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INTEGRATION
WARRANTY



FBH ARCHITECTURAL SECURITY
Commercial Doors and Hardware

IVES®

Architectural
hardware
products



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Hinges & Pivots
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Exterior Hardware
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1. GENERAL/ACCEPTANCE. (a) This Agreement contains the only terms and conditions by which Company will quote and sell Deliverables to Customer; (b) The terms "purchase order" or "order" for the purposes of this Agreement include the term "request for quotation," as appropriate; (c) This Agreement supersedes all pre-printed or boilerplate terms and conditions set forth in any purchase order issued by Customer; (d) No reference herein to Customer's purchase order will in any way incorporate different or additional terms and conditions, all of which Company hereby expressly objects to; (e) **ANY ACCEPTANCE BY COMPANY OF CUSTOMER'S PURCHASE ORDER IS EXPRESSLY CONDITIONED ON THE CUSTOMER'S ASSENT TO AND ACCEPTANCE OF THE TERMS AND CONDITIONS CONTAINED IN THIS AGREEMENT;** (f) Company reserves the right to decline any order, in whole or in part, for any reason.

2. ORDERS.

a. **Order Processing.** When Customer wishes to place an order for Deliverables, it will deliver to Company a purchase order. All such purchase orders must (i) be in a written format acceptable to Company, (ii) be legible, (iii) include a purchase order number, (iv) include Customer's account number, invoice address, ship to address, shipping method, shipper's letter of instruction for international shipments, part number, pricing, and designated contact information, (v) include, if applicable, any special configuration ID numbers, necessary programming information, special factory instructions, and requested specifications regarding a particular finish, handling, design, backset, or strike, and (vi) reference any applicable pricing discounts under an ongoing buying program or based on a written quote from Company, along with the applicable buying program number or quotation number.

b. **Minimum Orders.** In the event the order value does not meet any required minimum net Deliverable value, Company may, at its sole discretion, (i) increase the quantity of items in the order to meet the minimum net Deliverable value requirement; (ii) apply a minimum order charge; (iii) reject the order, or (iv) waive the requirement, provided that the waiver of a requirement for one order shall not constitute a waiver of the requirement for any future orders.

c. **Acceptance of Purchase Orders.** Company will endeavor to (i) acknowledge receipt of each purchase order issued in accordance with this Agreement, and (ii) notify Customer whether Company accepts or rejects the purchase order. If Company fails to accept or reject a purchase order within a reasonable time period, such failure to respond will be deemed a rejection of the entire order.

d. **Changes to Order/ Cancellation of Orders.** Additional terms and conditions regarding order changes and cancellations are available on the Allegion customer website, **WHICH TERMS ARE EXPRESSLY INCORPORATED HEREIN BY REFERENCE.** Unless otherwise provided herein, Customer acknowledges that (i) requesting a Change Order may cause a delay in the scheduled shipment date, a longer lead time or result in a new scheduled shipment date; (ii) Orders may not be changed after 48 hours of Company's order acknowledgment; (iii) After 48 hours of Company's order acknowledgment, all changes to an accepted purchase order will be subject to a Change Order charge of 25% of the net Deliverable value, plus the cost of labor and fabrication or raw material that Company incurred prior to the receipt of the Change Order from Customer, or that may be required due to the Change Order; (iv) the requested change may result in additional charges for labor, fabrication, and raw material, and (v) if Customer cancels an order or portion of an order that includes Deliverables that have been manufactured and prepped for shipping, a 35% restocking fee will apply. Notwithstanding the foregoing, Customer cannot change or cancel credential orders, reader orders, biometrics orders or any non-cataloged, special, Custom or nonstandard items once they have been placed. All cancelled orders for a Non Recurring Expense (NRE), credential orders, reader orders, biometrics orders, and/or Custom orders will be subject to a cancellation charge of 100% of the acknowledged price.

e. **Add-ons.** Add-on orders will not be accepted. Additions to orders will be entered as separate stand-alone orders and must qualify for all terms of sale, including discounts, on an individual basis.

f. **Fast-Track Orders.** No changes or cancellations will be accepted on the 24-Hour Fast Track Program. For 3-day Fast Track orders, changes and cancellations may only be requested by Customer within 24 hours of Company's order acknowledgment if the order has not shipped. For 5-Day Fast Track orders, changes and cancellations may only be requested by Customer if the order has not shipped and if the request is made to Company within 48 hours of Company's order acknowledgment. Return Material Authorization (RMA) for Deliverables must be processed through Fast Track Customer Service.

g. **Steelcraft Orders.** For all Steelcraft orders, changes or cancellations are allowed without penalty only if made within 48 hours of Company's order acknowledgment, and provided that the order has not shipped. Some exceptions do apply – please consult the factory. Changes are not allowed on Rapid Program orders after the order has been entered and acknowledged. After 48 hours of Company's order acknowledgment, all changes or cancellations are subject to a charge of 25% of the order. Unless otherwise specified by Company in writing, any changes to orders acknowledged by Company that affect the delivery date will be deemed a new order and will require acknowledgement by Company as provided in this Section. Additional products, features, terms and conditions regarding the Rapid Program are available on the Allegion, **WHICH TERMS ARE EXPRESSLY INCORPORATED HEREIN BY REFERENCE.**

3. PRICES, INVOICES AND PAYMENT.

a. **Prices.** The prices in Company's Price Book are subject to change at any time, without notice to Customer. Company may charge Customer additional amounts if Customer requests special packing, marking, shipment, product modification, or engineering services. Oral prices specified by Company are null and void. Quote numbers must be referenced on Customer's purchase order in order for the Company's quoted pricing to apply. Orders that do not reference a quote number will receive buy program pricing or book net pricing. Quoted prices are for those specific products quoted for a specified job, and are subject to the Price Book in effect at the time the quote was issued by Company.

b. **Taxes.** Prices do not include any present or future federal, state or local property, license, privilege, sales, use, excise, gross receipts or other like taxes or assessments which may result from transactions or any services performed in connection therewith. Any taxes, charges, or duties imposed by any governmental authority on the sale of Deliverables will be paid by Customer, in addition to the selling price specified by Company.

c. **Payment Terms.** Company will deliver to Customer an invoice with each shipment of Deliverables hereunder. Customer will pay all invoiced amounts within 35 days of the invoice date, provided that Customer may take a 2% discount if Customer pays in cash and Company receives said payment within 20 days of the invoice date. For the avoidance of doubt, cash discounts do not apply to credit card payments. Customer will make all payments in United States dollars. Past due invoices will be subject to a late payment service charge of 1.5% per month on any overdue unpaid balance, equivalent to 18% per annum, or the maximum rate permitted by law, whichever is less. Customer shall reimburse Company for all costs of collection, including, without limitation, reasonable attorneys' fees, for any overdue amount

owed by Customer to Company, and such collection costs shall also be subject to interest charges.

4. QUOTATIONS.

a. **Project Quotations.** Project or new construction quotes are restricted to the specific project quoted for the quantities, finishes, and series of Deliverables referenced on the quote. Company reserves the right to require proof of sale of Company products for any quoted project.

b. **Stock Quotations.** Deliverables fulfilling stock quotations may only be used for the following: i) Stocking of the Customer's shelves for small, quick-turn, discretionary projects, or ii) Sale to a general contractor or installer for new construction. Stock quotations may not be used for any project containing any Company no-substitution, specified products. Deliverables purchased under Stock Quotations cannot be redistributed to other Customer branch locations or re-sold to other resellers or used for aftermarket sales, end-user annual contracts or sold over the counter to any walk in trade.

c. **General.** All quotes are subject to this Agreement, unless otherwise specified by Company, and are subject to change at any time prior to Company's acceptance of a purchase order referencing the applicable quote number. Company, its representatives and employees reserve the right, in their sole discretion and for any reason, to refuse a Customer's request to quote a price other than the standard list price, regardless of whether Company or its representatives or employees have previously quoted discounted prices to the Customer on some or all of its orders. Customer's failure to comply with this Section 4 will be considered a material breach of this Agreement, and will entitle Company to immediately terminate any purchase orders and/or Customer's ability to distribute Company's products.

5. SECURITY INTEREST. Customer grants Company, and Company retains, a purchase money security interest and lien on any and all of Customer's rights, title and interest in each Deliverable sold by Company to Customer, wherever located, until the invoice for the applicable Deliverable(s) is paid in full, including any late charges and costs of collection. Customer authorizes Company to, and will assist Company in, taking all necessary steps to perfect and maintain Company's interest in such Deliverables.

6. CREDIT TERMS. Unless Customer pre-pays all of its purchase orders in advance, its purchase orders will be subject to the credit limit and other terms of credit ("Credit Terms") set forth in Company's credit application, which Credit Terms Customer acknowledges are subject to change by Company at any time. Company reserves the right to request payment in advance of shipment or any order or to request adequate assurances for Customer's payment of an order and may withhold or stop shipment, without any liability to Company, until Customer submits payment or adequate assurance of payment.

7. RESALE OF DELIVERABLES. Customer agrees and warrants that it will offer Company products in support of Company-written specifications and will maintain sufficient inventory to adequately support End Users, installers, and/or general contractors' needs. Customer will adhere to any MSRP or resale pricing programs of Company. Failure to comply with this provision will be considered a material breach of this Agreement, and will entitle Company to immediately terminate any purchase order and/or Customer's ability to distribute Company's products. Customer shall, at its own expense, gain and maintain sufficient knowledge of the industry and products competitive with Deliverables so as to be able to (a) explain in detail to End Users, installers, and/or general contractors the differences between the Deliverables and competing products, (b) ensure that an adequate number of trained, capable and qualified technical personnel with sufficient knowledge of the Deliverables and who have obtained all necessary licenses and permits are available to assist End Users, installers, and/or general contractors, and (c) respond to such End Users, installers, and/or general contractors with respect to the general operation and use of the Deliverables including, but not limited to, (1) acting as a liaison between the End Users, installers and/or general contractors and Company in matters requiring Company participation, (2) providing general product information and configuration support on standard protocols and features, (3) collecting relevant technical problem identification information, and (4) posting and distributing any warranty information concerning the Products in accordance with Company's instructions. Customer is responsible for all service and support resulting from the re-sale of any Deliverable to End-Users, installers and/or general contractors, examples of which may include, but are not limited to, support activities such as installation, initialization, software set-up, training, trouble-shooting, technical support and field service. In the event Customer is unwilling or unable to perform said support activities, Company reserves the right to recover from Customer any and all expenses incurred by Company to resolve the afore-mentioned End-User, installer and/or general contractor issues. Technical product training is recommended for Customer in order to fully service and support Deliverables purchased from Company that are resold to End-Users, installers and/or general contractors.

8. DEFAULT. If Customer is in default of payment or otherwise with respect to any purchase order or other contract with Company, Company shall have the right, in addition to all other legal remedies and without prejudice to any of its right hereunder, to defer further shipments under that or any other purchase order until such default is corrected and to declare all outstanding bills of Customer to be immediately due and payable.

9. INSPECTION AND DELIVERY.

a. **Inspection.** Customer will inspect all Deliverables immediately after receiving them. Customer will be deemed to have accepted the Deliverables unless Customer notifies Company in writing of any nonconformance within 10 days of delivery and provides Company written evidence reasonably documenting that nonconformance. Inspection of Deliverables at Company's facility is not permitted.

b. **Delivery.** Delivery schedules for Deliverables are based upon current production capacities, material or component availability, and inventory, and may be changed by Company as conditions require. Delivery schedules for services are based upon Company's prompt receipt of, and prompt access to, Customer's equipment and all information necessary to complete the services. In no event will any delivery date be construed as falling within the meaning of "time is of the essence." Partial delivery shall be accepted by Customer and paid for at the price and on the terms stated herein. Any partial delivery shall constitute a separate sale, and payment shall be separately made when due. If any part of a delivery hereunder is not delivered by Company in accordance with Customer's purchase order, this Agreement shall not be affected thereby.

10. TITLE & RISK OF LOSS. Unless otherwise specified by Company, (i) where the Customer is located in the United States, all Deliverables will be sold "Uniform Commercial Code, FOB, Origin, Company's factory"; and (ii) where the Customer is located outside of the United States, all Products will be sold "Ex-works, Company's factory (Incoterms 2010)." In either instance, title and risk of loss will pass to Customer upon delivery to the carrier at Company's

factory, provided, however, as set forth herein, Company shall retain a security interest in the Deliverables until full payment has been made therefore, and Customer agrees, upon request, to do all things and acts necessary to protect Company's interest by adequately insuring the Deliverables against loss or damage from any cause and to have Company named as an additional insured. Customer will promptly provide Company with a copy of the relevant certificate of insurance upon Company's request.

11. SHIPPING & SHIPPING PROGRAMS.

a. **Freight Charges.** Company will ship all Deliverables in accordance with Company's freight shipment guidelines, which are set forth on the Allegion customer website ("Freight Shipping Guidelines"), **WHICH TERMS ARE EXPRESSLY INCORPORATED HEREIN.**

b. **Rush Charges.** Expedited order options are available as set forth in Company's freight shipping guidelines.

c. **Packing and Marking.** Company will pack, mark, and ship Deliverables according to its standard procedures for shipment, unless the parties agree, in writing, that Company will comply with any special instructions provided by Customer. Special instructions may result in an increased price.

d. **International Shipments.** For all international orders, a Shipper's letter of instruction must be submitted in writing with the order. Failure to do so will result in the order being rejected. Complete adherence to this order requirement will be strictly enforced. Company will not be held liable for any charges resulting from delays due to lack of complete required information being supplied.

e. Once received by the Company, a purchase order cannot be combined with any other order to qualify for freight allowances. In addition, Customer may not combine any Company brands or product categories on a single order to meet the applicable net freight allowance, except in the case of: i) FastTrack 24 Hour/5 Day Program, which is available for Schlage, Von Duprin, LCN and Glynn-Johnson products; ii) FastTrack 24 Hour/3 Day Program, which is available for Falcon Locks, Exits and Closers and Ives products. When an order includes products from the brands listed in both (i) and (ii) above, the order will automatically default to the FastTrack 24 Hour/5 Day Program lead times and freight allowance.

12. CLAIMS. All claims must be submitted in writing to Company as follows: (i) All claims for prices must be submitted within thirty (30) days from the date of invoice; (ii) All claims regarding Deliverable quantity or incorrect orders must be submitted within ten (10) days from the date of delivery; (iii) All claims for damage to Deliverables (while in the care, custody, and control of Company) must be submitted within thirty (30) days from the date of invoice; (iv) All claims for loss or damage to Deliverables while in the care, custody, and/or control of a carrier will be the responsibility of Customer, unless otherwise agreed by the parties.

13. PRODUCT CHANGES. Company's product policy is one of ongoing update and revision, and accordingly, Company reserves the right to change, without notice, the design of, or the process of manufacturing, the Deliverables covered by this Agreement.

14. PRODUCT USAGE LIMITATION. Customer agrees: (i) not to sell or use a Deliverable in any manner contrary to the manner in which the Deliverable is intended to be used; and/or (ii) not to modify the design of any Deliverable for use with another product without the prior written consent of Company.

15. PRODUCT RETURNS. Unless otherwise agreed by the parties in writing, Deliverables that are correctly furnished by Company per the purchase order may not be returned unless Customer receives written authorization from Company. If returns are authorized by Company, a return merchandise authorization ("RMA") number must be provided by Company. Deliverables identified under such RMA must be returned to Company within 90 days of issuance of the RMA. Such RMA number and any accompanying RMA documents, the original invoice number, and a written explanation for the return must be included with the returned Deliverables in order for Company to inspect and approve a credit for the return. **For warranty returns,** a credit in the amount of the original purchase price will only be issued if, after Company's receipt and inspection of the returned Deliverables, Company confirms, in its sole discretion, the defect is valid and approves the return. **For non-warranty returns,** (a) in the event Company approves such a return, a credit will be made to Customer's account in the amount of the original purchase price less freight and a handling charge of 35% of the net material on the original invoice; and (b) Only Deliverables that are new, current, standard, non-obsolete, non-specially manufactured, unused, in their original condition as at the time of sale by Company to Customer, in their original packaging and in Customer's inventory less than 180 days from the date of shipment by the Company may be considered by Company for return. Such credit will only be issued if, after Company's receipt and inspection of Deliverables, Company approves the return. The amount of final credit will be determined upon receipt at the factory and following Company's inspection and analysis of the condition of the returned material. Company retains the right to deny credit to anyone for any reason.

16. CONFIDENTIAL INFORMATION.

a. **Non-Use And Non-Disclosure.** Customer shall not use the Confidential Information of the Company except for the purpose of performing its obligations under this Agreement or exercising the rights granted herein (the "Purpose"). Customer shall protect Confidential Information of the Company from disclosure and unauthorized use in the same manner that it protects its own Confidential Information, but in no event shall such standard of care be less than reasonable care. Customer may disclose Confidential Information of the Company only to its employees who require such information for the Purpose and who are subject to confidentiality obligations at least as protective as those set forth herein.

b. **Proprietary Information and Advice.** (a) All designs, data, and specifications provided by Company are proprietary and may not be disclosed or reused by Customer without the prior written consent of Company; (b) Company assumes no obligation or liability for any advice given by Company, the results obtained, or damages incurred as a result of such advice, and all such advice is given and accepted at Customer's risk.

c. **Return.** Upon the termination or expiration of a purchase order or this Agreement or upon the request of the Company, the Customer agrees to end all further use of, to immediately return to the Company the original version of, and to delete or destroy all copies of, any and all Confidential Information of the Company.

17. TRADEMARKS. Except as agreed to by Company in writing, Customer agrees not to (a) use Company's name in any form of publicity; or (b) use, create, register or market, directly or indirectly, in whole or in part, Company's names, logos, brands, or any other trademarks, or names that are now or may hereafter be owned by Company, as part of Customer's corporate or business name, as part of an internet domain name, uniform resource locator (URL), or in any way connected with Customer's business, trade address or other designations. Upon termination of this Agreement or upon the request of Company for any reason, any use of Company's trademarks or names will be immediately discontinued.

18. LIMITED WARRANTY.

COMPANY MAKES NO OTHER WARRANTIES EXCEPT THOSE STATED IN COMPANY'S LIMITED WARRANTY IN EFFECT ON THE DATE COMPANY ACCEPTS EACH APPLICABLE PURCHASE ORDER ("LIMITED WARRANTY"). THE LIMITED WARRANTY MAY BE FOUND IN THE APPLICABLE PRICE BOOK AND ON THE ALLEGION CUSTOMER WEBSITE, WHICH TERMS ARE EXPRESSLY INCORPORATED HEREIN BY REFERENCE. COMPANY WILL MAIL CUSTOMER A HARD COPY OF THIS WARRANTY UPON CUSTOMER'S WRITTEN REQUEST. IN THE EVENT THAT CERTAIN DELIVERABLE WARRANTIES ARE NOT FURNISHED BY THE COMPANY TO CUSTOMER, COMPANY WARRANTS ONLY TO CUSTOMER THAT THE DELIVERABLES WILL BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF 12 MONTHS FROM THE DATE OF SHIPMENT OF THE DELIVERABLES. COMPANY'S SOLE OBLIGATION UNDER THIS WARRANTY IS LIMITED TO REPAIRING OR REPLACING, AT COMPANY'S OPTION, THE DEFECTIVE DELIVERABLE, PROVIDED WRITTEN NOTICE OF THE DEFECT OR NONCONFORMANCE IS PROVIDED BY CUSTOMER WITHIN 30 DAYS OF DISCOVERY OF THE DEFECT OR NONCONFORMANCE. COMPANY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE DELIVERABLES, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE.

a. **Exclusions.** The provisions of this Limited Warranty do not apply to Deliverables that: (A) are not the proper size for the application; (B) are not installed in accordance with Company's published installation instructions; (C) are installed with improper or incorrect parts and/or are used for purposes for which they are not designed or intended; (D) have been repaired or altered without the Company's prior written consent; (E) have been subjected to misuse, abuse, negligence or accident; (F) have been improperly stored, installed, maintained or operated; (G) have been used in violation of written instructions provided by Company to Customer; (H) have been subjected to improper temperature, humidity, or other environmental conditions; or (I) have been affected by normal wear and tear. In addition, the provisions of this Limited Warranty do not apply to any defects or issues with the design or performance of equipment or products not manufactured by Company, nor does it apply to any code compliance or permit requirements for the assembly, installation, erection or construction of any goods. Company is not responsible for loss or damage resulting from use of Deliverables in conjunction with parts or systems not manufactured by Company. Accessories or products furnished by the Company, but manufactured by others, shall carry whatever warranty the manufacturers have conveyed to the Company and which can be passed to Customer.

b. **Services.** Company warrants that its services will be free from defects in material and workmanship for a period of 12 months from the date of completion of the particular items of service. Company's sole obligation under this service warranty is limited to repair or reperformance, at its option of the service, provided however, if repair or reperformance is either impractical or impossible, the Company will refund to Customer that portion of the price paid to Company for any defective service, provided written notice of the defect or nonconformance is provided by Customer within 30 days of discovery of the nonconformance.

c. **Notification.** Customer agrees to immediately notify Company in writing if any claim is made against Customer for any damages caused by any modules, parts, products, service or other Deliverables which may be the direct result of any defect in the manufacture of such aforementioned products. Customer agrees to cooperate with Company and its counsel in the defense of such claim and Customer agrees not to settle such claim without Company's written consent. If Customer fails to notify Company of such claim or fails to cooperate in such defense as aforesaid, then Company shall be discharged from any obligations under this Section and shall have no further liability to Customer.

d. **Exceptions.** The following costs and expenses are not covered by the provisions of these limited warranties: (i) labor costs for the removal and reinstallation of Deliverables or other manufacturer's products; (ii) shipping and freight expenses required to return Deliverables to Company; (iii) normal maintenance; and (iv) economic losses. In addition, the provisions of this warranty are not applicable to anything other than defects in Company's material (products only) or workmanship.

19. LIMITATION OF REMEDIES.

CUSTOMER'S EXCLUSIVE AND SOLE REMEDY ON ACCOUNT OF, OR IN RESPECT OF, THE FURNISHING OF NON-CONFORMING DELIVERABLES, SHALL BE TO (A) SECURE REPAIR OR REPLACEMENT OF THE PRODUCTS; OR (B) SECURE REPAIR OR REPERFORMANCE OF THE SERVICES OR TO OBTAIN A REFUND OF THE PRICE PAID FOR THE DEFECTIVE SERVICE, ALL AT COMPANY'S OPTION. IN NO EVENT WILL THE COMPANY'S MAXIMUM LIABILITY EXCEED THE SELLING PRICE FOR THE DELIVERABLE. THE WARRANTY, OBLIGATIONS AND LIABILITIES OF COMPANY (INCLUDING ITS SUPPLIERS) AND THE RIGHTS AND REMEDIES OF CUSTOMER ARE EXCLUSIVE AND ARE IN LIEU OF AND CUSTOMER HEREBY WAIVES AND RELEASES ALL OTHER WARRANTIES, OBLIGATIONS, REPRESENTATIONS OR LIABILITIES EXPRESS OR IMPLIED ARISING BY LAW, IN CONTRACT, TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY) OR OTHERWISE, INCLUDING BUT NOT LIMITED TO (I) ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY WARRANTY IMPLIED THROUGH COURSE OF PERFORMANCE, COURSE OF DEALING, OR USAGE OF TRADE OR (II) CLAIMS ARISING OUT OF THE NEGLIGENCE OF COMPANY OR COMPANY'S SUPPLIERS OR (III) ANY OTHER CLAIM ARISING OUT OF, CONNECTED WITH, OR RESULTING FROM THE PERFORMANCE OF COMPANY OR FROM THE DESIGN, MANUFACTURE, SALE, REPAIR, LEASE OR USE OF THE DELIVERABLE, OR ANY COMPONENT THEREOF, DELIVERED OR RENDERED HEREUNDER OR OTHERWISE.

20. INDEMNIFICATION AND LIMITATION OF LIABILITY. a. Customer shall indemnify, defend and hold Company, and its officers, directors, employees, customers, Affiliates, suppliers, users and agents, (collectively the "Indemnitees") harmless from and against any and all damages, claims, losses, expenses, costs, obligations, liabilities, including without limiting the generality of the foregoing, liabilities for court costs and attorneys' fees, suffered directly or indirectly by an Indemnitee by reason of, or arising out of any injury, death or loss to any person, or injury to any property (collectively, "Damages"), received or sustained by any person(s) or property, arising out of, occasioned by, attributable or related to i) any breach of any representation or warranty made by Customer, its officers, directors, employees, affiliates, users, agents, representatives or customers to Company or any third party, (ii) any failure by Customer to perform or fulfill any of its covenants, acts and/or omissions to Company or to any third party, or (iii) any litigation, proceeding or claim by any third party relating in any way to the obligations of Customer and/or the Deliverables sold by Company to Customer hereunder. Customer shall not consummate any settlement of any indemnified claim without the Indemnitees' prior written consent. Customer's obligation to

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indemnify Indemnitees will continue in full force and effect notwithstanding the termination or expiration of any order under this Agreement. In any claim against an Indemnitee by an employee of Customer or any subcontractor or anyone directly or indirectly employed by any of them or anyone for whose acts they may be liable, the indemnification obligations set forth in this Section shall not be limited in any way by or for Customer or any subcontractor under any applicable worker's compensation act, disability or other employee benefit act. This provision shall survive termination of any order or Agreement. **IN NO EVENT WILL COMPANY, ITS OFFICERS, DIRECTORS, EMPLOYEES, CUSTOMERS, AFFILIATES, USERS AND AGENTS, (NOR COMPANY'S SUPPLIERS) BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY KIND OR NATURE UNDER ANY CIRCUMSTANCES INCLUDING, BUT NOT LIMITED TO, LOSS OF USE OF THE PRODUCTS, SERVICE INTERRUPTION, LOSS OF PROFITS, LOSS OF REVENUE, LOSS OF INTEREST, LOST GOODWILL, LOSS OF DATA, WORK STOPPAGE, IMPAIRMENT OF OTHER GOODS, LOSS BY REASON OF SHUTDOWN OR NON-OPERATION, INCREASED EXPENSES OF OPERATION, OR CLAIMS OF CUSTOMER'S CUSTOMERS, OR ANY OTHER LOSSES OR DAMAGES ARISING OUT OF ANY LACK OR LOSS OF USE OF THE DELIVERABLES WHETHER BASED ON CONTRACT, WARRANTY, TORT (INCLUDING, BUT NOT LIMITED TO, STRICT LIABILITY OR NEGLIGENCE), PATENT INFRINGEMENT, OR OTHERWISE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.**

b) INTELLECTUAL PROPERTY INDEMNITY. Company makes no representation or warranty to the Customer that the Deliverables shall not infringe any intellectual property rights including, without limitations, claims arising from patent, copyright, trademark, trade secret, or other intellectual property infringement. Customer agrees to hold Company harmless from and defend the Company against any such claim of intellectual property infringement, including any Damages resulting from that claim, the cost of complying with any preliminary or permanent injunction, and all other costs of defense (including the attorneys' fees and costs), in connection with the foregoing.

c) To the extent that applicable law does not permit any limitations set out in this Agreement, such limitation shall not be applied or invoked. Nothing in this Agreement will be interpreted to disclaim liability of Company or the Indemnitees for gross negligence or willful misconduct. The limitations of remedy and liability herein shall not be interpreted to affect Company's obligations, if any, for claims for (i) property damage, (ii) personal injury, or (iii) wrongful death asserted by persons who are not parties to or beneficiaries of this Agreement. Further, the limitations of remedy and liability herein shall not be interpreted to limit Company's or Customer's right, if permitted by applicable law, to assert a claim for contribution among joint tortfeasors in connection with a claim by a person who is not a party to this Agreement.

21. CERTIFICATIONS. Certification of Deliverables for compliance with UL and ANSI standards are tested and performed by third-party independent laboratories. Any field modification or alteration of certified Deliverables will void certification and Company is not liable to Customer to certify any modified or altered Deliverable.

22. TERM FOR CLAIMS. NO ACTION ARISING OUT OF ANY CLAIMED BREACH OF THIS AGREEMENT BY COMPANY MAY BE BROUGHT BY CUSTOMER MORE THAN ONE (1) YEAR AFTER THE CAUSE OF ACTION HAS ARISEN.

23. CONSUMER PRODUCTS
WITH RESPECT TO "CONSUMER PRODUCTS" AS DEFINED UNDER THE MAGNUSON-MOSS WARRANTY ACT ("MMWA"), THE FOLLOWING STATEMENTS ARE MADE. (A) SOME STATES OR LOCAL LAWS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU; (B) IF ANY IMPLIED WARRANTY IS PROVIDED UNDER THE MMWA, IT IS LIMITED TO THE DURATION OF THE WARRANTY PROVIDED IN SECTION 18 ABOVE. (C) SOME STATES OR LOCAL LAWS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU; AND (D) THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE OR LOCATION TO LOCATION.

24. FORCE MAJEURE/EXCUSABLE DELAY. Any delay or failure of Company to perform its obligations hereunder will be excused to the extent that it is caused by an event or occurrence beyond Company's control such as, by way of example and not by way of limitation, acts of God, acts by any governmental authority (whether valid or invalid), governmental laws and regulations not presently in effect, fires, floods, windstorms, explosions, riots, natural disasters, wars, sabotage, accidents, labor problems (including, without limitation, lockouts, strikes, and slowdowns) at Company's facility, its source plant or their suppliers, inability to obtain power, material, labor equipment, or transportation, or court injunction or order. The delivery date will be extended for a time equal to that of the delay and the schedule for Company's performance will be deemed adjusted to that effect.

25. ENTIRE AGREEMENT AND AMENDMENT. This Agreement, together with the attachments, exhibits, webpages, or supplements specifically referenced and incorporated herein, constitute the entire agreement between Company and Customer with respect to the matters contained herein and supersede all previous communications, representations, or agreements, either oral or written between Company and Customer. No agreement or understanding varying or expanding this Agreement will be binding upon either party unless it is in writing and signed by a duly authorized representative of each party hereto.

26. CONFLICTS. In the event of any conflict or inconsistency between the terms of any agreement, or any part of an agreement or the various documents (including, but not limited to, electronic documents) between Company and Customer, unless the parties agree otherwise in writing, the various components of the agreements shall be given the following precedence (in descending order of precedence): a) any master agreement or long term agreement between Company and Customer; b) any specific terms, conditions and/or warranties of the individual products or Deliverables; c) the terms and conditions of this Agreement, and d) any purchase order.

27. UNSATISFACTORY CREDIT/TERMINATION FOR INSOLVENCY OR DEFAULT. Customer shall furnish Company with statements evidencing Customer's financial condition as Company may, from time to time, reasonably request, and shall notify Company immediately of any and all events that may have a material adverse effect on Customer's business or financial condition. If Company determines, in its sole discretion, that Customer's financial condition or creditworthiness is inadequate or unsatisfactory, then in addition to Company's other rights, Company may without liability or penalty, take any of the following actions: (i) modify the payment terms for any outstanding and/or future purchases; (ii) cancel

any previously accepted orders; (iii) delay any further shipment of Deliverables to Customer; or (iv) any combination of the above.

Company may immediately terminate an order from Customer by giving written notice to Customer in the event of the happening of any of the following or any other comparable event: (i) insolvency of the Customer; (ii) filing of a petition in bankruptcy by or against the Customer; (iii) appointment of a receiver or trustee for the Customer; (iv) execution of an assignment for the benefit of creditors by the Customer, all of which will allow Company to demand reclamation of all affected orders; (v) Customer ceases or threatens to cease to trade; (vi) Company determines that Customer does not meet or no longer meets the credit requirements of Company or Customer's credit account is closed; (vii) any Customer violation of law, specifically including, without limitation, those laws set forth in this Agreement.

In the event of termination in accordance with this section, Company will not be obligated to accept any existing or additional orders from Customer and Company will be released from its obligation to deliver under orders accepted prior to such termination. The rejection or termination of any order by Company will not entitle Customer to any termination or severance compensation, or to any payment in respect to any goodwill established by Customer, or render Company liable for damages on account of the loss of prospective profits, or on account of any loss, expenditure, investment or obligation incurred or made by Customer.

No action taken under this Section 27 by Company (nor any failure of Company to act under this Section 27) will constitute a waiver by Company of any of its rights to enforce Customer's obligations, including the obligation of Customer to make payments as required under this Agreement. Upon termination of any order, all amounts owed by Customer to Company will become immediately due and payable, whether or not otherwise then due or payable.

28. CREDIT RISK ON RESALE OF DELIVERABLES. Customer is responsible for all credit risks with respect to, and for collecting payment for, all Deliverables sold to third parties (including End Users, installers, and/or general contractors) whether or not Customer has made full payment to Company for such Deliverables. The inability of Customer to collect payment for any Deliverable shall not affect Customer's obligation to pay Company for any Deliverable.

29. GOVERNING LAW; VENUE; AND EXPENSES. Any dispute or claim relating to this Agreement shall be governed by and construed according to the laws of the State of Indiana (excluding its conflict of laws principles); and not by the provisions of the 1980 United Nations Convention on the International Sale of Goods. Any disputes or claims shall be instituted and maintained in the courts of the State of Indiana. Customer consents to the exercise of jurisdiction over it by such courts and agrees that Indiana is not an inconvenient forum for any action arising from or relating to this Agreement. Customer agrees to pay for all expenses (including, but not limited to, collection costs, court costs and attorneys' fees) incurred by Company in enforcing the obligations of Customer under this Agreement.

30. RELATIONSHIP OF THE PARTIES. Nothing in this Agreement or any other document creates an employment, partnership, joint venture, or agency relationship between Company and Customer, including that of franchisee/franchisor. No party will have any power or authority to enter into any commitment on behalf of or otherwise bind the any other party on any matter. No employee of Customer will be deemed to be an employee of Company. If any provision of this Agreement is deemed to create a franchise relationship or business opportunity between the Parties, then Company may terminate any purchase order or this Agreement or the Parties shall negotiate in good faith to modify this Agreement so as to effect the original intent of the Parties as closely as possible in a mutually acceptable manner in order that the transactions contemplated hereby are consummated as a reseller agreement and not a franchise or business opportunity agreement.

31. SETOFF. Customer does not have the right to setoff or to back charge against any amounts which become payable to Company under this Agreement or otherwise. Company will not accept responsibility for backcharges for the cost of material or labor by Customer or any third party.

32. ELECTRONIC COMMUNICATIONS AND ELECTRONIC SIGNATURES. Both parties expressly agree to electronic transactions and acknowledge that documents they sign electronically will bind them to the same extent as a paper signature. Customer represents and warrants to Company that only employees authorized to bind Customer legally shall electronically sign any document under this Agreement. Customer shall comply with any method of electronic communication/payment processing specified by Company, including electronic funds transfer, pay-on-receipt processes/systems, order transmission, releases, electronic signature, and electronic communication systems, including, without limitation, the use of electronic data interchange ("EDI") portals. Notwithstanding the foregoing, e-mails, even those containing a signature block of one of Company's representatives, shall not constitute a signed writing.

33. COMPLIANCE WITH APPLICABLE LAWS.

a. General. Company and Customer will comply with all applicable federal, state and municipal laws, regulations, codes, ordinances and orders that pertain to the Deliverables, including but not limited to full compliance with any applicable provisions of The Health Insurance Portability and Accountability Act. Where the Customer is located outside the United States, or where the customer intends to ship the product outside the United States, the Customer shall be responsible for compliance with all U.S. export laws, and for filing all U.S. Electronic Export Information, as applicable.

b. The Customer acknowledges and agrees that: (i) it shall not violate applicable laws and regulations in performing its duties under this Agreement; (ii) it does not and shall not engage in any conduct that shall violate any applicable anti-bribery or anti-corruption laws or regulations; (iii) it (and its owners, officers, directors, employees and agents) shall not pay, offer, promise or authorize the payment of, either directly or indirectly, anything of value (including but not limited to cash, gifts and entertainment) to (a) any government official or employee of any government; (b) any official or employee of any department, agency, or instrumentality of a government; (c) any employee of any corporation or entity owned or controlled by a government; (d) any family member of such officials or employees; (e) any political party, party official, or political candidate; or (f) any other persons, owners, officers, directors, employees and agents of any corporation or entity; to improperly or illegally assist in obtaining or retaining business (including but not limited to any contracts, avoidance of duties or reduction of tariffs, reduction of taxes or to obtain money owed, or to obtain regulatory approval) or for the purpose of causing, soliciting or inducing the sale and purchase of the Deliverables by any party, and (iv) it has full knowledge of and will comply with the

Company's Code of Conduct for Business Partners as set forth on the Allegion customer website, **WHICH IS HEREBY INCORPORATED BY REFERENCE.**

c. The Customer shall indemnify and hold the Company harmless from any claim, demand, expense or cost arising from any breach of this Article.

d. The Customer shall permit the Company to conduct an audit or review of the Customer's financial books and records and business operations at such other times that the Company considers it necessary to confirm compliance with this provision. Such audit may be conducted by representatives of the Company or, at the Company's sole discretion, by a certified public accounting firm selected by the Company. The Customer shall cooperate with any inquiries from the Company's Ethics & Compliance Group.

e. A violation of this provision constitutes a material breach of this Agreement and the Company may terminate any purchase order or this Agreement immediately, with no opportunity to cure, in accordance with Section 27 of this Agreement.

f. Notwithstanding the foregoing provisions of this Section 33, (i) Company is not responsible for obtaining or maintaining any permits for the performance of services or the verification or compliance with any code requirements relative to the performance of services, (ii) to the extent any sale of Deliverables pursuant to this Agreement may require approval of the U.S. Government, Company's obligations under this Agreement are conditioned upon the grant of such approval and upon compliance by Customer with any restrictions imposed by the U.S. Government in connection with such approval, and (iii) in the event the Deliverables are to be used in a nuclear facility, the Customer shall, prior to such use, arrange for insurance or governmental indemnity protecting Company against liability. The Customer hereby releases and agrees to indemnify Company and its suppliers for any nuclear damage including, but not limited to, loss of use, in any manner arising out of the nuclear incident, whether alleged to be due, in whole or in part by Company or its suppliers.

g. **No Inducements.** Each party represents to each other that neither it nor any person acting on its behalf has, in contravention of any applicable law, given or offered to give or will give or offer to give, any sum of money or other material consideration to any person, directly or indirectly, as an inducement to obtain business hereunder or to influence the granting of licenses or other governmental permissions to enter into this Agreement or perform obligations hereunder.

h. **Equal Employment Opportunity.** Company is a U.S. federal contractor that complies with Executive Order 11246, as amended, and applicable regulations in 41 CFR Parts 60-1 through 60-60, 29 U.S.C. § 793 and applicable regulations in 41 CFR § 60-741; and 38 U.S.C. § 4212 and applicable regulations in 41 CFR Part 60-250 and 60-300. **THE FOLLOWING PROVISIONS ARE INCORPORATED HEREIN BY REFERENCE:** Executive Order 11246 and 41 CFR § 60-4.3(a); Executive Order 11701 and 41 CFR §§ 60-250.5(a), 60-300.5; Executive Order 11758 and 41 CFR § 60-741.5(a); U.S. immigration laws, including the L-1 Visa Reform Act of 2004 and the H-1B Visa Reform Act of 2004; and Executive Order 13496.

i. **Ethical Business Conduct.** Customer shall adopt and comply with Company's Business Partner Code of Conduct which is **EXPRESSLY INCORPORATED HEREIN BY REFERENCE.**

34. REPRESENTATIONS AND WARRANTIES. Customer represents, warrants and covenants to Company that: (a) it has the right, power, and authority to enter into this Agreement and fully perform its obligations hereunder; (b) it has all necessary rights in and to its respective Content and Marks for use within the scope of this Agreement, including the licenses granted herein; and (c) it complies, and at all times shall comply, with all laws, rules, and regulations in effect that are applicable to its performance under this Agreement, including obtaining all such approvals and/or permits as may be required hereunder.

35. NO THIRD-PARTY BENEFICIARY. Each party is entering into this Agreement solely based on the representations contained herein for its own purposes and not for the benefit of any third party.

36. NOTICES AND CHANGE OF ADDRESS. All notices or other communications under this Agreement shall be in writing and delivered in person, or sent by receipted courier, express mail, e-mail, or postage prepaid certified or registered mail, addressed to the party for whom it is intended, at the addresses set forth in this Agreement. Either party may change its address for notice by giving written notice to the other party. Any notice or other communication shall be deemed given no later than the date actually received. Notice by courier, express mail, certified mail, or registered mail shall be deemed given on the date it is officially recorded as delivered and, in the absence of such record of delivery, it shall be rebuttably presumed to have been delivered on the third Business Day after it was deposited. Notices sent by e-mail require tangible confirmation of receipt from addressee.

37. ASSIGNMENT. Customer may not assign this Agreement without the prior written consent of Company. Company may assign its rights and delegate its duties under this Agreement, without the prior consent of Customer, to an Affiliate, or to a third party in the event of a spin-off, merger, business combination, consolidation or sale of all, or substantially all, of its assets or business that are related to this Agreement. The rights and duties in this Agreement shall bind and inure to the benefit of any such assignee.

38. SEVERABILITY. If any provision of this Agreement is held to be invalid, illegal, or unenforceable under any statute, regulation, ordinance, executive order, or other rule of law, that provision will be deemed severed to the extent necessary to comply with such statute, regulation, ordinance, order, or rule. In the event such provision is deemed severed, the parties will negotiate in good faith to arrive at an alternative arrangement approximating the original business objective of the parties. The remaining terms and conditions of this Agreement will remain in effect.

39. NO IMPLIED WAIVER. The failure of either party at any time to require performance by the other party of any provision of this Agreement will in no way affect the right to require such performance at any time thereafter, nor will the waiver of either party of a breach of any provision of this Agreement constitute a waiver of any succeeding breach of the same or any other provision.

40. MISCELLANEOUS. (a) This Agreement does not make either party the agent or legal representative of the other party. Neither party is authorized to create any obligation on behalf of the other party including, but not limited to, the obligation for payment of any service or warranty obligation hereunder; (b) The rights and remedies herein reserved to Company are cumulative and additional to any other rights and remedies provided at law or equity; (c) The official text of this Agreement is in the English language. If this Agreement is translated into another language, the English text will govern any question with respect to interpretation; (d) The headings in this Agreement are for convenience of reference only and do not affect the meaning of this Agreement in any manner.

DEFINITIONS.

Capitalized terms have the meanings set forth in this Section, or in the Section in which they first appear in this Agreement.

"Agreement" means these Allegion Terms and Conditions of Sale and Service, together with any applicable Country Supplement or Region Supplement provided by Company, and all of the documents referenced herein or therein.

"Affiliate" means any Person that directly or indirectly, through one or more intermediaries, controls, is controlled by, or is under common control with, the Company. The term "control" (including the terms "controlled by" and "under common control with") means the possession, directly or indirectly, of the power to direct or cause the direction of the management and policies of a Person, whether through the ownership of voting securities, by contract or otherwise.

"Business Day" means any day except Saturday, Sunday or any other day on which commercial banks located in the United States are authorized or required by Law to be closed for business.

"Company" means Schlage Lock Company, LLC or any subsidiary or affiliate thereof selling products that are part of the Allegion product portfolio. Schlage Lock Company and/or its subsidiary or affiliates will be severally but not jointly liable under the Agreement.

"Company Marks" refers to the Marks of Company.

"Confidential Information" shall mean any and all information provided by either party to the other party pertaining to the disclosing party's business. Confidential Information shall include, but not be limited to, any bidding lists, formulae for products, manufacturing processes, production techniques, packaging processes, methods, research materials, ideas, marketing plans and related materials, quality standards, test results and data, apparatus, engineering drawings, contract documents, computer software, hardware, or firmware, business activities information such as financial information, reports, projections, books and records, customer and supplier information, and operations, customer and supplier lists and data, specifications, know how, and other Proprietary Information or Trade Secrets (as defined herein) that either party may furnish to the other party. Confidential Information shall not include information that: (a) is or becomes publicly known if such public knowledge or disclosure is not the result of any act or failure to act on the part of the receiving party; (b) is, at the time of disclosure, already known to the Receiving Party without utilizing the Confidential Information; (c) is information disclosed to the Receiving Party by a third party which is not to the Receiving Party's knowledge, after inquiry of the third party, under a duty of confidentiality to the Disclosing Party; or (d) is independently developed by the Receiving Party without the use of Confidential Information. The Receiving Party shall have the burden of proof as to prior knowledge and absence of breach. Confidential Information may be furnished in any tangible or intangible form including, but not limited to, writings, drawings, computer and other electronic media, logic diagrams, component specifications, graphs, prototypes, samples, or verbal communications and regardless of whether such information is marked or designated as "confidential." For the avoidance of doubt, all information, knowledge or data disclosed by Company to Customer, regardless of whether disclosed in written, tangible, oral, visual or other form, including, without limitation, sample products, equipment, software, or other objects or material, provided by Company to Customer, and all information, knowledge or data which was obtained by Customer from visits to Company's facilities, shall be considered "Confidential Information" under this Agreement.

"Content" means all information (including without limitation any text, music, sound, photographs, video, graphics, data or software), in any medium, on a particular Company Web page or Website or in Marketing Materials.

"Customer" means the purchaser of Deliverables from Company.

"Deliverables" means any good or service or both purchased by Customer from Company under these General Terms and Conditions of Sale and Service.

"End Users" means the purchaser that (a) has acquired a Deliverable from Customer for (i) its own and its Affiliate's/Affiliates' internal use and not for resale, remarketing or distribution or (ii) incorporation into its own products and (b) is an individual or entity, other than any federal, state or local agency, office or division.

"IP" means all intellectual property and industrial property rights comprising or relating to/ of the following: (a) Patents; (b) Trademarks; (c) internet domain names, whether or not Trademarks, registered by any authorized private registrar or Governmental Authority, web addresses, web pages, website and URLs; (d) works of authorship, expressions, designs and design registrations, whether or not copyrightable, including copyrights and copyrightable works, software and firmware, application programming interfaces, architecture, files, records, schematics, data, data files, and databases and other specifications and documentation; (e) Trade Secrets; and (f) all other intellectual property and industrial property rights, and all rights, interests and protections that are associated with, equivalent or similar to, or required for the exercise of, any of the foregoing, however arising, in each case whether registered or unregistered and including all registrations and applications for, and renewals or extensions of, such rights or forms of protection pursuant to the Laws of any jurisdiction throughout in any part of the world.

"Marketing Materials" means all marketing brochures, buckslips, pamphlets, emails, text, call scripts or other material, whether in printed format, audio or audiovisual format, or in any other format, that contain any (i) Content relating to the Company Deliverables or (ii) Company Marks.

"Marks" means collectively the domain names, trademarks, trade names, service marks, trade dress, logos, and the like used or provided by either party for use in connection with this Agreement.

"Patents" means all patents (including all reissues, divisionals, provisionals, continuations and continuations-in-part, re-examinations, renewals, substitutions and extensions thereof), patent applications, and other patent rights and any other Governmental Authority-issued indicia of invention ownership (including inventor's certificates, petty patents and patent utility models).

"Person" means a person or entity.

"Price Books" mean Company's current Price Book in effect for the applicable Deliverable being purchased by Customer.

"Trade Secrets" means and includes business or technical information of either party, including processes, formulas, devices, techniques, compilations and other material that a party attempts to maintain in secret and that derive commercial value for such party from not being generally known to the public or readily ascertainable through independent development or reverse engineering.

Hinges & Pivots

A

Pulls & Plates

B

Flush Bolts & Coordinators

C

Latches, Catches & Bolts

D

Stops

E

Exterior Hardware

F

Miscellaneous Hardware

G

A

Angle Stop.....D11
Automatic Flush Bolt.....C2, C3, C4
Automatic Wall Holder.....E15
Auxiliary Pusher.....D12

B

Ball Catch.....D13, D16
Ball Catch, Adjustable.....D16
Ball Catch, Dual Adjustable.....D16
Bar Coordinator.....C12
Bar Window Lift.....G7
Bracket.....G12
Broad Butt Hinge.....G9

C

Carry Bar.....C14
Casement Adjuster.....G8
Casement Fastener.....G7, G8
Ceiling Hook.....G4
Chain Door Guard.....D7
Chest Handle.....G12
Closet Pole Socket.....G6
Coat & Hat Hook.....G3, G4
Constant Latching Flush Bolt.....C5
Coordinator, Bar.....C12
Coordinator, Filler Bar.....C12
Coordinator, Mounting Bracket...C13
Crash Stop.....F10

D

Decorative Corner.....G11
Decorative Hasp.....G10
Decorative Hinge.....G10
Door Base Stop, Residential E20, E21
Door Bolt, Dutch.....D6
Door Bolt, Mortise.....D6
Door Guard, Chain.....D7
Door Guard, Solid Bar.....D7
Door Knocker.....F7
Door Numbers.....F9
Door Pull.....B2, B3, B4, B5
Door Pull, Offset.....B5
Door Silencer.....E23
Draw Catch.....G12
Dust Proof Strike.....C11
Dutch Door Bolt.....D6

E

Elbow Catch.....G13

F

Filler Bar.....C12
Finger Pull.....G13
Flexible Door Stop, ResidentialE20, E21
Floor Stop.....E2, E3, E4, E5
Floor Stop & Automatic HolderE6, E8
Floor Stop & Manual Holder.....E7
Floor Stop & Semi-automatic HolderE6
Flush Bolt, Automatic.....C2, C3, C4
Flush Bolt, Constant Latching.....C5
Flush Bolt, ManualC6, C7, C8, C9, C10
Flush Pull.....G13, G14
Friction Lid Support.....G11

G

Gravity Coordinator.....C14

H

Handrail Bracket.....G2
Hasp.....G10
Hinge Pin Stop.....E21, E22
Hinge, 3 Knuckle,
Full Mortise.....A5, A6
Hinge, 5 Knuckle,
Full Mortise.....A6, A7, A8, A9
Hinge, 5 Knuckle, Half Surface...A10
Hinge, Continuous
Pin & Barrel Full Mortise.....A28
Hinge, Continuous Geared
Full Surface.....A19, A20
Hinge, Continuous Geared
Half Surface.....A21, A22
Hinge, Continuous Pin & Barrel
Full Mortise, Full Wrap.....A29, A30
Hinge, Continuous Pin & Barrel
Swing Clear.....A29
Hinge, Electrifies.....A11
Hinge, Pocket.....A52
Hinge, Residential.....A12
Hobbyist Barrel Bolt.....G9
Holder, Kick Down.....E16, E17
Hook and Hasp.....G11
Hook and Staple.....G9

I

Invisible Latch.....D12

K

Kick Down Holder.....E16, E17
Knocker, Door.....F7

L

Letter Box Plate.....F8
Letter Box Sleeve.....F8
Lock Guard.....F2, F3, F4
Long Pulls.....B6

M

Magnetic Catch.....D14
Manual Flush Bolt C6, C7, C8, C9, C10
Manual Wall Holder.....E9, E14
Middle Butt Hinge.....G9
Mortise Door Bolt.....D6
Mounting Brackets.....C13

N

Numbers, Door.....F9

P

Pivot, 1/2" Offset.....A43, A44
Pivot, 3/4" Offset.....A36, A37, A38,
A39, A40,
A41, A42
Pivot, Center Hung.....A45, A46,
A47, A48
Pivot, Intermediate.....A49, A50
Pivot, Intermediate, Electrified...A51
Pivot, Pocket.....A52

Pocket Sliding Door Bolt.....G15
Protection Plates.....B13
Pull Plate.....B7, B8
Pull Plate (less pull).....B6
Push Bar.....B8
Push Bar with Pull.....B9
Push Plate.....B6

R

Riser.....E2, E4
Roller Bumper.....E19
Roller Catch.....D15
Roller Latch.....D8, D9, D10

S

Screen Door Pull.....F10
Side Window Lock.....G7
Slide Door Edge Pull.....G15
Sliding Door Pull.....G16
Solid Bar Door Guard.....D7
Stop, Crash.....F10
Stop, Hinge Pin.....E21, E22
Strike Plate.....D10
Strike, Dust Proof.....C11
Storm Door Latch.....F9
Support Hinge.....G11
Surface Bolt.....D2, D3
Surface Bolt, Decorative.....D4, D5

V

Vandal Resistant Trim...B10, B11, B12
Viewer, One Way.....F5, F6

W

Wall Bumper.....E11, E12
Wall Holder, Automatic.....E15
Wall Holder, Manual.....E9, E14
Wall Stop.....E9, E10, E14
Wardrobe Hook.....G5
Window Lock.....G6

CB1.....	C14	WS45X.....	E15	FS448.....	E5	7226, 7226F.....	A37
DPI.....	C11	046HD.....	A19	WS449.....	E14	7227, 7227F.....	A38
LG1.....	F2	S48.....	D6	FS450.....	E7	7230F.....	A39
MB1.....	C13	FB51.....	C4	FS452.....	E15	7230F-7237F INT.....	A48
MB1F.....	C13	COR52.....	C12	SB453.....	D2	7237F.....	A40
MB1V.....	C13	FB52.....	C4	FS455.....	E15	7244F.....	A41
2.....	G13	053HD.....	A22	FB457.....	C9	7244F-7245F INT.....	A48
DP2.....	C11	FB53.....	C4	FB458.....	C10	7245F.....	A42
MB2.....	C13	054.....	D6	FB458.....	C10	7253.....	A43
MB2F.....	C13	054HD.....	A22	RB470.....	E19	7255.....	A44
MB2V.....	C13	59.....	G2	RB471.....	E19	7255J.....	A44
3CB1.....	A5	059.....	G2	RB472.....	E19	7256.....	A45
3CB1HW.....	A6	60.....	E20	481.....	D7	7259.....	A46
3PB1.....	A5	060.....	E20	482.....	D7	8102.....	B2
3SPI.....	A6	COR60.....	C12	FS495.....	E8	8103.....	B2
MB1F.....	C13	61.....	E20	FS496.....	E8	8103EZ.....	B3
MB3F.....	C13	061.....	E20	FS497.....	E8	8105.....	B3
MB3V.....	C13	FB61.....	C5	FS544.....	E17	8111-5.....	B4
5BB1.....	A7	FB62.....	C5	FS555.....	E17	8112-5.....	B4
5BB1HW.....	A8	63.....	E21	571.....	G3	8121.....	B5
5BB1SC.....	A10	64.....	E21	572.....	G3	8190.....	B5
5BB1SCHW.....	A10	SR64.....	E23	574.....	G4	8200.....	B6
5BB1WT.....	A8	SR65.....	E23	575.....	G4	8300.....	B6
5BB4.....	A9	WS65.....	E10	580.....	G4	8302.....	B7
5BB4HW.....	A9	66.....	G8	581.....	G5	8303.....	B7
5PB1.....	A7	066.....	G7	582.....	G5	8305.....	B7
07.....	G6	SR66.....	E23	585.....	G6	8311.....	B8
COR7G.....	C14	69.....	E21	586.....	G6	8400.....	B13
LB7.....	F2	70.....	E22	600, 700.....	A27	8402.....	B13
FS9.....	E6	71.....	G8	601.....	F8	9011.....	G9
COR9G.....	C14	72.....	E22	602, 702.....	A27	9031.....	G9
LG10.....	F2	COR72.....	C12	611, 711.....	A28	9041.....	G9
CL11.....	D12	73.....	E22	620.....	F8	9042.....	G9
LG11.....	F3	78.....	G9	STK685.....	D10	9070.....	G10
WS11.....	E9	86.....	G9	STK685L.....	D10	9071.....	G10
WS11X.....	E9	90.....	G7	U696.....	F5	9072.....	G10
CL12.....	D12	112HD.....	A21	698.....	F5	9100.....	B8
LG12.....	F3	CS115.....	F10	U698.....	F5	9103EZ.....	B9
FS13.....	E2	157HD.....	A21	700.....	A27	9110.....	G10
LG13.....	F4	159.....	G2	700.....	F6	9120.....	G10
CL14.....	D12	210HD.....	A22	U700.....	F6	9130.....	G11
LG14.....	F4	218.....	G13	701.....	F6	9190.....	B9
RI4.....	E2	221.....	G14	U701.....	F6	9210.....	G11
FS17.....	E2	222.....	G14	702.....	A27	9212.....	G11
AS18.....	D11	223.....	G14	705.....	A28	9220.....	G11
FS18L.....	E3	224HD.....	A22	711.....	A28	9264.....	B6
FS18S.....	E3	227.....	G15	715.....	A29	9265.....	B6
FL20.....	C12	230.....	G15	VR810-DT.....	B10	9266.....	B6
WS20.....	E9	253.....	D5	VR810-NL.....	B10	9267.....	B6
WS20X.....	E9	261.....	C6	VR814-DT.....	B10	9311.....	G11
CL21.....	D13	262.....	C6	VR814-NL.....	B10	9320.....	G12
CL21A.....	D13	265.....	C7	AS895.....	D11	9321.....	G12
22.....	G13	325.....	D14	VR900.....	B11	9330.....	G12
CL22.....	D13	326.....	D14	VR900LLP.....	B11	9340.....	G12
25.....	F10	327.....	D14	VR910-DT.....	B12	91105F.....	A50
026.....	G7	330.....	D15	VR910M-DT.....	B12	91105F-PT.....	A50
026.....	G7	335.....	D15	VR910M-NL.....	B12		
230.....	F9	336.....	D15	VR910-NL.....	B12		
RL30.....	D8	345.....	D16	980.....	F9		
FB31.....	C2	347.....	D16	990.....	G16		
COR32.....	C12	349.....	D16	991.....	G16		
FB32.....	C2	FB358.....	C8	1010.....	A12		
FL32.....	C12	SB360.....	D2	1011.....	A12		
RL32.....	D8	WS401.....	E11	1012.....	A12		
FB33.....	C2	WS402.....	E11	1020.....	A12		
WS33.....	E10	WS404CVX.....	E11	1021.....	A12		
WS33X.....	E10	405.....	G3	RL1152.....	D10		
RL36.....	D10	WS406.....	E12	FS1153.....	E18		
RL38.....	D10	WS407.....	E12	FS1154.....	E18		
40.....	D4	411R.....	E13	SB1600.....	D3		
FS40.....	E6	430.....	E4	SB1601M1.....	D3		
WS40.....	E15	FS434.....	E3	SB1601M2.....	D3		
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A
Hinges & PivotsB
Pulls & PlatesC
Flush Bolts & CoordinatorsD
Latches, Catches & BoltsE
StopsF
Exterior HardwareG
Miscellaneous Hardware

	BHMA	US	Description	Base Material
A Hinges & Pivots	609	US5	Satin Brass Plated, Blackened, Satin Relieved, Clear Coated	Aluminum
	628	US28	Satin Aluminum, Clear Coated	Aluminum
	666	US3	Bright Brass Plated, Clear Coated	Aluminum
	666	US3AL	Bright Brass Plated, Clear Coated	Aluminum
	667	US4	Satin Brass Plated, Clear Coated	Aluminum
B Pulls & Plates	668	US10A	Satin Bronze Plated, Clear Coated	Aluminum
	668	US10AL	Satin Bronze Plated, Clear Coated	Aluminum
	669	US14	Bright Nickel Plated	Aluminum
	670	US15	Satin Nickel Plate	Aluminum
	673	US92	Aluminum, Clear Coated	Aluminum
	689	US65	Aluminum Painted	Aluminum
	702	US26D	Satin Chrome Plated	Aluminum
	703	US10B	Oxidized Satin Bronze Plated, Oil Rubbed	Aluminum
	710	313AN	Dark Bronze Anodized	Aluminum
	711	315AN	Black Anodizes	Aluminum
C Flush Bolts & Coordinators	713	US26D		Aluminum
	716	A10B	Satin Bronze Plated, Clear Coated	Aluminum
		BLK	Black Epoxy Coated	Aluminum
		W	White Epoxy Coated	Aluminum
		T	Tan Epoxy Coated	Aluminum
		BRN	Brown Epoxy Coated	Aluminum
		CLR	Clear Epoxy Coated	Aluminum
		US5	Satin Brass Plated, Blackened, Satin Relieved, Clear Coated	Aluminum
		A5	Aluminum	Aluminum
		AP	Aluminum, Prime Paint	Aluminum
D Latches, Catches & Bolts		R	Red Epoxy Coated	Aluminum
		US26D	Satin Chrome Plated	Aluminum
	690	US69	Dark Bronze Painted	Any
	605	US3	Bright Brass, Clear Coated	Brass
	606	US4	Satin Brass, Clear Coated	Brass
	689	SP28	Aluminum Painted	Brass
	691	SP10	Light Bronze Painted	Brass
	693	SPBLK	Black Painted	Brass
	695	SP313	Dark Bronze Painted	Brass
	706	SP4	Brass	Brass
E Stops	716		Satin Bronze Plated, Clear Coated	Brass
	P600	P600	Primed for Paint	Brass
		BRN	Brown	Brass
		GRY	Gray	Brass
		TAN	Tan	Brass
		White	White Rubber	Brass
F Exterior Hardware	618	US14	Bright Nickel Plated, Clear Coated	Brass, Bronze
	619	US15	Satin Nickel Plated, Clear Coated	Brass, Bronze
	620	US15A	Satin Nickel Plated, Blackened, Satin Relieved, Clear Coated	Brass, Bronze
	622	US19	Flat Black Coated	Brass, Bronze
	625	US26	Polished Chrome Plated	Brass, Bronze
	626	US26D	Satin Chrome Plated	Brass, Bronze
G Miscellaneous Hardware	612	US10	Satin Bronze, Clear Coated	Bronze

BHMA	US	Description	Base Material
613	US10B	Dark Oxidized Satin Bronze, Oil Rubbed Finish	Bronze
	White	White	Plastic
	BLK	Black Plastic	Plastic
	BRN	Brown Plastic	Plastic
	CLR	Clear Plastic	Plastic
	P	Plastic	Plastic
	A3	Rubber	Rubber
	R	Rubber	Rubber
	Brown	Brown Rubber	Rubber
	Tan	Tan Rubber	Rubber
	Gray	Gray Rubber	Rubber
629	US32	Polished Stainless Steel	Stainless Steel 300
630	US32D	Satin Stainless Steel	Stainless Steel 300
654	US32D	Satin Stainless Steel	Stainless Steel 400
600	USP	Primed for Paint - Steel	Steel
600	FP	Primed for Paint - Steel	Steel
603	2G	Zinc Plated	Steel
603	2C	Zinc Plated	Steel
604	2G	Zinc Plated/Dichromate Sealed	Steel
632	US3	Bright Brass Plated, Clear Coated	Steel
638	US5	Satin Brass Plated, Blackened, Satin Relieved, Clear Coated	Steel
639	US10	Satin Bronze Plated, Clear Coated	Steel
640	US10B	Dark Oxidized Satin Bronze, Oil Rubbed Finish	Steel
645	US24	Bright Nickel Plated, Clear Coated	Steel
646	US15	Satin Nickel Plated, Clear Coated	Steel
652	US26D	Satin Chrome Plated	Steel
689	SP28	Aluminum Painted	Steel
693	SPBLK	Black Painted	Steel
695	SP313	Dark Bronze Painted	Steel
695	SP313	Dark Bronze Painted	Steel
706	SP4	Brass	Steel
716		Satin Bronze Plated, Clear Coated	Steel
716	F10B		Steel
	A5	Steel	Steel
406			Zinc/Brass

Antimicrobial Coating (AM) inhibits the growth of bacteria, available on many Ives Architectural Hardware Products.

Hinges & Pivots
A

Pulls & Plates
B

Flush Bolts & Coordinators
C

Latches, Catches & Bolts
D

Stops
E

Exterior Hardware
F

Miscellaneous Hardware
G

A

Hinges & Pivots

B

Pulls & Plates

C

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

E

Stops

F

Exterior Hardware

G

Miscellaneous Hardware

Packaging Key

Many Ives items are available in a variety of packaging forms designated by a prefix. The Ives Price Book contains the specific packaging options for each Ives product. Below is a description of these options.

Symbol	Description of Package
C	Carded
CGC	Commercial Grade Carded
SC	Schlage Branded Carded
SP	Slim-Pak
SPS	Schlage Branded Slim-Pak

Door Handing

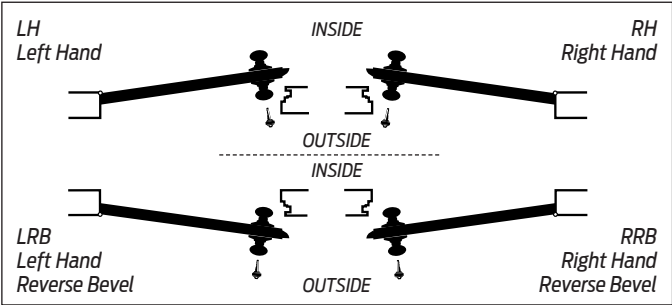


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General Hinge Information

SELECTION OF THE PROPER WEIGHT AND BEARING TYPE

Standard Weight Plain Bearing
Standard Weight Ball Bearing, Concealed Bearing
Heavy Weight Ball Bearing, Concealed Bearing

CONSIDERATIONS TO DETERMINE WEIGHT AND BEARING TYPE:

- Weight of Door
- Frequency of use
- Frame
- Door Hardware

Always use ball bearing or concealed bearing hinges for doors with door closers and in all fire rated openings. Heavy weight doors and high frequency doors should use heavy weight ball bearing or concealed bearing hinges.

GUIDELINES FOR HINGE METAL

- Interior door or non-corrosive area use: Plated or painted Steel
- Interior labeled door use: Plated or Painted Steel, Stainless Steel
- Interior door in corrosive area use: Stainless Steel, Brass, Bronze
- Exterior doors use: Stainless Steel, Brass, Bronze

Standard pin material are Brass Hinge – Steel Pin,
Stainless Steel Hinge – Stainless Steel Pin, Steel Hinge – Steel Pin

GUIDELINES FOR FREQUENCY OF DOOR USAGE:

Build Type	Daily Usage	Hinge Type
High Frequency/ Heavy Weight Door		
Large Department Store Entrance	5,000	Heavy Weight
Hospital Corridor and Surgical Doors	5,000	Heavy Weight
Large Office Building Entrance	4,000	Heavy Weight
School Entrance	1,250	Heavy Weight
School Toilet Door	1,250	Heavy Weight
Office Stairwell	500	Heavy Weight
Office Building Toilet Door	400	Heavy Weight
Medium Frequency/ Medium Weight Door		
School Corridor Door	100	Standard Weight
Hospital Consultation Rooms	100	Standard Weight
Office Building Corridor Door	80	Standard Weight
Store Toilet Door	60	Standard Weight
Storage Room	50	Standard Weight
Low Frequency /Light Door		
Residential Entrance	30	Plain Bearing
Interior Residential	20	Plain Bearing

ANSI/BHMA GRADE/MINIMUM CYCLE REQUIREMENTS

Grade 1: 2,500,000 Heavy Weight Ball & Concealed Bearing
Grade 2: 1,500,000 Standard Weight Ball & Concealed Bearing
Grade 3: 350,000 Light Weight Plain Bearing

CONSIDERATIONS TO DETERMINE HINGE SIZE

- Door Width
- Door Thickness
- Weight
- Clearance

GUIDELINES FOR HINGE HEIGHT

DOOR THICKNESS IN INCHES	DOOR WIDTH IN INCHES	HINGE HEIGHT IN INCHES
1-3/8"	Up to 32"	3-1/2"
1-3/8"	32" to 37"	4"
1-3/4"	Up to 36"	4-1/2"
1-3/4"	36" to 48"	5"
1-3/4"	Over 48"	6"
2" - 2-1/2"	Up to 42"	5" heavy weight
2" - 2-1/2"	Over 42"	6" heavy weight

CLEARANCE REQUIREMENT*

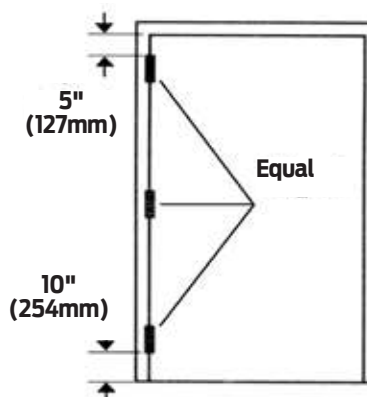
DOOR THICKNESS	CLEARANCE NEEDED	HINGE OPEN WIDTH
1-3/8"	3/4"	4"
1-3/4"	1"	4"
1-3/4"	1-1/2"	4-1/2"
1-3/4"	2"	5"
1-3/4"	3"	6"
2"	1"	4-1/2"
2"	1-1/2"	5"
2"	2-1/2"	6"
2-1/4"	1"	5"
2-1/4"	2"	6"
2-1/2"	3/4"	5"
2-1/2"	1-3/4"	6"
3"	3/4"	8"
3"	2-3/4"	8"

*Distance needed between wall and door at 180° to allow for any projections from wall; trim, decorative molding, etc.

GUIDELINES FOR NUMBER OF HINGES

- Doors under 7'6" 3 hinges
- Doors over 7'6" 4 hinges

LOCATION OF HINGES



Top hinge 5" from jamb rabbet to top of barrel

Bottom hinge 10" from bottom edge of barrel to finished floor

Third hinge centered between top and bottom hinges

Note: Some western states use a standard 7" from top and 11" from the bottom

Ives Hinge Number System

Please note: For availability of specific models, please refer to the item's catalog page or consult Customer Service.

How to Order:

<u>5</u>	-	<u>BB</u>	-	<u>1</u>	-	<u>HW</u>	-	<u>4.5x4.5</u>	-	<u>652</u>	-	<u>NRP</u>													
Number of Knuckles: 3 - 3 Knuckle 5 - 5 Knuckle Function: PB Plain Bearing BB Ball Bearing CB Concealed Bearing SP Spring Hinge Type: 1 Full Mortise 2 Half Mortise 3 Full Surface 4 Half Surface Weight/Options: Blank Standard Weight HW Heavy Weight SC Swing Clear SH Security Stud WT Wide Throw HT Hospital Tip RC Round Corners, 1/4" or 5/8" Radius Size Examples: <table border="0"> <tr> <td>3.5 x 3.5</td> <td>4.5 x 5</td> <td>5 x 6</td> <td rowspan="4"><i>Larger sizes, up to 6 x 8 are available. Consult factory.</i></td> </tr> <tr> <td>4 x 4</td> <td>4.5 x 6</td> <td>5 x 7</td> </tr> <tr> <td>4.5 x 4</td> <td>5 x 4.5</td> <td></td> </tr> <tr> <td>4.5 x 4.5</td> <td>5 x 5</td> <td></td> </tr> </table>													3.5 x 3.5	4.5 x 5	5 x 6	<i>Larger sizes, up to 6 x 8 are available. Consult factory.</i>	4 x 4	4.5 x 6	5 x 7	4.5 x 4	5 x 4.5		4.5 x 4.5	5 x 5	
3.5 x 3.5	4.5 x 5	5 x 6	<i>Larger sizes, up to 6 x 8 are available. Consult factory.</i>																						
4 x 4	4.5 x 6	5 x 7																							
4.5 x 4	5 x 4.5																								
4.5 x 4.5	5 x 5																								
Finish (Some models require extended lead times): 600 USP - Steel 605 US3 - Brass 606 US4 - Brass 612 US10 - Brass 613 US10B - Brass 619 US15 - Brass 625 US26 - Brass 626 US26D - Brass 630 US32D - Stainless 632 US3 - Steel 633 US4 - Steel 639 US10 - Steel 640 US10B - Steel 641 US10A - Steel 643 US11 - Steel 646 US15 - Steel 651 US26 - Steel 652 US26D - Steel																									
Special Pins Applications: NRP Non-Removable Pin TW4 Four Wire TW8 Eight Wire MON Monitor TW4M Four Wire with Monitor TW8M Eight Wire with Monitor																									

A4	Hinges & Pivots
B	Pulls & Plates
C	Flush Bolts & Coordinators
D	Latches, Catches & Bolts
E	Stops
F	Exterior Hardware
G	Miscellaneous Hardware

ANSI Hinge Identification Reference

A = ANSI

First number indicates material

- 1 – Cast, forged or extruded brass or bronze
- 2 – Wrought brass or bronze
- 5 – Stainless steel
- 8 – Wrought or forged steel, or malleable iron

Second number indicates product type

- 1 – Full mortise
- 2 – Half mortise
- 3 – Full surface
- 4 – Half surface
- 5 – Anchor, pivot reinforced or thrust pivot unit or hinge sets
- 6 – Olive knuckle hinges
- 7 – Pivot hinge
- 8 – Rescue hardware

Third number indicates function

- 1 – Anti-friction bearing
- 2 – Anti-friction bearing, swing clear
- 3 – Plain bearing
- 4 – 4 to 0, special conditions

Fourth number indicates grade

- 1 – Grade 1, 4BB Extra Heavy Duty
- 2 – Grade 2, 2BB Standard Duty
- 3 – Grade 3, Plain Bearing

Example:

A8111 – Steel, Full Mortise, Anti-friction, Grade 1

A5112 – Stainless, Full Mortise, Anti Friction Bearing, Grade 2



Meets ANSI/BHMA A156.1
A8133 – Steel
A5133 – Stainless Steel
A2133 – Brass

3PB1 3 Knuckle, Plain Bearing Full Mortise Hinge

- For standard weight doors
- Low frequency usage
- Packed with wood and metal screws

Not for use with a door closer.

Options

- NRP, Non-Removable Pin
- SH, Security Stud
- HT, Hospital Tip
- RC, Round Corners - 1/4" or 5/8" Radius
- SEC, Security Fasteners - Pin-in-Socket

Dimensions

Size (Inches)	Size (mm)	Gauge
3.5 x 3.5	90 x 90	0.134
4 x 4	102 x 102	0.134
4.5 x 4	114 x 102	0.134
4.5 x 4.5	114 x 114	0.134
5 x 4.5	127 x 114	0.134



Meets ANSI/BHMA A156.1
A8112 – Steel
A5112 – Stainless Steel
A2112 – Brass

3CB1 3 Knuckle, Concealed Bearing Full Mortise Hinge

- For standard weight doors
- Medium frequency usage
- Packed with wood and metal screws

Options

- NRP, Non-Removable Pin
- SH, Security stud
- HT, Hospital Tip
- RC, Round Corners - 1/4" or 5/8" Radius
- SEC, Security Fasteners - Pin-in-Socket

Dimensions

Size (Inches)	Size (mm)	Gauge
3.5 x 3.5	90 x 90	0.134
4 x 4	102 x 102	0.134
4.5 x 4	114 x 102	0.134
4.5 x 4.5	114 x 114	0.134
5 x 4.5	127 x 114	0.134

Finishes brass

Ives Finish	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
BHMA	605	606	612	613	614	616	619	625	626

Finishes steel

Ives Finish	USP	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
BHMA	600	632	633	639	640	641	643	646	651	652

Finishes stainless steel

Ives Finish	US32	US32D
BHMA	629	630



Meets ANSI/BHMA A156.1
A8112 – Steel
A5112 – Stainless Steel
A2112 – Brass

3CB1HW 3 Knuckle, Concealed Bearing Full Mortise Hinge

- For heavy weight doors
- High frequency usage
- Packed with wood and metal screws

Options

- NRP, Non-Removable Pin
- SH, Security stud
- HT, Hospital Tip
- RC, Round Corners - 1/4" or 5/8" Radius
- SEC, Security Fastners - Pin-in-Socket

Dimensions

Size (Inches)	Size (mm)	Gauge
4.5 x 4	114 x 102	0.180
4.5 x 4.5	114 x 114	0.180
5 x 4.5	127 x 114	0.190
5 x 5	127 x 127	0.190



Meets ANSI/BHMA A156.7
K81071F – Steel
K51071F – Stainless Steel
UL listed for use with fire rated doors

3SP1 3 Knuckle Spring Full Mortise Hinge

- For automatic closing of doors
- Packed with wood and metal screws

Options

- HT, Hospital Tip
- RC, Round Corners - 1/4" or 5/8" Radius
- SEC, Security Fastners - Pin-in-Socket

Dimensions

Size (Inches)	Size (mm)	Gauge
4 x 4	102 x 102	0.134
4.5 x 4	114 x 102	0.134
4.5 x 4.5	114 x 114	0.134

Finishes *brass*

Ives Finish	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
BHMA	605	606	612	613	614	616	619	625	626

Finishes *steel*

Ives Finish	USP	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
BHMA	600	632	633	639	640	641	643	646	651	652

Finishes *stainless steel*

Ives Finish	US32	US32D
BHMA	629	630



Meets ANSI/BHMA A156.1
A8133 – Steel
A5133 – Stainless Steel
A2133 – Brass

5PB1 5 Knuckle, Plain Bearing Full Mortise Hinge

- For standard weight doors
- Low frequency usage
- Packed with wood and metal screws

Not for use with a door closer.

Options

- NRP, Non-Removable Pin
- SH, Security Stud
- HT, Hospital Tip
- RC, Round Corners - 1/4" or 5/8" Radius
- SEC, Security Fasteners - Pin-in-Socket

Dimensions

Size (Inches)	Size (mm)	Gauge
3.5 x 3.5	89 x 89	0.123
4 x 4	102 x 102	0.134
4.5 x 4	114 x 102	0.134
4.5 x 4.5	114 x 114	0.134
5 x 4.5	127 x 114	0.134



Meets ANSI/BHMA A156.1
A8112 – Steel
A5112 – Stainless Steel
A2112 – Brass

5BB1 5 Knuckle, Ball Bearing Full Mortise Hinge

- For standard weight doors
- Medium frequency usage
- 2 ball bearing
- Packed with wood and metal screws

Options

- NRP, Non-Removable Pin
- SH, Security Stud
- HT, Hospital Tip
- RC, Round Corners - 1/4" or 5/8" Radius
- SEC, Security Fasteners - Pin-in-Socket

Dimensions

Size (Inches)	Size (mm)	Gauge	Size (Inches)	Size (mm)	Gauge
3.5 x 3.5	80 x 102	0.130	5 x 4.5	127 x 114	0.146
4 x 4	102 x 102	0.130	5 x 5	127 x 127	0.146
4.5 x 4	114 x 102	0.134			
4.5 x 4.5	114 x 114	0.134			

Finishes brass

Ives Finish	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
BHMA	605	606	612	613	614	616	619	625	626

Finishes steel

Ives Finish	USP	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
BHMA	600	632	633	639	640	641	643	646	651	652

Finishes stainless steel

Ives Finish	US32	US32D
BHMA	629	630



Meets ANSI/BHMA A156.1
A8111 – Steel
A5111 – Stainless Steel
A2111 – Brass

5BB1HW

5 Knuckle, Ball Bearing, Heavy Weight Full Mortise Hinge

- For heavy weight doors
- High frequency usage
- 4 ball bearing
- Packed with wood and metal screws

Options

- NRP, Non-Removable Pin
- SH, Security Stud
- HT, Hospital Tip
- RC, Round Corners - 1/4" or 5/8" Radius
- SEC, Security Fasteners - Pin-in-Socket

Dimensions

Size (Inches)	Size (mm)	Gauge	Size (Inches)	Size (mm)	Gauge
4.5 x 4	114 x 102	0.180	5 x 4.5	127 x 114	0.190
4.5 x 4.5	114 x 114	0.180	5 x 5	127 x 127	0.190



Meets ANSI/BHMA A156.1
A8111 – Steel

5BB1WT

5 Knuckle, Ball Bearing, Wide Throw Full Mortise Hinge

- For medium weight doors
- Medium frequency usage
- 2 ball bearing
- Packed with wood and metal screws

Options

- NRP, Non-Removable Pin
- SH, Security Stud
- HT, Hospital Tip
- RC, Round Corners - 1/4" or 5/8" Radius
- SEC, Security Fasteners - Pin-in-Socket

Dimensions

Size (Inches)	Size (mm)	Gauge
4.5 x 5	114 x 127	0.134
4.5 x 6	114 x 152	0.134
5 x 6	127 x 152	0.146
5 x 7	127 x 178	0.146
5 x 8	127 x 203	0.146

Finishes *brass*

Ives Finish	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
BHMA	605	606	612	613	614	616	619	625	626

Finishes *steel*

Ives Finish	USP	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
BHMA	600	632	633	639	640	641	643	646	651	652

Finishes *stainless steel*

Ives Finish	US32	US32D
BHMA	629	630



Meets ANSI/BHMA A156.1
A8412 – Steel

5BB4 5 Knuckle, Ball Bearing, Half Surface Hinge

- For standard weight doors
- Medium frequency usage
- 2 ball bearing
- Packed with through bolts, grommets and sheet metal screws

Options

- NRP, Non-Removable Pin
- HT, Hospital Tip
- RC, Round Corners - 1/4" or 5/8" Radius
- SEC, Security Fastners - Pin-in-Socket

Dimensions

Size (Inches)	Size (mm)	Gauge
4.5	114	0.134



Meets ANSI/BHMA A156.1
A8411 – Steel

5BB4HW 5 Knuckle, Ball Bearing, Half Surface Heavy Weight Hinge

- For heavy weight doors
- High frequency usage
- 4 ball bearing
- Packed with through bolts, grommets and sheet metal screws

Options

- NRP, Non-Removable Pin
- HT, Hospital Tip
- RC, Round Corners - 1/4" or 5/8" Radius
- SEC, Security Fastners - Pin-in-Socket

Dimensions

Size (Inches)	Size (mm)	Gauge
4.5	114	0.180

Finishes *brass*

Ives Finish	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
BHMA	605	606	612	613	614	616	619	625	626

Finishes *steel*

Ives Finish	USP	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
BHMA	600	632	633	639	640	641	643	646	651	652

Finishes *stainless steel*

Ives Finish	US32	US32D
BHMA	629	630



Meets ANSI/BHMA A156.1
A8122 – Steel
A5122 – Stainless Steel
A2122 – Brass

5BB1SC

5 Knuckle, Ball Bearing, Swing Clear Full Mortise Hinge

- For standard weight doors
- Square edge standard
- Medium frequency usage
- 2 ball bearing
- Packed with flat head wood and metal screws

Designed to completely clear the opening when door is opened 92 degrees.

Options

- NRP, Non-Removable Pin
- B, beveled edge door
- HT, Hospital Tip
- RC, Round Corners - 1/4" or 5/8" Radius
- SEC, Security Fastners - Pin-in-Socket

Dimensions

Size (Inches)	Size (mm)	Gauge
4.5	114	0.134
5	127	0.145



Meets ANSI/BHMA A156.1
A8121 – Steel

5BB1SCHW

5 Knuckle, Ball Bearing, Swing Clear Heavy Weight Full Mortise Hinge

- For heavy weight doors
- High frequency usage
- 2 ball bearing
- Packed with flat head wood and metal screws

Designed to completely clear the opening when door is opened 92 degrees.

Options

- NRP, Non-Removable Pin
- B, beveled edge door
- HT, Hospital Tip
- RC, Round Corners - 1/4" or 5/8" Radius
- SEC, Security Fastners - Pin-in-Socket

Dimensions

Size (Inches)	Size (mm)	Gauge
4.5	114	0.180
5	127	0.190

Finishes brass

Ives Finish	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
BHMA	605	606	612	613	614	616	619	625	626

Finishes steel

Ives Finish	USP	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
BHMA	600	632	633	639	640	641	643	646	651	652

Finishes stainless steel

Ives Finish	US32	US32D
BHMA	629	630



UL Listed - UL634
Meets ANSI/BHMA A156.1
A8111 - Steel
A5111 - Stainless Steel
A2111 - Brass

Electrified Hinge

Available Options

- Through Wire - TW4 (4 wires) & TW8 (8 wires)
- Monitor - MON
- Through Wire with Monitor - TW4M & TW8M
- Available in 3 and 5 Knuckle
- One hinge per box, packed with wood and machine screws
- Hinge is NRP as a standard
- High quality brass ferrules and plastic tubing protect the wires
- Through-wire hinges cycle tested to ensure durability
- Ives warranty applies - 12 months from date of shipment

Through-Wire is rated for 50 volts AC/DC at 3.5 amp continuous and 16 amp pulse, maximum pulse 400 mili second.

Monitor rated 30VDC at .5 amp

Special wire configurations available, contact factory.

Finishes *brass*

Ives Finish	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
BHMA	605	606	612	613	614	616	619	625	626

Finishes *steel*

Ives Finish	USP	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
BHMA	600	632	633	639	640	641	643	646	651	652

Finishes *stainless steel*

Ives Finish	US32	US32D
BHMA	629	630



1010
Schlage Carded Only



1011



1012
Schlage Carded Only



1020
Schlage Carded Only



1021
Schlage Carded Only

1000 Series Residential Hinges

- Full mortise hinges in 2 sizes: 3-1/2" and 4".
- Two corner options: Square corners and 5/8" or 1/4" radius corners.
- Substrates include: Steel.

Model	Size	Corner
1010	3-1/2" x 3-1/2"	Square Corner
1011	3-1/2" x 3-1/2"	5/8" Radius Corner
1012	3-1/2" x 3-1/2"	1/4" Radius Corner
1020	4" x 4"	Square Corner
1021	4" x 4"	5/8" Radius Corner

Finishes *steel*

Ives Finish	F605E	F609E	F619E	F620E*	F625E**	F716E
BHMA	632		646		651	

- * *not available on 1012 hinge*
- * *only available on 1011*

Ives Continuous Hinges are designed to last the life of the building. The unique design distributes the weight of the door along the entire length of the frame, reducing the high amount of stress normally associated at top of door and frame on butt hinge applications. Not only does this reduce hinge failure, it also keeps your door in constant alignment, eliminating the chance of door sag. These characteristics make continuous hinges suitable for high use/high traffic doors.

The design of a continuous hinge eliminates the gap between the door and the frame. The absence of gap also helps prevent finger from being pinched, making it a safer device than traditional hinges. These benefits result in higher efficiency and less maintenance, maximizing the value of your opening investment.

Continuous hinges are available in two styles; aluminum geared and pin and barrel in steel or stainless steel.

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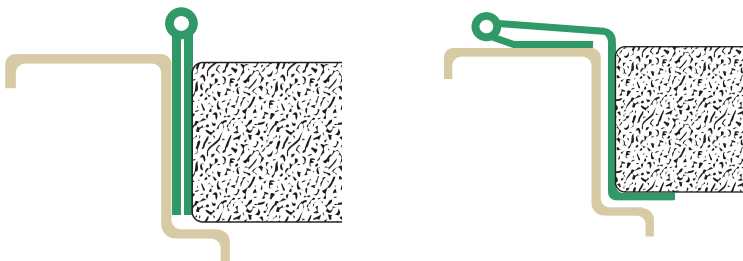
Aluminum Geared

Geared continuous hinges utilize a single gear section for the leaf and a separate gear section for the frame side of the door. The two are held in place together by a full length cover channel and rotate on a series of bearings.



Pin and Barrel

Pin and Barrel hinges share many of the same characteristics of a traditional hinge. Both have a center pin and rolled knuckles. However, a continuous Pin and Barrel hinge stretches along the entire length of the frame. Ives offers both stainless steel and primed steel to best match your specific application.



Lifetime Warranty Ives continuous hinges carry a limited lifetime warranty, ensuring your opening will function to your satisfaction every time.

Cross Reference Guide

Ives	Hager	Markar	McKinney	Pemko	Select	Stanley
Geared						
045HD	780-045HD					
046HD	780-046HD					
053HD	780-053HD					
054HD	780-054HD					
112HD	780-112HD		MCK-12HD	FMSLFHD	SL11HD	661HD
210HD	780-210HD		MCK-22HD	FSHD	SL21HD	665HD
224HD	780-224HD		MCK-25HD	FMHD	SL24HD	662HD
157XY*	780-157HD		MCK-58HD	FSCPHD	SL57HD	664HD
157HD	780-157HD		MCK-58HD	FSCPHD	SL57HD	664HD
Pin and Barrel						
600		FM200			SL200	
602		FS202				
611		N/A				
700	790-900	FM300			SL300	651
702		FS302			SL302	
705	790-905	HG305			SL305	652
711	790-911	HG311			SL311	656
715	790-915	HG315				653

*Application only. Features and benefits exceed current market standard.

Aluminum Geared Hinges

General Information

Material

6063-T6 Aluminum

Standard Lengths

83", 85", 95", 120"

Custom lengths are available up to 120", consult factory.

Finishes

CL - US28 (628) Clear Anodized

BR - 313AN (710) Dark Bronze

Hinge Duty

All Ives Aluminum Geared Hinges are Heavy Duty (HD).

Amount of bearings varies by size:

83" – 32 Bearings

85" – 32 Bearings

95" – 36 Bearings

120"- 47 Bearings

Door Weight

Each hinge can hold a door up to 450 lbs (Rivet nuts recommended) and a max door width of 4'0".

ANSI Certified

All Ives Aluminum Geared Hinges excluding the 157XY are certified to ANSI 156.26, Grade 1

UL Listed

All Ives Aluminum Geared Hinges excluding the 157XY are tested and approved UL 10C (90 minutes).

Field Modifications:

All Ives Aluminum Geared Continuous Hinges can be cut to length during installation. The unique mounting pattern allows to cut up to 6" from bottom while still having double row fasteners. If cut more than 13.5", other modifications may be necessary.

Electrification Options

Only available for the full mortise hinges

Electric Power Transfer (EPT)

Electric power transfer provides a means of transferring power from the door frame to the edge of a swinging door. Ives Continuous Hinges provide standard cut outs to fit Von Duprin EPT-2, EPT-10 and PNT-1 devices. Consult factory for other electrical cut out options.

Electrical Through-Wire (TW)

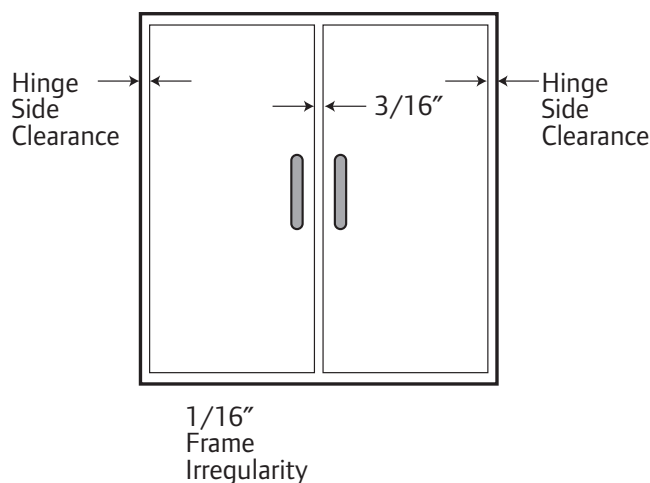
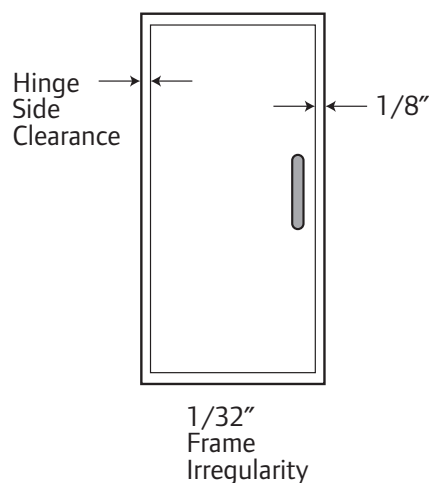
Provides electric power transfer from the frame to the door in order to supply power to an electrified mortise or cylindrical locks, exit devices with electric latch retraction, and/or electric strikes (pairs of doors). Through-wire is rated 50 volts AC/DC at 3.5 amp continuous and 16 amp pulse. Maximum pulse 400 milliseconds. Ives thru-wire hinges are fully compatible with 4 wire and 8 wire installations.

Aluminum Geared Hinges

How to Order:

	<u>112HD</u>	-	<u>CL</u>	-	<u>83</u>	-	<u>EPT</u>
Model							
045HD	Half Surface						
046HD	Half Surface						
053HD	Half Surface						
054HD	Half Surface						
112HD	Full Mortise						
157XY	Full Surface - Center Pivot						
157HD	Full Surface - Center Pivot						
210HD	Full Surface - Swing Clear						
224HD	Full Mortise - Edge Protector						
Finish							
CL	Clear						
BR	Bronze						
<i>Custom finishes available, consult factory</i>							
Length							
83"							
* 85"							
95"							
120"							
<i>Other lengths available up to 120", consult factory. Handing required.</i>							
Options							
**EPT	Electric Power Transfer Prep						
**TW8	Electric Through Wire						
*SEC	Security Fasteners - Pin-in-Socket						
WD	Wood Fasteners						
TF	Thread forming screws (pilot hole required)						
HT	Hospital Tip						
TWP	Through Wire Panel						
* Not available with 157XY Continuous Hinge							
** Full Mortise Models Only							

Aluminum Geared Hinges - Clearance Requirements



SINGLE DOOR

Model	Hinge-Side Clearance	Lock-Side Clearance	Frame Irregularity	Beveled Door Clearance	Door Under-Sizing Square Edged	Door Under-Sizing Beveled Edged
045HD	5/32"	1/8"	1/32"	1/32"	5/16"	11/32"
046HD	5/32"	1/8"	1/32"	1/32"	5/16"	11/32"
053HD	5/32"	1/8"	1/32"	1/32"	5/16"	11/32"
054HD	5/32"	1/8"	1/32"	1/32"	5/16"	11/32"
112HD	5/16"	1/8"	1/32"	1/32"	15/32"	1/2"
224HD	5/16"	1/8"	1/32"	1/32"	15/32"	1/2"
210HD	1/16"	1/8"	1/32"	1/32"	7/32"	1/4"
157XY	1/16"	1/8"	1/32"	1/32"	7/32"	1/4"

PAIR OF DOORS

Model	Hinge-Side Clearance	Lock-Side Clearance	Frame Irregularity	Beveled Door Clearance	Square Edged Total	Square Edged Each Door	Door Under-Sizing Beveled Edged Total	Door Under-Sizing Beveled Edged Each Door
045HD	5/32"	3/16"	1/16"	1/16"	9/16"	9/32"	5/8"	5/16"
046HD	5/32"	3/16"	1/16"	1/16"	9/16"	9/32"	5/8"	5/16"
053HD	5/32"	3/16"	1/16"	1/16"	9/16"	9/32"	5/8"	5/16"
054HD	5/32"	3/16"	1/16"	1/16"	9/16"	9/32"	5/8"	5/16"
112HD	5/16"	3/16"	1/16"	1/16"	7/8"	7/16"	15/16"	15/32"
224HD	5/16"	3/16"	1/16"	1/16"	7/8"	7/16"	15/16"	15/32"
210HD	1/16"	3/16"	1/16"	1/16"	3/8"	3/16"	7/16"	7/32"
157XY	1/16"	3/16"	1/16"	1/16"	3/8"	3/16"	7/16"	7/32"

Templates and installation instructions available on line at www.allegion.com/us

**045HD Half Surface Continuous Hinge**

- Half surface for retrofit or new construction
- Handing required when modified
- Frame leaf depth 1-9/16"
- 9/32" door inset

Standard lengths 83", 85", 95", 120"

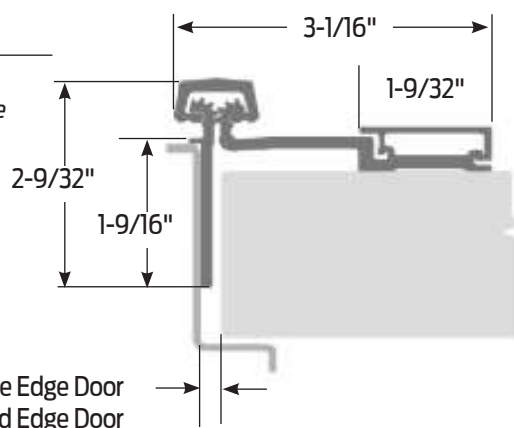
Standard Mounting Hardware

12-24 x 1/2" steel self tapping screw
 1/4-20 x 1-1/2" AL Sex Bolt
 1/4-20 x 1" Steel Shoulder Bolt
 12-24 x 3/4" Steel Self Drilling Shoulder Bolt
 Optional SEC-Security Fasteners available

Finishes

Clear (CL), Dark Bronze (DB)

Custom Anodizing and Painting are available, consult factory.



5/32" Clearance for Square Edge Door
 3/16" Clearance For Beveled Edge Door

**046HD Half Surface Continuous Hinge**

- Half surface for retrofit or new construction
- Handing required when modified
- Frame leaf depth 1-15/16"
- 9/32" door inset

Standard lengths 83", 85", 95", 120"

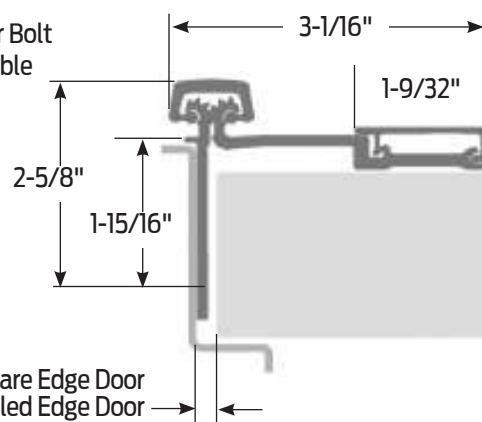
Standard Mounting Hardware

12-24 x 1/2" steel self tapping screw
 1/4-20 x 1-1/2" AL Sex Bolt
 1/4-20 x 1" Steel Shoulder Bolt
 12-24 x 3/4" Steel Self Drilling Shoulder Bolt
 Optional SEC-Security Fasteners available

Finishes

Clear (CL), Dark Bronze (DB)

Custom Anodizing and Painting are available, consult factory.



5/32" Clearance for Square Edge Door
 3/16" Clearance For Beveled Edge Door



053HD Half Surface Continuous Hinge

- Half surface for retrofit or new construction
- Handing required when modified
- Frame leaf depth 1-9/16"
- 1/8" door inset

Standard lengths 83", 85", 95", 120"

Standard Mounting Hardware

12-24 x 1/2" steel self tapping screw

1/4-20 x 1-1/2" AL Sex Bolt

1/4-20 x 1" Steel Shoulder Bolt

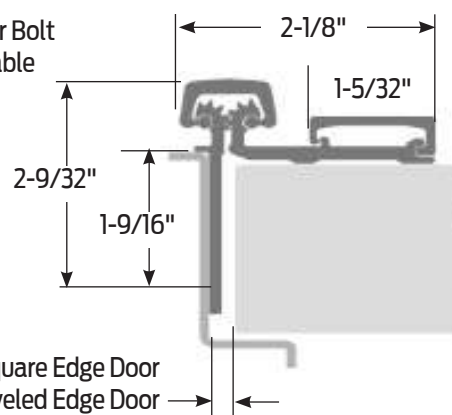
12-24 x 3/4" Steel Self Drilling Shoulder Bolt

Optional SEC-Security Fasteners available

Finishes

Clear (CL), Dark Bronze (DB)

Custom Anodizing and Painting are available, consult factory.



5/32" Clearance for Square Edge Door

3/16" Clearance For Beveled Edge Door



054HD Half Surface Continuous Hinge

- Half surface for retrofit or new construction
- Handing required when modified
- Frame leaf depth 1-15/16"
- 1/8" door inset

Standard lengths 83", 85", 95", 120"

Standard Mounting Hardware

12-24 x 1/2" steel self tapping screw

1/4-20 x 1-1/2" AL Sex Bolt

1/4-20 x 1" Steel Shoulder Bolt

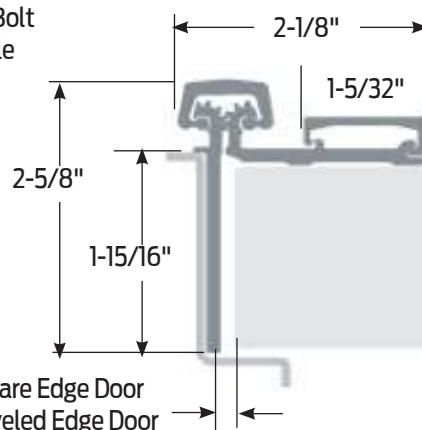
12-24 x 3/4" Steel Self Drilling Shoulder Bolt

Optional SEC-Security Fasteners available

Finishes

Clear (CL), Dark Bronze (DB)

Custom Anodizing and Painting are available, consult factory.



5/32" Clearance for Square Edge Door

3/16" Clearance For Beveled Edge Door



112HD Full Mortise Aluminum Geared Continuous Hinge

- Non Handed
- Flush Mounted, No Inset
- 48" Maximum Door Width
- Beveled or Square Edge Doors

For Doors Weighing up to 450 pounds without reinforcing,
600 pounds with reinforcing

Standard lengths 83", 85", 95", 120"

Standard Mounting Hardware

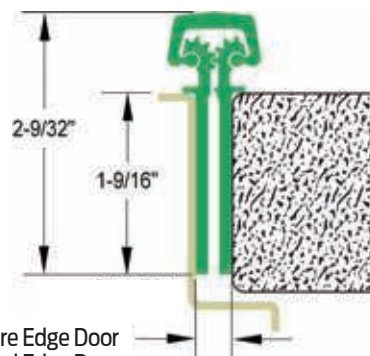
12-24 X 3/4" Steel Self Drilling, Self Tapping Screws

Optional WD - Wood Screws or SEC - Security Fasteners Available

Finishes

Clear (CL), Dark Bronze (DB)

Custom Anodizing and Painting are
available, consult factory.



5/16" Clearance for Square Edge Door
1/32" Clearance For Beveled Edge Door



157XY Full Surface, Center Pivot Aluminum Geared Continuous Hinge

- Non Handed
- Narrow Frame
- 1/16" Door Inset
- 48" Maximum Door Width
- Beveled or Square Edge Doors
- A patented easy-to-install, heavy duty, full surface continuous hinge
- Lateral and vertical adjustability while the door is still hanging

For Doors Weighing up to 550 pounds

Standard lengths 83", 95", 119"

Standard Mounting Hardware

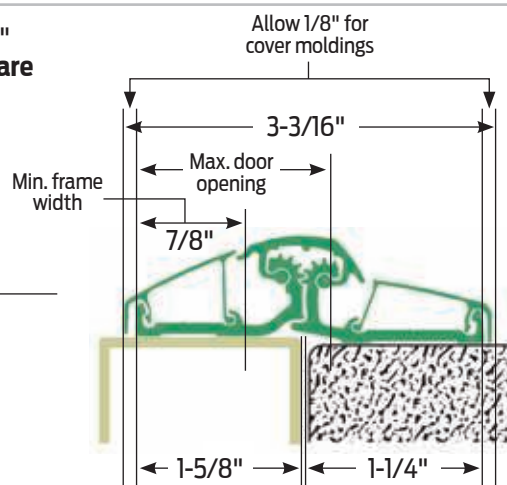
12-24 X 1/2" Steel Self Drilling
and Tapping Screws,

Optional Wood Screws and
Security Fasteners Available

Custom Paint Finish Available

Finishes

Clear (CL), Dark Bronze (DB)





210HD Full Surface, Swing Clear Aluminum Geared Continuous Hinge

- Handing required when modified
- 1/32" Door Inset
- 48" Maximum Door Width
- Beveled or Square Edge Doors

For Doors Weighing up to 600 pounds

Standard lengths 83", 85", 95", 120"

Standard Mounting Hardware

12-24 X 1/2" Steel Self Tapping Screws,

1/4-20 X 1-1/2" AL Sex Bolt

1/4-20 X 1" Steel

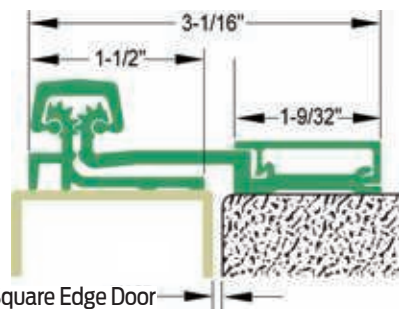
Shoulder Bolt, 12-24 X 3/4" Steel Self Drilling,

Optional SEC - Security Fasteners Available

Finishes

Clear (CL), Dark Bronze (DB)

Custom Anodizing and Painting are available, consult factory.



1/16" Clearance for Square Edge Door
3/32" Clearance For Beveled Edge Door



224HD Full Mortise Aluminum Geared Continuous Hinge

- Hanging required when modified
- Door Edge Protector
- 48" Maximum Door Width
- 1/16" Door Inset
- Beveled or Square Edge Doors

For Doors Weighing up to 450 pounds without reinforcing,
600 pounds with reinforcing

Standard lengths 83", 85", 95", 120"

Standard Mounting Hardware

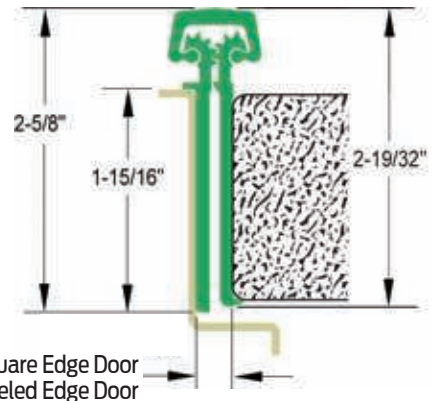
12-24 X 3/4" Steel Self Drilling, Self Tapping Screws

Optional WD - Wood Screws or SEC - Security Fasteners Available

Finishes

Clear (CL), Dark Bronze (DB)

Custom Anodizing and Painting are available, consult factory.



5/16" Clearance for Square Edge Door
1/32" Clearance For Beveled Edge Door

Electrical Cutouts

Ives Aluminum Geared Continuous Hinges are available with factory modified cutouts to accommodate most electrical frame to door requirements. Special templates are required.

When ordering indicate the following:

1. Opening size.
2. Hanging. LH, RH, RHR or LHR.
3. Manufacturer and model number of the electrical product being used. Example; Von Duprin EPT2

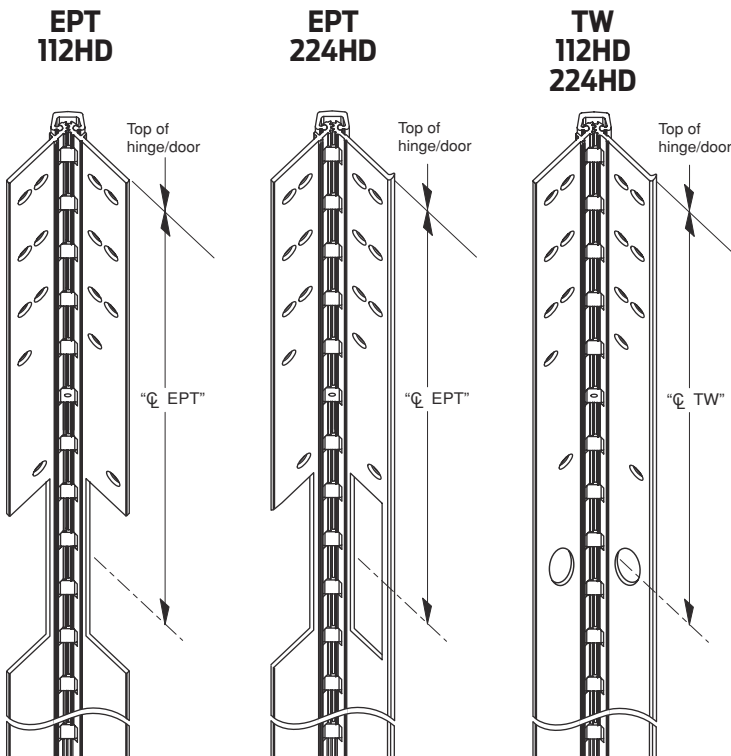
Because clearances may vary between door and frame manufacturer, and locations can be influenced by the door hardware it is always recommend contacting Ives Customer Technical for specific template information.

For your general information below are standard locations for Von Duprin EPT2 or EPT10, and monitor switch.

From Top Edge of Door to Center Line of Cut-Out

Standard Length	112HD EPT	224HD EPT	112HD/224HD TW
83"	30"	30"	41-1/2"
85"	32"	32"	42-1/2"
95"	42"	42"	57-3/4"
120"	67"	67"	81-25/32"

TWP option centered in hinge.



Note: See ordering guide in price book for proper placement.

Pin and Barrel Hinges

General Information

Standard Lengths

83", 85", 95", 120"

Custom lengths are available up to 120", consult factory.

Finishes

US32D (630) Satin Stainless Steel

USP (600) Steel, Primed for Paint

Barrel Type

Twin Self Lubricated Nylon Bearings with Stainless Steel Pin.

Door Weight

Each hinge can hold a door up to 600 lbs (Rivet nuts recommended) and a max door width of 4'0".

ANSI Certified

All Ives Pin and Barrel Hinges certified to ANSI 156.26, Grade 1.

UL Listed

All Ives Steel and Stainless Steel Pin and Barrel Hinges are tested and approved UL 10C (3 hr).

Field Modifications

All Ives Pin and Barrel Continuous Hinges can be cut to length during installation. If more than 6" from bottom of hinge, additional modifications may be necessary.

Electrification Options

Only available for the Full Mortise Hinges

Electric Power Transfer (EPT)

Electric power transfer provides a means of transferring power from the door frame to the edge of a swinging door. Ives Continuous Hinges provide cut outs to fit Von Duprin EPT-2, EPT-10 and PNT-1 devices. Consult factory for other EPT cut out options.

Electrical Through-Wire (TW)

Provides electric power transfer from the frame to the door in order to supply power to an electrified mortise or cylindrical locks, exit devices with electric latch retraction, and/or electric strikes (pairs of doors). Through-wire is rated for 3.5 amp continuous and 16 amp pulse. Ives thru-wire are fully compatible with 4 wire and 8 wire installations.

Pin and Barrel Hinges

How to Order:

700 - US32D - 83 - EPT

Model

Stainless Steel

700	Full Mortise
702	Full Surface - Center Pivot
705	Full Mortise - Full Wrap
711	Full Surface - Swing Clear
715	Full Mortise - Half Wrap

Steel

600	Full Mortise
602	Full Surface - Center Pivot
611	Full Surface - Swing Clear

Finish

Stainless Steel

US32D (630)

Steel

USP (600) Primed

Length

83"

85"

95"

120"

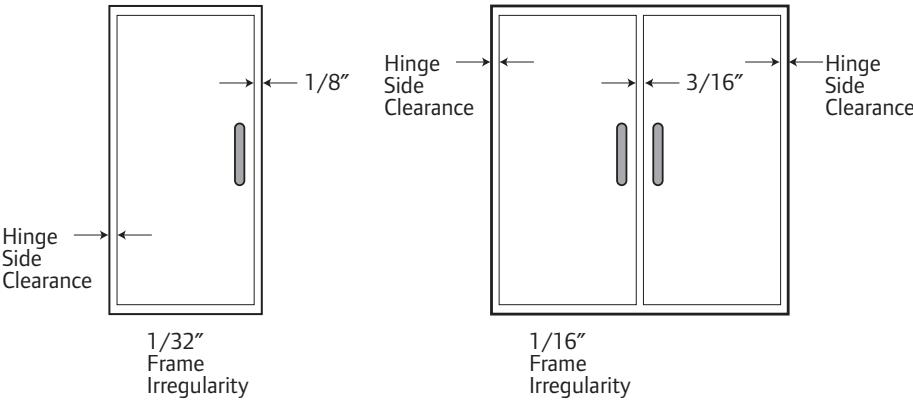
Other lengths available up to 120", consult factory. Handing is required.

Options

* EPT	Electric Power Transfer Prep
* TW8	Electric Through Wire
* TW8M	Electric Through Wire + Monitoring
SF	Security Fasteners - Torx
WD	Wood Fasteners

* Full Mortise Models Only

Pin and Barrel Hinges - Clearance Requirements



SINGLE DOOR

Model	Hinge-Side Clearance	Lock-Side Clearance	Frame Irregularity	Beveled Door Clearance	Door Under-Sizing Square Edged	Door Under-Sizing Beveled Edged
600	1/4"	1/8"	1/32"	1/32"	13/32"	7/16"
602	1/8"	1/8"	1/32"	1/32"	9/32"	5/16"
700	1/4"	1/8"	1/32"	1/32"	13/32"	7/16"
702	1/8"	1/8"	1/32"	1/32"	9/32"	5/16"
705	3/8"	1/8"	1/32"	1/32"	17/32"	9/16"
705*	1/2"	1/8"	1/32"	1/32"	21/32"	11/16"
711	7/32"	1/8"	1/32"	1/32"	3/8"	13/32"
715	1/4"	1/8"	1/32"	1/32"	13/32"	7/16"

* Use the Adjusta-Studs with 705

PAIR OF DOORS

Model	Hinge-Side Clearance	Lock-Side Clearance	Frame Irregularity	Beveled Door Clearance	Square Edged Total	Door Under-Sizing Square Edged Each Door	Door Under-Sizing Beveled Edged Total	Door Under-Sizing Beveled Edged Each Door
600	1/4"	3/16"	1/16"	1/16"	3/4"	3/8"	13/16"	13/32"
602	1/8"	3/16"	1/16"	1/16"	1/2"	1/4"	9/16"	9/32"
700	1/4"	3/16"	1/16"	1/16"	3/4"	3/8"	13/16"	13/32"
702	1/8"	3/16"	1/16"	1/16"	1/2"	1/4"	9/16"	9/32"
705	3/8"	3/16"	1/16"	1/16"	1"	1/2"	1-1/16"	17/32"
705*	1/2"	3/16"	1/16"	1/16"	1-1/4"	5/8"	1-5/16"	21/32"
711	7/32"	3/16"	1/16"	1/16"	11/16"	11/32"	3/4"	3/8"
715	1/4"	3/16"	1/16"	1/16"	3/4"	3/8"	13/16"	13/32"

* Use the Adjusta-Studs with 705



600
700

Full Mortise Pin and Barrel Continuous Hinge

For Doors Weighing up to 600 pounds

- Non Handed
- 1/8" Inset
- 48" Maximum Door Width
- Non Handed
- Bevel or Square Edge Door

Standard lengths 83", 85", 95", 120"

Standard Mounting Hardware

#10 X 1/2" Self Drilling Self Tapping Screws,

#10 X 1" Wood Screws

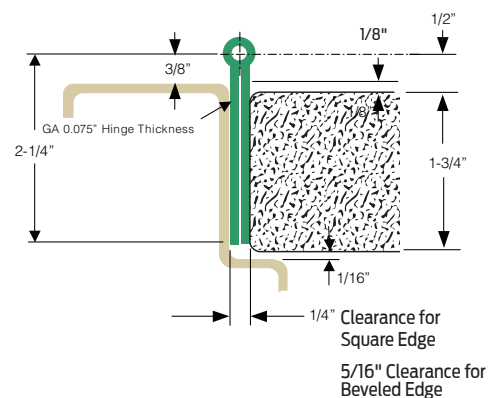
Optional SEC - Security Fasteners Available

Material

600- 1012 Cold-Rolled Steel

700- 14 Gauge Type 304 Stainless Steel

1/4" Diameter 304 Stainless Pin with
Nylon Split Bearing



Finishes	600	700
BHMA	600	630
US Numbers	USP	US32D

Custom Paint Available, on 600
consult factory.



602
702

Full Surface Pin and Barrel Continuous Hinge

For Doors Weighing up to 600 pounds

- Non Handed
- Flush Mounted, No Inset
- 48" Maximum Door Width
- Bevel or Square Edge Door

Standard lengths 83", 85", 95", 120"

Standard Mounting Hardware

1/4"-20 x 3/4" Self Drilling Self Tapping Screws,

Cover Clips

Optional SEC - Security Fasteners Available

Material

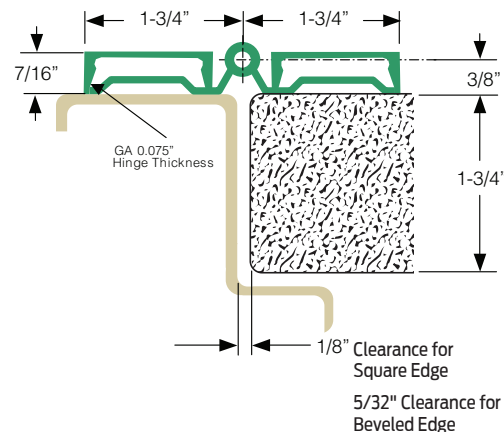
602- 1012 Cold-Rolled Steel

702 - 14 Gauge Type 304 Stainless Steel

1/4" Diameter 304 Stainless Pin with

Nylon Split Bearing

Brushed Aluminum Leaf Covers



Finishes	602	702
BHMA	600	630
US Numbers	USP	US32D

Custom Paint Available, on 602
consult factory



**611
711**

Swing Clear Pin and Barrel Continuous Hinge

For Doors Weighing up to 600 pounds

- Non Handed
- Edge Guard
- 48" Maximum Door Width
- Square Edge Door

Standard lengths 83", 85", 95", 120"

Standard Mounting Hardware

#10 X 1/2" Self Drilling Self Tapping Screws

#10 X 1" Wood Screws

Optional SEC - Security Fasteners

Available

Material

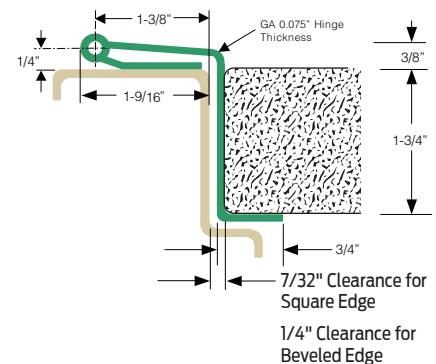
611- 1012 Cold-Rolled Steel

711- 14 Gauge Type 304 Stainless Steel

1/4" diameter 304 stainless pin with nylon split bearings

Finishes	611	711
BHMA	600	630
US Numbers	USP	US32D

Custom Paint Available, on 611 consult factory



705

Full Moritse, Full Wrap Pin and Barrel Continuous Hinge

For Doors Weighing up to 600 pounds

- Non Handed
- Flush Mounted, No Inset
- 48" Maximum Door Width
- Full Wrap Edge Guard
- Bevel or Square Edge Door

Standard lengths 83", 85", 95", 120"

Standard Mounting Hardware

#10 X 1/2" Self Drilling Self Tapping Screws, #10 X 1" Wood Screws

Adjusta-stud 1-3/8" with 10-32 internal thread

Optional SEC - Security Fasteners Available.

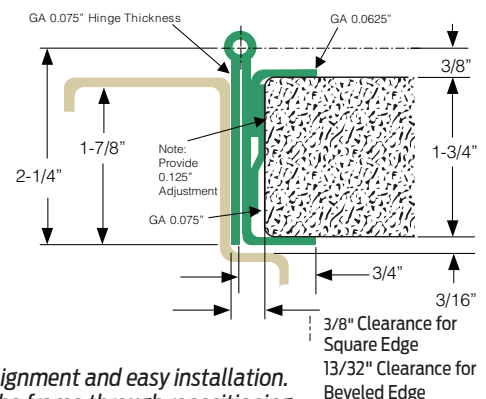
Material

14 Gauge Type 304 Stainless Steel

1/4" diameter 304 stainless pin with nylon split bearings

Finishes

BHMA	630
US Numbers	US32D



* **Adjusta-Stud** allows up to 3/8" width adjustment which ensures proper alignment and easy installation. Adjusta-Stud also makes it possible for future adjustments of the door on the frame through repositioning.

**715**

Full Mortise, Half Wrap Pin and Barrel Continuous Hinge

For Doors Weighing up to 600 pounds

- Non Handed
- Flush Mounted, No Inset
- Half Wrap Edge Guard
- 48" Maximum Door Width
- Square Edge Door

Standard lengths 83", 85", 95", 120"

Standard Mounting Hardware

#10 X 1/2" Self Drilling Tek Screws,
#10 X 1" Wood Screws

Optional SEC - Security Fasteners Available

Material

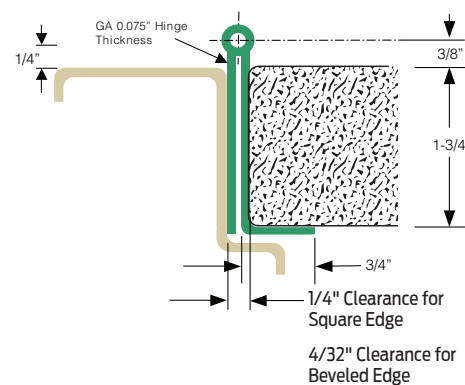
14 Gauge Type 304 Stainless Steel
1/4" diameter 304 stainless pin with
nylon split bearings

Finishes

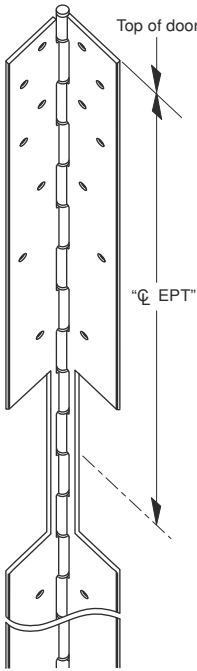
BHMA 630

US Numbers US32D

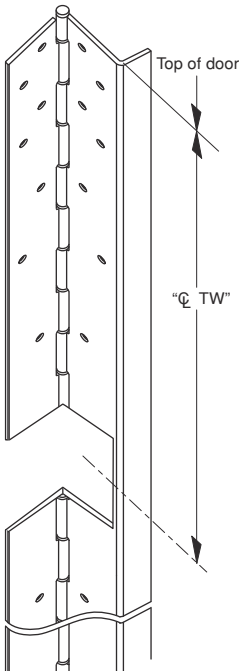
*Custom Paint Available,
consult factory*



EPT
600/700



TW
600/700



Electrical Cutouts

Ives Pin & Barrel Continuous Hinges are available with factory modified cutouts to accommodate most electrical frame to door requirements. Special templates are required.

When ordering indicate the following:

- 1. Opening size.
 - 2. Handing. LH, RH, RHR or LHR.
 - 3. Manufacturer and model number of the electrical product being used.
- Example; Von Duprin EPT2

Because clearances may vary between door and frame manufacturer, and locations can be influenced by the door hardware it is always recommend contacting Ives Customer Technical for specific template information.

For your general information following are standard locations for Von Duprin EPT2 or EPT10, and TW (through wire)

Standard centerline cutout locations

From Top Edge o top of Door to Center Line of Cut-Out

Standard Length	EPT	TW
83"	30"	43-19/32"
85"	32"	45-17/32"
95"	42"	55-17/32"
120"	67"	80-17/32"

Note: See ordering guide in price book for proper placement.

The door rests on the bottom pivot in this application. This reduces the stress on the frame by distributing the weight of the door throughout the floor and structure. By taking advantage of the strength of the structure, this makes a pivot the ideal solution for your heavy doors. Center and pocket pivots also provide an aesthetic option for your opening.

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91105.....	A50
91105F	A50



7200 Series Pivots

General Information:

Complete line of 3/4" offset, 1-1/2" offset, center hung, intermediate and power transfer pivots with all exposed parts made of brass or stainless steel for maximum corrosion resistance.

High strength brass and stainless steel forgings, and castings for rated and non-rated doors combined with precision bearings for smooth operation.

Stainless steel machine screws and wood screws standard. Positive locking vertical adjustment mechanism allows the installer to precisely position the door and balance the load.

Last digit in pivot set number reflects the maximum door weight in hundreds of pound, e.g., 7215 = 500 pounds. For sets designated as "heavy duty", add 1,000 pounds, e.g., 7237F HD set = 1700 pounds. Pivots for lead lined doors are available, consult factory.

7200 series Pivot Selection Chart

Pivot Set	Pivot Type	Bottom Mounting Style	UL Listing	Max. Door Weight	Handing	When Ordering Separate Parts		
						Top	Bottom	Intermediate
7212	3/4" Offset	Jamb Mounted	none	200	LH or RH	7212-7215-7222-7226-7227 TOP	7212 BTM	7212-7212V-7222 INT
7212V	3/4" Offset	Jamb Mounted	none	200	LH or RH	7212V TOP	7212 BTM	7212-7212V-7222 INT
7215	3/4" Offset	Jamb Mounted	20 Minute	500	LH or RH	7212-7215-7222-7226-7227 TOP	7215 BTM	7215-7226-7227 INT
7215F	3/4" Offset	Jamb Mounted	3 Hour	500	LH or RH	7215F-7226F-7227F TOP	7215F BTM	7215F-7226F-7227F INT
7222	3/4" Offset	Floor Mounted	none	200	LH or RH	7212-7215-7222-7226-7227 TOP	7222 BTM	7212-7212V-7222 INT
7226	3/4" Offset	Floor Mounted	20 Minute	600	Non-Handed	7212-7215-7222-7226-7227 TOP	7226 BTM	7215-7226-7227 INT
7226F	3/4" Offset	Floor Mounted	3 Hour	600	Non-Handed	7215F-7226F-7227F TOP	7226F BTM	7215F-7226F-7227F INT
7227	3/4" Offset	Mortise Cement Case	20 Minute	700	Non-Handed	7212-7215-7222-7226-7227 TOP	7227 BTM	7215-7226-7227 INT
7227F	3/4" Offset	Mortise Cement Case	3 Hour	700	Non-Handed	7215F-7226F-7227F TOP	7227F BTM	7215-7226-7227 INT
7230F	3/4" Offset	Floor Mounted	3 Hour	1,000	Non-Handed	7230F-7237F TOP	7230F BTM	7215F-7226F-7227F INT
7237F	3/4" Offset	Mortise Cement Case	3 Hour	1,750	Non-Handed	7230F-7237F TOP	7237F BTM	7230F-7237F INT
7244F	1-1/2" Offset	Floor Mounted	3 Hour	400	Non-Handed	7244F-7245F TOP	7244F BTM	7230F-7237F INT
7245F	1-1/2" Offset	Mortise Cement Case	3 Hour	500	Non-Handed	7244F-7245F TOP	7245F BTM	7244F-7245F INT
7253	Center Hung	Floor Mounted	none	300	Non-Handed	7253-7255-7255J-7256 TOP	7253 BTM	7244F-7245F INT
7255	Center Hung	Floor Mounted	none	500	Non-Handed	7253-7255-7255J-7256 TOP	7255 BTM	none
7255J	Center Hung	Jamb Mounted	none	500	Non-Handed	7253-7255-7255J-7256 TOP	7255J BTM	none
7256	Center Hung	Mortise Cement Case	none	600	Non-Handed	7253-7255-7255J-7256 TOP	7256 BTM	none
7259	Center Hung	Mortise Cement Case	none	1,000	Non-Handed	7259 TOP	7259 BTM	none

How to Order:

	<u>7212</u>	-	<u> </u>	-	<u>LH</u>	-	<u>US3</u>
Pivot: 7212 7212V 7215 7215F 7222 7226 7226F 7227 7227F 7230F 7237F 7244F 7245F 7253 7255 7255J 7256 7259							
Pivot Style: Blank Top and bottom set TOP Top pivot only BTM Bottom pivot only INT Intermediate pivot only PT INT Power transfer intermediate pivot only							
Hand: LH Left hand door RH Right hand door							
Finish: US3 US4 US10 US10B US26 US26D SP4 SP10 SP28 SP313 SPBLK USP <i>optional finishes are available, consult factory</i>							

A33
Hinges & Pivots

B
Pulls & Plates

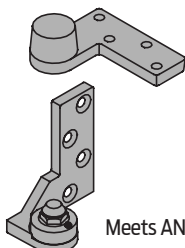
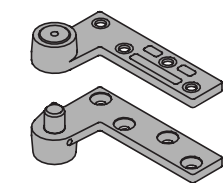
C
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E
Stops

F
Exterior Hardware

G
Miscellaneous Hardware

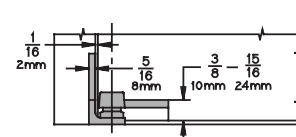
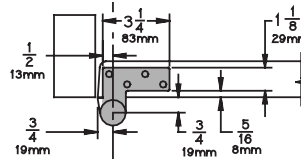
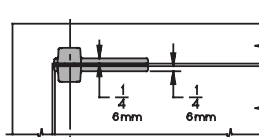
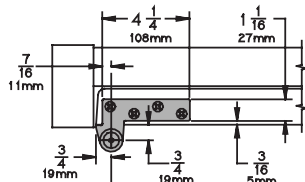
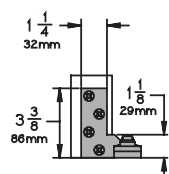


Meets ANSI/BHMA A156.4 C07131

7212 3/4" Offset Pivot

- Handed
- Top, header mount
- Bottom, jamb mount
- Use with 1-3/4" minimum door thickness, with 1/8" bevel in 2"
- Maximum door load 200 pounds
- Vertical adjustment range 3/16", with positive locking

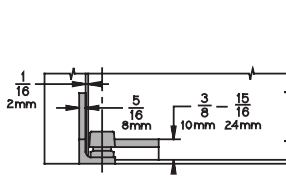
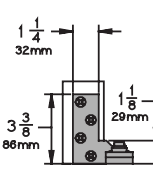
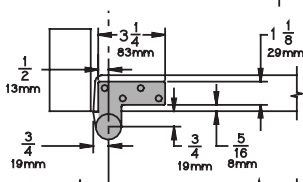
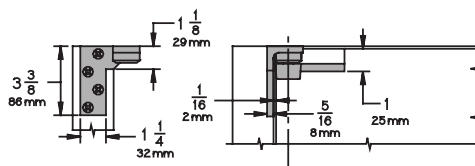
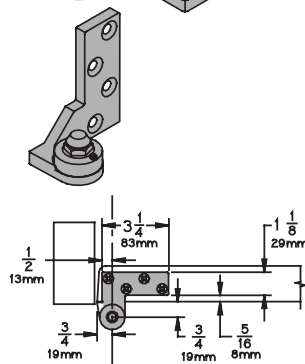
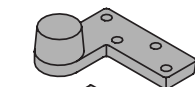
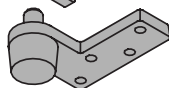
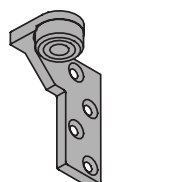
Optional 7212-7212V-7222 Intermediate Pivot (handed) for each additional 100 pounds or doors over 7'. See page A47.



7212V 3/4" Offset Pivot

- Handed
- Top, jamb mount
- Bottom, jamb mount
- Use with 1-3/4" minimum door thickness, with 1/8" bevel in 2"
- Maximum door load 200 pounds
- Vertical adjustment range 3/16", with positive locking

Optional 7212-7212V-7222 Intermediate Pivot (handed) for each additional 100 pounds or doors over 7'. See page A47.

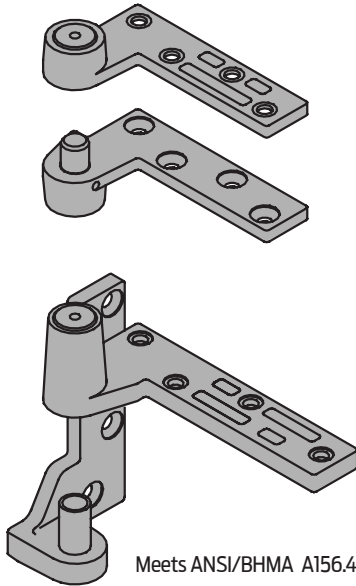


Plated Finishes *brass*

US Number	US3	US4	US10	US10B	US26	US26D
BHMA Number	605	606	612	613	625	626

Painted Finishes *brass*

US Number	SP4	SP10	SP28	SP313	SPBLK
BHMA Number	706	691	689	695	622



Meets ANSI/BHMA A156.4 C07131

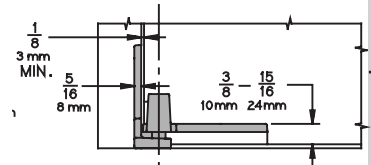
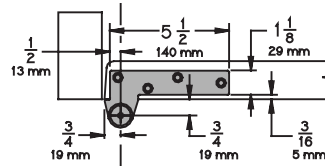
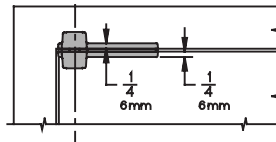
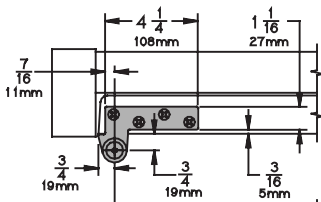
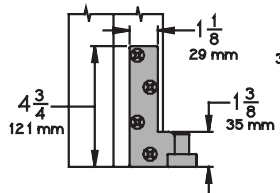
7215 - UL Listed 20 minute fire doors

7215F - UL Listed 3 hour fire doors

7215 7215F 3/4" Offset Pivot

- Handed
- Top, header mount
- Bottom, jamb mount
- Use with 1-3/4" minimum door thickness, with 1/8" bevel in 2"
- Maximum door load 500 pounds
- Vertical adjustment range 3/16", with positive locking
- WP - optional weather resistant bottom pivot is modified for improved corrosion resistance. Available in US26D (626) or US32D (630) only.

Optional 7215-7226-7227 or 7215F-7226F-7227F Intermediate Pivot (handed) for each additional 100 pounds or doors over 7'. See page A47.
Optional 7215PT Power Transfer, non-load bearing. See page A49



7215

Plated Finishes *brass*

US Number	US3	US4	US10	US10B	US26	US26D
BHMA Number	605	606	612	613	625	626

Painted Finishes *brass*

US Number	SP4	SP10	SP28	SP313	SPBLK
BHMA Number	706	691	689	695	622

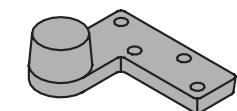
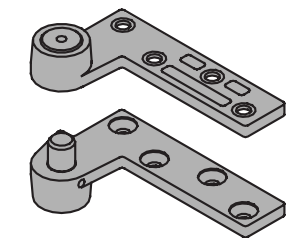
7215F

Plated Finishes *steel*

US Number	US3	US10	US32	US32D
BHMA Number	632	639	629	630

Painted Finishes *steel*

US Number	SP4	SP10	SP28	SP313	SPBLK
BHMA Number	706	691	689	695	622

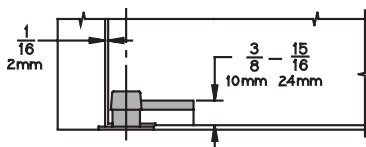
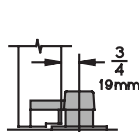
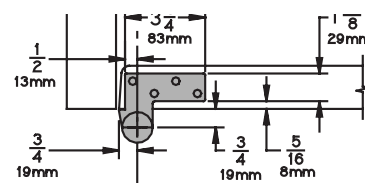
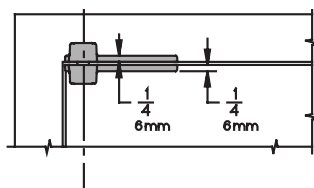
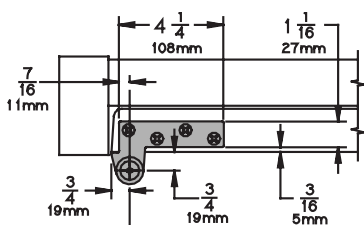


Meets ANSI/BHMA A156.4 C07162

7222 3/4" Offset Pivot

- Handed
- Top, header mount
- Bottom, base plate mount
- Use with 1-3/4" minimum door thickness, with 1/8" bevel in 2"
- Maximum door load 200 pounds
- Vertical adjustment range 3/16", with positive locking

Optional 7212-7212V-7222 Intermediate Pivot (handed) for each additional 100 pounds or doors over 7'. See page A47.

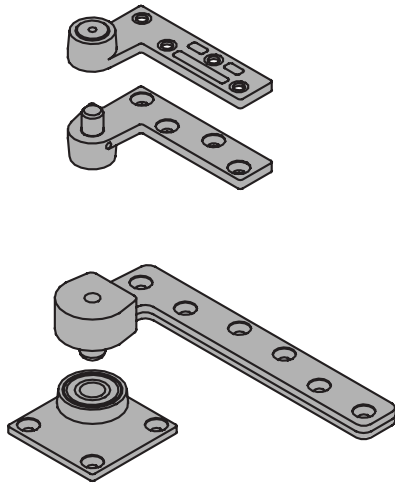


Plated Finishes *brass*

US Number	US3	US4	US10	US10B	US26	US26D
BHMA Number	605	606	612	613	625	626

Painted Finishes *brass*

US Number	SP4	SP10	SP28	SP313	SPBLK
BHMA Number	706	691	689	695	622



Meets ANSI/BHMA A156.4 C07162

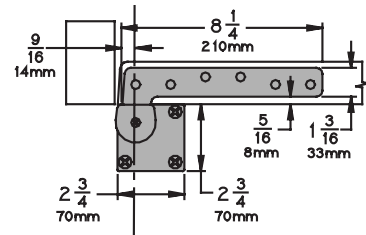
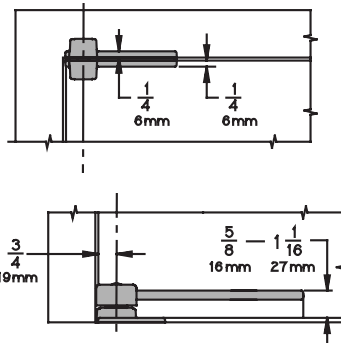
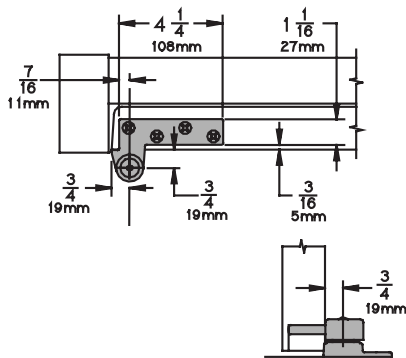
7226 - UL Listed 20 minute fire doors

7226F - UL Listed 3 hour fire doors

7226 7226F 3/4" Offset Pivot

- Non-handed
- Top, header mount
- Bottom, base plate mount
- Use with 1-3/4" minimum door thickness, with 1/8" bevel in 2"
- Maximum door load 600 pounds
- Vertical adjustment range 3/16", with positive locking

Optional 7215-7226-7227 or 7226F-722 Intermediate Pivot (handed) for each additional 100 pounds or doors over 7'. See page A47.
Optional 7226PT Power Transfer (four wires), non-load bearing. See page A49



7226

Plated Finishes *brass*

US Number	US3	US4	US10	US10B	US26	US26D
BHMA Number	605	606	612	613	625	626

Painted Finishes *brass*

US Number	SP4	SP10	SP28	SP313	SPBLK
BHMA Number	706	691	689	695	622

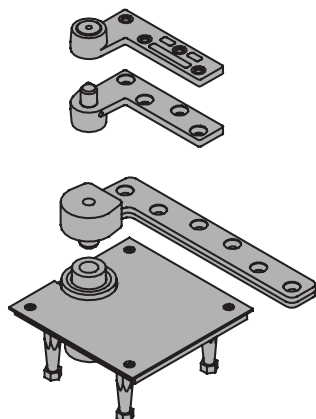
7226F

Plated Finishes *steel*

US Number	US3	US10	US32	US32D
BHMA Number	632	639	629	630

Painted Finishes *steel*

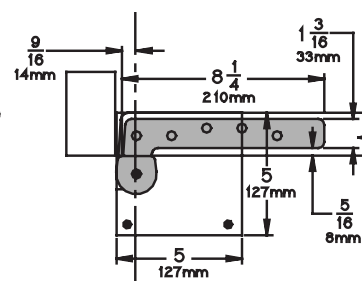
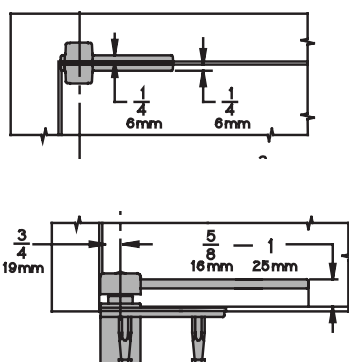
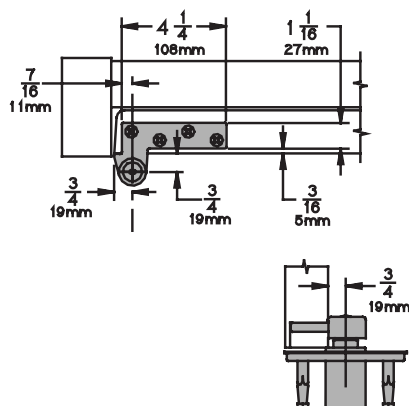
US Number	SP4	SP10	SP28	SP313	SPBLK
BHMA Number	706	691	689	695	622



Meets ANSI/BHMA A156.4 C07121

7227 - UL Listed 20 minute fire doors

7227F - UL Listed 3 hour fire doors



7227 7227F 3/4" Offset Pivot

- Non-handed
- Top, header mount
- Bottom, base plate mount
- Use with 1-3/4" minimum door thickness, with 1/8" bevel in 2"
- Maximum door load 700 pounds
- Vertical adjustment range 3/16", with positive locking

Optional 7215-7226-7227 or 7215F-7226F-7227F Intermediate Pivot (handed) for each additional 100 pounds or doors over 7'. See page A47.

Optional 7227PT Power Transfer (four wires), non-load bearing. See page A49.

7227

Plated Finishes *brass*

US Number	US3	US4	US10	US10B	US26	US26D
BHMA Number	605	606	612	613	625	626

Painted Finishes *brass*

US Number	SP4	SPT0	SP28	SP313	SPBLK
BHMA Number	706	691	689	695	622

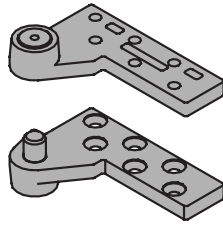
7227F

Plated Finishes *steel*

US Number	US3	US10	US32	US32D
BHMA Number	632	639	629	630

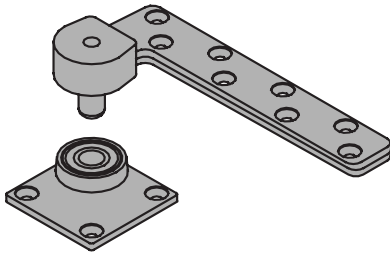
Painted Finishes *steel*

US Number	SP4	SPT0	SP28	SP313	SPBLK
BHMA Number	706	691	689	695	622



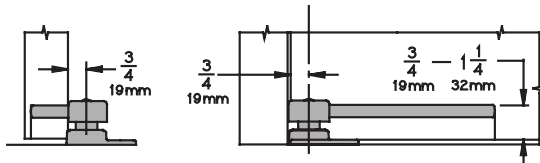
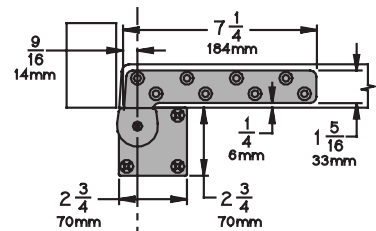
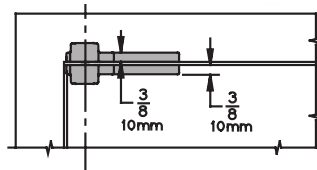
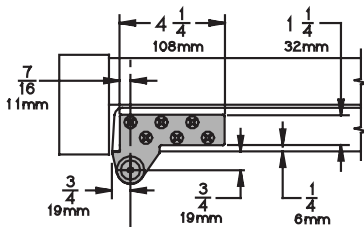
7230F 3/4" Offset Pivot - Heavy Duty

- Non-Handed
- Top, header mount
- Bottom, base plate mount
- Use with 1-3/4" minimum door thickness, with 1/8" bevel in 2"
- Maximum door load 1,000 pounds
- Vertical adjustment range 3/16", with positive locking



Optional 7230F-7237F Intermediate Pivot (handed) for each additional 100 pounds or doors over 7'. See page A48.

Meets ANSI/BHMA A156.4 C07162
UL Listed 3 Hour Fire Doors

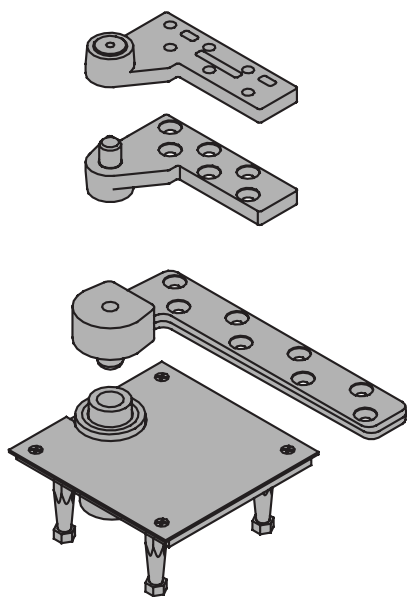


Plated Finishes *steel*

US Number	US3	US10	US32	US32D
BHMA Number	632	639	629	630

Painted Finishes *steel*

US Number	SP4	SP10	SP28	SP313	SPBLK
BHMA Number	706	691	689	695	622

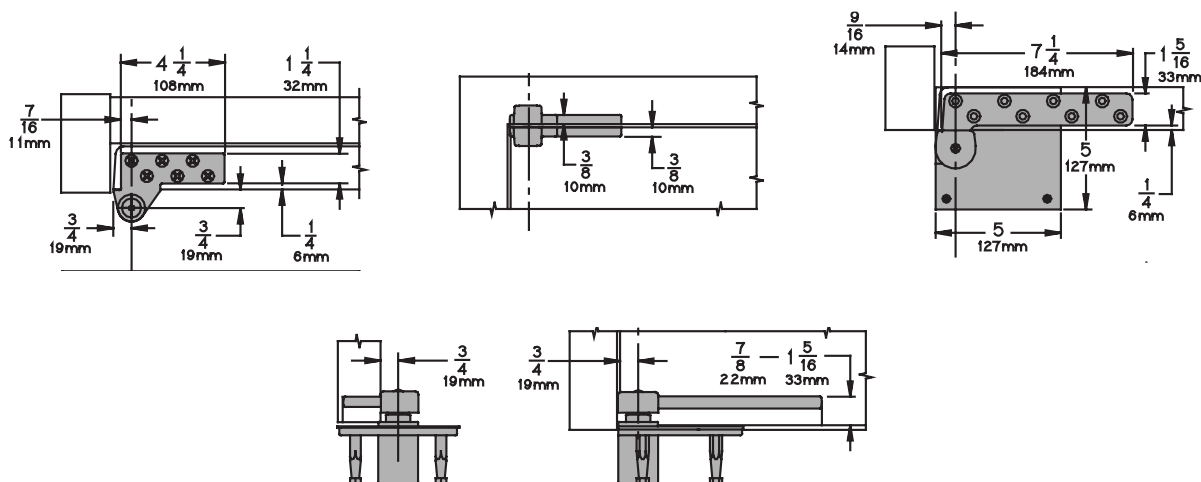


7237F 3/4" Offset Pivot - Heavy Duty

- Non-Handed
- Top, header mount
- Bottom, mortised cement case mount
- Use with 1-3/4" minimum door thickness, with 1/8" bevel in 2"
- Maximum door load 1,750 pounds
- Vertical adjustment range 3/16", with positive locking

Optional 7230F-7237F Intermediate Pivot (handed) for each additional 100 pounds or doors over 7'. See page A48.

Meets ANSI/BHMA A156.4 C07111
UL Listed 3 Hour Fire Doors

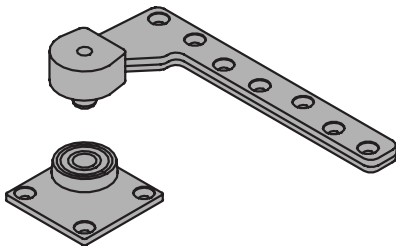
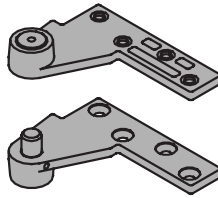


Plated Finishes *steel*

US Number	US3	US10	US32	US32D
BHMA Number	632	639	629	630

Painted Finishes *steel*

US Number	SP4	SP10	SP28	SP313	SPBLK
BHMA Number	706	691	689	695	622

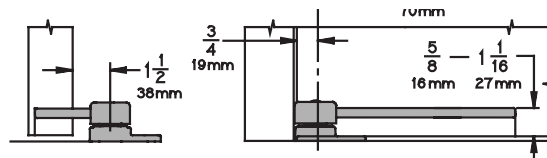
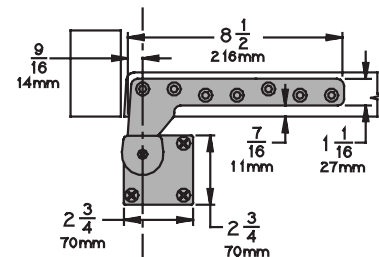
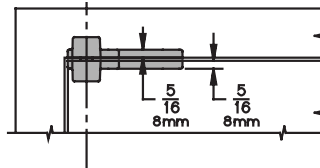
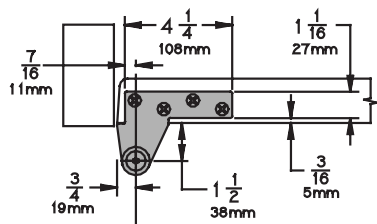


7244F 1-1/2" Offset Pivot - Heavy Duty

- Non-Handed
- Top, header mount
- Bottom, base mount
- Use with 1-3/4" minimum door thickness
- Maximum door load 400 pounds
- Vertical adjustment range 3/16", with positive locking

Optional 7244F-7245F Intermediate Pivot (handed) for each additional 100 pounds or doors over 7'. See page A48.

Meets ANSI/BHMA A156.4 C07162
UL Listed 3 Hour Fire Doors

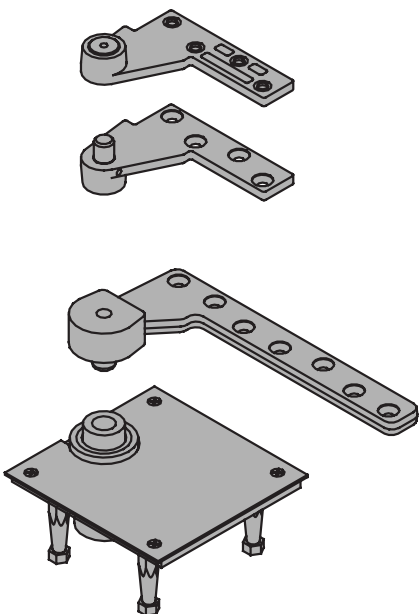


Plated Finishes *steel*

US Number	US3	US10	US32	US32D
BHMA Number	632	639	629	630

Painted Finishes *steel*

US Number	SP4	SP10	SP28	SP313	SPBLK
BHMA Number	706	691	689	695	622

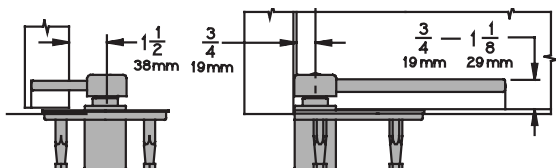
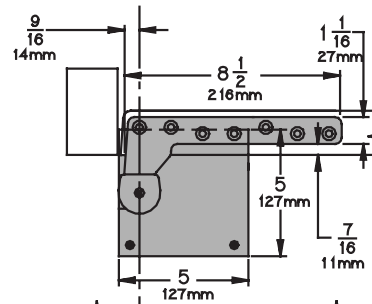
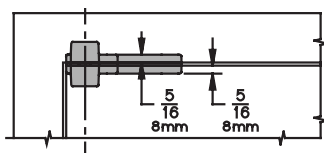
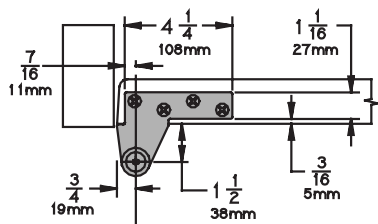


7245F 1-1/2" Offset Pivot - Heavy Duty

- Non-Handed
- Top, header mount
- Bottom, mortised cement case mount
- Use with 1-3/4" minimum door thickness, with 1/8" bevel in 2"
- Maximum door load 500 pounds
- Vertical adjustment range 3/16", with positive locking

Optional 7244F-7245F Intermediate Pivot (handed) for each additional 100 pounds or doors over 7'. See page A48.

Meets ANSI/BHMA A156.4 C07121
UL Listed 3 Hour Fire Doors



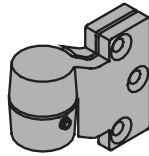
Plated Finishes *steel*

US Number	US3	US10	US32	US32D
BHMA Number	632	612	629	630

Painted Finishes *steel*

US Number	SP4	SP10	SP28	SP313	SPBLK
BHMA Number	706	691	689	695	622

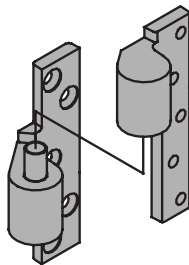
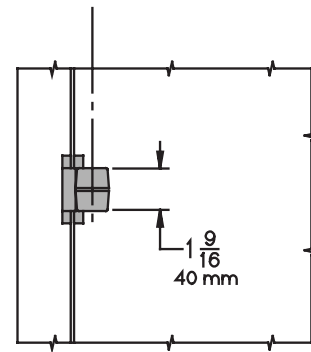
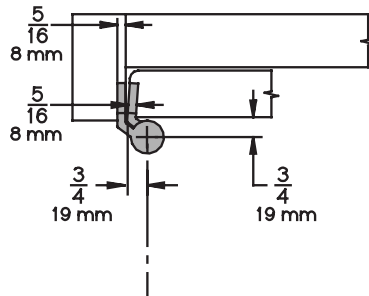
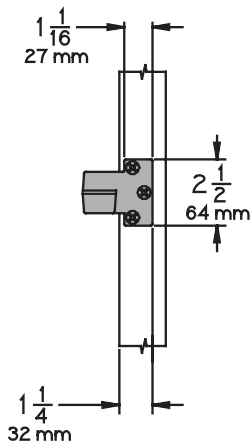
NFPA 80, Section 3-3.8 requires intermediate pivot on some fire door applications, consult factory. Use for door heights over 7'0" and one every 2'6" or . Use for door weight over the pivot set limit. One additional for every additional 100 pounds. Door thickness 1-3/4" minimum with 1/8" bevel in 2".



Meets ANSI/BHMA A156.4 C07382

7212-7212V-7222 INT

- Use with 7212, 7212V or 7222 3/4 Offset Pivot
- Handed
- Vertical adjustment 3/16", include positive locking.

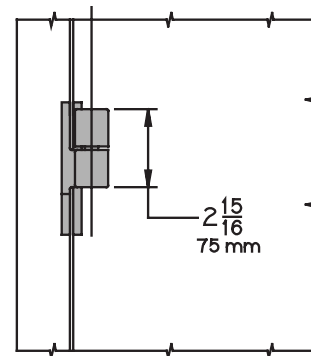
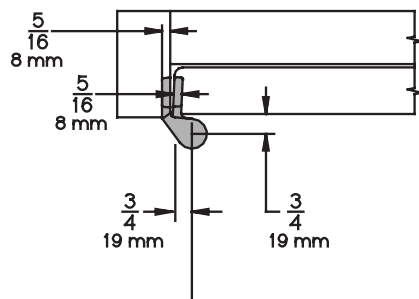
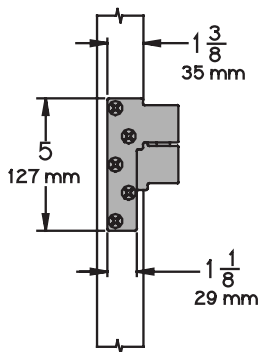


7215-7226-7227 INT:
UL listed 20 minute fire doors
Meets ANSI/BHMA A156.4 C07321

7215F-7226F-7227F INT:
UL listed 3 hour fire doors
Meets ANSI/BHMA A156.4 C07371

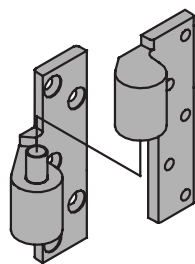
7215-7226-7227 INT

- Use with 7215, 7226 or 7227 3/4 Offset Pivot
- Handed
- Vertical adjustment 3/16", include positive locking.



7215F-7226F-7227F INT

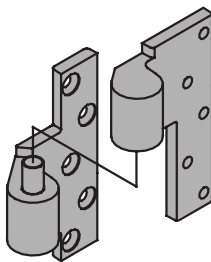
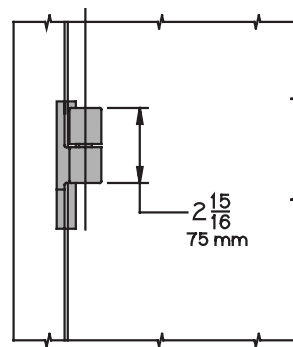
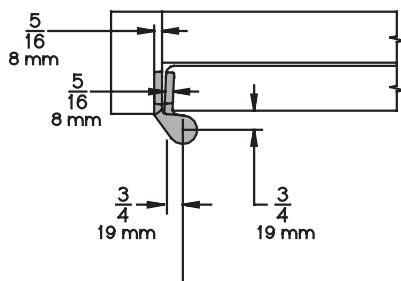
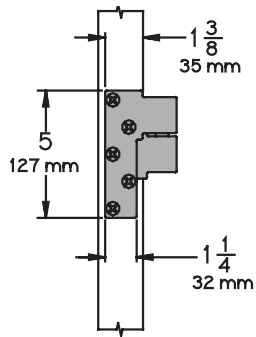
- Use with 7215F, 7226F or 7227F 3/4 Offset Pivot
- Handed
- Vertical adjustment 3/16", include positive locking.



7230F-7237F INT

- Use with 7230F or 7237F 3/4 Offset Pivot
- Handed
- Vertical adjustment 3/16", include positive locking.

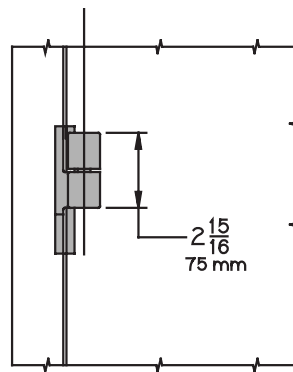
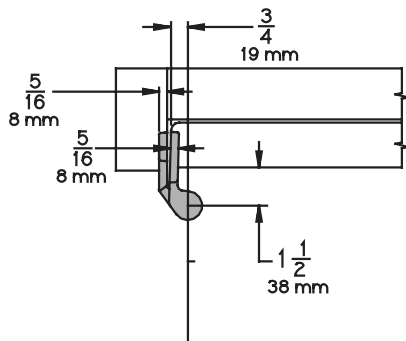
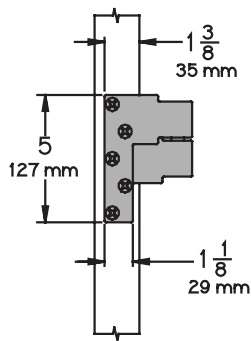
UL listed 3 hour fire doors
Meets ANSI/BHMA A156.4 C07311

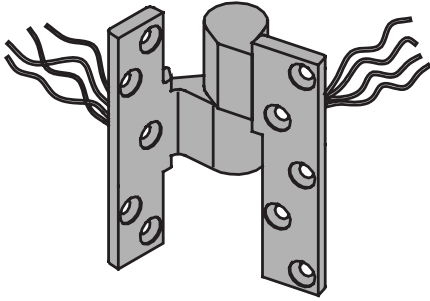


7244F-7245F

- Use with 7244F or 7245F 1-1/2" Offset Pivot
- Handed
- Vertical adjustment 3/16", include positive locking.

UL listed 3 hour fire doors
Meets ANSI/BHMA A156.4 C07371





7215PT-7226PT-7227PT Power Transfer Pivot

- Use with 7215, 7226 or 7227 3/4" Offset Pivots
- Four wires, 28 gauge
- Optional 8 wire available
- Rated 50 VDC or VAC @ 3.5 amps. Continuous or 16 amps pulse, maximum pulse 400 milliseconds.
- Non-load bearing
- Use with 1-3/4" thick door minimum, 1/8" bevel in 2".

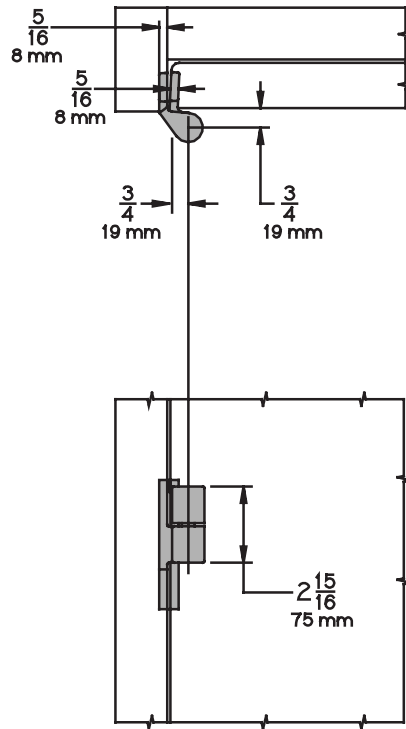
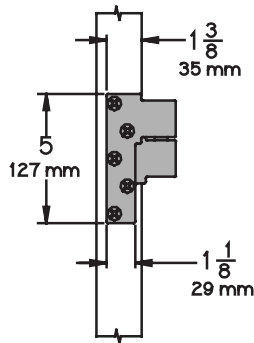
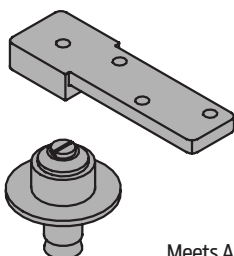
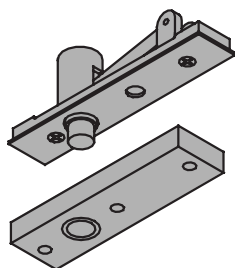


Plate Finishes *brass*

US Number	US3	US4	US10	US10B	US26	US26D
BHMA Number	605	606	612	613	625	626

Painted Finishes *brass*

US Number	SP4	SP10	SP28	SP313	SPBLK
BHMA Number	706	691	689	695	622



Meets ANSI/BHMA A156.4 C07032

7253 Center Hung Pivot

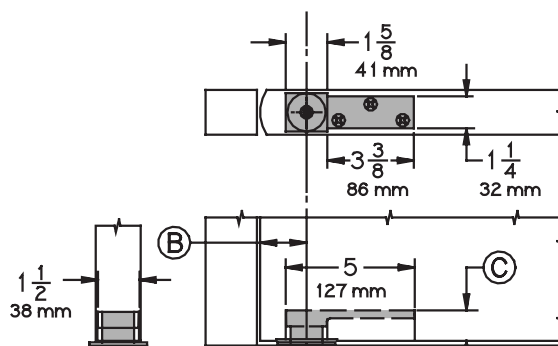
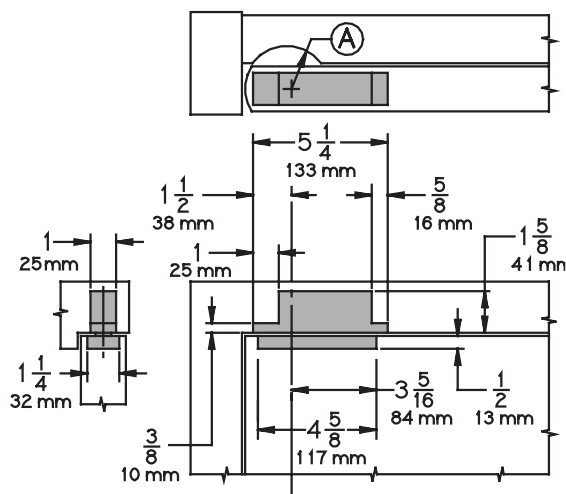
- Non-Handed
- Top, header mount
- Bottom, base plate mount
- Easy installation tilt on bearing and bearing pin.
- Use with 1-3/4" minimum door thickness.
- Adjustable floor to door clearance 3/16" to 3/4".
- Maximum door load 300 pounds
- Vertical adjustment range 3/16", with positive locking

Plated Finishes *brass*

US Number	US3	US4	US10	US10B	US26	US26D
BHMA Number	605	606	612	613	625	626

Painted Finishes *brass*

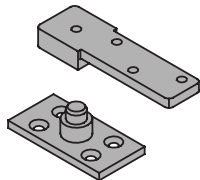
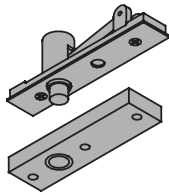
US Number	SP4	SP10	SP28	SP313	SPBLK
BHMA Number	706	691	689	695	622



- Radius Stop (A) to clear heel of door edge.
- Pivot distance (B) 1-3/4" (44mm) minimum from jamb to centerline of pivot pin. Radius heel edge of door, 1-5/8" (41mm) minimum recommended.
- Clearance from bottom edge of door to floor mounting surface is adjustable from 3/16" (5mm) to 3/4" (19mm) by varying the depth of the mortise (C) in the bottom of the door, refer to Chart D. Consult factory when clearance is over 3/4" (19mm).

Table D

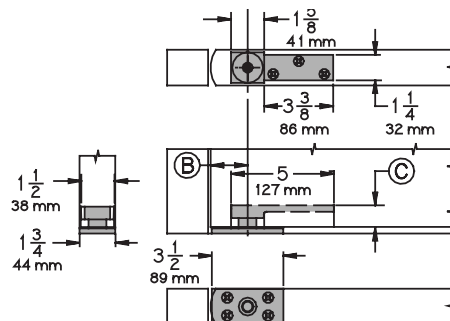
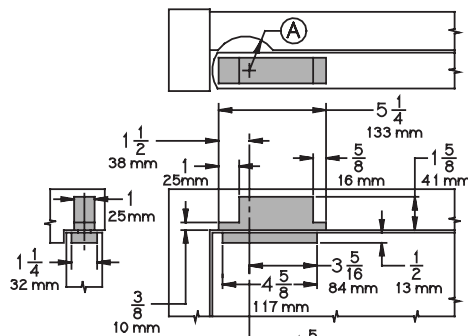
Clearance	Depth of Mortise
3/16" (5mm)	1-3/16" (30mm)
3/8" (10mm)	1" (25mm)
1/2" (13mm)	7/8" (22mm)
5/8" (16mm)	3/4" (19mm)
3/4" (19mm)	5/8" (16mm)



7255 Center Hung Pivot

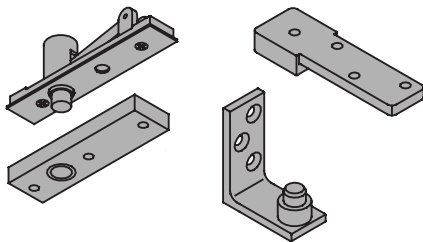
- Non-Handed
- Top, header mount
- Bottom, base plate mount
- Easy installation tilt on bearing and bearing pin.
- Use with 1-3/4" minimum door thickness.
- Adjustable floor to door clearance 3/16" to 3/4", consult factory if greater than 3/4"..
- Maximum door load 500 pounds
- Vertical adjustment range 3/16", with positive locking

Meets ANSI/BHMA A156.4 C07032



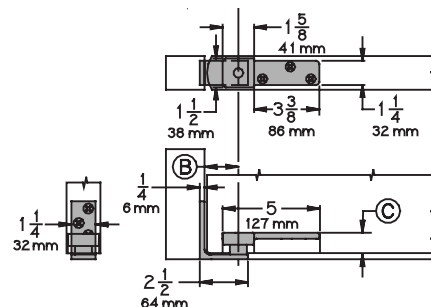
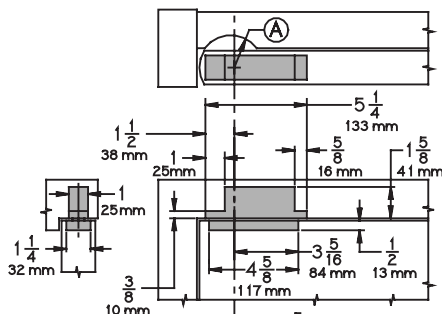
- Radius Stop (A) to clear heel of door edge.
- Pivot distance (B) 1-3/4" (44mm) minimum from jamb to centerline of pivot pin. Radius heel edge of door, 1-5/8" (41mm) minimum recommended.
- Clearance from bottom edge of door to floor mounting surface is adjustable from 3/16" (5mm) to 3/4" (19mm) by varying the depth of the mortise (C) in the bottom of the door, refer to Chart D. Consult factory when clearance is over 3/4" (19mm).

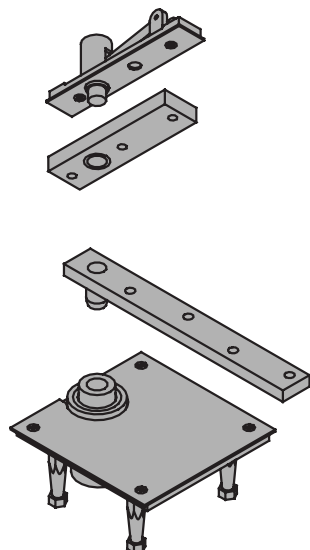
7255J Center Hung Pivot



Meets ANSI/BHMA A156.4 C07042

- Non-Handed
- Top, header mount
- Bottom, jamb mount
- Easy installation tilt on bearing and bearing pin.
- Use with 1-3/4" minimum door thickness.
- Adjustable floor to door clearance 3/16" to 3/4", consult factory if greater than 3/4".
- Maximum door load 500 pounds
- Vertical adjustment range 3/16", with positive locking

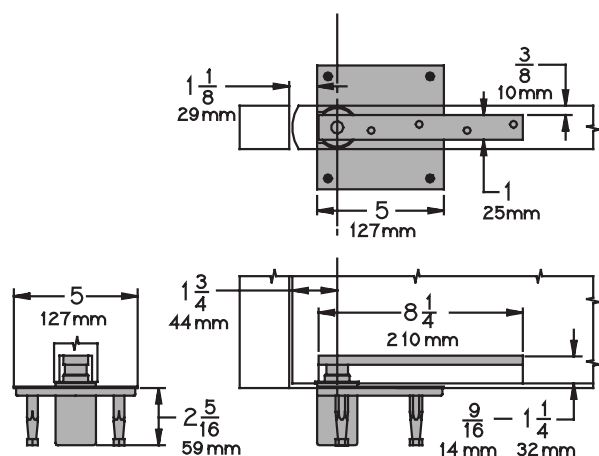
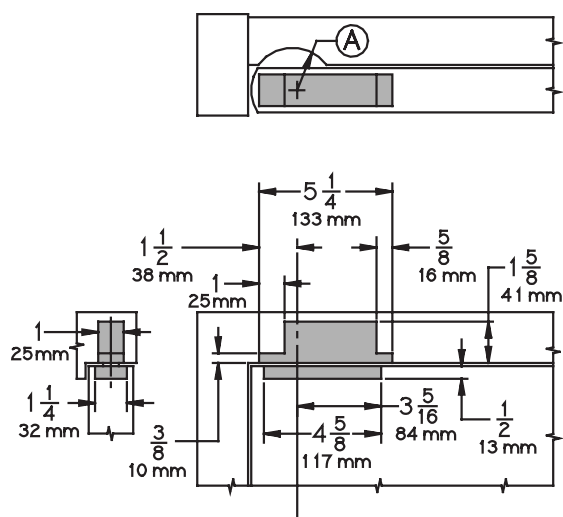




7256 Center Hung Pivot

- Non-Handed
- Top, header mount
- Bottom, base frame mount
- Easy installation tilt on bearing and bearing pin.
- Use with 1-3/4" minimum door thickness.
- Adjustable floor to door clearance 3/16" to 3/4", consult factory if greater than 3/4".
- Maximum door load 600 pounds
- Vertical adjustment range 3/16", with positive locking

Meets ANSI/BHMA A156.4 C07021



- Radius Stop (A) to clear heel of door edge.
- Pivot distance (B) 1-3/4" (44mm) minimum from jamb to centerline of pivot pin. Radius heel edge of door, 1-5/8" (41mm) minimum recommended.
- Clearance from bottom edge of door to floor mounting surface is adjustable from 3/16" (5mm) to 3/4" (19mm) by varying the depth of the mortise (C) in the bottom of the door, refer to Chart D. Consult factory when clearance is over 3/4" (19mm).

Table D

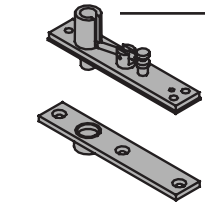
Clearance	Depth of Mortise
3/16" (5mm)	1-3/16" (30mm)
3/8" (10mm)	1" (25mm)
1/2" (13mm)	7/8" (22mm)
5/8" (16mm)	3/4" (19mm)
3/4" (19mm)	5/8" (16mm)

Plated Finishes *brass*

US Number	US3	US4	US10	US10B	US26	US26D
BHMA Number	605	606	612	613	625	626

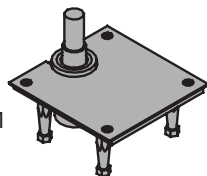
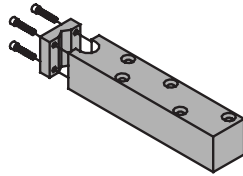
Painted Finishes *brass*

US Number	SP4	SPI0	SP28	SP313	SPBLK
BHMA Number	706	691	689	695	622

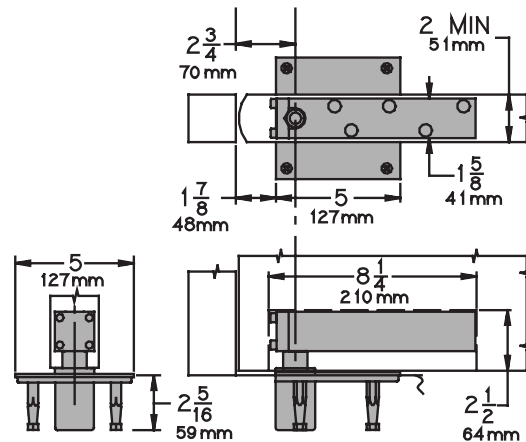
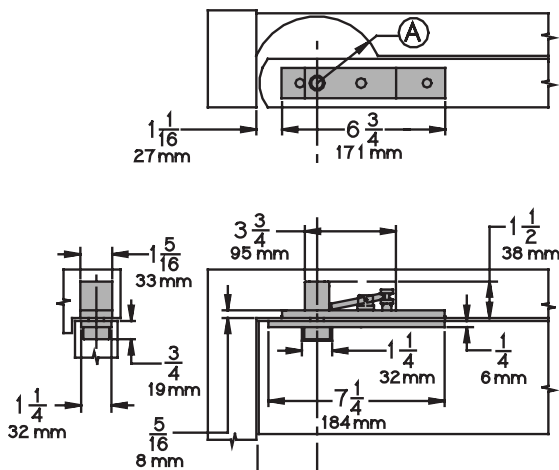


7259 Center Hung Pivot

- Non-Handed
- Top, header mount
- Bottom, base frame mount
- Easy installation tilt on bearing and bearing pin.
- Use with 2" minimum door thickness.
- Adjustable floor to door clearance 3/16" to 3/4", consult factory if greater than 3/4".
- Maximum door load 1,000 pounds
- Vertical adjustment range 3/16", with positive locking



Meets ANSI/BHMA A156.4 C07011



- Radius Stop (A) to clear heel of door edge.
- Pivot distance (B) 1-3/4" (44mm) minimum from jamb to centerline of pivot pin. Radius heel edge of door, 1-5/8" (41mm) minimum recommended.
- Clearance from bottom edge of door to floor mounting surface is adjustable from 3/16" (5mm) to 3/4" (19mm) by varying the depth of the mortise (C) in the bottom of the door, refer to Chart D. Consult factory when clearance is over 3/4" (19mm).

Table D

Clearance	Depth of Mortise
3/16" (5mm)	1-3/16" (30mm)
3/8" (10mm)	1" (25mm)
1/2" (13mm)	7/8" (22mm)
5/8" (16mm)	3/4" (19mm)
3/4" (19mm)	5/8" (16mm)

Plated Finishes *brass*

US Number	US3	US4	US10	US10B	US26	US26D
BHMA Number	605	606	612	613	625	626

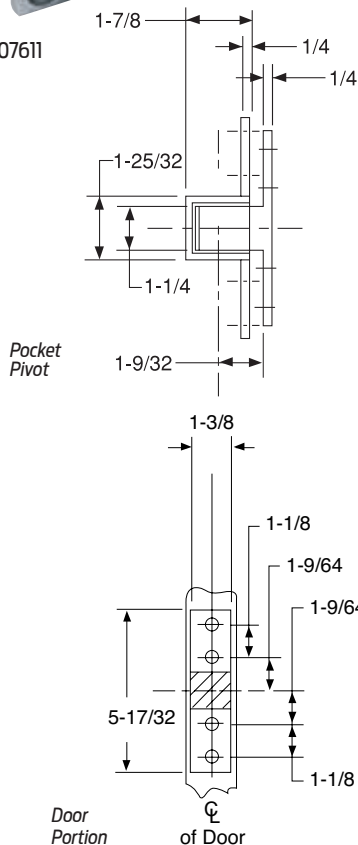
Painted Finishes *brass*

US Number	SP4	SP10	SP28	SP313	SPBLK
BHMA Number	706	691	689	695	622



UL Listed 3 hour fire doors
or 20 minute wood fire doors

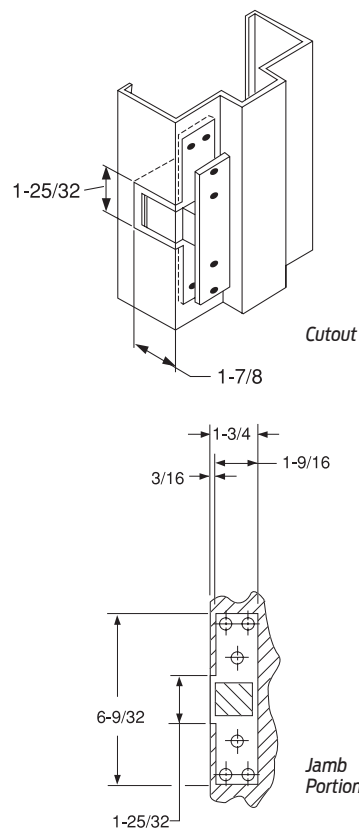
Meets ANSI/BHMA A156.4 C07611



91105F, 91105F-PT Pocket Pivot/Hinge

- Non-handed
- All stainless steel construction.
- Allows door to open a full 90 (* degree mark)
- Full mortise
- 90 pound load bearing
- Use two for doors up to 7'0" and over 7'0" use three.
- PT, Power Transfer version has four 28 gauge wires (contact factory for eight wire version). Rated 50 VOC or VAC @ 3.5 amps. Continuous or 16 amps pulse. Maximum pulse 400 milliseconds.

91105F Pocket Pivot



Plated Finishes *steel*

US Number	US3	US10	US10B
BHMA Number	632	639	640

Painted Finishes *steel*

US Number	USP	SP313
BHMA Number	600	695

Finishes *stainless steel*

US Number	US32	US32D
BHMA Number	629	630

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A

Hinges & Pivots

B2

Pulls & Plates

C

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

E

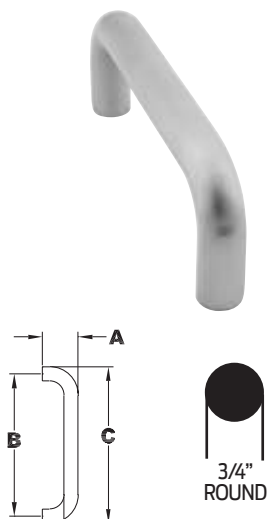
Stops

F

Exterior Hardware

G

Miscellaneous Hardware



8102HD Door Pull - 3/4" Round

Available mounting – standard, F, H-I-L, or J see pages B15 and B16
– 5/16-18" mounting screw size

Available Sizes

6", 8", 10"

Product No.	Projection "A"	Clearance	Center to Center "B"	Overall Length "C"
8102-6	2-1/4"	1-1/2"	6"	6-3/4"
8102-8	2-1/4"	1-1/2"	8"	8-3/4"
8102-0	2-1/4"	1-1/2"	10"	10-3/4"

Finishes brass

US Number	US3	US4	US10	US10B	US15	US26	US26D*
BHMA	605	606	612	613	619	625	626

Finishes stainless steel

US Number	US32D*
BHMA	630

Finishes aluminum

US Number	US28
BHMA	628

* Available with Antimicrobial Coating, use suffix AM



8103HD Door Pull - 1" Round

Available mounting – standard, F, H-I-L, or J see pages B15 and B16
– 3/8-16" mounting screw

Available Sizes

8", 10", 12"

Product No.	Projection "A"	Clearance	Center to Center "B"	Overall Length "C"
8103-8	2-1/2"	1-1/2"	8"	9"
8103-0	2-1/2"	1-1/2"	10"	11"
8103-2	2-1/2"	1-1/2"	12"	13"

Finishes brass

US Number	US3	US4	US10	US10B	US15	US26	US26D*
BHMA	605	606	612	613	619	625	626

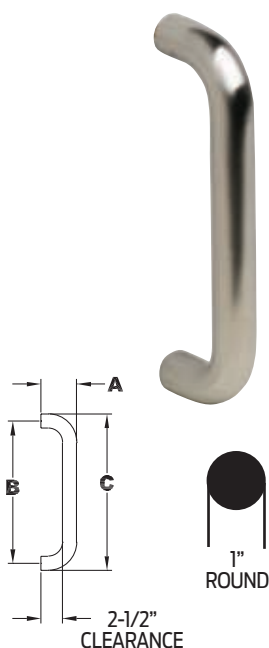
Finishes stainless steel

US Number	US32	US32D*
BHMA	629	630

Finishes aluminum

US Number	US28
BHMA	628

* Available with Antimicrobial Coating, use suffix AM



8103EZHD Door Pull - 1" Round Large 2-1/2" Clearance for the Accessibility Applications

Available mounting – standard, O, H-I-L, J see pages B15 and B17
with Heavy Duty 3/8-16" mounting screws

Available Sizes

8", 10", 12"

Product No.	Projection "A"	Clearance	Center to Center "B"	Overall Length "C"
8103EZ	3-1/2"	2-1/2"	8"	9"
8103EZ	3-1/2"	2-1/2"	10"	11"
8103EZ	3-1/2"	2-1/2"	12"	13"

Finishes brass

US Number	US3	US4	US10	US10B	US15	US26	US26D*
BHMA	605	606	612	613	619	625	626

Finishes stainless steel

US Number	US32	US32D*
BHMA	629	630

Finishes aluminum

US Number	US28
BHMA	628

* Available with Antimicrobial Coating, use suffix AM

8105 Door Pull - 1" Flattened

Available mounting – standard or F see page B15
– 1/4 - 20" mounting screws

Available Sizes

6", 8", 10"

Product No.	Projection "A"	Center to Center "B"	Overall Length "C"
8105-6	2"	6"	6-1/2"
8105-8	2"	8"	8-1/2"
8105-0	2"	10"	10-1/2"

Finishes brass

US Number	US3	US4	US10	US10B	US15	US26	US26D*
BHMA	605	606	612	613	619	625	626

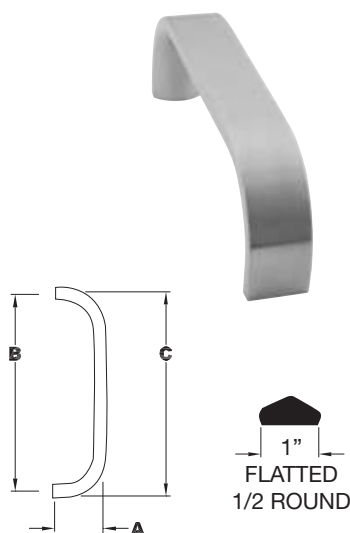
Finishes stainless steel

US Number	US32D*
BHMA	630

Finishes aluminum

US Number	US28
BHMA	628

* Available with Antimicrobial Coating, use suffix AM


A
Hinges & Pivots

B3
Pulls & Plates

C
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E
Stops

F
Exterior Hardware

G
Miscellaneous Hardware

A

Hinges & Pivots

B4

Pulls & Plates

C

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

E

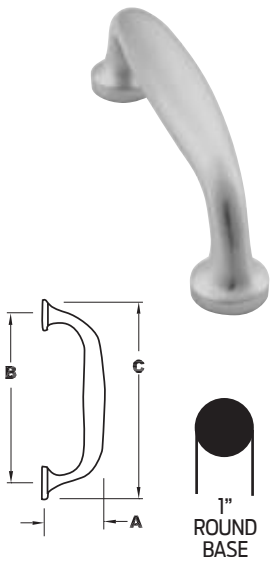
Stops

F

Exterior Hardware

G

Miscellaneous Hardware



8111-5 Door Pull

Available mounting – 1/4-20" mounting screws, standard see page B15

Size

5-1/4"

Product No.	Projection "A"	Center to Center "B"	Overall Length "C"
8111-5	1-13/16"	5-1/4"	6-1/4"

Finishes *brass*

US Number	US3	US4	US10	US10B	US15	US26	US26D*
BHMA	605	606	612	613	619	625	626

Finishes *stainless steel*

US Number	US32D*
BHMA	630

Finishes *aluminum*

US Number	US28
BHMA	628

* Available with Antimicrobial Coating, use suffix AM



8112-5 Door Pull

Standard sheet metal screws for surface mounting

Size

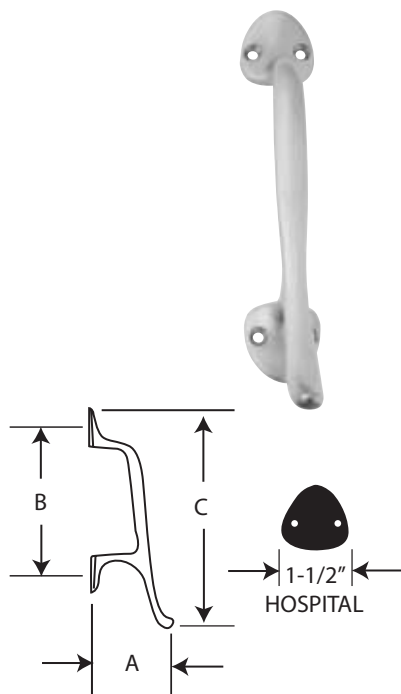
5-1/4"

Product No.	Projection "A"	Center to Center "B"	Overall Length "C"
8112-5	2-13/16"	5-5/8"	7-1/2"

Finishes *brass*

US Number	US26D*
BHMA	626

* Available with Antimicrobial Coating, use suffix AM



8121 Door Pull

Available mounting – K see page B16

Size

5-3/4"

Product No.	Projection "A"	Center to Center "B"	Overall Length "C"
8121-5	3-1/2"	5-3/4"	8-3/4"

Finishes brass

US Number US26D*

BHMA 626

* Available with Antimicrobial Coating, use suffix AM



8190HD 90° Offset Door Pull

Available mounting – with heavy duty 3/8-16" mounting screws, standard H-I-L, N or O see page B15 and B17

Available Sizes

8", 10", 12", 18"

Product No.	Projection "A"	Clearance	Center to Center "B"	Overall Length "C"
8190-8	3-1/4"	2-1/4"	8"	9"
8190-0	3-1/4"	2-1/4"	10"	11"
8190-2	3-1/4"	2-1/4"	12"	13"
8190-18	3-1/4"	2-1/4"	18"	19"

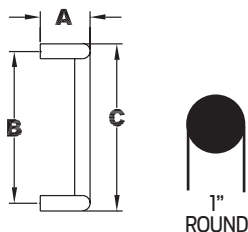
Finishes brass

US Number	US3	US4	US10	US10B	US15	US26	US26D*
BHMA	605	606	612	613	619	625	626

Finishes stainless steel

US Number	US32	US32D*
BHMA	629	630

* Available with Antimicrobial Coating, use suffix AM



A

Hinges & Pivots

B6

Pulls & Plates

C

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

E

Stops

F

Exterior Hardware

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Miscellaneous Hardware



8200 Push Plate
8300 Pull Plate, Prep for Pull (less pull)

Available Sizes

3" x 12"
3.5" x 15"
4" x 16"
6" x 16"
8" x 16"

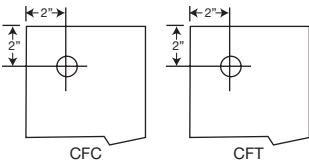
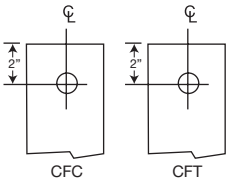
Special sizes are available. Consult factory.

Plates Cut for Cylinder or Thumbturns

Plates are available with cutout for cylinder or thumbturn; standard cutout is 2" from top and centered on plates up to 4" wide. For plates wider than 4" cutout is located 2" from outer edge, specify LH or RH. When pull location interferes with standard cutout location a detail drawing should be furnished with the order.

Standard cutout is 1-1/4" for cylinder and 3/8" for thumbturn.

Specify CFC for cutout for cylinder or CFT for cutout for thumbturn.



Finishes brass

US Number	US3	US4	US10	US10B	US15	US26	US26D*
BHMA	605	606	612	613	619	625	626

Finishes stainless steel

US Number	US32D*
BHMA	630

Finishes aluminum

US Number	US28
BHMA	628

** Available with Antimicrobial Coating, use suffix AM*



8302 Pull plate

Available mounting – Standard, F, G, H-I-L, or J see pages B15 and B16
Pulls have new heavy duty 5/16-18" mounting.

8300 Plate	8102 Pull
3-1/2" x 15"	6" centers
4" x 16"	8" centers
6" x 16"	10" centers

Finishes brass

US Number	US3	US4	US10	US10B	US26	US26D*
BHMA	605	606	612	613	625	626

Finishes stainless steel

US Number	US32D*
BHMA	630

Finishes aluminum

US Number	US28
BHMA	628

* Available with Antimicrobial Coating, use suffix AM



8303 Pull plate

Available mounting – Standard, F, G, H-I-L, or J see pages B15 and B16
Pulls have new heavy duty 3/8-16" mounting.

8300 Plate	8103 Pull
3-1/2" x 15"	8" centers
4" x 16"	10" centers
6" x 16"	7" centers

Finishes brass

US Number	US3	US4	US10	US10B	US26	US26D*
BHMA	605	606	612	613	625	626

Finishes stainless steel

US Number	US32D*
BHMA	630

Finishes aluminum

US Number	US28
BHMA	628

* Available with Antimicrobial Coating, use suffix AM



8305 Pull plate

Available mounting – Standard or F see page B15
Pulls have 1/4 - 20" mounting

8300 Plate	8105 Pull
3-1/2" x 15"	6" centers
4" x 16"	8" centers
6" x 16"	10" centers

Finishes brass

US Number	US3	US4	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626

Finishes stainless steel

US Number	US32D
BHMA	630

Finishes aluminum

US Number	US28
BHMA	628

* Available with Antimicrobial Coating, use suffix AM

A
Hinges & Pivots

B7
Pulls & Plates

C
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E
Stops

F
Exterior Hardware

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Miscellaneous Hardware

A
Hinges & Pivots

B8
Pulls & Plates

C
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E
Stops

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Exterior Hardware

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Miscellaneous Hardware



8311 Pull plate

Available mounting – Standard or F see page B15

Pulls have 1/4-20" mounting.

8300 Plate

3-1/2" x 15"

4" x 16"

6" x 16"

8111-5 Pull

5-1/8" centers

Finishes brass

US Number	US3	US4	US10	US10B	US26	US26D*
BHMA	605	606	612	613	625	626

Finishes stainless steel

US Number	US32D*
BHMA	630

Finishes aluminum

US Number	US28
BHMA	628

* Available with Antimicrobial Coating, use suffix AM

9100 Series Push Bar and Pull Combinations

- Available in brass, stainless steel or aluminum.
- Standard fasteners furnished for 1-3/4" thick doors. Specify door thick if other than standard.
- Special lengths are available, contact customer service.

See page B17 for special mounting requirements.

Caution – the length of the pushbar should not interfere with the door jamb or cause a pinch point.

9100HD Push Bar

Available mounting – NO or NS see page B17

with heavy duty 3/8-16" mounting



Product No.	Projection	Clearance	Center to Center	Overall Length
9100-28	2-1/2"	1-1/2"	28"	29"
9100-33	2-1/2"	1-1/2"	33"	34"

Special lengths available, consult factory

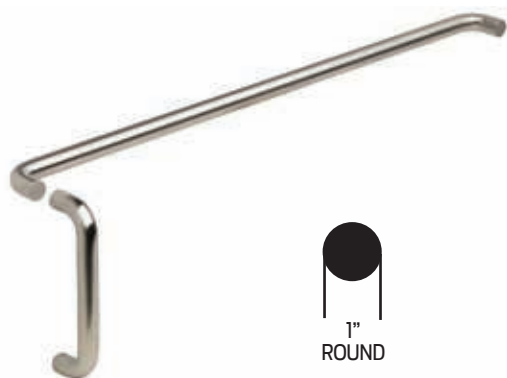
Finishes brass

US Number	US3	US4	US10	US10B	US15	US26	US26D*
BHMA	605	606	612	613	619	625	626

Finishes stainless steel

US Number	US32	US32D*
BHMA	629	630

* Available with Antimicrobial Coating, use suffix AM



9103EZHD Straight Pull/Pushbar Combo

(8103EZHD Pull + 9100HD Push)

Available mounting – NO or NS see page B17
with heavy duty 3/8-16" mounting

Product No.	CTC Push	CTC Pull	Projection Push & Pull
9103EZ	28", 33"	8"	2-1/2" & 3-1/2"
9103EZ	28", 33"	10"	2-1/2" & 3-1/2"
9103EZ	28", 33"	12"	2-1/2" & 3-1/2"

Special lengths available, consult factory

Finishes brass

US Number	US3	US4	US10	US10B	US15	US26	US26D*
BHMA	605	606	612	613	619	625	626

Finishes stainless steel

US Number	US32	US32D*
BHMA	629	630

* Available with Antimicrobial Coating, use suffix AM



9190HD Offset Pull/Pushbar Combo

(8190HD pull + 9100HD push)

Available mounting – NO or NS see page B17
with heavy duty 3/8-16" mounting

Product No.	CTC Push	CTC Pull	Projection Push & Pull
9190	28", 33"	8"	2-1/2" & 3-1/4"
9190	28", 33"	10"	2-1/2" & 3-1/4"
9190	28", 33"	12"	2-1/2" & 3-1/4"
9190	28", 33"	18"	2-1/2" & 3-1/4"

Special lengths available, consult factory

Finishes brass

US Number	US3	US4	US10	US10B	US15	US26	US26D*
BHMA	605	606	612	613	619	625	626

Finishes stainless steel

US Number	US32	US32D*
BHMA	629	630

* Available with Antimicrobial Coating, use suffix AM

A
Hinges & Pivots

B9
Pulls & Plates

C
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E
Stops

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Exterior Hardware

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Miscellaneous Hardware



Long Door Pulls

Offered in two Models:

9264

Offset

9266

Straight

- Heavy 1-1/4" Round Brass or Stainless Steel
- Round or Flat Tip
- 316 Stainless Steel
- 1-3/4", 2" or 2-1/4" Door Thickness
- Round Tip Standard
- Flat Tip Optional

Dimensions

Length: 36" / 20" CC

72" / 56" CC

Diameter: 1-1/4"

Projection: 2-3/4"

Special Lengths Available

18" and 24"

Custom lengths available from 36" to 144"

Finishes

Ives Number	US3	US4	US10B	US32	US32D
BHMA	605	606	613	629	630



Offset
Bracket



Round Tip



Flat Tip

Note: A middle position bracket is required for pulls over 8 feet.

Vandal Resistant Trim

All stainless steel, 11 gauge (0.120" thick), using stainless steel fasteners for door thickness of 1-3/4" to 2-1/4". Built-in lock protector prevents tampering on certain models. Protective cylinder collar spins to reduce damage from pipe wrench or other tools. Models are available with or without attractive black plastisol edge grip.



VR810

VR814

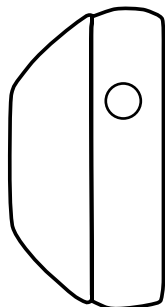
**VR810-DT
VR814-DT****With black grip
Without black grip**

- For use with Falcon XX or 25 Series Exit Device
- Non-handed
- Thru-bolts direct to the exit device
- Pull operation only

Prod. No.	Width	Height	Thru-Bolt Pattern	Clearance Grip to Door	Projection
VR810DT	5-1/4"	11"	1-3/4" wide x 7-3/4" high	1-1/2"	1-7/8"

Finishes

US Finish	US32D
BHMA	630

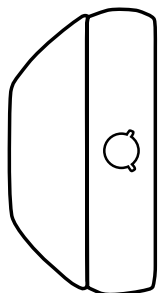
**VR810-NL
VR810-NL
VR814-NL
VR814-NL****LHR With black grip
RHR With black grip
LHR Without black grip
RHR Without black grip**

- For use with Falcon XX-V
- Thru-bolts direct to the exit device
- Night latch operation (cylinder not furnished)

Prod. No.	Width	Height	Thru-Bolt Pattern	Clearance Grip to Door	Projection
VR810NL	5-1/4"	11"	1-3/4" wide x 7-3/4" high	1-1/2"	1-7/8"

Finishes

US Finish	US32D
BHMA	630

**VR810-NL-V
VR814-NL-V****With black grip
Without black grip**

- For use with Falcon 25-R or 25-V Series exit devices
- Thru-bolts direct to the exit device
- Night latch operation (cylinder not furnished)

Prod. No.	Width	Height	Thru-Bolt Pattern	Clearance Grip to Door	Projection
VR810NL-V	5-1/4"	11"	1-3/4" wide x 7-3/4" high	1-1/2"	1-7/8"

Finishes

US Finish	US32D
BHMA	630

Hinges & Pivots
APulls & Plates
B11Flush Bolts & Coordinators
CLatches, Catches & Bolts
DStops
EExterior Hardware
FMiscellaneous Hardware
G

A

Hinges & Pivots

B12

Pulls & Plates

C

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

E

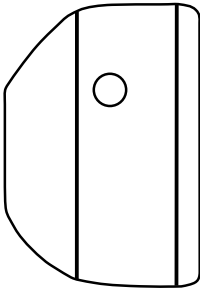
Stops

F

Exterior Hardware

G

Miscellaneous Hardware



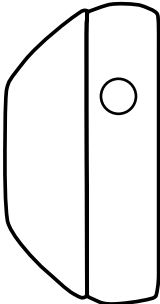
VR900 RHR With black grip
VR900 LHR With black grip
VR904 RHR Without black grip
VR904 LHR Without black grip

- For use with most mortise locks on outswinging doors including
- Schlage L9000 Series with interior L or N escutcheon, and rose trim.
- Includes built-in lock protector and cylinder cutout.
- Handed design allows trim to be positioned to coordinate with the centerline of inside hardware.

Width	Height	Thru-Bolt Pattern	Clearance Grip to Door	Projection
7-1/4"	11"	2" wide x 10" high	1-1/2"	1-7/8"

Finishes

US Finish	US32D
BHMA	630



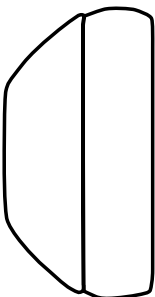
VR900LLP RH With black grip
VR900LLP LH With black grip
VR904LLP RH Without black grip
VR904LLP LH Without black grip

- For use with most mortise locks on outswinging doors including
- Schlage L9000 Series with interior L or N escutcheon, and rose trim.
- Includes built-in lock protector and cylinder cutout.
- Handed design allows trim to be positioned to coordinate with the centerline of inside hardware.

Width	Height	Thru-Bolt Pattern	Clearance Grip to Door	Projection
5-1/4"	11"	1-3/4" wide x 10" high	1-1/2"	1-7/8"

Finishes

US Finish	US32D
BHMA	630

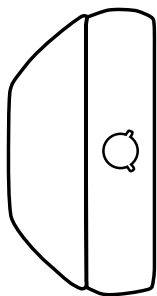
**VR910-DT
VR914-DT****With black grip
Without black grip**

- For use with Von Duprin 98/99 Series rim and vertical rod exit device
- Non-handed
- Thru-bolts direct to the exit device
- Pull operation only.

Width	Height	Thru-Bolt Pattern	Clearance Grip to Door	Projection
5-1/4"	11"	1-3/8" wide x 7" high	1-1/2"	1-7/8"

Finishes

US Finish	US32D
BHMA	630

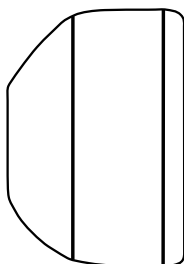
**VR910-NL
VR914-NL****With black grip
Without black grip**

- For use with Von Duprin 98/99 rim and vertical rod exit device
- Non-handed
- Thru-bolts direct to the exit device

Width	Height	Thru-Bolt Pattern	Clearance Grip to Door	Projection
5-1/4"	11"	1-3/8" wide x 7" high	1-1/2"	1-7/8"

Finishes

US Finish	US32D
BHMA	630

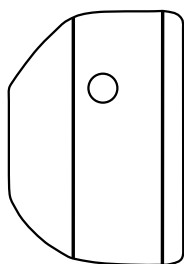
**VR910M-DT
VR914M-DT****With black grip
Without black grip**

- For use with Von Duprin 9875/9975 mortise lock exit device
- Non-handed
- Thru-bolts direct to the exit device

Width	Height	Thru-Bolt Pattern	Clearance Grip to Door	Projection
7-1/4"	11"	1-3/8" wide x 7" high	1-1/2"	1-7/8"

Finishes

US Finish	US32D
BHMA	630

**VR910M-NL RHR
VR910M-NL LHR
VR914M-NL RHR
VR914M-NL LHR****With black grip
With black grip
Without black grip
Without black grip**

- For use with Von Duprin 9875/9975 Series mortise lock exit device
- Thru-bolts direct to the exit device
- Night latch operation (cylinder not furnished)

Width	Height	Thru-Bolt Pattern	Clearance Grip to Door	Projection
7-1/4"	11"	1-3/8" wide x 7" high	1-1/2"	1-7/8"

Finishes

US Finish	US32D
BHMA	630

A
Hinges & Pivots

B14
Pulls & Plates

C
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E
Stops

F
Exterior Hardware

G
Miscellaneous Hardware

8400 Series Protection Plates

- Door protection plates are available in .050" thick brass, stainless steel or aluminum; and 1/8" thick high impact polyethylene in clear or black.
- Bevel edge options; specify B4E for all four edges.
- Mounting screw pack furnished standard, 16 screws per pack. Optional screw packs are available for TEK or TORK screw heads. Refer to the following chart for ordering.
- Specify NMH for no mounting holes. (Not available on 8402)
- Specify NMH-A for no mounting holes with adhesive. (Not available on 8402)
- Specify CS for counter sunk mounting holes.
- Specify ERS prepped with extra row of screws.

Kickplate Gasket Tape Tape is recommended when using a brass plate on a metal door to reduce tarnishing from electrolytic oxidation. One tape pack will cover an the perimeters of a 8" x 34" kickplate. Order 8401 Gasket Tape.



8400 Protection Plate
8402 (UL)* Protection Plate

**UL mark appears in upper right corner. Factory supplied screws must be used.*
Number of screw packs required by plate size (specify TEK Screws or TORK screws).

	22"-25"	26"-33"	34"-41"	42"-48"
4"-8"	1	1	1	1
9"-16"	1	1	1	1
17"-24"	1	1	1	2
25"-32"	1	1	2	2
33"-40"	1	2	2	2
41"-48"	2	2	2	2

Finishes brass 24" x 48" max. size

US Number	US3	US4	US10	US10B	US15	US26	US26D
BHMA	605	606	612	613	619	625	626

Finishes stainless steel

US Number	US32	US32D
BHMA	629	630

Finishes aluminum

US Number	US28
BHMA	628

Finishes plastic

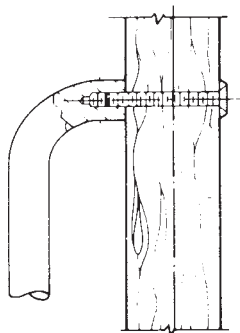
Clear and Black

Residential Grade Kickplates available Carded only, finishes PA28, PA3, PA619, PA716, B3, B505, B619, B716

Mounting

- All mounting hardware is for standard 1-3/4" door.
- Consult Customer Service if other than standard.

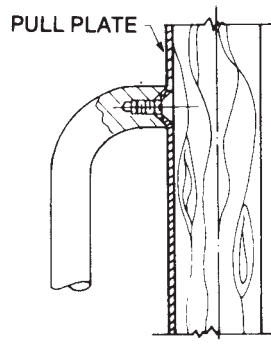
Type Standard Mount



Standard Mounting

- (2) 3/8-16 x 2-1/4" brass, flat head machine screws; plate to match.
 - (2) 3/8-16 countersunk washers; plated to match
- Note: 8102HD and 8105 have (2) 5/16-18 x 2-1/2" machine screws
-Options: (2) 5/16 countersunk washers

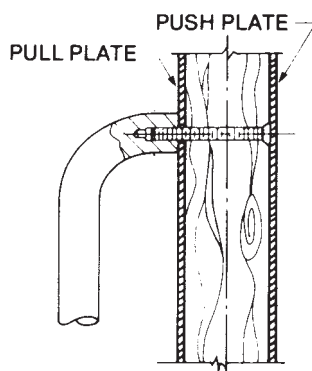
Type G Mount



Concealed Pull Plate Mounting

- Available only for 8302, 8303, 8311 Pull Plates.
- (2) 3/8-16 x 5/8" steel flat head machine screws; zinc plated.
- Pull mounts directly onto plate.
Plate is attached to door by 6 screws.
Note: 8302 has (2) 5/16-19 x 5/8" steel flathead zinc plated screws

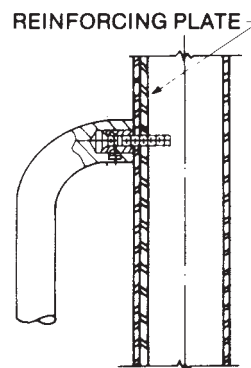
Type F Mount



Wood Doors Concealed Pull Mounting With Push Plate

- (2) 2-1/4" steel flat head machine screws; zinc plated.
- Available only for 8102HD, 8103HD, 8105, 8111, 8302, 8303, 8305 and 8311. Plate on opposite side of door must be ordered separately.
- Note: 8102HD, 8302 will have 5/16-18
8105, 8111, 8305, 8311 will have 1/4-20
8103HD, 8303 will have 3/8-16"

Type H-I-L Mount



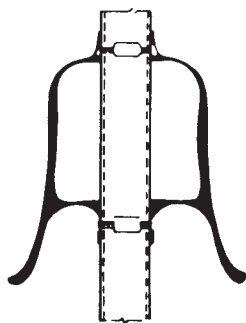
Reinforced Hollow Metal Door Concealed Pull Mounting

- Available only for 8102, 8103, 810EZ or wood door pulls, 8302, 8303 pull plates and 9264, 9265, 9266 and 9267 long door pulls.
- (2) Steel screw sleeves; zinc plated.
 - (2) Steel countersunk trim head machine screw; zinc plated for reinforced metal door.
 - (2) Steel countersunk trim head steel metal screw; zinc plated for wood doors.
- Note: 8102HD and 8302 will have 5/16-18"
8103HD, 8103EZHD, 8303 will have 3/8-16

Mounting

- All mounting hardware is for standard 1-3/4" door.
- Consult Customer Service if other than standard.

Type K Mount



Back to Back Pull Mounting

Available only for 8121-5 Pulls.

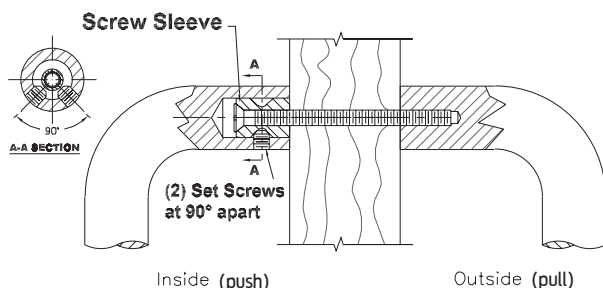
- (4) Steel screw sleeve nuts; steel zinc plated.
 - (8) No. 8-32 x 1" brass oval head machine screws; plated to match.
- Pulls furnished in pairs (PR).

Mounting for 8103EZ, 8190, 9100, 9103EZ, 9190 and 9264, 9265, 9266 and 9267 long door pulls.

• All mounting hardware is for standard 1-3/4" door.

• Consult Customer Service if other than standard.

Type J/N Mount



Back to Back "Two-Anchor"

Wood or Metal Door

Available only for 8103EZHD, 8190HD, 9100HD push/pull combinations and 9264, 9265, 9266 and 9267 long door pulls.

- (2) 3/8-16 x 2-3/4" steel countersunk trim head machine screws with (4) set screws for maximum anchoring force.
- (2) Steel screw sleeves; zinc plated.

Type NS-Standard Push/Pull Mounting

Type N & Standard

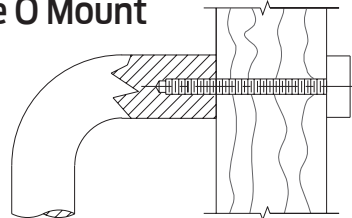
Pushbar to Pull

- (1) 3/8 - 16 X 3" steel countersunk trim head machine screws with (2) set screws.
- (1) steel screw sleeve, zinc plated.

Free End Pushbar & Pull

- (2) 3/8 - 16 X 2-1/4" brass, oval head mach screws; plated to match.
- (2) No. 14 countersunk washers; plated to match.

Type O Mount



Decorative Blind Thru - Bolt

Wood or Metal Door

Available only for 8103EZHD, 8190HD and 9100HD Series Push/Pull Combinations.

- (2) 3/8-16 x 2-1/4" blind thru - bolts; plated to match.

Type NO Push/Pull Mounting

Type N & Type O

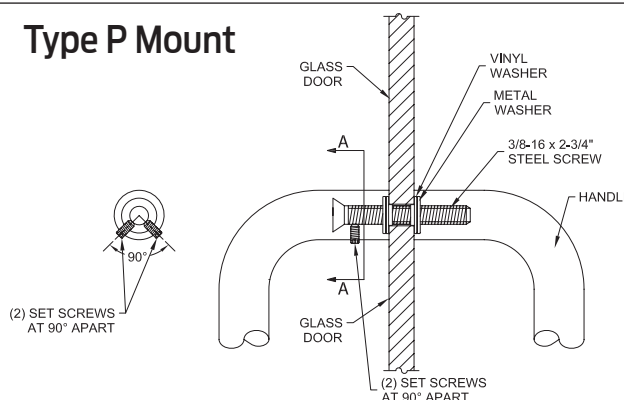
Pushbar to Pull

- (1) 3/8 - 16 X 3" steel countersunk trim head machine screws with (2) set screws.
- (1) steel screw sleeve, zinc plated.

Free End Pushbar & Pull

- (2) 3/8 - 16 X 2-1/4" blind thru-bolts; plated to match.

Type P Mount



1/2" Glass Door

Available only for 8103EZHD, 8190HD, 9100HD, 9265 and 9266 long door pulls.

- (2) 3/8-16 x 2-1/4" steel countersunk trim head machine screws with (4) set screws for maximum anchoring force.
- (2) Steel screw sleeves; zinc plated
- (2) Metal and Vinyl washers

Hinges & Pivots

Pulls & Plates

Flush Bolts & Coordinators

Latches, Catches & Bolts

Stops

Exterior Hardware

Miscellaneous Hardware

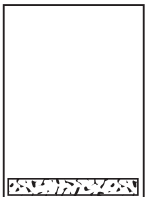
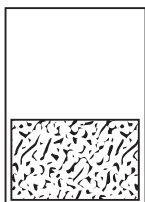
A Hinges & Pivots		Mop Plates • Protect the bottom of the pull side of door subject to cleaning and mopping procedures. • Size Ranges: 4" to 6" high, 22" to 48" wide
B18 Pulls & Plates		Kick Plates • Protect the bottom of the push side of doors subject to scuffing from foot traffic. • Recommended for all doors subject to normal use (especially doors using a closer). • Size Ranges: 8" to 24" high, 22" to 48" wide
C Flush Bolts & Coordinators		Stretcher Plates • Protect doors at specific areas where consistent contact is made by stretchers, service carts or other equipment. • Usually applied to push side of doors. • Specify "B4E" Option for beveled edges. • Size Ranges: 6" to 8" high, 22" to 48" wide
D Latches, Catches & Bolts		Armor Plates • Protect lower half of doors from abuse by hard carts, trucks and rough usage. • Usually applied to push side of single doors and both sides of double acting doors. • Size Ranges: 26" to 48" high, 22" to 48" wide
E Stops		
F Exterior Hardware		
G Miscellaneous Hardware		

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A
Hinges & Pivots

B
Pulls & Plates

C1
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

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Exterior Hardware

G
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Meets ANSI A156.3 Type 25.
UL Listed 3 Hour Fire Doors 8'0" x 10'0"



Meets ANSI A156.3 Type 25.
UL Listed 3 Hour Fire Doors 8'0" x 8'0"

FB31P Top and Bottom Bolts (Pair)

- Fully Automatic—inactive door is latched, bolts are extended when active door closes, door is unlatched, bolts retract when active door is opened.
- Low Actuation Forces—Top Bolt Has No Spring Tension.
- Fits standard ANSI A115.4 Door Frame Preparations.
- Non-handed.
- Bolt throw is 3/4" with a 7/8" vertical adjustment.
- Bolt backset is 3/4"
- Standard Rod Length is 12", which is measured from the center of the flush bolt body to the bolt tip. Optional rod lengths available for top bolt only on non-fire rated openings—18", 24", 36" and 48.

DP1 or DP2 optional dust proof strike available, see page C11.

FB31T Top Bolt Only FB31B Bottom Bolt Only

FB32 Top Bolt with Auxiliary Fire Latch

- FB32 Model with Auxiliary Fire Latch eliminates the bottom bolt and is UL Listed for Fire Doors.

FB33 Top Bolt with Auxiliary Fire Latch and Retrofit Plate

- FB33 Model with Auxiliary Fire Latch eliminates the bottom bolt and includes a retrofit plate to cover existing bottom bolt prep. UL Listed for Fire Doors.

Dimensions

Body Size: 1" Wide x 6-3/4" Long x 2" Deep

Guide Size: 1" Wide x 1-27/32" Long x 27/32" High x 3/32" Thick

Strike Size: 15/16" Wide x 2-1/4" Long x 1/16" Thick

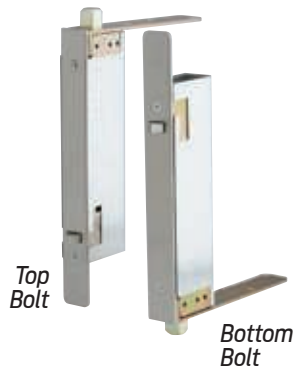
Rub Plate Size: 1-1/4" Wide x 1-11/16" Long x 3/64" Thick

Auxiliary Fire Latch Size: 1" Wide x 1-3/4" Long x 3-1/4" Deep

Retrofit Plate Size: 1" Wide x 6-3/4" Long x 3/32" Thick

Finishes

Ives Number	US3	US4	US10	US10B	US32	US32D
BHMA	605	606	612	613	629	630



Meets ANSI A156.3 Type 25.

UL Listed 90 Minute Fire Doors 8'0" x 8'0"

FB41P Top and Bottom Bolts (Pair)

- Fully Automatic—inactive door is latched, bolts are extended when active door closes, door is unlatched bolts retract when active door is opened.
- Low Actuation Forces—Top Bolt Has No Spring Tension.
- Non-handed.
- Bolt throw is 3/4" with a 7/8" vertical adjustment.
- Bolt backset is 3/4"

DP1 or DP2 optional dust proof strike available, see page C11.

FB41T Top Bolt Only

FB41B Bottom Bolt Only



Meets ANSI A156.3 Type 25.

UL Listed 20 Minute Fire Doors 8'0" x 8'0"

FB42 Top Bolt with Auxiliary Fire Latch

- FB42 Model with Auxiliary Fire Latch eliminates the bottom bolt and is UL Listed for Fire Doors.

Dimensions

Body Size: 1" Wide x 8-1/2" Long x 2" Deep

Guide Size: 1" Wide x 6" Long x 1/8" Thick

Strike Size: 15/16" Wide x 2-1/4" Long x 1/16" Thick

Rub Plate Size: 1-1/4" Wide x 1-11/16" Long x 3/64" Thick

Auxiliary Fire Latch Size: 1" Wide x 1-3/4" Long x 3-1/4" Deep

Finishes

Ives Number	US3	US4	US10	US10B	US32	US32D
BHMA	605	606	612	613	629	630

Hinges & Pivots

A

Pulls & Plates

B

Flush Bolts & Coordinators

C3

Latches, Catches & Bolts

D

Stops

E

Exterior Hardware

F

Miscellaneous Hardware

G



Meets ANSI A156.3 Type 27.
UL Listed 3 Hour Fire Doors 8'0" x 10'0"

FB51P Top and Bottom Bolts (Pair)

- Constant Latching—inactive door remains latched until the active door is opened, releasing the automatic bottom bolt and then the top bolt can be manually released. Inactive door will relatch automatically when closed.
- Low Actuation Forces.
- Fits standard ANSI A115.4 Door and Frame Preparations.
- Non-handed.
- 3/4" bolt throw with a 7/8" vertical adjustment.
- 3/4" backset
- Standard Rod Length is 12", which is measured from the center of the flush bolt body to the bolt tip. Optional rod lengths available for top bolt only on non-fire rated openings—18", 24", 36" and 48".

DP1 or DP2 optional dust proof strike available, see page C11.

FB51T Top Bolt Only

FB52 Top Bolt with Auxiliary Fire Latch

- FB52 Model with Auxiliary Fire Latch eliminates the bottom bolt and is UL Listed for Fire Doors.

FB53 Top Bolt with Auxiliary Fire Latch & Retrofit Plate

- FB53 Model with Auxiliary Fire Latch eliminates the bottom bolt and includes a retrofit plate to cover existing bottom bolt prep. UL Listed for Fire Doors.



Meets ANSI A156.3 Type 27.
UL Listed 3 Hour Fire Doors 8'0" x 10'0"

Dimensions

Body Size: 1" Wide x 6-3/4" Long x 2" Deep

Guide Size: 1" Wide x 1-27/32" Long x 11/16" High x 3/32" Thick

Strike Size: 15/16" Wide x 2-1/4" Long x 1/16" Thick

Rub Plate Size: 1-1/4" Wide x 1-11/16" Long x 3/64" Thick

Auxiliary Fire Latch Size: 1" Wide x 1-3/4" Long x 3-1/4" Deep

Retrofit Plate Size: 1" Wide x 6-3/4" Long x 3/32" Thick

Finishes

Ives Number	US3	US4	US10	US10B	US32	US32D
BHMA	605	606	612	613	629	630



Meets ANSI A156.3 Type 27.
UL Listed 90 Minute Fire Doors 8'0" x 8'0"

FB61P Top and Bottom Bolts (Pair)

- Constant Latching—inactive door remains latched until the active door is opened, releasing the automatic bottom bolt and then the top bolt can be manually released. Inactive door will relatch automatically when door closes.
- Low Actuation Forces.
- Non-handed.
- Bolt throw is 3/4" with a 7/8" vertical adjustment.
- Bolt backset is 3/4"

DP1 or DP2 optional dust proof strike available, see page C11.

FB61T Top Bolt Only

FB62 Top Bolt with Auxiliary Fire Latch

- FB62 Model with Auxiliary Fire Latch eliminates the bottom bolt and is UL Listed for Fire Doors..



Meets ANSI A156.3 Type 27.
UL Listed 20 Minute Fire Doors 8'0" x 8'0"

Dimensions

Body Size: 1" Wide x 8-1/2" Long x 2" Deep

Guide Size: 1" Wide x 6" Long x 1/8" Thick

Strike Size: 15/16" Wide x 2-1/4" Long x 1/16" Thick

Rub Plate Size: 1-1/4" Wide x 1-11/16" Long x 3/64" Thick

Auxiliary Fire Latch Size: 1" Wide x 1-3/4" Long x 3-1/4" Deep

Finishes

Ives Number	US3	US4	US10	US10B	US32	US32D
BHMA	605	606	612	613	629	630

A
Hinges & Pivots

B
Pulls & Plates

C5
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E
Stops

F
Exterior Hardware

G
Miscellaneous Hardware

A

Hinges & Pivots

B

Pulls & Plates

C6

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

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Exterior Hardware

G

Miscellaneous Hardware



Meets ANSI/BHMA A156.16, L04201.



Meets ANSI/BHMA A156.16, L04201.

261 Flush Bolt

- An exceptionally smooth working flush bolt with sharp, crisp lines.
- Double action spring design provides automatic holding of brass bolt in projected or retracted position, and assures ease of operation in conjunction with deep cup finger hole.
- Made from polished cast brass.
- Bolt tip is 5/16" Diameter
- Bolt throw is 3/4"
- Bolt backset is 15/32"

Dimensions

Body Size: 3/4" Wide x 4" Long x 1-1/8" Deep
Strike Size: 5/8" Wide x 1-1/2" Long

Finishes

Ives Number	B3	B5	B10B	B15	B26	B26D
BHMA	605	609	613	619	625	626

262 Flush Bolt

- An exceptionally smooth working flush bolt with sharp, crisp lines.
- Double action spring design provides automatic holding of brass bolt in projected or retracted position, and assures ease of operation in conjunction with deep cup finger hole.
- Made from polished cast brass.
- Bolt tip is 1/2" Diameter
- Bolt throw is 1"
- Bolt backset is 15/32"

Dimensions

Body Size: 3/4" W x 6" L x 1-11/32" D
Strike Size: 7/8" W x 1-3/4" L

Finishes

Ives Number	B3	B5	B10B	B15	B26	B26D
BHMA	605	609	613	619	625	626



Meets ANSI/BHMA A156.16, L04201.

265 Flush Bolt

- A flush bolt with radiused bottom faceplate designed specifically for simple one-step router installation.
- Double action spring design provides automatic holding of brass bolt in projected or retracted position, and assures ease of operation in conjunction with deep cup finger hole.
- Faceplate is polished solid brass; bolt is made from aluminum zinc alloy.
- Bolt tip is 1/2" Diameter
- Bolt throw is 1"
- Bolt backset is 1/2"

Dimensions

Body Size: 3/4" W x 6" L x 1-7/16" D

Strike Size: 7/8" W x 1-3/4" L

Finishes

Ives Number	B3	B5	B10B	B15	B26	B26D
BHMA	605	609	613	619	625	626

A
Hinges & Pivots

B
Pulls & Plates

C7
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E
Stops

F
Exterior Hardware

G
Miscellaneous Hardware



Meets ANSI/BHMA A156.16, L04261.
UL Listed 90 Minute Fire Doors 8'0" x 10'0"

FB358 Top or Bottom Bolts

- When the active door is opened, the lever can be moved to the 'up' position, retracting the bolt and allowing the inactive leaf to be opened. When the inactive leaf is closed, the lever can be moved to the 'down' position, projecting the bolt into the strike and securely locking the inactive leaf.
- Reduces installation costs; requires only simple router mortise at top and bottom corners of doors.
- Door strength and rigidity maintained by tying door faces to reinforcing extensions on guide with machine screws and bearing washers, not supplied.
- Non-handed.
- Bolt tip 1/2" diameter
- Bolt throw is 3/4" with a 7/8" vertical adjustment.
- Bolt backset is 3/4"
- Not available for rabbeted door installations.

DPI or DP2 optional dust proof strike available, see page C11.

Dimensions

Body Size: 1" Wide x 6-3/4" Long x 1-3/8" Deep

Guide Size: 1" Wide x 2-1/2" Long x 5/64" Thick

Strike Size: 15/16" Wide x 2-1/4" Long x 5/64" Thick

Finishes

Ives Number	US3	US4	US10	US10B	US15	US26	US26D
BHMA	605	606	612	613	619	625	626



Meets ANSI/BHMA A156.16, L04251.
UL Listed 3 Hour Fire Doors 8'0" x 10'0"

FB457 Top or Bottom Bolts

- When the active door is opened, the lever can be moved to the 'up' position, retracting the bolt and allowing the inactive leaf to be opened. When the inactive leaf is closed, the lever can be moved to the 'down' position, projecting the bolt into the strike and securely locking the inactive leaf.
- Simplified installation in metal frames. Round bolt head requires only a punched hole. Use of strike optional. Special design of guide and flat sided bolt tip to prevent bolt rotation.
- Non-handed.
- Bolt tip is 1/2" Diameter.
- Bolt throw is 3/4" with a 7/8" vertical adjustment.
- Bolt backset is 3/4"
- Standard Rod Length is 12", which is measured from the center of the flush bolt body to the bolt tip. Optional rod lengths available - 6", 9", 18" and 24" for fire rated doors. Optional rod lengths available - 6", 9", 18", 24", 30", 36" and 48" for non-fire rated doors.

DP1 or DP2 optional dust proof strike available, see page C11.

Dimensions

Body Size: 1-1/4" Wide x 6-3/4" Long x 1-1/8" Deep

Guide Size: 1" Wide x 2" Long x 5/64" Thick

Strike Size: 15/16" Wide x 2-1/4" Long x 5/64" Thick

Finishes

Ives Number	US3	US4	US10	US10B	US15	US26	US26D
BHMA	605	606	612	613	619	625	626

A
Hinges & Pivots

B
Pulls & Plates

C9
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E
Stops

F
Exterior Hardware

G
Miscellaneous Hardware



Meets ANSI/BHMA A156.16, L04251.
UL Listed 90 Minute Fire Doors 8'0" x 10'0"

FB458 Top or Bottom Bolts

- When the active door is opened, the lever can be moved to the 'up' position, retracting the bolt and allowing the inactive leaf to be opened. When the inactive leaf is closed, the lever can be moved to the 'down' position, projecting the bolt into the strike and securely locking the inactive leaf.
- Simplified installation in metal frames. Round bolt head requires only a punched hole. Use of strike optional. Special design of guide and flat sided bolt tip to prevent bolt rotation.
- Non-handed.
- Bolt tip is 1/2" diameter.
- Bolt throw is 3/4" with a 7/8" vertical adjustment.
- Bolt backset is 3/4"
- Standard Rod Length is 12", which is measured from the center of the flush bolt body to the bolt tip. Optional Rod Lengths available - 6", 9", 18" and 24" for fire rated Doors. Optional Rod lengths available - 6", 9", 18", 24", 30", 36" and 48" for non-fire rated doors.

DPI or DP2 optional dust proof strike available, see page C11.

Dimensions

Body Size: 1" Wide x 6-3/4" Long x 1-1/8" Deep

Guide Size: 1" Wide x 2" Long x 5/64" Thick

Strike Size: 15/16" Wide x 2-1/4" Long x 5/64" Thick

Finishes

Ives Number	US3	US4	US5	US10	US10B	US15	US26	US26D
BHMA	605	606	609	612	613	619	625	626



DP1



DP2

Meets Meets ANSI/BHMA 156.16, L14011.

DP1

DP2

Dust Proof Strikes

- Designed for use with the bottom bolt of all flush bolts.
- Spring-loaded plunger returns to floor or threshold level anytime flush bolt is retracted, eliminating need to clean standard floor strikes.
- Strike hole is 3/4" Diameter and 1-1/8" Deep

Dimensions
DP1 Face Plate: 1-7/16" Diameter
DP2 Face Plate: 1-5/8" W x 3-1/2" L x 1/8" Thick
Body: 1-3/16" Diameter x 1-7/8" Deep

Finishes						
Ives Number	US3	US4	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626

A

Hinges & Pivots

B

Pulls & Plates

C11

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

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Miscellaneous Hardware



Meets ANSI/BHMA A156.3, Type 21A.
UL Listed for installation on labeled frame.

COR

Series Bar Coordinators

- The COR Series Coordinators are designed for use on pairs of doors when one door needs to close before the other.
- All COR units function easily. The active door lever, located nearest to the active stop, holds the active door open until the trigger mechanism is released by the closing of the inactive leaf.
- All COR units may not function correctly with swingclear hinges.
- All COR units are equipped with an adjustable override feature which allows the active door to close under extreme pressure.
- All COR units are compatible with Flush Bolts.
- The COR Series is available in five sizes for variable door opening widths.
- The COR Series does not cover the entire length of the stop, so a FL filler bar can be provided to maintain architecturally clean lines.
- COR Series Coordinator Channels and FL fillers are made of aluminum.
- Optional Filler Bars: FL20 - 20", FL32 - 32" and FL44 - 44", available to maintain clean line.
- Optional Mounting Brackets available: MB1, MB2, MB1F, MB2F, MB3F, MB1V, MB2V, and MB3V for other stop applied hardware.

For Openings Where Doors Are Same Size

Coordinator Number	Length of Channel	For Opening Widths	Common Applications
COR32	32"	34" - 52"	Pair of 2'0" Doors
COR42	42"	52" - 72"	Pair of 2'6" Doors
COR52	52"	62" - 92"	Pair of 3'0" Doors
COR60	60"	70" - 108"	Pair of 3'6" Doors
COR72	72"	84" - 132"	Pair of 4'0" Doors

For Openings Where Doors Are Unequal Size

The coordinator length should equal the active door width plus approximately 1/2 the inactive door width. The coordinator must be 6" longer than the active door width and shorter than the overall frame opening between stops.

Finishes

Ives Finish	US28	US26D	315AN
BHMA	628	713	711



FL

Series Filler Bars

- The FL Filler Bars are available in three sizes for variable frame openings.
- FL Filler Bars are made of aluminum
- FL Filler Bars are field sized to frame opening.

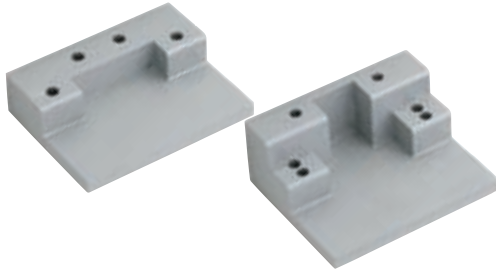
Filler Bar

Number	Length	Dimensions
FL20	20"	1-5/8" W x 5/8" D x 20" L
FL32	32"	1-5/8" W x 5/8" D x 32" L
FL44	44"	1-5/8" W x 5/8" D x 44" L

Finishes

Ives Finish	US28	US26D	315AN
BHMA	628	713	711

MB1 and MB2



Mounting Brackets

- Allows stop mounted hardware to be properly installed without damaging the COR coordinator, such as a parallel arm closer or a non-fire-rated surface vertical rod strike.
- Stop mounted hardware will need to be lowered to compensate for the height of the coordinator and mounting bracket.
- MB mounting brackets are made of aluminum

Product	Jamb Depth	Stop Width	Dimensions
MB1	4-3/4" Min.	Over 2-1/2"	4" W x 3" D x 15/16" T
MB2	4-3/4" Min.	Up to 2-1/2"	4" W x 3-1/4" D x 1-5/8" T

Finishes

Ives Finish	USP	SP28	SPBLK
BHMA	600	689	622

MB1F, MB2F and MB3F MB1V, MB2V and MB3V



MB1V

MB2V



MB3V

Fire Rated Mounting Brackets

- Allows for fire-rated stop mounted hardware to be properly installed without damaging the COR Coordinators, such as fire-rated surface vertical rod exit device strikes.
- Latch will need to be lowered to compensate for the height of the coordinator and mounting bracket.
- MB-V are designed for Von Duprin 8827-F soffit latch.
- Mounting brackets are made of steel.

Product	Jamb Depth	Stop Width	Dimensions
MB1F	5"	1-1/2" - 2-1/4"	4" W x 3" D x 1-5/8" T
MB1V	5"	1-1/2" - 2-1/4"	4" W x 3" D x 1-5/8" T
MB2F	5-7/8"	2-3/8" - 3-1/4"	4"W x 4" D x 1-5/8" T
MB2V	5-7/8"	2-3/8" - 3-1/4"	4"W x 4" D x 1-5/8" T
MB3F	6-7/8"	Over 3-3/8"	4"W x 3-1/2" D x 1" T
MB3V	6-7/8"	Over 3-3/8"	4"W x 3-1/2" D x 1" T

Finishes

Ives Finish	USP	SP28	SPBLK
BHMA	600	689	622

COR7G and COR9G



Meets ANSI/BHMA A156.3, Type 21.
UL Listed for Fire Doors.

Gravity Coordinators

- When active door is open, coordinator prevents active door from closing until inactive door bypasses. Closing of inactive door causes strike plate on top of door to contact cam and lift arm, allowing active door to close. As inactive door continues closing, roller rides over strike plate on to door bracket, holding arm above active door.
- Non-handed.
- Gravity action arm and door bracket are adjustable on the job for ease of installation. Rubber roller provides quiet and efficient operation, and helps protect the astragal and doors from damage.
- Nylon roller on short arm glides smoothly over door bracket and strike, ensuring silent operation.
- Made of forged brass.
- COR7G for use on pairs of doors with astragal on active door up to 4' or with astragal on inactive door up to 3'4" or with astragal on both doors up to 2'10"
- COR9G for use on pairs of doors with astragal on active over 4' or with astragal on inactive door over 3'4" or with astragal on both doors over 2'10"

Product	Projection
COR7G	7"
COR9G	9"

Finishes

Ives Finish	US3	US4	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626



Meets ANSI/BHMA A156.3, Type 21.

CB1 Carry Bar

- Used when it is possible for the inactive door to be opened before the active door.
- Prevents damage to the doors and other hardware.
- Nylon roller insures quiet and efficient operation.
- Non-handed.
- All-steel construction.
- Standard sex bolts for mounting.

Finishes

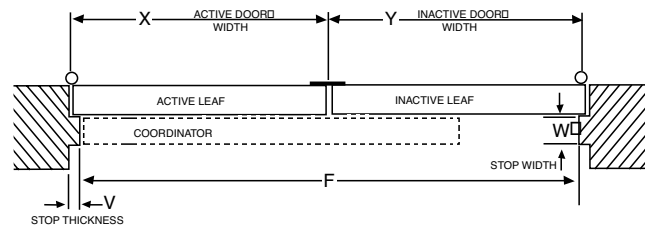
Ives Finish	US3	US4	US10	US10B	US26	US26D	SPBLK	USP
BHMA	605	606	612	613	625	626	622	600

How to Order COR and Accessories

	COR	52	US28	FL20	D	36"
COR Size: 32, 42, 52, 60, 72						
Finishes: US28, US26D, 315AN						
Filler Bar (if desired): FL20, FL32, FL44						
Vertical Rod Exit Device Cutout Type (if applicable): A, B, C, D, E, F, G If other Vertical Rod Exit Device not listed on chart, from page C16, include information as shown on page C16.						
Active Door Size – Required for ALL Vertical Rod Exit Device Applications						

To determine the size COR you need:

1. Start with the active door width (X).
2. Next consider the overall frame opening between stops (F).
3. Preferably, the coordinator would equal the active door width (X) + approximately 1/2 inactive door width (Y).
The coordinator must be 6" longer than the active door width (X) and less than the overall frame opening between stop (F).



Examples:

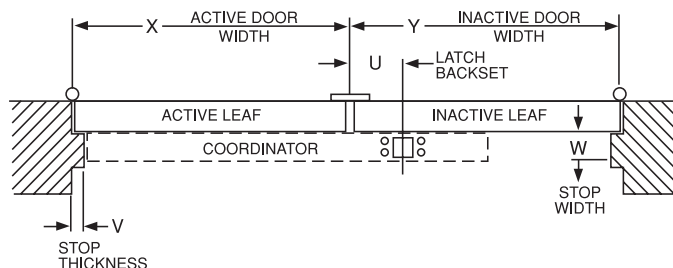
- Pair of 30" Doors, 5/8" Stops
Active Door Size, X = 30"
Overall Frame Opening between Stops, F = 58-3/4"
Recommended Coordinator: COR42
- Pair of 36" Doors, 5/8" Stops
Active Door Size, X = 36"
Overall Frame Opening between Stops, F = 70-3/4"
Recommended Coordinator: COR52
- 36" Active Door, 18" Inactive door, 5/8" Stops
Active Door Size, X = 36"
Overall Frame Opening between Stops, F = 52-3/4"
Recommended Coordinator: COR42
- 48" Active Door, 24" Inactive Door, 5/8" Stops
Active Door Size, X = 48"
Overall Frame Opening between Stops, F = 94-3/4"
Recommended Coordinator: COR60

Special Factory Preparation for Use with Vertical Rod Exit Devices

Coordinators may need to be prepared at the factory for use with some surface or concealed vertical rod exit devices.
(See Chart below)

If the exit device is not listed the following information is needed.

1. Exit Device Manufacturer and Model No.
2. Active Door Size, "X"
3. Inactive Door Size, "Y"
4. Exit Device Backset, "U"
5. Stop Width, "W"
6. Stop Thickness if other than 5/8", "V"



Exit Device Manufacturer	Exit Device Number	Device Backset	Maximum Active Door	Coordinator Size Needed	Coordinator Cutout Type	Mounting Bracket Needed
Von Duprin	5547-F	2-3/8"	33" 43" 51" 63"	42" 52" 60" 72"	Type A	None
Von Duprin	8827-F	2-3/4"	33" 43" 51" 63"	42" 52" 60" 72"	Type B	MB1V, MB2V or MB3V see page C3
Von Duprin	8847-F	2-3/8"	33" 43" 51" 63"	42" 52" 60" 72"	Type C	None
Von Duprin	33/3547 33/3547-F 98/9947 98/9947-F	2-3/4"	33" 43" 51" 64"	42" 52" 60" 72"	Type D	None
Von Duprin	33/3548 33/3548-F 98/9948 98/9948-F	2-3/4"	33" 43" 51" 64"	42" 52" 60" 72"	Type D	None
Von Duprin	33/3547WDC 33/3547WDC-F 98/9947WDC 98/9947WDC-F	1-5/16"	34" 44" 52" 65"	42" 52" 60" 72"	Type E	None
Falcon	17-C F-17-C 18-C F-18-C XX-C F-XX-C 24-C F-24-C 25-C F-25-C	2-3/4"	33" 43" 51" 63"	42" 52" 60" 72"	Type F	None
Falcon	17-C-WDC F-17-C-WDC 18-C-WDC F-18-C-WDC XX-C-WDC F-XX-C-WDC 24-C-WDC F-24-C-WDC 25-C-WDC F-25-C-WDC	2-13/16"	33" 43" 51" 63"	42" 52" 60" 72"	Type G	None

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A
Hinges & Pivots

B
Pulls & Plates

C
Flush Bolts & Coordinators

D1
Latches, Catches & Bolts

E
Stops

F
Exterior Hardware

G
Miscellaneous Hardware

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Hinges & Pivots

B

Pulls & Plates

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Flush Bolts & Coordinators

D2

Latches, Catches & Bolts

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Meets ANSI/BHMA A 156.16
UL listed 3 hour fire door, up to 10'0"
Miami Dade County NOA Listed

SB360 Surface Bolt

- Surface Bolt has 1-1/4" throw for maximum security.
- Jimmy-resistant design, bolt locks automatically when thrown, can be released only by pressing knob toward door while retracting.
- Ideal for all types of doors.
- Available in 12" length
- Unit locks in both the up and down position.
- Accepts padlock (not furnished) with maximum 3/8" diameter shackle, minimum 1-3/4" shackle opening height.
- Units packed with one-way screws for added security. Standard screws also supplied.
- Units packed with both a universal top strike (US) and a mortise bottom strike (MS).
- Constructed of heavy duty steel.
- Optional Sex Bolts available.
- Optional Mortise Strike available.

Dimensions

Bar: 3/4" Wide x 3/4" Thick

Overall Width: 2-1/32"

Overall Projection: 2-1/16"

Top Strike: 1-1/2" Wide x 1-1/2" Long x 3/16" Thick

Optional Mortise Strike: 1-5/8" Wide x 3-1/2" Long x 1/8" Thick

Finishes

Ives Number	US2C
BHMA	603

SB453 Surface Bolt

- Surface Bolt has 1-3/16" throw for maximum security.
- Strong tension springs prevent creep.
- Ideal for all types of doors.
- Available 8" & 12" lengths.
- Units packed with standard screws for added security.
- Units packed with both a universal top strike (US) and a mortise bottom strike (MS).
- Constructed of heavy duty steel.
- Optional Sex Bolts available.
- Optional Thru Bolts available.

Dimensions

Bar: 3/4" Wide x 1/4" Thick

Overall Width: 2-1/32"

Overall Projection: 1-5/16"

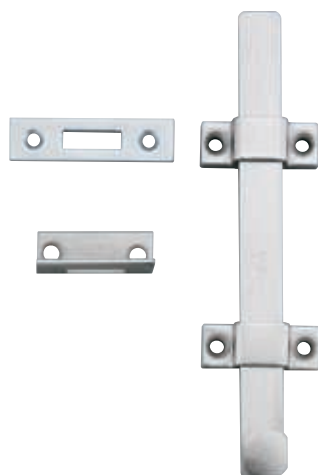
Top Strike: 1-1/2" Wide x 1-1/2" Long x 3/16" Thick

Bottom Strike: 1-5/8" Wide x 3-1/2" Long x 1/8" Thick

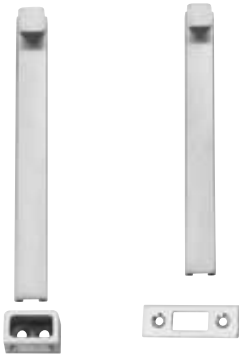
Finishes

Ives Number	US2C	US3	US4*	US10	US10B	US26D
BHMA	603	632	633	639	640	652

* only available in 8" bolt length.

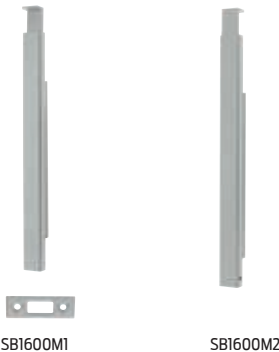


Meets ANSI/BHMA A156.16 L84161
UL listed 3 hour fire door, up to 10'0"



1630 meets ANSI/BHMA A156.16, L84161 and UL listed 3 hour fire doors up to 8'0" in height.

1640 meets ANSI/BHMA A156.16, L24161.



SB1600M1

SB1600M2

UL listed 3 hour fire doors up to 8'0" in height.

SB1600 Surface Bolt

- Standard Surface Bolt has 1" throw for maximum security.
- Ideal for all types of doors.
- Fully concealed mounting prevents vandalism.
- Available in locking version. Unit locks in both the up and down position. Locking Bolts are furnished with 2 keys in 4 keying variations.
- Units packed with wood and machine screws to meet most field conditions.
- Units available with either a universal top strike (T) or a flat bottom strike (B).
- 1630 Series is constructed of heavy duty steel.
- 1640 Series is constructed of brass.
- Optional sex bolts available

Dimensions

Body: 8" Long x 7/8" Wide x 3/4" Thick,

Overall Knob or Lock Housing Projection: 1-1/2"

Top Strike: 1-1/4" Wide x 7/8" Tall x 15/16" Deep

Bottom Strike: 3" Long x 1" Wide x 1/8" Thick

SB1630 Finishes *steel*

Ives Number	US2G	US10B	US26D
BHMA	604	640	652

SB1640 Finishes *brass*

Ives Number	US3	US10B	US26D
BHMA	605	613	626

SB1600M1 SB1600M2 Surface Bolt

- Standard Surface Bolt has 3-1/2" throw for maximum security and for doors with larger undercuts.
- Sleek handle design.
- Ideal for all types of doors.
- Fully concealed mounting prevents vandalism.
- Available in locking version. Unit locks in both the up and down position. Locking bolts are furnished with 2 keys in 4 keying variations.
- Units packed with wood and machine screws to meet most field conditions.
- Units available with either a universal top strike (T) or a flat bottom strike (B).
- Constructed of heavy duty steel.
- Optional sex bolts available

Dimensions

Bar: 11" Long x 3/4" Wide x 3/4" Thick, locking version 1-1/2" Thick

Top Strike: 1-1/4" Wide x 7/8" Tall x 15/16" Deep

Bottom Strike: 3" Long x 1" Wide x 1/8" Thick

Finishes

Ives Number	SP4	SP10	SP28	SP313	SPBLK
BHMA	706	691	689	695	622

A
Hinges & Pivots

B
Pulls & Plates

C
Flush Bolts & Coordinators

D3
Latches, Catches & Bolts

E
Stops

F
Exterior Hardware

G
Miscellaneous Hardware



Meets ANSI/BHMA A156.16

40 Decorative Surface Bolt

- Concealed screw design enhances appearance and security.
- Exceptional strength and durability provided by interlocking construction of heavy gauge track and rod.
- Permanent stop prevents rod disengagement from track.
- Tension spring holds bolt in desired position.
- Track assures smooth operation and interlocks with side edges of rod to eliminate marring.
- Decorative 5/8" diameter knob designed to facilitate bolt operation.
- Made from extruded brass or aluminum.
- Available in 3", 4" and 6" lengths.
- Packed with both Universal and Mortise Strikes.

Dimensions

Throw: 15/16"
Projection: 3/4"
Width: 11/16"
Length: 3", 4" or 6"

Finishes *brass*

Ives Number	B3	B5	B10B	B15	B26	B26D
BHMA	605	609	613	619	625	626

Finishes *aluminum*

Ives Number	A3*	A15*	PA28
BHMA	666	670	628

* only available 3" bolt Schlage Carded.



Meets ANSI/BHMA A156.16

253 **Decorative Surface Bolt**

- Heavy duty, decorative bolt ideal where extra strength required
- Decorative 1-1/4" diameter knob fits well with any décor and designed to facilitate bolt operation.
- Made from solid brass.
- Available in 8" and 12" lengths.
- Packed Universal Strike (US) & Mortise Strike (MS).

Dimensions

Throw: 1-1/8"
Projection: 1-5/16"
Half Round Rod: 5/8"
Overall Width: 1-5/8"
Length: 8" or 12"

Finishes

Ives Number	B3	B10B	B26D
BHMA	605	613	626

A
Hinges & Pivots

B
Pulls & Plates

C
Flush Bolts & Coordinators

D5
Latches, Catches & Bolts

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Stops

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Exterior Hardware

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Miscellaneous Hardware

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D6

Latches, Catches & Bolts

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Meets ANSI/BHMA A156.16.

054 Dutch Door Bolt

- Practical, rugged, attractive bolt for application on dutch doors as well as other areas.
- Chamfered rod end draws the two leaves of door tightly together.
- Sufficient tolerance provided in strike opening to allow for misalignment of door leaves and also prevents binding of bolt.
- Decorative 1" diameter knob designed to facilitate bolt operation.
- Made from solid brass.
- Packed with Standard Strike (SS), Mortise Strike (MS) and Universal Strike (US).

Dimensions

Throw: 5/8"

Projection: 1-1/8"

Half Round Rod: 5/8"

Overall Width: 1-5/8"

Rod Length: 4-1/4"

Overall Length: Specify 4-3/8" (Including Knob)

Finishes

Ives Number	B3	B4	B10	B10B	B15	B26	B26D
BHMA	605	606	612	613	619	625	626



Meets ANSI/BHMA A156.16.

S48 Mortise Door Bolt

- Brass oval turn knob and escutcheon.
- Steel bolt for extra strength.
- Rack is milled for precision fit with pinion.

Dimensions

Backset: 1-3/4"

Bolt Throw: 1/2"

Bolt Diameter: 1/2"

Case: 2-1/2" Long x 9/16" diameter

Strike: 1-3/4" High x 7/8" Wide

Finishes *brass*

Ives Number	B3	B5	B10B	B15	B26	B26D
BHMA	605	609	613	619	625	626



Meets ANSI/BHMA A156.16

481 Chain Door Guard

- Permits the door to be slightly opened to allow viewing.
- Narrow chain holder maintains chain in stationary position when door guard is not in use, eliminating marring of door and frame caused by dangling chain.
- Welded twist link steel chain finished to match door plate and chain holder.
- Made from wrought brass or burnished wrought steel.
- Packed with sheet metal screws.

Dimensions

Door Plate: 3-3/8" Long x 1-7/16" Wide

Chain Holder: 1-10/16" High x 3/4" Wide

Chain Length: 4-3/4"

Finishes *brass*

Ives Number	B3	B26D
BHMA	605	626

Finishes *steel*

Ives Number	F3	F4	F5	F10	F15	F26	F26D	F716
BHMA	632	633	638	639	646	651	652	



Meets ANSI/BHMA A156.16

482 Solid Bar Door Guard

- For use on doors that are flush with frames.
- The solid bar, interlocking with the ball on the strike plate, permits the door to be slightly opened to allow viewing.
- The hinged bar allows the door guard to be positioned 180° away from the door when not in use.
- Edge guard only, furnished with cast brass door guards, minimizes the chance for marring the door or frame.
- Strike plate is designed to prevent the solid bar from marring the inside of the door when in use.
- Made from cast brass or cast aluminum.
- Packed with sheet metal screws.
- Shims available in US26D (626) only, 1/8" or 3/8". Only fits 482B.

482B Cast Brass Dimensions

Strike Plate: 2-5/8" High x 1-1/32" Wide

Holder: 1-3/4" High x 1-1/16" Wide

Arm Length: 4-3/4"

Edge Guard: 1-1/8" High x 1-1/32" Wide

Finishes *brass*

Ives Number	B3	B4	B10	B10B	B15	B26	B26D
BHMA	605	606	612	613	619	625	626

Finishes *aluminum*

Ives Number	A3	A5	A26	A26D
BHMA	666		672	702

482A Cast Aluminum Dimensions

Strike Plate: 2-1/2" High x 7/8" Wide

Holder: 2-1/2" High x 15/16" Wide

Arm Length: 3-13/16"

A

Hinges & Pivots

B

Pulls & Plates

C

Flush Bolts & Coordinators

D8

Latches, Catches & Bolts

E

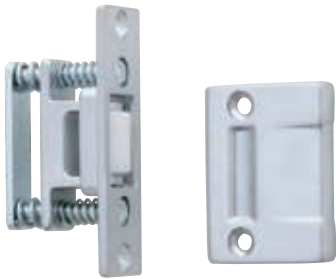
Stops

F

Exterior Hardware

G

Miscellaneous Hardware



Meets ANSI/BHMA A156.16, E19091

RL30 Roller Latch

- Actuation is simple, closing of the door causes the roller to fall in the depression of the strike, thereby holding the door closed.
- The projection of the roller is easily adjusted using adjusting screws on the face of the unit.
- Maximum projection of the roller is 3/8" allowing for variance in the door clearance.
- Nylon Roller Standard.
- Forged Brass Construction.
- Optional Strike—A—ASA.
- Optional— F — Brass Roller, must be ordered separately.

Dimensions

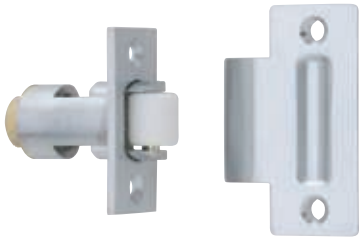
Body: 1" Wide x 3-3/8" High x 1-11/16" Deep

Strike: 1-11/16" Wide x 2-1/4" High x 5/32" Thick, Lip to Center- 1-5/16"

Optional ASA Strike: 1-1/4" Wide x 4-7/8" High x 3/32" Thick, Lip to Center- 1-1/4"

Finishes *brass*

Ives Number	US3	US4	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626



Meets ANSI/BHMA A156.16, E19091

RL32 Roller Latch

- Actuation is simple, closing of the door causes the roller to fall in the depression of the strike, thereby holding the door closed.
- The projection of the roller is easily adjusted by turning knurled knob on back of latch.
- Maximum projection of the roller is 1/2" allowing for variance in the door clearance.
- Fits heavy-duty cylindrical lock cutout.
- Nylon Roller Standard.
- Non-handed.
- Brass Construction.
- Optional Strike—A—ASA.

Dimensions

Body: 1-1/8" Wide x 2-1/4" High x 2-1/4" Deep

Strike: 1-1/8" Wide x 2-3/4" High x 3/32" Thick, Lip to Center- 1-1/4"

Optional ASA Strike: 1-1/4" Wide x 4-7/8" High x 3/32" Thick, Lip to Center- 1-1/4"

Finishes *brass*

Ives Number	US3	US4	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626



Meets ANSI/BHMA A156.16, L57082

RL36 Roller Latch

- Actuation is simple, closing of the door causes the roller to fall in the depression of the strike, thereby holding the door closed.
- The projection of the roller is easily adjusted by turning slotted screw on back of latch.
- Maximum projection of the roller is 5/16" allowing for variance in the door clearance.
- Fits cylindrical lock cutout.
- Nylon Roller.
- Non-handed.
- Stainless Steel Construction.
- Optional Strike—A—ASA.

Dimensions

Body: 1" Wide x 2-1/4" High x 2" Deep

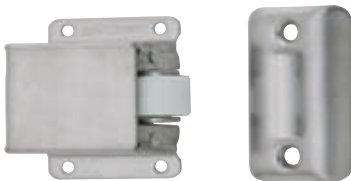
Strike: 1-1/8" Wide x 2-3/4" High x 3/32" Thick, Lip to Center- 1-1/4"

Optional ASA Strike: 1-1/4" Wide x 4-7/8" High x 3/32" Thick, Lip to Center- 1-1/4"

Finishes *Stainless Steel*

Ives Number US32D

BHMA 630



Meets ANSI/BHMA A156.16, L27092

RL38 Roller Latch

- Actuation is simple, closing of the door causes the roller to fall in the depression of the strike, thereby holding the door closed.
- The projection of the roller is easily adjusted by turning slotted screw.
- Maximum projection of the roller is 3/8" allowing for variance in the door clearance.
- Nylon Roller.
- Non-handed.
- Stainless Steel Construction.

Dimensions

Body: 1-3/8" Wide x 2" High x 7/8" Deep

Strike: 1" Wide x 2-1/8" High x 3/8" Deep

Finishes *Stainless Steel*

Ives Number US32D

BHMA 630

Hinges & Pivots
A

Pulls & Plates
B

Flush Bolts & Coordinators
C

Latches, Catches & Bolts
D9

Stops
E

Exterior Hardware
F

Miscellaneous Hardware
G

A

Hinges & Pivots

B

Pulls & Plates

C

Flush Bolts & Coordinators

D10

Latches, Catches & Bolts

E

Stops

F

Exterior Hardware

G

Miscellaneous Hardware



Meets ANSI/BHMA A156.16, E19111

RL1152

Roller Latch

- Combination of RL30 Roller Latch and Angle Stop.
- Actuation is simple, closing of the door causes the roller to fall in the depression of the strike, thereby holding the door closed.
- The projection of the roller is easily adjustable using adjusting screws on the face of the unit.
- Maximum projection of the roller is 3/8" allowing for variance in the door clearance.
- Nylon Roller Standard.
- Forged Brass Construction.
- Optional— F — Brass Roller, must be ordered separately.

Dimensions

Body: 1-1/2" Wide x 4-1/2" High x 1-3/4" Deep with 3/4" Angle

Strike: 1-1/8" Wide x 2-1/4" High x 5/32" Thick

Finishes

Ives Number	US3	US4	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626

Optional Strike

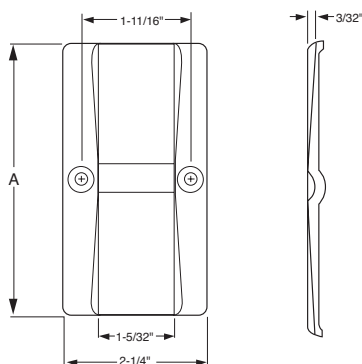
STK685

Strike

- Custom make strike for doors that swing both directions. For use with roller latches.
- Constructed of 3/32" brass.
- Dimple of strike centered on strike.
- Specify frame depth - A. Overall strike length will be A + 3/8" to accommodate 3/16" lip on each side

Finishes

Ives Number	US3	US4	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626



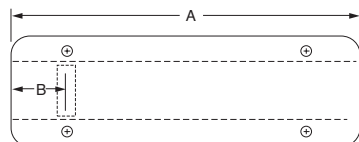
STK685L

Strike

- Custom make strike for doors that swing both directions. For use with roller latches.
- Constructed of 3/32" brass.
- Location of strike dimple is variable. Please specify frame depth - A and location of dimple from edge of frame - B. Dimple will be located B + 3/16" to accommodate lip.
- Specify frame depth - A. Overall strike length will be A + 3/8" to accommodate 3/16" lip on each side

Finishes

Ives Number	US3	US4	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626



**AS895 Angle Stop**

- Surface applied stop for single doors.
- Large rubber bumper to ensure quiet operation.
- Constructed of 1/8" Brass Angle.

Dimensions

1-1/2" Wide x 1" Angle x 2-1/2" Long

Finishes

Ives Number	US3	US4	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626

**AS18 Angle Stop**

- Surface applied stop for single and double doors.
- Includes SR64 door silencers to ensure quiet operation. SR64 silencers are replaceable.
- Constructed of 3/16" Brass Angle.

Dimensions

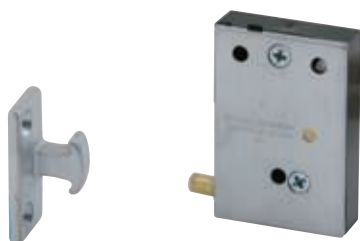
1-1/2" Wide x 3/4" Angle x 3-1/2" Long

Finishes

Ives Number	US3	US4	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626

A

Hinges & Pivots



Meets ANSI/BHMA 156.9, B03272

CL11 Invisible Latch

- Invisible latch is ideal for installations where no visible latch is desired.
- Unit can be installed at the top, bottom or side of the door.
- Can be mortised into the stop or surface mounted to the stop.
- Recommended for use on small panels, cabinet doors or light weight closet doors.
- Operation is simple, latching is accomplished by a slight push. To unlatch the door, a harder push releases the door and pushes the door out.
- Brass and plastic construction.
- Applies 13 pounds to open the door.

Dimensions

Body: 1-1/4" Wide x 1-7/8" High x 7/16" Thick

Strike: 9/16" Wide x 1-5/16" High x 9/16" High

Finishes

Ives Number	US3	US4	US10	US26D
BHMA	605	606	612	626

B

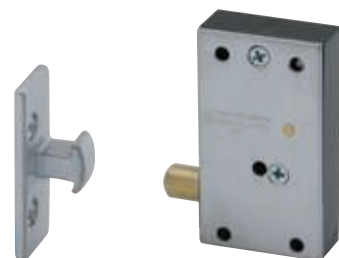
Pulls & Plates

C

Flush Bolts & Coordinators

D12

Latches, Catches & Bolts



Meets ANSI/BHMA A156.9, B03272

CL12 Invisible Latch

- Invisible latch is ideal for installations where no visible latch is desired.
- Unit can be installed at the top, bottom or side of the door.
- Can be mortised into the stop or surface mounted to the stop.
- Recommended for use on larger panels or regular size doors.
- Operation is simple, latching is accomplished by a slight push. To unlatch the door, a harder push releases the door and pushes the door out.
- Brass and plastic construction.
- Applies 27 pounds to open the door.

Dimensions

Body: 1-1/4" Wide x 2-1/4" High x 9/16" Thick

Strike: 5/8" Wide x 1-13/16" High x 9/16" Projection

Finishes

Ives Number	US3	US4	US10	US26D
BHMA	605	606	612	626

E

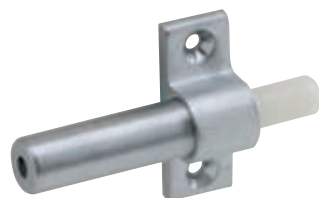
Stops

F

Exterior Hardware

G

Miscellaneous Hardware



Meets ANSI/BHMA A156.9, B13282

CL14 Auxiliary Pusher

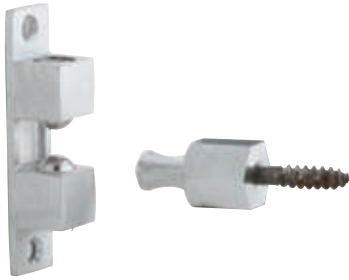
- Aid in the operation of the CL11 and CL12 where hinges or surrounding conditions prevent smooth operation of doors.
- Provides 1-1/16" throw.
- Nylon pusher.
- Brass construction.
- Applies 10 pounds to open the door.

Dimensions

Body: 2-15/16" Long x 1-11/16" Wide x 5/8" Deep

Finishes

Ives Number	US3	US4	US10	US26D
BHMA	605	606	612	626



Meets ANSI/BHMA A156.9

CL21 Ball Catch

- Four-way catch with hexagon stud.
- Ideal for holding medium duty doors.
- The strike slides between two stainless steel balls that are under spring tension. As the strike engages, the door is held tightly shut.
- Strike can enter body from any direction.
- Spring tension is easily adjusted to suit field conditions.
- Body can be surface applied or mortised.
- Brass construction.

Dimensions

Body: 3/4" Wide x 3" High x 3/4" Deep

Strike: 3/4" Wide Hex x 1-1/2" High

Finishes *brass*

Ives Number US26D

BHMA 626



Meets ANSI/BHMA A156.9, B13292

CL21A Ball Catch

- Four-way catch with plate type strike.
- Ideal for closet doors, access doors, hinged openings and numerous other applications.
- The strike slides between two stainless steel balls that are under spring tension. As the strike engages, the door is held tightly shut.
- Strike can enter body from any direction.
- Spring tension is easily adjusted to suit field conditions.
- Body can be surface applied or mortised.
- Brass construction.

Dimensions

Body: 3/4" Wide x 3" High x 3/4" Deep

Strike: 7/16" Wide x 1-3/4" High x 7/8" Deep

Finishes *brass*

Ives Number US3 US4 US10 US26 US26D

BHMA 605 606 612 625 626



Meets ANSI/BHMA 156.9, B13302.

CL22 Ball Catch

- Three-way catch with plate type strike.
- Ideal for smaller cabinet doors or panels.
- The strike slides between two stainless steel balls that are under spring tension. As the strike engages, the door is held tightly shut.
- Strike can enter body from either side or front.
- Spring tension is easily adjusted to suit field conditions.
- Body can be surface applied or mortised.
- Brass construction.

Dimensions

Body: 1/2" Wide x 2-3/16" High x 1/2" Deep

Strike: 3/8" Wide x 1-3/8" High x 5/8" Deep

Finishes *brass*

Ives Number US3 US4 US10 US26 US26D

BHMA 605 606 612 625 626

A

Hinges & Pivots



Meets ANSI/BHMA A156.9 B43171.

325

Magnetic Catch

- Double pole.
- Self aligning magnet insures maximum pull.
- Case design allows easy magnet adjustment on cabinet or small door applications.
- Aluminum case.
- Packed with sheet metal screws.
- 5 lbs. Load Capacity

Dimensions

Case: 1-1/8" wide x 2-1/16" Long x 5/8" Thick

Finishes *aluminum*

Ives Number	A3	A92
BHMA	666	673

B

Pulls & Plates

C

Flush Bolts & Coordinators



Meets ANSI/BHMA A156.9 B43161.

326

Mighty-Mite® Heavy Duty Magnetic Catch

- Dual double pole.
- Self-aligning magnets insure maximum pull.
- Can be surface mounted or mortised.
- Aluminum case.
- Packed with sheet metal screws, 2 short strikes and 1 long strike.
- 9 lbs. Load Capacity

Dimensions

Case: 1" Wide x 3-1/8" Long x 9/16" Thick

Finishes *aluminum*

Ives Number	A3	A92
BHMA	666	673

D14

Latches, Catches & Bolts

E

Stops



Meets ANSI/BHMA A156.9 B43161.

327

Super-Mite® Heavy Duty Magnetic Catch

- Dual triple pole.
- Self-aligning magnets insure maximum pull.
- Can be surface mounted or mortised.
- Aluminum case.
- Packed with sheet metal screws, 2 short strikes and 1 long strike.
- 14 lbs. Load Capacity

Dimensions

Case: 1" Wide x 3-1/8" Long x 3/4" Thick

Finishes *aluminum*

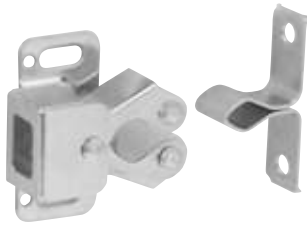
Ives Number	A3	A92
BHMA	666	673

F

Exterior Hardware

G

Miscellaneous Hardware



Meets ANSI/BHMA A156.9 B83071.

330 Roller Catch

- Independent rollers allow positive action and self-alignment.
- Cushioned rollers absorb shock and noise, hold door away from cabinet.
- Application allows for easy adjustment.
- Made from wrought steel.
- Packed with screws and brads.

Dimensions

Case: 1-1/4" High x 11/16" Wide

Strike: 1-1/4" High x 3/8" Wide

Finishes

Ives Number	F2C
BHMA	603



Meets ANSI/BHMA A156.16 L27081 for brass and L87081 for steel.

335 Roller Catch

- Smooth, positive latching action insured by powerful conical spring.
- Durable nylon roller insures quiet operation.
- Adjustable tension. Adjustments can be varied from 4 to 17 lbs. of holding power making possible a wide range of door performance.
- Easily installed on thin doors.
- Full lip style strike designed for simplified mortising.
- Made from wrought brass or wrought steel.
- Packed with sheet metal screws.

Dimensions

Face Plate: 7/8" Wide x 2-1/4" High

Bore: 1-3/4" Deep x 13/16" Diameter

Strike: 1-5/8" Wide x 2-1/4" High, Lip to center- 1-3/16"

Finishes

Ives Number	B3	B5	B10	B10B	B15	B26	B26D
BHMA	605	609	612	613	619	625	626

336 Roller Catch

- Smooth, positive latching action insured by powerful conical spring.
- Durable nylon roller insures quiet operation.
- Adjustable tension. Adjustments can be varied from 4 to 17 lbs. of holding power making possible a wide range of door performance.
- Easily installed on thin doors.
- Standard box type strike designed for neat appearance.
- Made from wrought brass or wrought steel.
- Packed with sheet metal screws.

Dimensions

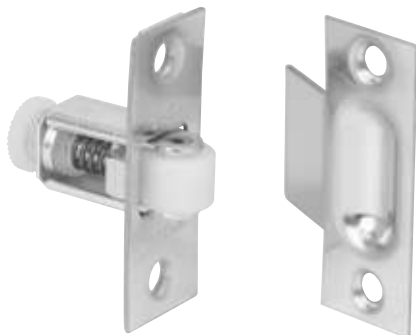
Face Plate: 7/8" Wide x 2-1/4" High

Bore: 13/16" Diameter x 1-3/4" Deep

Strike: 7/8" Wide x 2-1/4" High, Lip to center- 1-1/8"

Finishes

Ives Number	B3	B4	B5	B10	B10B	B15	B26	B26D
BHMA	605	606	609	612	613	619	625	626



Meets ANSI/BHMA A156.16 L27081 for brass and L87801 for steel.

A
Hinges & Pivots

B
Pulls & Plates

C
Flush Bolts & Coordinators

D15
Latches, Catches & Bolts

E
Stops

F
Exterior Hardware

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Miscellaneous Hardware

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B

Pulls & Plates

C

Flush Bolts & Coordinators

D16

Latches, Catches & Bolts

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Exterior Hardware

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Miscellaneous Hardware



Meets ANSI/BHMA A156.9 B23013.

345

Adjustable Ball Catch

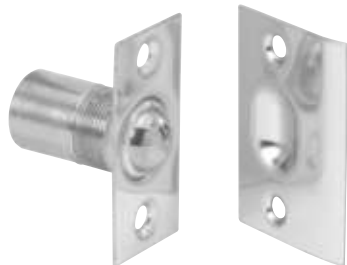
- Ideal for cabinets and small interior doors.
- Free rolling ball insures smooth, positive and trouble-free action.
- Adjustable threaded barrel compensates for various door clearances.
- Adjustable spring tension.
- Made from wrought brass.

Dimensions

Face Plate: 3/4" Wide x 1-1/2" High
Bore: 1" Deep x 9/16" Diameter
Strike: 25/32" Wide x 1-1/2" High, Lip to center- 13/32"

Finishes *brass*

Ives Number	B3	B5	B10	B10B	B15	B26	B26D
BHMA	605	609	612	613	619	625	626



Meets ANSI/BHMA A156.9 B23013.

347

Dual Adjustable Ball Catch

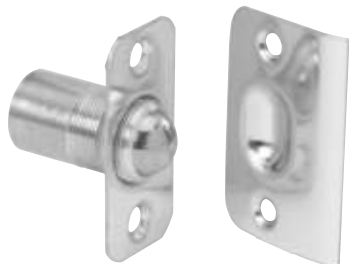
- For catch in door installations.
- Dual adjustment for door clearance and holding strength.
- Lip strike is designed for use where strike is mounted in jamb.
- Free rolling ball insures smooth, positive and trouble-free action.
- Adjustable threaded barrel compensates for various door clearances.
- Adjustable spring tension.
- Made from wrought brass.

Dimensions

Face Plate: 1" Wide x 2-1/8" High
Bore: 7/8" Diameter x 1-3/8" Deep
Strike: 1-3/8" Wide x 2-1/8" High, Lip to center- 7/8"

Finishes *brass*

Ives Number	B3	B4	B5	B10	B10B	B15	B26	B26D
BHMA	605	606	609	612	613	619	625	626



Meets ANSI/BHMA A156.9 B23013.

349

Ball Catch

- For catch in door installations.
- Radiused corners allow easy installation with a router.
- Dual adjustment for door clearance and holding strength.
- Lip strike is designed for use where strike is mounted in jamb.
- Free rolling ball insures smooth, positive and trouble-free action.
- Adjustable threaded barrel compensates for various door clearances.
- Adjustable spring tension.
- Made from wrought brass.

Dimensions

Face Plate: 1" Wide x 2-1/8" High
Bore: 7/8" Diameter x 1-3/8" Deep
Strike: 1-3/8" Wide x 2-1/8" High, Lip to center- 7/8"

Finishes *brass*

Ives Number	B3	B4	B5	B10	B10B	B15	B26	B26D	B716
BHMA	605	606	609	612	613	619	625	626	

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Meets ANSI/BHMA 156.6, L12141.

FS13 Dome Stop

- Standard FS13 for use where no threshold is used.
- Heavy-Duty Cast Dome Stops constructed of brass.
- Unique riser design of R14 (below) allows easy conversion to threshold application.
- Units are packed with fasteners sufficient for mounting in all types of floor construction, including concrete.
- Replaceable grey rubber bumper.

Dimensions

Overall Height: 1"

Base Height: 5/32"

Base Diameter: 1-3/4"

Finishes

Ives Number	US3	US4	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626

R14 Dome Stop Rise

- Adapts the FS13 Dome Stop to threshold use.
- Brass Die Cast Construction.

Dimensions

Riser Height: 5/16"

Base Diameter: 1-3/4" round

Finishes

Ives Number	US3	US4	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626



Meets ANSI/BHMA 156.6, L12161.

FS17 Dome Stop

- One piece dome stop for use with thresholds.
- Heavy-Duty Cast Dome Stops constructed of brass.
- Units are packed with fasteners sufficient for mounting in all types of floor construction, including concrete.
- Replaceable grey rubber bumper.

Dimensions

Overall Height: 1-11/32"

Base Height: 1/2"

Base Diameter: 1-3/4" round

Finishes

Ives Number	US3	US4	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626



FS436
Meets ANSI/BHMA 156.16, L12141 for brass
or bronze and L32141 for aluminum.



FS438
Meets ANSI/BHMA 156.16, L12141 for brass
or bronze and L32141 for aluminum.

FS436 Dome Stop

FS438 Dome Stop

- FS436 for doors without threshold.
- FS438 for doors with threshold or undercut doors.
- Heavy-Duty Cast Dome Stops constructed of brass, bronze or aluminum.
- Packed with wood screw and plastic anchor.

Replaceable gray, non-marring rubber bumper.

Dimensions

FS436

Overall Height: 1"

Base Height: 3/16"

Base Diameter: 1-3/4" x 2" Oval

FS438

Overall Height: 1-3/8"

Base Height: 9/16"

Base Diameter: 1-3/4" x 2" Oval

Finishes *brass*

Ives Number	US3	US4	US5	US10	US10B	US15	US26	US26D	B716
BHMA	605	606	609	612	613	619	625	626	

Finishes *aluminum*

Ives Number	US28
BHMA	628



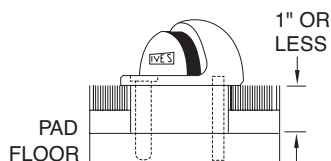
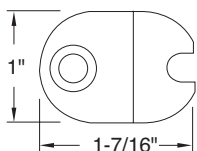
R435 Riser for FS436 Dome Stop

R437 Riser for FS438 Dome Stop

- Extruded aluminum, mill finish.
- R435 for conversion of FS436 Dome Stop to carpet installation.
- R437 For conversion of FS438 Dome Stop to carpet installation.
- Packed with wood screws, lead shield and stud.
- Specify Tampin (TPN) if required.

Dimensions

Available in 1/4", 3/8", 1/2", 5/8", 3/4" and 1" height.



A
Hinges & Pivots

B
Pulls & Plates

C
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E3
Stops

F
Exterior Hardware

G
Miscellaneous Hardware

A

Hinges & Pivots

B

Pulls & Plates

C

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

E4

Stops

F

Exterior Hardware

G

Miscellaneous Hardware



FS439 Universal Dome Floor Stop

- High or Low-Rise Mount
- Zinc or Stainless Steel
- Spring-loaded Rubber Contact
- Replaceable Rubber Bumper

Dimensions

Overall Height: 1-1/2"

Pad Height: 1-1/8"

Base Height: 1/4"

Base Diameter: 1-7/8"

Finishes

Ives Number	US3	US4	US10B	US26D	US32D
BHMA	677	678	704	682	630



FS410 Decorative Floor Stop

- Non-directional
- Cast Brass Construction
- Replaceable Rubber Bumper

Dimensions

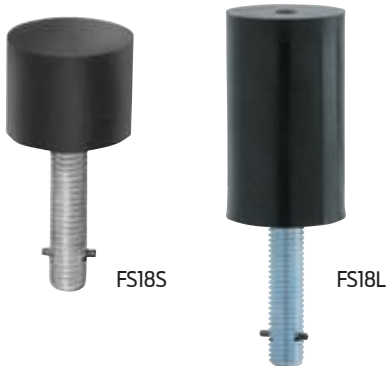
Overall Height: 1-1/2"

Bumper Thickness: 1/4"

Diameter: 1-1/4"

Finishes

Ives Number	US3	US26D
BHMA	605	626



FS18S FS18L Floor Stops

- Security Door Stops designed for use in high vandalism areas.
- Molded from black flame resistant, resilient material around a heavy-duty stud.
- Once grouted in concrete, leaves no exposed fasteners to be tampered with or removed.
- Ideal for jail or security cell areas where floor mounted stops are required.
- FS18L also ideal for concrete wall applications.

Dimensions

FS18S Height: 1-1/2"

FS18L Height: 3-1/2"

FS18S Diameter: 2"

FS18L Diameter: 2"

FS18S Stud Length: 2-1/2"

FS18L Stud Length: 2-1/2"

FS434 Floor Stop

- Burnished wrought steel.
- For undercut doors up to 1-1/2".
- Packed with screws and plastic anchors.
- Replaceable soft, resilient gray rubber.

Dimensions

Overall Height: 2-5/8"

Base Size: 1-1/2" W x 2-3/4" L

Finishes

Ives Number	USC
BHMA	604

430 Floor Door Stop

- Burnished wrought steel.
- For undercut doors up to 1-1/2".
- Packed with screws and plastic anchors.
- Replaceable soft, resilient gray rubber.

Dimensions

Overall Height: 1-5/16"

Base Diameter: 1-1/4"

Finishes *brass*

Ives Number	B3	B4	B5	B10B	B15	B26	B26D
BHMA	605	606	609	613	619	625	626

Finishes *aluminum*

Ives Number	A3*	A5	A14	A92
BHMA	666		669	673

* only available in Slim-Pak of 25

A
Hinges & Pivots

B
Pulls & Plates

C
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E5
Stops

F
Exterior Hardware

G
Miscellaneous Hardware



Meets ANSI/BHMA 156.16, L12131 for brass

FS441 Floor Stop

- Accommodates door undercut up to 1-1/2".
- Designed to blend well with all types of construction and provide a minimum of hindrance to cleaning efforts.
- Heavy-Duty cast brass or aluminum construction.
- Replaceable Non-marring rubber bumper.

FS441 packed with expansion shield and tampion for masonry type mounting, and wood screws for drywall mounting.

Dimensions

Overall Height: 2-1/8"

Overall Length: 2-7/8"

Base Depth: 1-5/8"

Finishes *brass*

Ives Number	US3	US4	US5	US10	US10B	US15	US26	US26D
BHMA	605	606	609	612	613	619	625	626



FS444
Meets ANSI/BHMA 156.16, L12131 for brass

FS448
Meets ANSI/BHMA 156.16,
L12121 for brass and L32121 for aluminum

FS444 Floor Stop FS448 Floor Stop

- Ideal for interior or exterior use.
- Cast brass construction.
- Accommodates door undercut up to 2-1/2".
- Replaceable Non-marring rubber tip.

FS444 is packed with expansion shield and lead shield, for masonry type mounting.
FS448 is packed with wood screws, for drywall mounting.

Dimensions

Overall Height: 3"

Base Diameter: 2-1/2"

Finishes *brass*

Ives Number	US3	US4	US5*	US10	US10B	US15	US26	US26D
BHMA	605	606	609	612	613	619	625	626

Finishes *aluminum*

Ives Number	US28*
BHMA	628

* not available on FS444

A
Hinges & Pivots

B
Pulls & Plates

C
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E6
Stops

F
Exterior Hardware

G
Miscellaneous Hardware



Meets ANSI/BHMA 156.16, L11241.

FS9 Floor Stop & Semi-Automatic Holder

- Semi-automatic floor-mounted holders accommodates with door to floor clearance of 1-1/2" or less.
- Cast from heavy-duty brass.
- Activate holder by flipping the engagement tongue forward. When door is opened, the hook (mounted on door) engages the tongue. To release, push firmly on door to disengage tongue.
- Universal screw pack accommodates all types of floor and door construction.

Dimensions

Overall Height: 3-1/2"

Base Dimensions: 2" wide x 3-1/2" long

Finishes

Ives Number	US3	US4	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626



Meets ANSI/BHMA 156.16, L11301

FS40 Floor Stop & Automatic Holder FS41 FS42 FS43

- Automatic door holders ideal for heavy-traffic situations that require a simple, fool-proof, Hold-Open device.
- Forged from brass.
- Unit is activated automatically when door is opened. A firm pull on door releases the mechanism.
- Strikes accommodate different door to floor clearances.
- Model numbers are determined by strike/door-to-floor clearances.
- Holder position on door is adjustable.
- Universal screw pack allows for installation in all types of door construction.

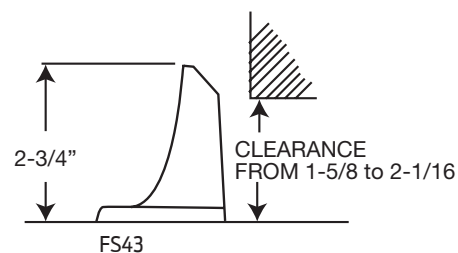
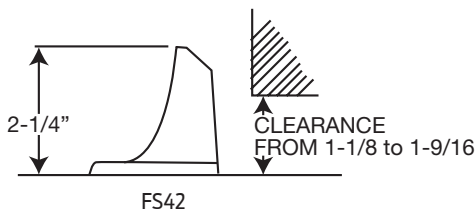
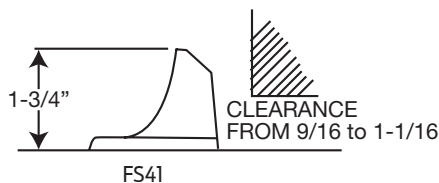
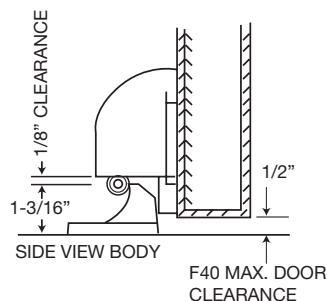
Dimensions

Door to Floor Clearance:	FS40	1/2" or less
	FS41	9/16" to 1-1/16"
	FS42	1-1/8" to 1-9/16"
	FS43	1-5/8" to 2-1/16"

Holder Dimensions: 3" Wide x 3-11/16" High

Finishes *brass*

Ives Number	US3	US4	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626



A

Hinges & Pivots



FS446
Meets ANSI/BHMA 156.16, L11371 for brass
and L31371 for aluminum.

FS450
Meets ANSI/BHMA 156.16, L11361 for brass
and L31371 for aluminum.

FS446 Floor Stop & Manual Door Holder

FS450 Floor Stop & Manual Door Holder

- Manual type floor holder ideal for interior or exterior use.
- Cast brass or aluminum construction.
- Accommodates door undercut up to 2-1/2".
- Replaceable non-marring rubber tip.
- Unit functions as a stop but serves as a Hold-Open device when hook is manually engaged in strike. Unit requires manual disengagement to release Hold-Open.

FS446 packed with expansion shield and lead shield, for masonry type mounting

FS450 packed with 3 wood screws, for drywall mounting.

B

Pulls & Plates

C

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

E8

Stops



FS495 shown

FS495 Meets ANSI/BHMA 156.16, L11291 for brass
FS496 Meets ANSI/BHMA 156.16, L11301 for brass
FS497 Meets ANSI/BHMA 156.16, L11301 for brass

Dimensions

Overall Height: 3-3/4"

Height from Floor to Stop Center Line: 2-5/8"

Stop Diameter: 1-1/16"

Base Diameter: 2-1/12"

Finishes *brass*

Ives Number	US3	US4	US10	US10B	US15	US26	US26D
BHMA	605	606	612	613	619	625	626

Finishes *aluminum*

Ives Number	US28
BHMA	628

F

Exterior Hardware

G

Miscellaneous Hardware

FS495 Wall Stop & Automatic Holder

FS496 Floor Stop & Automatic Holder

FS497 Floor Stop & Automatic Holder

- Automatic door holders ideal for heavy-traffic situations that require a simple, Hold-Open device.
- Cast brass construction.
- Recommended installation is holder on door and strike on wall.
- Holder position on door is adjustable.
- Holder is tapered to prevent "child riding."

Dimensions

FS495 Holds door 3-3/4" from wall.

FS496 Door to Floor Clearances 3/8" Maximum.

FS497 Door to Floor Clearances 1" Maximum.

Finishes *brass*

Ives Number	US3	US4*	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626

* not available on FS496, FS497.



WS11
Meets ANSI/BHMA 156.16, L12011

WS11X
Meets ANSI/BHMA 156.16, L12021

WS11 WS11X Wall Stops

- Constructed in heavy duty cast brass.
- Hexagon section on unit aids in fastening unit when expansion shield is used.
- Replaceable rubber bumpers features off-set shoulder and threaded shank that screws into body of unit.

WS11 is furnished with wood screws for drywall mounting.
WS11X is furnished with a threaded stud and expansion shield for masonry type mounting.

Dimensions

Base Diameter: 2"

Overall Projection: 3-3/4"

Finishes *brass*

Ives Number	US3	US4	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626



WS20
Meets ANSI/BHMA 156.16, L11341 for brass
and L32341 for aluminum

WS20X
Meets ANSI/BHMA 156.16, L11351 for brass
and L31351 for aluminum

WS20 WS20X Manual Wall Holders

- Constructed in cast brass or aluminum.
- Replaceable rubber bumpers feature off-set shoulder and threaded shank that screws into body of holder.
- Hinged strike furnished matches body material and finish.

WS20 is furnished wood screws for drywall mounting.
WS20X is furnished with threaded stud and expansion shield for masonry type mounting.

Dimensions

Base Diameter: 2-3/8"

Overall Projection: 4"

Strike Height: 2"

Strike Width: 1"

Finishes *brass*

Ives Number	US3	US4	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626

Finishes *aluminum*

Ives Number	US28
BHMA	628

A

Hinges & Pivots



WS33
Meets ANSI/BHMA 156.16, L12011

WS33X
Meets ANSI/BHMA 156.16, L12021

WS33 WS33X Wall Stops

- Constructed in a durable cast brass.
- Replaceable rubber bumper with offset shoulder screws into cavity on body to prevent loss or theft.
- Sloping design discourages vandalism

WS33 is furnished with wood screws for drywall mounting.
WS33X is furnished with a threaded stud and expansion shield for masonry type mounting.

Dimensions

Base Diameter: 2-1/4" wide x 3" High

Overall Projection: 3-3/4"

Finishes *brass*

US Number	US26D
BHMA	626

B

Pulls & Plates

C

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

E10
Stops



WS65 Wall Stop

- Burnished cast aluminum.
- Replaceable non-marring white rubber bumper.
- Packed with sheet metal screws.

Dimensions

Base Diameter: 1-5/8"

Overall Projection: 3-3/4"

Finishes *aluminum*

Ives Number	US3	US10	US10B	US27
BHMA	666	668	703	673

F

Exterior Hardware

G

Miscellaneous Hardware



WS401CCV & WS402CCV
Meets ANSI/BHMA 156.16 L12251 for brass

WS401CVX & WS402CVX
Meets ANSI/BHMA 156.16 L12101 for brass

WS401CVX Wall Bumpers WS401CCV WS402CVX WS402CCV

- Constructed in heavy-duty cast brass.
- Special retainer cup makes rubber tamper resistant.

WS401CVX (401) – convex rubber bumper, packed with wood screw and plastic anchor.

WS401CCV (401-1/2) – concave rubber bumper which avoids damage to locks with projecting buttons, packed with wood screw and plastic anchor.

WS402CVX (402) – convex rubber bumper packed with screw and drywall anchor.

WS402CCV (402-1/2) – concave rubber bumper which avoids damage to locks with projecting buttons and is packed with screw and drywall anchor.

Dimensions

Base Diameter: 2-1/2"

Base Thickness: 3/8"

Overall Projection: 1"

Finishes

Ives Number	US3	US4	US10	US10B	US15	US26	US26D
BHMA	605	606	612	613	619	625	626



WS404CVX Wall Bumpers

- Compact size.
- Constructed in cast brass.
- Totally concealed mounting discourages vandalism or tampering.
- Unit furnished with grey convex rubber bumper.
- Packed with sheet metal screw, rawl plug and brad.

Dimensions

Base Diameter: 1"

Overall Projection: 17/32"

Finishes

Ives Number	US3	US4	US5	US10	US10B	US15	US26	US26D
BHMA	605	606	609	612	613	619	625	626

A
Hinges & Pivots

B
Pulls & Plates

C
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E11
Stops

F
Exterior Hardware

G
Miscellaneous Hardware



WS406CVX Wall Bumpers WS406CCV WS407CVX WS407CCV

WS406CVX & WS407CVX
Meets ANSI/BHMA 156.16 L22201 for brass,
and L52101 for stainless steel.

WS406CCV & WS407CCV
Meets ANSI/BHMA 156.16 L22251 for brass
and L52251 for stainless steel.

- Constructed in sturdy yet economical wrought base of brass or stainless steel construction.
- Feature concealed tamper-proof mounting.
- Shipped factory preassembled backplate to reduce installation cost.
- Easy installation by inserting screwdriver through small hole in rubber.

WS406CVX (406) – convex rubber bumper, packed with wood screw and plastic anchor.

WS406CCV (406-1/2) – concave rubber bumper, which avoids damage to locks with projecting buttons, packed with wood screw and plastic anchor.

WS407CVX (407) – convex rubber bumper packed with screw and drywall anchor.

WS407CCV (407-1/2) – concave rubber bumper which avoids damage to locks with projecting buttons and is packed with screw and drywall anchor.

Dimensions

Base Diameter: 2-1/2"

Base Thickness: 3/8"

Overall Projection: 1"

Finishes *brass*

Ives Number	US3	US4	US5*	US10	US10B	US15	US15A**	US26	US26D	B716**
BHMA	605	606	609*	612	613	619	620	625	626	

Finishes *stainless steel*

Ives Number	US32D
BHMA	630

* only available on WS407CVX Slim-Pak of 15

** available on WS407CCV or WS407CVX Slim-Pak of 15



411R-W Wall Bumper

- Adhesive-backed wall door stop for use on clean, smooth, flat surfaces only.
- Non-marring white rubber.
- Concave design permits knob to strike stop without damaging or engaging lock mechanism.

Dimensions

Base Diameter: 1-7/8"

Base Thickness: 3/8"

Overall Projection: 1-1/16"

A
Hinges & Pivots

B
Pulls & Plates

C
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E13
Stops

F
Exterior Hardware

G
Miscellaneous Hardware

A

Hinges & Pivots

B

Pulls & Plates

C

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

E14

Stops

F

Exterior Hardware

G

Miscellaneous Hardware



WS443
Meets ANSI/BHMA 156.16, L12021 for brass
and L32021 for aluminum.

WS443

WS447 Wall Stop

- Constructed in brass.
- Ideal for interior or exterior use.
- Replaceable non-marring rubber tip.

WS443 is packed with expansion shield and lead shield for masonry type mounting.
WS447 is packed with wood screws for drywall mounting.

Dimensions

Base Diameter: 2-1/4"

Overall Projection: 3-11/16"

Finishes *brass*

Ives Number	US3	US4	US10	US10B	US15	US26	US26D
BHMA	605	606	612	613	619	625	626



WS445
Meets ANSI/BHMA 156.16, L11351 for brass.

WS449
Meets ANSI/BHMA 156.16, L11341 for brass
and L31341 for aluminum.

WS445

WS449 Manual Wall Holder

- Constructed in cast of brass or aluminum.
- Unit functions as a stop but serves as a Hold-Open device when hook is manually engaged in strike.
- Unit requires manual disengagement to release Hold-Open.
- Replaceable resilient, non-marring rubber tip.

WS445 is packed with expansion shield and lead shield for masonry type mounting.
WS449 is packed with wood screws for drywall mounting.

Dimensions

Base Diameter: 2-1/4"

Base Projection: 3-11/16"

Engaged Projection: 5-3/4"

Strike Height: 1-1/2"

Strike Width: 13/16"

Strike Projection: 13/16"

Finishes *brass*

Ives Number	US3	US4	US10	US10B	US15	US26	US26D
BHMA	605	606	612	613	619	625	626

Finishes *aluminum*

Ives Number	US28*
BHMA	628

* only available on WS449



Meets ANSI/BHMA 156.16, L11291 for brass and L31291 for aluminum.

WS40 Automatic Wall Holder

- Constructed of sturdy cast brass, or aluminum.
- Holder is mounted on wall and strike is mounted on door.
- Roller on holder rides up seats itself on strike, with a heavy duty bumper pad deadening the sound and shock.
- Universal screw pack accommodates all types wall construction.

Dimensions

Base Height: 2"	Strike Height: 2-1/16"
Base Width: 2-1/2"	Strike Width: 3/4"
Base Projection: 2-1/4"	Strike Projection: 2"
Engaged Projection: 3-1/2"	

Finishes *brass*

Ives Number	US3	US4	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626

Finishes *aluminum*

Ives Number	US28
BHMA	628



WS45
Meets ANSI/BHMA 156.16, L11291 for brass and L31291 for aluminum.

WS45 WS45X Automatic Wall Holder

- Constructed of cast brass, bronze or aluminum.
- Spring loaded roller rides up the face of the strike, seating itself on the strike, holding the door firmly in the open position.
- A heavy rubber pad cushions the shock and absorbs the sound.
- With unit mounted on door and the strike on wall, vertical adjustment is available on body.
- The strike is adjustable 45 degrees left or right, both adjustments easily accomplished at time of installation or at a later date.

WS45 strike is furnished with wood screws for drywall mounting.

WS45X strike is furnished with a threaded stud and expansion shield for masonry type mounting.

Dimensions

Base Height: 3-11/16"	Strike Diameter: 2-3/8"
Base Width: 3"	Strike Projection: 3"
Base Projection: 2"	
Engaged Projection: 3-7/16"	

Finishes *brass*

Ives Number	US3	US4	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626

Finishes *aluminum*

Ives Number	US28
BHMA	628

A

Hinges & Pivots

B

Pulls & Plates

C

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

E16

Stops

F

Exterior Hardware

G

Miscellaneous Hardware



Meets ANSI/BHMA 156.16, L11383 for brass and L31383 for aluminum.

FS452 Kick Down Holder

- Units provide simple hold and release, activated with a touch of the foot.
- Cast brass or aluminum construction.
- Stainless steel spring.
- Replaceable non-marring rubber shoes have corrugated bottoms to provide secure grip.
- Shoes are easily replaced when worn. Shoe held on with screw.
- Packed with sheet metal screws.

FS452-4 has a door-to-floor clearance of 2" or less.

FS452-5 has a door-to-floor clearance up to 3".

Dimensions

FS452-4 Door-to-Floor Clearance: 2" or less

FS452-5 Door-to-Floor Clearance: Up to 3"

FS452-4 Plate Height: 2-1/8"

FS452-5 Plate Height: 2-1/8"

FS452-4 Plate Width: 1"

FS452-5 Plate Width: 1"

Finishes *brass*

Ives Number	US3	US4	US10	US10B	US15	US26	US26D
BHMA	605	606	612	613	619	625	626

Finishes *aluminum*

Ives Number	US28*
BHMA	628

* available in 4" only



Meets ANSI/BHMA 156.16, L11382 for brass and L31382 for aluminum.

FS455 Kick Down Holder

- Units provide simple hold and release, activated with a touch of the foot.
- Cast brass or aluminum construction.
- Replaceable non-marring rubber shoes have corrugated bottoms to provide secure grip. When worn, shoes are easily replaced. Shoe held on with screws.
- Door-to-floor clearances of 2" or less.

Dimensions

Door-to-Floor Clearance: 2" or less

Plate Height: 1-3/4"

Plate Width: 1-3/4"

Finishes *brass*

Ives Number	US3	US4	US5	US10	US10B	US15	US26	US26D
BHMA	605	606	609	612	613	619	625	626

Finishes *aluminum*

Ives Number	US3AL	US5AL	US10AL	US27
BHMA	666	609	668	673



FS544
Meets ANSI/BHMA 156.16, L11381

FS555
Meets ANSI/BHMA 156.16, L11391

FS544
FS555 Kick Down Holder

- Units provide an economical method to hold open doors.
- Cast of durable iron.
- Non-marring rubber shoes have corrugated bottoms to provide secure grip. Rubber shoe is securely fastened with screw. When worn, shoes are easily replaced.

FS544 for door-to-floor clearances of 2" or less
FS555 for door-to-floor clearances up to 3".

Dimensions

FS544	FS555
Door-to-Floor Clearance: 2" or less	Door-to-Floor Clearance: Up to 3"
Plate Height: 2-1/4"	Plate Height: 2-1/4"
Plate Width: 1-7/16"	Plate Width: 1-7/16"

Finishes

Ives Number	SP4	SP10	SP28	SP313	SPBLK
BHMA	706	691	689	695	622

A
Hinges & Pivots

B
Pulls & Plates

C
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E17
Stops

F
Exterior Hardware

G
Miscellaneous Hardware

A

Hinges & Pivots

B

Pulls & Plates

C

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

E18
Stops

F

Exterior Hardware

G

Miscellaneous Hardware



Meets ANSI/BHMA 156.16, L31401.

FS1153 Plunger Type Door Holder

- Provides a contemporary yet economical method of positive Hold-Open.
- Constructed in sturdy cast aluminum.
- Spring operated plunger activates with minimal pressure, releasing instantly with a light tap on the plat-form lever.
- Provides a 1-5/8" throw for all types of doors.
- Ribbed non-marring rubber shoe is securely fastened to unit with a screw and is easily replaced when worn.

Dimensions

Height: 6-1/4"

Width: 1-1/2"

Depth: 1-7/16"

Finishes

Ives Number US28

BHMA 628



Meets ANSI/BHMA 156.16, L11401.

FS1154 Plunger Type Door Holder

- Constructed from heavy-duty cast brass or bronze.
- Plunger and internal parts are plated steel and provides a 1-1/4" throw for all types of doors.
- Plunger is easily activated with minimal pressure, releasing instantly with a light tap on the platform lever.
- Round non-marring rubber shoe is securely fastened with a screw in flanged cup to prevent movement or loss. When worn, shoes are easily replaced.

Dimensions

Height: 5-1/2"

Width: 2"

Depth: 1-1/4"

Finishes

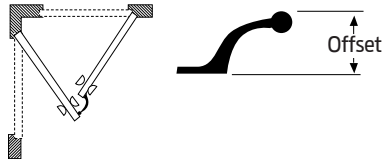
Ives Number US3 US4 US10 US10B US26 US26D

BHMA 605 606 612 613 625 626



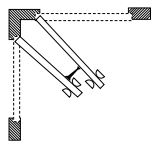
FS470

Meets ANSI/BHMA 156.16, L12212



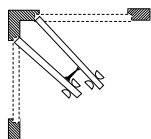
FS471

Meets ANSI/BHMA 156.16, L12192



FS472

Meets ANSI/BHMA 156.16, L12202



RB470

RB471

RB472 Roller Bumpers

- Constructed in heavy-duty cast brass.
- RB470 used where two doors open against each other to prevent damage to the doors or hardware.
- RB471 and RB472 are ideal for use in situations where doors meet each other at approximate right angles (back to back).
- Replaceable rubber roller available.

Dimensions

RB470 Base Size: 1-11/16" x 2-1/4"

RB470 Arm Offset: 2-3/4"

RB470 Length: 5"

RB471 Base Diameter: 2"

RB471 Length: 4-1/2"

RB472 Base Diameter: 2"

RB472 Length: 6"

Finishes

Ives Number	US3	US4**	US10*	US10B*	US15*	US26	US26D
BHMA	605	606**	612*	613*	619*	625	626

* only available on RB472

** only available on RB471 and RB472

A
Hinges & Pivots

B
Pulls & Plates

C
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E19
Stops

F
Exterior Hardware

G
Miscellaneous Hardware

A

Hinges & Pivots

B

Pulls & Plates

C

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

E20

Stops

F

Exterior Hardware

G

Miscellaneous Hardware



Meets ANSI/BHMA A156.16

060 Flexible Door Stops

- Utilizes heavy gauge spring to maintain rigid protections
- Simple to install - only a screwdriver required
- Made from burnished wrought steel
- Packed disassembled for quick installation

Replaceable white rubber tip available

Dimensions

Base Diameter: 1"

Tip Diameter: 19/16"

060 3" Projection

061 4" Projection

Finishes *steel*

Ives Finish	F3	F5	F10	F10B	F14	F15*	F26D	F-W**
BHMA	632	638	639	640	645	646	652	

* only available on 060

** only available on 061



60 Base Door Stops

- Available in three sizes to accommodate varying areas of installation and door trim dimensions
- Made from solid brass or aluminum
- 61 also available in epoxy colored aluminum

Replaceable white/black rubber tip available

Dimensions

60 3-3/4" Projection, Base Diameter: 1"

61 3-1/8" Projection on brass units, 3-3/16" Projection on aluminum units, Base Diameter: 7/8", Tip Diameter: 5/8"

Finishes *brass*

Ives Finish	B3	B4	B5	B10	B10B	B15	B15A*	B26	B26D	B716**
BHMA	605	606	609	612	613	619	620	625	626	

Finishes *aluminum*

Ives Finish	A3	A5*	A10*	A10B	A14	A15*	A19*	A92	A716*	A-BLK	A-W*
BHMA	666		668	703	669	670	A19	673			

Finishes *zinc*

Ives Finish	Z605*	Z619*	Z716*
BHMA			

* only available on 61

** only available on 61 Schlage Carded or slim package of 15

Note: 61A - 716 ships with black rubber tips



63 Flexible Door Stops

- Utilizes heavy gauge spring to maintain rigid protections
- Simple to install - only a screwdriver required
- Made from burnished wrought steel
- Packed disassembled for quick installation

Replaceable white rubber tip available

Dimensions

Base Diameter: 1"
Tip Diameter: 9/16"
Projection: 3"

Finishes *steel*

Ives Finish	F605E	F609E	F619E	F716	F-W
BHMA	632	638	646		



64 Base Door Stop

- Base Door Stop features deluxe one-piece styling
- Easily screws into base
- Designed with square head to accommodate wrench or pliers when installing
- Made from solid brass or aluminum

Replaceable white rubber tip available

Dimensions

Base Diameter: 1"
Tip Diameter: 9/16"
Projection: 3-1/4"

Finishes *brass*

Ives Finish	B3	B4	B5	B10	B10B	B15	B26	B26D
BHMA	605	606	609	612	613	619	625	626

Finishes *aluminum*

Ives Finish	A3	A10B	A92
BHMA	666	703	673

69 Hinge Pin Door Stops

- For use on hinged doors where the installation of a standard door stop is not desirable
- Positive slip proof adjustment
- Non-marring rubber tips
- Removable bushings accommodate 1/4" to 5/16" diameter hinge pins
- Easy installation—only a screwdriver required
- Made from burnished wrought steel

Replaceable white rubber tip available



Door Opening

70° to 100° Door Opening Adjustments

Finishes *steel*

Ives Finish	F3	F5	F10	F10B	F14	F15	F15A	F26	F26D
BHMA	632	638	639	640	645	646	647	651	652

Hinges & Pivots
A

Pulls & Plates
B

Flush Bolts & Coordinators
C

Latches, Catches & Bolts
D

Stops
E21

Exterior Hardware
F

Miscellaneous Hardware
G

A

Hinges & Pivots

B

Pulls & Plates

C

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

E22

Stops

F

Exterior Hardware

G

Miscellaneous Hardware

70

Hinge Pin Door Stops

- For use on hinged doors where the installation of a standard door stop is not desirable
- Designed for narrow trim installation
- High quality rubber bumpers - shoulder on stud supports rubber through entire body for engineered cushioning
- Removable bushings accommodate 1/4" to 5/16" diameter hinge pins
- Easy installation
- Made from solid brass, aluminum, or epoxy coated aluminum

Replaceable white/black rubber tip available

Door Opening

85° to 125° Door Opening Adjustments

Finishes brass

Ives Finish	B3	B4	B5	B10	B10B	B15	B15A*	B19	B26	B26D	B716*
BHMA	605	606	609	612	613	619	620	622	625	626	

Finishes aluminum

Ives Finish	A3	A4	A5	A10	A10B	A14	A15	A92	A716	A-W	A-BLK
BHMA	666	667		668	716	669	670	673			

Finishes zinc

Ives Finish	Z605E	Z406E**	Z619E**	Z716E
BHMA				

* only available in Schlage Carded or Slim-Pak of 25

** only available in Schlage Carded

Note: 70A - 716 ships with black rubber tips



72

Hinge Pin Door Stops

- For use on hinged doors where the installation of a standard door stop is not desirable
- Designed for narrow trim installation
- High quality rubber bumpers - shoulder on stud supports rubber through entire body for engineered cushioning
- Removable bushings accommodate 1/4" to 5/16" diameter hinge pins
- Easy installation
- Made from solid brass, aluminum, or epoxy coated aluminum

Door Opening

85° to 125° Door Opening Adjustments

Finishes zinc

Ives Finish	Z605E	Z609E	Z613E	Z619E	Z625E	Z-W
BHMA						

Door Saver



73

Hinge Pin Door Stops

- For use on hinged doors where the installation of a standard door stop is not desirable
- Designed for narrow trim installation
- High quality rubber bumpers - shoulder on stud supports rubber through entire body for engineered cushioning
- Removable bushings accommodate 1/4" to 5/16" diameter hinge pins
- Easy installation
- Made from solid brass, aluminum, or epoxy coated aluminum

Door Opening

85° to 125° Door Opening Adjustments

Finishes zinc

Ives Finish	Z605E	Z613E	Z619E	Z625E
BHMA				



Door Saver

Meets ANSI/BHMA 156.6, L12141 for brass or bronze and L32141 for aluminum.



Meets ANSI/BHMA 156.16, L03011.



Meets ANSI/BHMA 156.16, L03021



SR64 Door Silencer

- For use on metal frames featuring pneumatic design that, once installed, forms an air pocket to absorb shock and reduce noise of door closing.
- Tamper-proof once installed on the frame.
- Proper installation also eliminates door rattle and provides constant tension for door latches or locks.

Packed in bags of 100.

Grey Available in bulk pack of 2500.

Each bag has an installation tool included.

Dimensions

Diameter: 1/2"

Thickness: 1/8"

Finishes

GRY, TAN

SR65 Door Silencer

- For use on wood frames, also feature pneumatic design to cushion shock and absorb noise.
- To prevent removal, a small brad should be driven into stop strip and through stem of silencer, as shown in the detail.

Packed in bags of 100.

Dimensions

Height: 3/4"

Diameter: 3/8"

Thickness: 1/8"

Finishes

GRY

SR66 Door Silencer

- Self Adhesive Rubber Silencers.
- Economical installation requires no drilling of frames.

Packed two sheets of 50 (100 minimum).

Dimensions

Diameter: 1/2"

Thickness: 1/8"

Finishes

BRN, GRY, WHT

Hinges & Pivots
A

Pulls & Plates
B

Flush Bolts & Coordinators
C

Latches, Catches & Bolts
D

E23
Stops

Exterior Hardware
F

Miscellaneous Hardware
G

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B	Pulls & Plates
C	Flush Bolts & Coordinators
D	Latches, Catches & Bolts
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B
Pulls & Plates

C
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E
Stops

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Exterior Hardware

G
Miscellaneous Hardware



LG1 Lock Guard

- Units are non-handed and incorporate security frame pin to prevent separation of the door and frame. LG7 does not incorporate the security frame pin
- Unit covers the latch bolt area of the door and lock, thereby providing added protection from burglars, vandals or normal abuse.
- Ideal for use with mortise or cylindrical locks.
- Easy installation.
- Through bolted with carriage bolts and nuts.
- Available in a variety of materials, 13 gauge stainless steel, 12 gauge steel and brass material.

Dimensions

3" Wide x 11-1/2" High

Bolt center to center: 10-1/2"

Finishes

Ives Number	USP*	US2G*	US4*	US10*	US32D	SP313*
BHMA	600	603	606	612	630	695

* not available on LP7



LG10 Lock Guard

- Ideally suited for use with rose or escutcheon 2-3/4" wide or less.
- For use with Type 86 Mortise and Type 161 Cylindrical Locks (ANSI 156.13 Series 1000 and ANSI 156.2 Series 4000).
- No exposed fasteners on face of unit.
- Unique design provides maximum security, virtually eliminating the opening between door and frame at the latch point.
- Available in 13 Gauge Stainless Steel or 12 Gauge Steel.

Dimensions

2-1/2" Wide x 9-1/2" High

Stud center to center: 8-1/2"

Finishes

Ives Number	USP	US32D
BHMA	600	630



LG11 Lock Guard

- Designed for use on aluminum doors with latch-type locks or doors equipped with electric strikes.
- Unit is Handed - Specify left or right hand when ordering.
- No exposed fasteners on face of unit.
- Unique design provides maximum security, virtually eliminating the opening between door and frame at latch point.
- Available in 13 Gauge Stainless Steel or 12 Gauge Steel.

Dimensions

2-1/2" Wide x 9-1/2" High
Stud center to center: 8-1/2"

Finishes

Ives Number	US32D	SP313
BHMA	630	695



LG12 Lock Guard

- Narrow design unit for use on rose or escutcheon 3-1/2" or less.
- For use with Type 86 Mortise and Type 161 Cylinder Locks (ANSI 156.13 Series 1000 and ANSI 156.2 Series 4000).
- No exposed fasteners on face of unit.
- Unique design provides maximum security, virtually eliminating the opening between door and frame at the latch point.
- Available in 13 Gauge Stainless Steel or 12 Gauge Steel

Dimensions

1-1/2" Wide x 9-1/2" High
Stud center to center: 8-1/2"

Finishes

Ives Number	USP	US32D
BHMA	600	630

A
Hinges & Pivots

B
Pulls & Plates

C
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E
Stops

F3
Exterior Hardware

G
Miscellaneous Hardware



LG13 Lock Guard

- Designed for use on all Type 161 Cylindrical Locks (ANSI 156.2 Series 2000) Monolock and Unilock.
- No exposed fasteners on face of unit.
- Unique design provides maximum security, virtually eliminating the opening between door and frame at latch point.
- Available in 13 Gauge Stainless Steel or 12 Gauge Steel.

Dimensions

1-1/2" Wide x 7" High

Stud center to center: 4-1/2"

Finishes

Ives Number	USP	US32D
BHMA	600	630



LG14 Lock Guard

- Narrow design unit for use on rose or escutcheon 3-1/2" or less.
- For use with Von Duprin 6210 and 6211 electric strike.
- No exposed fasteners on face of unit.
- Unique design provides maximum security.
- Available in 13 Gauge Stainless Steel

Dimensions

2-9/16" Wide x 9-1/2" High

Stud center to center: 8-1/2"

Finishes

Ives Number	US32D
BHMA	630



Meets ANSI/BHMA A156.16 L23222
UL Listed 90 minute fire doors

U696 One-Way Viewer

- 150° Angle of View.
- For doors 1-3/8" to 2-1/16" thick.
- Secure, tamper-resistant.
- Solid brass body; glass lens.
- Simple installation — only a 1/2" hole required.
- Suggested installation height: 60" from floor.
- Trim washer available, 3/4" x .032" thick.

Finishes

Ives Number	B4	B10B	B26D
BHMA	606	613	626



698 meets ANSI/BHMA A156.16 L23172
U698 meets ANSI/BHMA A156.16 L23222
U698 is UL Listed 90 minute fire doors

698 U698 One-Way Wide Angle Viewer

- 190° Angle of View.
- Lens projects 1/4" from face of door.
- 4 optical glass lenses.
- For doors 1-3/8" to 2-1/8" thick.
- Solid brass body and barrel.
- Simple installation — only a 9/16" hole required.
- Suggested installation height: 60" from floor.

Finishes

Ives Number	B3	B15**	B26D	B716*
BHMA	605	619	626	

* not available on U698

** only available in Schlage Carded

A
Hinges & Pivots

B
Pulls & Plates

C
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E
Stops

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Exterior Hardware

G
Miscellaneous Hardware

A

Hinges & Pivots

B

Pulls & Plates

C

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

E

Stops

F6

Exterior Hardware

G

Miscellaneous Hardware



700 meets ANSI/BHMA A156.16 L23173
U700 meets ANSI/BHMA A156.16 L23222
U700 is UL Listed 90 minute fire doors

700 U700 One-Way Viewer

- 120° Angle of View.
- For doors 1-3/8" to 2-1/16" thick.
- Secure, tamper-resistant.
- Solid brass body; glass lens.
- Simple installation—only a 1/2" hole required.
- Suggested installation height: 60" from floor.
- Trim washer available, 3/4" x .032" thick.

Finishes

Ives Number	B3**	B4	B10B*	B26D
BHMA	605	606	613	626

* not available on U700

** only available on 700 in Schlage Carded



701 meets ANSI/BHMA A156.16 L23173
U701 meets ANSI/BHMA A156.16 L23222
U701 is UL Listed 90 minute fire doors.

701 U701 One-Way Viewer

- 120° Angle of View.
- For doors 2-1/8" to 2-5/8" thick.
- Secure, tamper-resistant.
- Solid brass body; glass lens.
- Simple installation—only a 1/2" hole required.
- Suggested installation height: 60" from floor.
- Trim washer available, 3/4" x .032" thick.

Finishes

Ives Number	B4	B10B	B26D
BHMA	606	613	626



Meets ANSI/BHMA A156.16 L23151

02-3107 Knocker Only

- Knocker made from forged brass.
- Only available in Schlage Carded pak

Dimensions

Length: 8-1/2"

Width: 4-1/8"

Projection: 1"

Mounting Hole Center-to-Center: 5"

Finishes

Ives Number	B605	B19
BHMA	605	619



Meets ANSI/BHMA A156.16 L23161

02-3125 Knocker Only 02-31251U Knocker with U700 Viewer 02-31252U Knocker with U701 Viewer

- Knocker made from forged brass.
- 02-31251 and 02-31251U for door thickness 7/8" – 1-9/16"
- 02-31252 and 02-31252U for door thickness 1-5/8" – 2-1/8"

Dimensions

Length: 5-15/16"

Width: 3"

Projection: 1-1/16"

Mounting Hole Center-to-Center: 3-15/16"

Finishes

Ives Number	B3	B5	B15	B15A*	B26	B26D	716
BHMA	605	609	619	620	625	626	

* not available on viewer, only available in Schlage Carded

Only B3, B15, B26D and 716 knockers are available with viewer. B3 is furnished with B4 (606) viewer, 716 is furnished with B10B viewer, B15 (619) is furnished with a 636 viewer.

A
Hinges & Pivots

B
Pulls & Plates

C
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E
Stops

F7
Exterior Hardware

G
Miscellaneous Hardware



Meets ANSI/BHMA A156.16 L26031

620 Magazine Size Letter Box Plate with Standard (Open) Back Plate

- Spring-loaded front plate
- Sex Bolt mounting available, order separately 09-355 – finish.

Dimensions

Overall Size: 13" Wide x 3-9/16" High

Plate Opening: 11" x 2" High

Finishes *brass*

Ives Number	B3	B5	B15	B15A*	B26	B26D	B716
BHMA	605	609	619	620	625	626	

Finishes *aluminum*

Ives Number	PA28
BHMA	628

** not available in U700 Schlage Carded*



601 Sleeve for use with Letter Box Plate

- Made of stainless steel.
- For 1-3/4" hollow core doors.



SC2 - 30 X 6 Heritage House Number

- Made from solid brass.
- Schlage Carded*

0 - 3006	5 - 3056
1 - 3016	6 - 3066
2 - 3026	7 - 3076
3 - 3036	8 - 3086
4 - 3046	9 - 3096

Dimensions

Height: 4"

Finishes *brass*

Ives Number	B3	B15	B716
BHMA	605	619	

A
Hinges & Pivots

B
Pulls & Plates

C
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E
Stops

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Exterior Hardware

G
Miscellaneous Hardware



980 Storm Door Latch

- For wood storm doors 7/8" to 1-1/8" thick.
- Reversible: fits right or left hand, inswinging or outswinging doors.
- Security lock feature operates from inside rose.
- Solid brass safety strike assures latching and is designed to compensate for air pressure build-up between doors.
- Made from wrought brass.

Dimensions

Backset: 1-3/4"

Rose Diameter: 1-7/8"

Knob Diameter: 1-3/4"

Knob Projection: 2"

Lever Length: 1-3/4"

Lever Projection: 1-7/8"

Finishes *brass*

Ives Number	B3	B5	B10B	B15	B19	B26	B26D
BHMA	605	609	613	619	622	625	626



Meets ANSI/BHMA A156.16, L12231,

25 Screen Door Pull

- Cast aluminum or epoxy-coated aluminum
- Also used as a window lift, drawer or utility pull

Dimensions

Length 4-7/8"

Projection 1-5/32"

Mounting holes 4-1/8" center to center

Finishes

Ives Number	A3	A92	A-W	A-B
BHMA	666	673		



Meets ANSI/BHMA A156.16, L12231,

CS115 Crash Stop

- Specially designed for full-size exterior doors.
- Tear resistant, grey vinyl cover.
- Heavy duty compression spring assembled to both ends of chain and end brackets.
- Packed with sheet metal screws.
- Cast Brass brackets with solid, welded steel chain.
- Optional sex bolt mounting available in US26D (626) only.

Dimensions

Bracket Size: 1-9/16" x 1-9/16"

Available Lengths:

20-1/2" — Recommended for 30" Door Width (Product No. CS115-20)

25-1/2" — Recommended for 36" Door Width (Product No. CS115-25)

30-1/2" — Recommended for 42" Door Width (Product No. CS115-30)

Finishes

Ives Number	US10B	US26D
BHMA	613	626

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Exterior HardwareG1
Miscellaneous Hardware



Meets ANSI/BHMA A156.16 L13061 for brass and L33061 for aluminum

059 Hand Rail Bracket

- Made from solid brass, cast aluminum or epoxy-coated aluminum.
- Large faceplate for secure attachment to wall.
- Features solid construction for increased strength.

Dimensions

Base: 2-1/4" High x 1-3/8" Wide

Base to Center of Rail: 2-7/16"

Finishes *brass*

Ives Number	B3	B5	B10B	B15	B15A	B19	B26	B26D	B716
BHMA	605	609	613	619	620	622	625	626	

Finishes *aluminum*

Ives Number	A3	A5	A10	A10B	A14	A15	A92	A716	A-BLK	A-W
BHMA	666		668	703	669	670	673			

Finishes *zinc*

Ives Number	Z619E
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Meets ANSI/BHMA A156.16 L13061 for brass and L33061 for aluminum

59 Hand Rail Bracket

- Made from cast brass or cast aluminum.
- Large faceplate for secure attachment to wall.
- Features solid construction for increased strength.

Dimensions

Aluminum Base: 2-13/16" High x 1-1/2" Wide

Brass Base: 2-15/16" High x 1-1/2" Wide

Base to Center of Rail: 2-3/4"

Finishes *brass*

Ives Number	B3	B5	B15	B26	B26D	B716
BHMA	605	609	619	625	626	

Finishes *aluminum*

Ives Number	A3	A5	A10B	A14	A15	A92	A716
BHMA	666		703	669	670	673	



Meets ANSI/BHMA A156.16, L33081

159 Hand Rail Bracket

- For use on commercial applications.
- Exceeds OSHA and BHMA strength test requirements.
- Packed with square head iron lag screw, expansion shield and screws.
- Cast Aluminum construction.

Dimensions

Base Diameter: 3-1/8"

Base to Rail Center: 3-1/8"

Finishes *aluminum*

Ives Number	A3	A92
BHMA	666	673



Meets ANSI/BHMA A156.16 L33113

405 Coat & Hat Hook

- Wide body design is ideal for public buildings, schools, dormitories, etc., where hook must withstand unusual stress and strain.
- Made from cast aluminum.

Dimensions

Base: 1-1/2" High x 7/8" Wide

Projection: 2-1/2"

Finishes aluminum

Ives Number	A3	A4	A5	A10	A10B	A14	A92
BHMA	666	667		668	703	669	673



Meets ANSI/BHMA A156.16 L13113 for brass and L33113 for aluminum.

571 Coat & Hat Hook

- All-purpose hook in traditional design.
- Made from cast brass, cast aluminum, or epoxy-coated aluminum.

Dimensions

Base: 1-3/4" High x 1-1/4" Wide

Projection: 3"

Finishes brass

Ives Number	B3	B4	B5	B10B	B15	B15A*	B26	B26D	B716
BHMA	605	606	609	613	619	620	625	626	

Finishes aluminum

Ives Number	A3	A5	A10	A14	A15	A92	A716	A-W	A-BLK
BHMA	666		668	669	670	673			

Finishes zinc

Ives Number Z619E

BHMA

* only available in Schlage Carded or Slim-Pak of 25

572 Coat & Hat Hook

- Step-up decorative version of the traditional all-purpose hook.
- Ideal for locations where additional strength is required.
- Made from cast brass or cast aluminum.

Dimensions

Brass Base: 1-1/2" High x 1-5/16" Wide

Aluminum Base: 1-5/8" High x 1-5/16" Wide

Projection: 3"

Finishes brass

Ives Number	B3	B4	B5	B10	B10B	B15	B26	B26D
BHMA	605	606	609	612	613	619	625	626

Finishes aluminum

Ives Number	A3	A5	A10	A10B	A14	A15	A92
BHMA	666		668	703	669	670	673



A

Hinges & Pivots

B

Pulls & Plates

C

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

E

Stops

F

Exterior Hardware

G4

Miscellaneous Hardware



Meets ANSI/BHMA A156.16 L13113 for brass and L33113 for aluminum



Meets ANSI/BHMA A156.16 L33121



574 Coat & Hat Hook

- Decorative design is ideal for commercial and residential installations.
- Made from cast brass, cast aluminum or epoxy-coated aluminum.

Dimensions

Base: 1-5/8" High x 1-3/4" Wide

Projection: 3-3/4"

Overall Height, Brass: 4-3/4"

Overall Height, Aluminum: 5"

Finishes *brass*

Ives Number	B3	B4	B10	B10B	B15	B26	B26D
BHMA	605	606	612	613	619	625	626

Finishes *aluminum*

Ives Number	A3	A26	A92
BHMA	666	672	673

575 Coat & Hat Hook

- Especially designed to accommodate large hats.
- Made from solid brass or cast aluminum.

Dimensions

Base: 2-1/4" High x 1-3/8" Wide

Projection: 3-5/8"

Overall Height: 5-3/4"

Finishes *aluminum*

Ives Number	A3	A10B	A92
BHMA	666	703	673

580 Ceiling Hook

- Ideal for use in closets, attached to underside of shelves, or in storage lockers.
- Made from cast brass or cast aluminum.

Dimensions

Base: 1" High x 1-7/8" Wide

Projection: 2-1/4"

Finishes

Ives Number	A3	A5	A10	A14	A15	A92	A716
BHMA	666		668	669	670	673	



581 Wardrobe Hook

- Compact hook is perfect where space is limited, such as behind doors where low profile is needed.
- Made from cast brass, cast aluminum or epoxy-coated aluminum.

Dimensions

Base, Brass/Aluminum: 1-1/4" High x 1-1/4" Wide

Base, Zinc: 1-1/2" High x 3/4" Wide

Projection, Brass: 1-11/16"

Projection, Aluminum, Zinc: 1-5/8"

Finishes brass

Ives Number	B3	B4	B5	B10	B10B	B15	B15A*	B26	B26D	B716
BHMA	605	606	609	612	613	619	620	625	626	

* only available in Schlage Carded

Finishes aluminum

Ives Number	A3	A5	A14	A15	A92	A716	A-BLK	A-W
BHMA	666		669	670	673			

Finishes zinc (narrow base)

Ives Number Z619E

BHMA



582 Double Wardrobe Hook

- Compact double hook is perfect where space is limited, such as behind doors where low profile is needed.
- Made from cast brass, cast aluminum or epoxy-coated aluminum.

Dimensions

Base, Brass: 1-1/8" High x 1-1/4" Wide

Base, Aluminum: 1-1/16" High x 1-3/16 Wide

Base, Zinc: 1-5/8" High x 7/8" Wide

Projection, Brass: 1"

Projection, Aluminum, Zinc: 1-3/32"

Finishes brass

Ives Number	B3	B4	B5	B10	B10B	B15	B15A*	B26	B26D	B716
BHMA	605	606	609	612	613	619	620	625	626	

Finishes aluminum

Ives Number	A3	A5	A10	A14	A15	A92	A716	A-W	A-BLK
BHMA	666		668	669	670	673			

Finishes zinc (narrow base)

Ives Number Z619E

BHMA

* only available in Schlage Carded or Slim-Pak of 25

A
Hinges & Pivots

B
Pulls & Plates

C
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E
Stops

F
Exterior Hardware

G5
Miscellaneous Hardware

A

Hinges & Pivots

B

Pulls & Plates

C

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

E

Stops

F

Exterior Hardware

G6

Miscellaneous Hardware

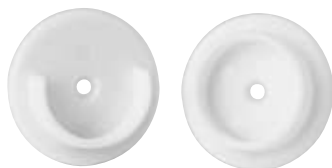


SP585 Closet Pole Sockets

- Flange design prevents accidental knock out of pole.
- Made from wrought steel.
- Accommodates pole or pipe with outside diameter of 1-3/8".
- Packed in pairs.

Finishes

Ives Number	F3
BHMA	632



SP586 Closet Pole Sockets

- Made from a heavy duty plastic for long life and extra strength.
- Single screw mounting.
- Accommodates pole or pipe with outside diameter of 1-3/8".
- Packed in pairs.

Finish

White Plastic



07 Window Lock

- Designed low to the sash for superior strength and greater resistance to breakage.
- Vertical and horizontal camming action for snug, non-rattling fit.
- Heavy gauge springs provide long-wearing action.
- Made from solid brass, aluminum, or epoxy coated aluminum.

Dimensions

Base: 15/16" x 2-9/16"

Strike: 5/8" x 2-9/16"

Meets ANSI/BHMA A156.16

Finishes *brass*

Ives Number	B3	B15	B15A*	B26	B26D	B716
BHMA	605	619	620	625	626	

Finishes *aluminum*

Ives Number	A3	A5*	A10B	A14	A15	A92	A-716	A-W	A-BLK
BHMA	666		703	669	670	673			

** only available in Schlage Carded or Slim-Pak of 25*



Meets ANSI/BHMA A156.16

90 Side Window Lock

- May be used singularly for small windows or in pairs for large windows.
- Cam action eliminates rattles and holds window firmly in desired position.
- Made from aluminum.

Dimensions

1-3/4" High x 1-1/8" Wide

Finishes

Ives Number	A3
BHMA	666



Meets ANSI/BHMA A156.16

026 Bar Window Lift

- Facilitates opening of window in a safe manner.
- Can also be used as a drawer or utility pull.
- Made from solid brass, aluminum, or epoxy coated aluminum.

Dimensions

Base: 1-1/8" High x 4" Wide

Projection: 1-1/16"

Finishes brass

Ives Number	B3	B5	B15	B15A*	B26	B26D	B716
BHMA	605	609	619	620	625	626	

Finishes aluminum

Ives Number	A3	A5	A14	A15	A92	A716	A-W	A-BLK
BHMA	666		669	670	673			

* only available in Schlage Carded or Slim-Pak of 25



Meets ANSI/BHMA A156.16

066 Casement Fastener

- For use on windows to provide weather-tight fastening and security.
- Also ideal for securing louvered doors and small doors.
- Made from solid brass or aluminum.
- Specify: Surface, Strike (SS)  Rim, or Strike (RS)  Mortise Strike (MS) 

Dimensions

Base: 1-5/8" x 7/8"

Projection: 1-3/8"

Finishes brass

Ives Number	B3	B5	B15	B26	B26D
BHMA	605	609	619	625	626

Finishes aluminum

Ives Number	A3	A5	A10B	A14	A92
BHMA	666	668	703	673	

Hinges & Pivots
APulls & Plates
BFlush Bolts & Coordinators
CLatches, Catches & Bolts
DStops
EExterior Hardware
FMiscellaneous Hardware
G7

A

Hinges & Pilots

B

Pulls & Plates

C

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

E

Stops

F

Exterior Hardware

G8

Miscellaneous Hardware



Meets ANSI/BHMA A156.16

66 Casement Fastener

- For use on windows to provide weather-tight fastening and security.
- Also ideal for securing louvered doors and small doors.
- Made from solid brass or aluminum.
- Specify: Surface, Strike (SS)  Rim Strike (RS)  Mortise Strike (MS) 

Dimensions

Base: 2-1/16" High x 1-1/16" Wide

Projection: 1-7/8"

Finishes *brass*

Ives Number	B3	B5	B15	B26	B26D	B716
BHMA	605	609	619	625	626	

Finishes *aluminum*

Ives Number	A3	A5	A14	A92
BHMA	666		669	673



Meets ANSI/BHMA A156.16

71 Casement Adjuster

- Securely holds casement window in any position.
- Can also be used to hold cabinet lids and drafting table tops in various positions.
- Made from burnished steel or solid brass.
- Available in 10" and 12" lengths.

Dimensions

Tube: 3/8" x 5/8"

Projection: 1"

Sash Plate:

Brass: 1-5/8" High x 5/8" Wide

Steel: 2 x 5/8" Wide

Sill Plate:

2-1/4" x 15/16" Wide

Finishes *brass*

Ives Number	B3	B26
BHMA	605	625

**78 Hook and Staple**

- Made from solid brass.

Dimensions

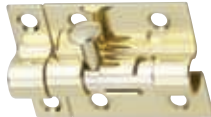
Hook: 1-1/2" Long

Staple: 3/4" high x 15/16" wide

Finishes

Ives Number B3

BHMA 605

**86 Hobbyist Barrel Bolt**

- Made from solid brass.

Dimensions

Bolt plate: 1-9/16" high x 1-11/16" wide

Bolt guide: 1-9/16" high x 7/16" wide

Strike plate: 1-9/16" high x 5/8" wide

Finishes

Ives Number B3

BHMA 603

**9011 Middle Butt Hinge****9031 Middle Butt Hinge**

- Made from solid brass.

Dimensions

9011 Overall height x overall width: 3/4" x 11/16"

9031 Overall height x overall width: 1-1/2" x 1"

Finishes

Ives Number B3

BHMA 605

*Schlage Carded - 9011 4 per, 5 cards per box. 9031 2 per, 5 cards per box.***9041 Middle Butt Hinge**

- Made from solid brass.

Dimensions

Overall height x overall width: 2" x 1-1/4"

Finishes

Ives Number B3

BHMA 605

*Schlage Carded - 2 per, 5 cards per box.***9042 Broad Butt Hinge**

- Made from solid brass.

Dimensions

Overall height x overall width: 2" x 1-3/8"

Finishes

Ives Number B3 B5

BHMA 605 609

Schlage Carded - 2 per, 5 cards per box.

A

Hinges & Pivots



9070 Decorative Hinge

- Made from steel.

Dimensions

Overall height x overall width: 1-5/16" x 2-7/8"

Finishes

Ives Number	F3
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BHMA	632
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Schlage Carded - 2 per, 5 cards per box.

B

Pulls & Plates



9071 Decorative Hinge 9072 Decorative Hinge

- Made from solid brass.

Dimensions

9071 Overall height x overall width: 1-3/4" x 3"

9072 Overall height x overall width: 1-5/16" x 2-1/4"

Finishes

Ives Number	B3	B5
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BHMA	605	609
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Schlage Carded - 1 per card, 5 cards per box.

C

Flush Bolts & Coordinators



9110 Decorative Hasp

- Made from solid brass.

Dimensions

Overall height x overall width: 5/8" x 1-7/8"

Finishes

Ives Number	B3	B5
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BHMA	605	609
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Schlage Carded - 2 per, 5 cards per box.

E

Stops



9120 Hasp

- Made from solid brass.

Dimensions

Overall height x overall width: 3/4" x 2-3/4"

Finishes

Ives Number	B3	B5
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BHMA	605	609
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Schlage Carded - 1 per card, 5 cards per box.

F

Exterior Hardware

G10

Miscellaneous Hardware

**9130 Hook with Hasp**

- Made from solid brass.

Dimensions

Overall height x overall width: 3/4" x 2-3/4"

Finishes

Ives Number B3

BHMA 605

Schlage Carded - 1 per, 5 cards per box.

**9210 Support Hinge**

- Made from steel.
- Handed. Specify Left Hand (LH) or Right Hand (RH)

Dimensions

Extension: approx. 10-3/8"

Finishes

Ives Number F3

BHMA 632

Schlage Carded - 1 per, 5 cards per box.

**9220 Friction Lid Support**

- Made from steel.
- Handed. Specify Left Hand (LH) or Right Hand (RH)

Dimensions

Extension: approx. 5"

Finishes

Ives Number F3

BHMA 632

Schlage Carded - 1 per, 5 cards per box.

**9311 Decorative Corner**

- Made from solid brass.

Dimensions

9311 Side to corner: 1-3/4"

Finishes

Ives Number B3

BHMA 605

Schlage Carded - 4 per card, 5 cards per box.

A

Hinges & Pivots

B

Pulls & Plates

C

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

E

Stops

F

Exterior Hardware

G12

Miscellaneous Hardware



9320 Bracket

- Made from solid brass.

Dimensions

Each leaf 1/2" x 1-1/8"

Finishes

Ives Number B3

BHMA 605

Schlage Carded - 4 per, 5 cards per box.



9321 Bracket

- Made from solid brass.

Dimensions

Each leaf 1/2" x 1-9/16"

Finishes

Ives Number B3

BHMA 605

Schlage Carded - 4 per, 5 cards per box.



9330 Draw Catch

- Made from steel.

Dimensions

Overall height: 1-1/2"

Overall width: 2-3/4"

Finishes

Ives Number F3

BHMA 632

Schlage Carded - 2 per, 5 cards per box.



9340 Chest Handle

- Made from steel.

Dimensions

Overall height: 1-1/2"

Overall width: 3-1/2"

Finishes

Ives Number F3

BHMA 632

Schlage Carded - 2 per, 5 cards per box.



Meets ANSI/BHMA A156.9 B33023

2 Elbow Catch

- Ideal for use on the inactive leaf of a pair of cabinet doors.
- Surface applied, making installation simple.
- Made from cast aluminum.

Dimensions

Plate: 1-3/8" High x 5/8" Wide

Strike: 13/16" High x 5/8" Wide

Finishes *aluminum*

Ives Number	A3	A5	A14	A15	A92	A716
BHMA	666		669	670	673	



Meets ANSI/BHMA A156.9 B22201 and A156.14 D2781.

22 Flush Pull

- Low profile makes this pull ideal for louvered, bi-folding or wardrobe doors.
- Extra deep recess and reverse tapered grip provide for ease of pulling and gripping.
- Made from wrought brass.

Dimensions

1-5/16" High x 3-1/8" Wide x 7/16" Deep

Finishes *brass*

Ives Number	B3	B5	B10B	B15	B26	B26D
BHMA	605	609	613	619	625	626



Meets ANSI/BHMA A156.9 B22201 and A156.14 D2781.

218 Finger Pull

- Ideal for use on sliding doors.
- Easy installation.
- Made from wrought brass.

Dimensions

Inside Cup Diameter: 3/4"

Overall Diameter: 1"

Depth: 5/16"

Finishes *brass*

Ives Number	B3	B5	B10	B10B	B15	B26	B26D
BHMA	605	609	612	613	619	625	626

A
Hinges & Pivots

B
Pulls & Plates

C
Flush Bolts & Coordinators

D
Latches, Catches & Bolts

E
Stops

F
Exterior Hardware

G13
Miscellaneous Hardware

A

Hinges & Pivots

B

Pulls & Plates

C

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

E

Stops

F

Exterior Hardware

G14

Miscellaneous Hardware



Meets ANSI/BHMA A156.9 B22201 and A156.14 D2781

221 Flush Pull

- Ideal for use on sliding doors.
- Built-in prong design eliminates the need for screws or brads and facilitates installation.
- Packed with two escutcheon pins for added holding power.
- Made from wrought brass.

Dimensions

Inside Cup Diameter: 2-1/8"

Overall Diameter: 2-7/16"

Depth: 7/16"

Finishes *brass*

Ives Number	B3	B4	B5	B10	B10B	B15	B15A*	B26	B26D	B716
BHMA	605	606	609	612	613	619	620	625	626	

* only available in Slim-Pak of 25



Meets ANSI/BHMA A156.9 B12201 and A156.14 D1781.

222 Flush Pull

- Low profile makes this pull ideal for louvered, bi-folding or wardrobe doors.
- Reverse tapered grip provide for ease of pulling.
- Made from cast brass.

Dimensions

3-1/8" High x 1-5/8" Wide x 7/16" Deep

Finishes *brass*

Ives Number	B3	B4	B5	B10	B10B	B15	B26	B26D
BHMA	605	606	609	612	613	619	625	626



Meets ANSI/BHMA A156.9 B22201 and A156.14 D2781.

223 Flush Pull

- Low profile makes this pull ideal for louvered, bi-folding or wardrobe doors.
- Made from wrought brass

Dimensions

3-9/16" High x 1-5/16" Wide x 1/2" Deep

Finishes *brass*

Ives Number	B3	B4	B10	B10B	B15	B26	B26D
BHMA	605	606	612	613	619	625	626



Meets ANSI/BHMA A156.9 B22201 and A156.14 D2781.

227 Flush Pull

- Contoured for ease of pulling.
- Extra deep well.
- Deluxe quality.
- Made from wrought brass.

Dimensions

3-5/8" High x 1-3/4" Wide x 9/16" Deep

Finishes

Ives Number	B3	B4	B5	B10	B10B	B15	B26	B26D
BHMA	605	606	609	612	613	619	625	626



Meets ANSI/BHMA A156.14 D2801.

230 Sliding Door Edge Pull

- 3/4" width allows installation on narrow as well as standard doors.
- Spring automatically returns lever flush with plate.
- Made from solid brass.

Dimensions

3-7/8" High x 3/4" Wide

Finishes

Ives Number	B3	B4	B5	B10	B10B	B15	B26	B26D
BHMA	605	606	609	612	613	619	625	626



42 Pocket Sliding Door Bolt

- Exclusive Ives design permits emergency release of bolt from outside the door.
- Spring activated design allows feather-touch action.
- Brass grommet supplied to cap release hole, protecting the door's finish.
- Made from wrought brass.

Dimensions

Overall Size Plate: 3-1/16" High x 1-5/32" Wide

Strike: 1" High x 3/4" Wide

Depth of Mortise: 5/8"

Finishes

Ives Number	B3	B4	B5	B10	B10B	B15	B26	B26D
BHMA	605	606	609	612	613	619	625	626

A

Hinges & Pivots

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Pulls & Plates

C

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

E

Stops

F

Exterior Hardware

G16

Miscellaneous Hardware



990 Sliding Door Pull

- Fits doors 1-3/8" to 1-1/2".
- Decorative coined edges.
- Pre-assembled for doors opening left to right. Plates are reversible.
- Body and strike made from solid brass.

Dimensions

1-3/4" D x 2-1/4" H

Finishes *brass*

Ives Number	B3	B5*	B10B	B15	B15A*	B26	B716
BHMA	605	609	613	619	620	625	

** only available in Schlage Carded*

Finishes *aluminum*

Ives Number	A3	A5	A14	A15	A26D	A716
BHMA	666		669	670	702	



991 Sliding Door Pull

- Fits doors 1-3/8" to 1-1/2".
- Decorative coined edges.
- Pre-assembled for doors opening left to right. Plates are reversible.
- Body, turn knob and strike made from solid brass.

Dimensions

1-3/4" D x 2-1/4" H

Finishes *brass*

Ives Number	B3	B5*	B10B	B15	B15*	B26	B716
BHMA	605	609	613	619	620	625	

** only available in Schlage Carded*

Finishes *aluminum*

Ives Number	A3	A5	A14	A15	A26D	A716
BHMA	666		669	670	702	

A
Hinges & Pivots

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Pulls & Plates

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Flush Bolts & Coordinators

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Latches, Catches & Bolts

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Miscellaneous Hardware

About Allegion

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