-1/2 49 50-1/16 53 55 55 58-23/32 59 60 61-9/32 63 65 65 69 70 73-1/2 75 75-1/2 ١., 77-1/2 -- 79 --77-1/2 79-1/2 79-1/2 80 81-1/2 81-1/2 83-1/2 85 85 89-1/2 90 91-1/2 93-1/2 M = MONITOR SWITCH SIDE 100 U = MAGNET SIDE STANDARD HINGE SIZES & SCREW DETAIL NOMINAL DOOR HEIGHT 6'8" 7'0" 7'2" 8'0" 10'0



12-24 x 7/8" PHILLIPS FLAT HEAD, UNDERCUT, SELF

DRILLING, THREAD FORMING TEK MACHINE SCREW

ACTUAL HINGE LENGTH

FRAME

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79"

19

19

83'

19

19

85'

19

19

95'

21

21

120

23

23

A111HD-EM OPTION, CONCEALED ELECTRIFICATION-1-00

114-1/2

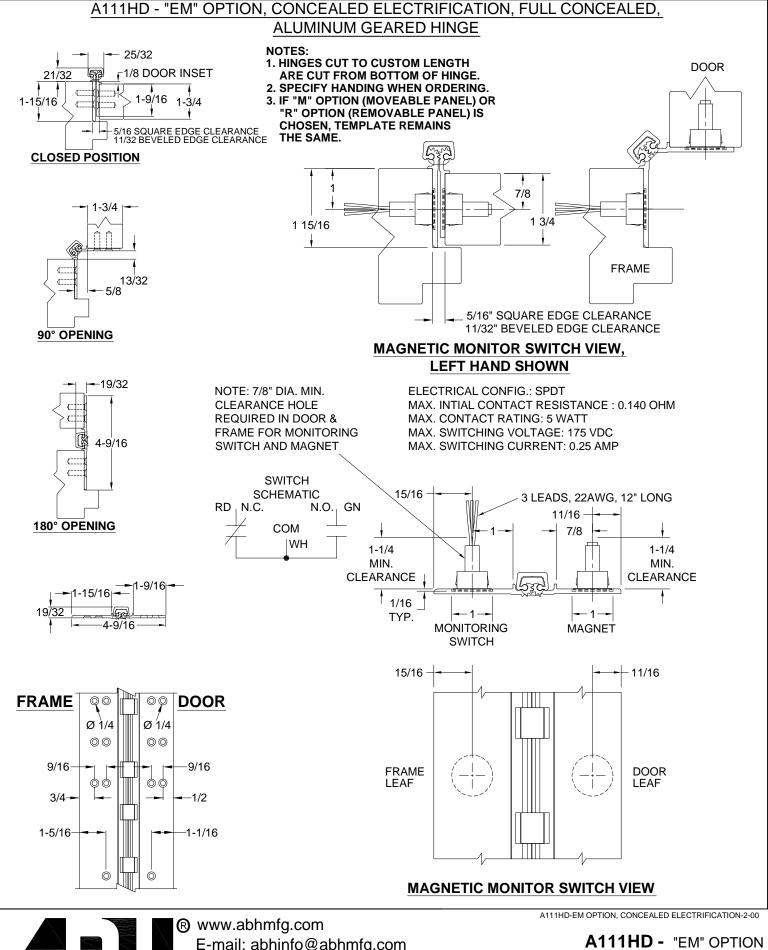
116-1/2

118-1/2

A111HD - "EM" OPTION CONCEALED ELECTRIFICATION

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PAGE 1 OF 2 ISSUED 02-03-16





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CONCEALED ELECTRIFICATION

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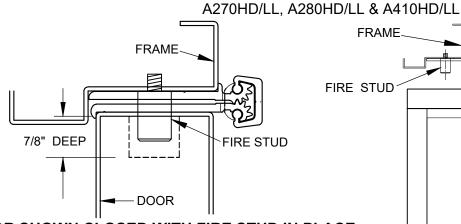
PAGE 2 OF 2 ISSUED 02-03-16

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" | 85" | 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**



A111

Geared Hinge

Standard Features:

- Full Concealed, Heavy Duty
- 1/8" Door Inset
- 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 3/4" Undercut Self-Drilling, thread-forming tek machine screws.

Standard Lengths:

• 79", 83", 85", 95" and 120"

Finishes:

- Clear Anodized Stocked
- Dark Bronze Anodized Stocked
- Black Anodized Stocked
- Champagne
- Light Bronze
- Medium Bronze
- * Custom Powder Coating Available

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 3 hour rating)









Aluminum Continuous Geared Hinges

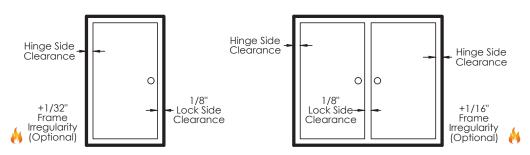


Door Clearance Chart **Squared Edge**

| 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" |

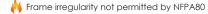
Single Door

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" |

^{* 1/16&}quot; Frame Irregularity Allowance, Optional and included in all Total Door Undersize for single and pairs of doors



Aluminum Continuous Geared Hinges

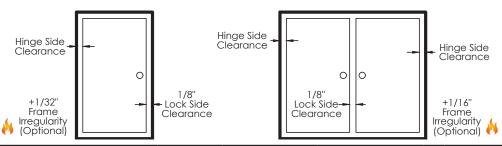


Door Clearance Chart **Beveled Edge**

| | Single Door - Beveled Edged | | | | | | | | | |
|-------------------|---|--------------------|---|------------------------|---|--|---|------------------------------|---|--|
| Hinç | ge 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

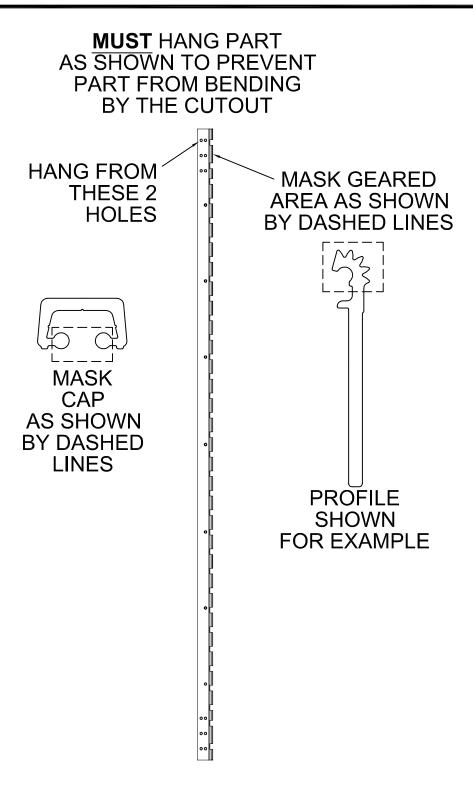


| | Pair of Doors - Beveled Edged | | | | | | | | | |
|-------------------|--|------------------------------|---|------------------------|---|--|---|------------------------------|---|---|
| Hinge Model | | Hinge Thickness (Pair) | + | Lock Side Clearance | + | * Frame () Irregularity (OPTIONAL) | + | 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 ₈ " |
| | 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" |

^{* 1/16&}quot; Frame Irregularity Allowance, Optional and included in all Total Door Undersize for single and pairs of doors



POWDER COAT MASKING





E-mail: abhinfo@abhmfg.com 1222 Ardmore Ave., Itasca, IL 60143

Architectural Builders Hardware Mfg., Inc. 630.875.9900; FAX 800.9FAXABH (932.9224)

POWDER COAT MASKING-00.DWG



ABH Manufacturing Inc.

1222 Ardmore Avenue Itasca, IL 60143

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

www.abhmfg.com

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.

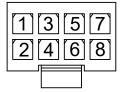
- Failure to Install the hinge according to ABH's specifications and requirements
- Use of Fasteners other than those supplied with the hinge.
- Unauthorized field modifications including removing any of the bearings, altering the original finish or painting the hinge.



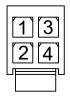
www.abhmfg.com E-mail: abhinfo@abhmfg.com Architectural Builders Hardware Mfg., Inc. 1222 Ardmore Ave., Itasca, IL 60143 630,875,9900; FAX 800,9FAXABH (932,9224) FM INSTALLATION-05.DWG FULL CONCEALED INSTALLATION INSTRUCTIONS PAGE 1 OF 1 REVISED 9-17-20

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

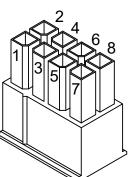
(TERMINAL INSERTION END SHOWN)



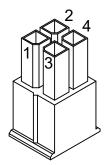
- 1: BLACK
- 2: RED
- 3: WHITE
- 4: GREEN
- 5: ORANGE
- 6: BLUE
- 7: BROWN
- 8: YELLOW



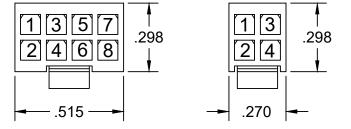
- 1: VIOLET
- 2: GREY
- 3: PINK
- 4: TAN



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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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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E-mail: abhinfo@abhmfg.com

EA THRU-WIRE

EA THRU-WIRE

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REPLACEMENT
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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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