Aluminum
Continuous Geared Hinges

Overhead Holders & Stops
Hospital Push/Pull Latches
Electro-Magnetic Door Holders
Electrical Power Transfer Products
Stainless Steel Continuous Pin & Barrel Hinges
Stainless Steel Edge Guards
Pivots & Pivot Sets
Rescue Hardware
Coordinators, Flush Bolts & Roller Latches
Slide Bolts, Surface Bolts & Miscellaneous Products

A:B:H Manufacturing, Inc.
# Aluminum Continuous Geared Hinges - Cross Reference Chart

<table>
<thead>
<tr>
<th>Type</th>
<th>ABH*</th>
<th>Hager*</th>
<th>Select*</th>
<th>ASSA Abloy*</th>
<th>Stanley*</th>
<th>Ives*</th>
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<td>Concealed Electrical Thru-Wire (number indicates quantity of wires)</td>
<td>TW4</td>
<td>ETW-4</td>
<td>CTW-4</td>
<td>CC-4 -</td>
<td>CE-54 -</td>
<td>TW4</td>
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<tr>
<td></td>
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<td>AP</td>
<td>ACC ACC</td>
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<td>RETW</td>
<td>RP</td>
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<td>EPT</td>
<td>EPT</td>
<td>PT PT</td>
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<td>E</td>
<td>EC</td>
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<td>EMN</td>
<td>-</td>
<td>- -</td>
<td>CS</td>
<td>-</td>
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<td>Exposed Electrical Switch</td>
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<td>EIS</td>
<td>EMS</td>
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<td>Ives*</td>
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<td>Pemko* McKinney*</td>
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<td>Fire Studs - 3-Hour Fire Rating (metal frame/metal door)</td>
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<td>FIRE PINS FIRE PINS KIT</td>
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<td>School Cap</td>
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<td>SO</td>
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<td>Sheared Leaf for 1-3/8&quot; Door</td>
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<td>Avail</td>
<td>LH Prep</td>
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<td>Tamper Resistant</td>
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<td>Avail</td>
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*Brand names are trademarks or registered trademarks of their respective companies.
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<td>A571 HD</td>
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Architectural Builders Hardware Manufacturing, Inc.
1222 Ardmore Avenue, Itasca, IL 60143
Tel: 630-875-9900 • Fax: 630-875-9918 / 800-932-9224
Web: www.abhmfg.com • Email: abhinfo@abhmfg.com

2014 ABH Mfg., Inc.
## General Info

### Standard Features

- Continuous hinges alleviate most common alignment problems such as door binding and sagging by evenly distributing the weight throughout the entire door and frame.
- Provides extra security by eliminating the gap between the door and the frame; thus, disallowing the ability to pry the opening.
- All hinges are surface applied – no mortising of the door or frame required.
- ABH hinges are anodized after machining.
- Will cover old butt hinge cut-outs.
- All hinges are heavy duty at standard duty prices.
- Heavy duty 83” hinge has 32 bearings (3” spacing on center).
- Meets or exceeds ANSI 156.26, Grade 1.
- Templated hole patterns for standard length hinges keep consistency over time.
- Standard Finishes – Clear anodized, dark bronze anodized and black anodized.
- Door reinforcement: None required.
- Frame reinforcement: None required for doors up to 200 lbs. For doors more than 200 lbs., 16 gauge channel required.

### Warranty

ABH provides a **limited lifetime warranty** on its hinges for the lifetime of the door opening. All electrified modifications have a five year limited warranty.

### Fire Rating

All ABH aluminum geared hinge models (except A130) have been tested and certified by UL® (U.S.A. and Canada) for up to and including a 3-Hour Fire Listing on all 4’0” x 10’0” doors.

- For use on metal swinging type fire doors (Specify “FR” option for 3 hours).
- For use on wood swinging type fire doors (Specify “FR” option for 90 minutes).

### How to Order

<table>
<thead>
<tr>
<th>Model:</th>
<th>Grade:</th>
<th>Finish:</th>
<th>Hinge Height:</th>
<th>Options, if Applicable:</th>
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</thead>
<tbody>
<tr>
<td>Full Concealed: A110 A150 A110WT A160 A11 A240 A111WT A260 A130 A270 A140 A410</td>
<td>HD = Heavy Duty</td>
<td>B = Black Anodized</td>
<td>079 = 79” 083 = 83” 085 = 85” 095 = 95” 120 = 120”</td>
<td>TW4 M TW8 R TW12 EC EZ4 EM EZ8 ES EZ12 MT4 HT</td>
</tr>
<tr>
<td>Half Surface: A211 A530 A213 A540 A450 A550</td>
<td>LL = Heavy Duty, for Lead-Lined Door</td>
<td>C = Clear Anodized</td>
<td></td>
<td>TW8 M TW12 EC EZ4 EM EZ8 ES EZ12 MT4 HT</td>
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<tr>
<td>Full Surface: A210 A570 A571</td>
<td>D = Dark Bronze Anodized</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: A110 HD C 083 x PT

Architectural Builders Hardware Manufacturing, Inc.
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Tel: 630-875-9900 • Fax: 630-875-9918 / 800-932-9224
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Hinge Types

Full Concealed
Both hinge leaves are concealed between the rabbet of the frame and the door.

- Both door and frame leaves are provided with 12-24 x 7/8” self-drilling, thread forming tek screws (wood screws provided upon request)

Half Surface
Frame leaf is concealed between the rabbet of the frame and the door; and, the door leaf is mounted to the face of the door.

- Door leaf is provided with:
  - ¼-20 sex bolts and shoulder bolts
  - 12-24 x 7/8” pan head self-drilling tek screws (locator holes)
  - Center punches for installation ease

- Frame leaf is provided with 12-24 x 7/8” self-drilling, thread forming tek screws (wood screws provided upon request)

Full Surface
Frame leaf is mounted to the face of the frame and the door leaf is mounted to the face of the door.

- Door leaf is provided with:
  - ¼-20 sex bolts and shoulder bolts
  - 12-24 x 7/8” pan head self-drilling tek screws (locator holes)
  - Center punches for installation ease

- Frame leaf is provided with 12-24 x 7/8” self-drilling, thread forming tek screws (wood screws provided upon request)

Swing Clear Hinge
A swing clear hinge allows the door to swing completely clear of the door opening. Typically used in medical centers, it allows the full door width for large items such as gurneys and wheelchairs to pass.

ABH offers the A410 swing clear and A211 swing clear models (see page F-14 and F-15 for details).
# Door Clearance Chart - Square Edged

## Single Door - Square Edged

<table>
<thead>
<tr>
<th>Hinge Model</th>
<th>Hinge Thickness</th>
<th>Lock Side Clearance</th>
<th>Frame Irregularity</th>
<th>Square Edged Door Undersize (Single)</th>
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<tbody>
<tr>
<td><strong>Full Concealed</strong></td>
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<tr>
<td>A130</td>
<td>13/16&quot;</td>
<td>1/8&quot;</td>
<td>1/32&quot;</td>
<td>31/32&quot;</td>
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<td>A410</td>
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<td>15/32&quot;</td>
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<tr>
<td><strong>Half Surface</strong></td>
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<td></td>
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</tr>
<tr>
<td>A211, A213, A450, A460, A530, A540, A550</td>
<td>1/8&quot;</td>
<td>1/8&quot;</td>
<td>1/32&quot;</td>
<td>9/32&quot;</td>
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<td><strong>Full Surface</strong></td>
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<td>5/32&quot;</td>
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## Pair of Doors - Square Edged

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<th>Hinge Thickness (Pair)</th>
<th>Lock Side Clearance</th>
<th>Frame Irregularity</th>
<th>Square Edged Door Undersize (Pair)</th>
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</tr>
<tr>
<td>A130</td>
<td>1-5/8&quot;</td>
<td>3/16&quot;</td>
<td>1/16&quot;</td>
<td>1-7/8&quot;</td>
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<td>1/16&quot;</td>
<td>7/8&quot;</td>
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# Aluminum Continuous Geared Hinges

## Door Clearance Chart - Beveled Edge

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<th>Hinge Model</th>
<th>Hinge Thickness +</th>
<th>Lock Side Clearance +</th>
<th>Frame Irregularity +</th>
<th>Beveled Door Clearance =</th>
<th>Beveled Edge Door Undersize (Single)</th>
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<td>A110, A110WT, A111, A111WT, A140, A150, A160, A240, A260, A270</td>
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<td>A130</td>
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<td>13/16&quot; + 1/8&quot; + 1/32&quot; + 1/32&quot; = 1&quot;</td>
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<tr>
<td>Half Surface</td>
<td>A211, A213, A450, A460, A530, A540, A550</td>
<td>1/8&quot; + 1/8&quot; + 1/32&quot; + N/A = 9/32&quot;</td>
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<tr>
<td>Full Surface</td>
<td>A210, A570, A571</td>
<td>N/A + 1/8&quot; + 1/32&quot; + N/A = 5/32&quot;</td>
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### Diagrams:

**Single Door - 1/32" Frame Irregularity**
- Hinge Side Clearance
- 1/8" Lock Side Clearance

**Pair of Doors - 1/16" Frame Irregularity**
- Hinge Side Clearance
- 3/16" Lock Side Clearance

### Pair of Doors - Beveled Edge

<table>
<thead>
<tr>
<th>Full Concealed</th>
<th>Hinge Model</th>
<th>Hinge Side Clearance (Pair) +</th>
<th>Lock Side Clearance +</th>
<th>Frame Irregularity +</th>
<th>Beveled Door Clearance =</th>
<th>Beveled Edge Door Undersize (Pair)</th>
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</thead>
<tbody>
<tr>
<td>A110, A110WT, A111, A111WT, A140, A150, A160, A240, A260, A270</td>
<td>5/8&quot; + 3/16&quot; + 1/16&quot; + 1/16&quot; = 15/16&quot;</td>
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<tr>
<td>A130</td>
<td>1-5/8&quot; + 3/16&quot; + 1/16&quot; + 1/16&quot; = 1-15/16&quot;</td>
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<td>A410</td>
<td>A410 model is not available for beveled edge doors</td>
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<tr>
<td>Half Surface</td>
<td>A211, A213, A450, A460, A530, A540, A550</td>
<td>1/4&quot; + 3/16&quot; + 1/16&quot; + N/A = 1/2&quot;</td>
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<tr>
<td>Full Surface</td>
<td>A210, A570, A571</td>
<td>N/A + 3/16&quot; + 1/16&quot; + N/A = 1/4&quot;</td>
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Aluminum Continuous Geared Hinges

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Parts

**Shim Stock** – For applications when the clearance between the door and the frame need to be reduced. Solid clear anodized aluminum extrusions are available to install between the frame and the frame leaf (no holes).

- **GHSHIM-83-063** - ¼" thick x 1-½" wide x 83” long
- **GHSHIM-83-125** - ½” thick x 1-½” wide x 83” long
- **GHSHIM-120-063** - ⅛” thick x 1-½” wide x 120” long
- **GHSHIM-120-125** - ⅛” thick x 1-½” wide x 120” long

**Replacement Covers** for full surface and half surface models – supplied with allen head set screw and wrench for installation. Specify **height and finish**.

- **A04** – Door leaf cover for A210, A211, A213, A450 and A460 models
- **A09** – Frame leaf cover for A570 model
- **A10** – Door leaf cover for A530, A540, A550, A570 and A571 models

**Screw Packs** – Specify the following when ordering:

- Hinge model
- Finish
- Hinge length
- Door material & frame material

- Example: A110HDC083-SCR x MDMF

**Fasteners - Bulk Packed** – sold in quantities of 500 only

(Specify finish – Suffix “-C” = Clear or “-D” = Dark)

- **GH1224FHSDS-500** - 12-24 x ¾” Phillips flat head, undercut, self-drilling, thread-forming tek machine screw
- **GH1224FHSDSSEC-500** - 12-24 x ¾” Pin-in torx flat head, undercut, self-drilling, thread-forming tek machine security screw
- **GH12FHWS-500** - #12 x 1-½” Phillips flat head, undercut wood screw
- **GH12FHWSSEC-500** - #12 x 1-½” Pin-in torx flat head, undercut wood security screw
- **GH1/420SNB-500** - ¼-20 Sex bolt and shoulder bolt (set)
- **GH1224RHSDS-500** - 12-24 x ¾” Round head self-drilling, thread-forming tek machine screw (clear only)

**Concealed Electrical Thru-Wire Section only** – 4” section that is sold by itself to retrofit to an existing opening. Specify, hinge model, finish and number of wires required (4, 8 or 12).

- Example: A110RC8 (A110 model, Clear anodized, 8-wire)
Aluminum Continuous Geared Hinges

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
Wires are supplied with Molex®* connectors 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 (hinge cap is continuous), but both hinge leaves are cut to allow access to the electrical section without having to uninstall the hinge.

“R” – Removable Electrical Access Prep
Hinge is supplied in three separate sections so the electrical section can be removed without having to remove the entire hinge.

“PT”– Cut-out Prep for Power Transfer
Hinge is prepped for electrical power transfer unit – must specify power transfer unit being used and location of cut-out desired. See ABH Electrical Power Transfer section in the catalog for available models (sold separately).

“EC”– Exposed Electrical Contact
Allows remote locations to monitor if a door is open or closed. Specify handing and the number of contacts required (two minimum).

“EM” – Concealed Electrical Magnetic Monitoring Switch
Magnetic monitoring switch is installed in the frame leaf to monitor the door position with three 12” wire leads. Specify handing.

“ES” – Exposed Electrical Monitoring Switch
Push button switch is installed in the frame leaf to monitor the door position. Specify handing.

“MT” – Concealed Electrical Thru-Wire and Magnetic Monitoring Switch
Magnetic switch is installed in the frame leaf to monitor the door position while the wires transfer power from the frame to the door.
- MT4  – (4) 30 AWG wires
- MT8  – (8) 30 AWG wires
- MT12 – (12) 30 AWG wires

---

<table>
<thead>
<tr>
<th>Electrical Options - Compatibility Chart</th>
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<tbody>
<tr>
<td>Hinge Model</td>
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<td>A570</td>
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<td>A571</td>
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*Brand names are trademarks or registered trademarks of their respective companies.

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2014 ABH Mfg., Inc. F-7
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 bearing and/or screw hole. Specify length and handing.

“SPLICE” - Spliced Hinge
For hinges exceeding 120”, ABH splices two separate lengths with an alternately split cap to cover the gears. Specify length and handing.

“HT” - Hospital Tip
Top of the hinge cap is cut at a 45° angle to help support a safer environment in hospitals and other institutions. Specify handing.

“TR” - Tamper Resistant
Hinge is supplied with a hospital tip in addition to providing every other bearing with a set screw to further secure the hinge cap in high security applications.

“SEC” - Security Fasteners
Security fasteners are supplied in lieu of standard fasteners for all exposed areas.

“FR” - Fire Studs
Four stainless steel studs are supplied to provide the following fire rating:

- For use on metal swinging type fire doors rated up to and including 3 hours
- For use on wood swinging type fire doors rated up to and including 90 minutes

“LL” - Lead-Lined
Lead is provided for the door portion for half surface and full surface hinges where mounting holes will pierce the lead.

“SC” - School Cap
Bearing is installed with a set screw at the top of the hinge covering the hinge gears and preventing any debris or obstructions from being inserted at the top.

“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, clearance required between door leaves and handing when ordering.

“SL” - Sheared Leaf
Sheared leaf to accommodate a 1-⅜” thick door for concealed leaves.

“SNB for 1-⅜”
Shortened bolts to accommodate a 1-⅜” thick door for surface mounted door leaves.

“CUSTOM HOLE”
Contact factory with custom mounting hole locations desired for unusual frame and/or door conditions.

“NO HOLE”
Contact factory for hinges without mounting holes.

“CUSTOM FINISH”
Custom anodizing and powder coated finishes available – contact factory for details. Custom color sample approval will be required prior to fabrication.

Non-Electrical Options - Compatibility Chart

<table>
<thead>
<tr>
<th>Hinge Model</th>
<th>CUT</th>
<th>SPLICE</th>
<th>HT</th>
<th>TR</th>
<th>SEC</th>
<th>LL</th>
<th>SC</th>
<th>DD</th>
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<th>Custom Holes</th>
<th>No Holes</th>
<th>Custom Finish</th>
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Aluminum Continuous Geared Hinges

Full Concealed

A110 HD
A110 LL

Standard Features
• Full concealed, heavy duty
• No door inset, flush mount
• 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 ¾” 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

A110 WT

Standard Features
• Full concealed, heavy duty
• No door inset, flush mount
• 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 ¾” 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
Aluminum Continuous Geared Hinges

Full Concealed

A111 HD
A111 LL

Standard Features
- Full concealed, heavy duty
- \( \frac{1}{8} \)" 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 \( \frac{7}{8} \)" 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
- \( \frac{1}{8} \)" 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 \( \frac{7}{8} \)" 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
Full Concealed

A130 HD

Standard Features
- Full concealed, heavy duty
- ½" door inset
- Safety hinge application when used without a frame stop
- Used primarily in schools, nursing homes and day care facilities to avoid fingers and/or other objects being closed in the door
- ½" gap between frame leaf and door leaf when door is closed
- 48" door width maximum
- 450 lbs. door weight maximum
- Fasteners: 12-24 x ¾" undercut self-drilling, thread-forming tek machine screws
- Standard Lengths: 79", 83", 85", 95" and 120"
- Finishes: Clear, dark bronze and black anodized

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

A140 HD
A140 LL

Standard Features
- Full concealed, heavy duty
- ¾" door inset
- Door edge protector lip
- For use on 1-¾" 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 ¾" 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
Aluminum Continuous Geared Hinges

Full Concealed

A150 HD
A150 LL

Standard Features
- Full concealed, heavy duty
- No door inset, flush mount
- Designed for use on the Kawneer “Tuffline®” aluminum doors
- 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 ⅞” 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

A160 HD
A160 LL

Standard Features
- Full concealed, heavy duty
- ⅜” door inset
- Beveled edge on frame leaf
- 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 ⅞” 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

*Brand names are trademarks or registered trademarks of their respective companies.
Aluminum Continuous Geared Hinges

Full Concealed

A240 HD
A240 LL

Standard Features
- Full concealed, heavy duty
- ½" door inset
- Door edge protection lip
- For use on 1-⅜” 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 ⅞” 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
- ⅝” 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 ⅞” 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
Aluminum Continuous Geared Hinges

Full Concealed

A270 HD
A270 LL

Standard Features
- Full concealed, heavy duty
- No door inset, flush mount
- 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 ¾” 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-6 – F-8 for option availability and
details

A410 HD
A410 LL

Standard Features
- Full concealed, heavy duty
- No door inset, flush mount
- Swing clear application
- Door edge protection lip
- For use on 1-¾” thick door, square edged only
- 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 ¾” 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-6 – F-8 for option availability and
details
Aluminum Continuous Geared Hinges

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Half Surface

A211 HD

Standard Features
- Half surface, heavy duty
- 1/4” door inset
- Swing clear application
- 48” door width maximum
- 450 lbs. door weight maximum
- Fasteners: 12-24 x 3/8” undercut self-drilling, thread-forming tek machine screws for frame and 1/4-20 sex bolts and shoulder bolts for door
- 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

A213 HD

Standard Features
- Half surface, heavy duty
- Center hung door application where finger guards require a long reach
- 48” door width maximum
- 450 lbs. door weight maximum
- Fasteners: 12-24 x 3/8” undercut self-drilling, thread-forming tek machine screws for frame and 1/4-20 sex bolts and shoulder bolts for door
- 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
Aluminum Continuous Geared Hinges

Innovation, Quality, Customer Service...

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Half Surface

A450 HD

Standard Features
- Half surface, heavy duty
- ½” door inset
- 48” door width maximum
- 450 lbs. door weight maximum
- Fasteners: 12-24 x ¾” undercut self-drilling, thread-forming tek machine screws for frame and ¼-20 sex bolts and shoulder bolts for door
- 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

A460 HD

Standard Features
- Half surface, heavy duty
- ½” door inset
- 48” door width maximum
- 450 lbs. door weight maximum
- Fasteners: 12-24 x ¾” undercut self-drilling, thread-forming tek machine screws for frame and ¼-20 sex bolts and shoulder bolts for door
- 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
Aluminum Continuous Geared Hinges

Half Surface

A530 HD

Standard Features
- Half surface, heavy duty
- ⅝” door inset
- 48” door width maximum
- 450 lbs. door weight maximum
- Fasteners: 12-24 x ⅝” undercut self-drilling, thread-forming tek machine screws for frame and ¼-20 sex bolts and shoulder bolts for door
- 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

A540 HD

Standard Features
- Half surface, heavy duty
- ⅝” door inset
- 48” door width maximum
- 450 lbs. door weight maximum
- Fasteners: 12-24 x ⅝” undercut self-drilling, thread-forming tek machine screws for frame and ¼-20 sex bolts and shoulder bolts for door
- 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
A550 HD

Standard Features
- Half surface, heavy duty
- For double egress and center hung conversions
- 48” door width maximum
- 450 lbs. door weight maximum
- **Fasteners**: 12-24 x ⅞” undercut self-drilling, thread-forming tek machine screws for frame and ¼-20 sex bolts and shoulder bolts for door
- **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
Aluminum Continuous Geared Hinges

Full Surface

A210 HD

Standard Features
- Full surface, heavy duty
- No door inset, flush mount
- Swing clear application
- 48” door width maximum
- 450 lbs. door weight maximum
- Fasteners: 12-24 x ¾” undercut self-drilling, thread-forming tek machine screws for frame and ¼-20 sex bolts and shoulder bolts for door
- 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

A570 HD

Standard Features
- Full surface, heavy duty
- ¼” door inset
- For narrow-faced frames
- 48” door width maximum
- 450 lbs. door weight maximum
- Fasteners: 12-24 x ¾” undercut self-drilling, thread-forming tek machine screws for frame and ¼-20 sex bolts and shoulder bolts for door
- 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
Full Surface

A571 HD

Standard Features
- Full surface, heavy duty
- 1/4" door inset
- Bi-fold applications
- 48" door width maximum
- 450 lbs. door weight maximum
- Fasteners: 12-24 x 3/8" undercut self-drilling, thread-forming tek machine screws for frame and 14-20 sex bolts and shoulder bolts for door
- 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