PROJECT MANUAL

4J Buena Vista ES Door Replacement Project

Eugene, Oregon

Request for Quotations

CIP # 420.373.041

Issue Date: April 22, 2014

GMA Architects
860 West Park Street, Suite 300
Eugene, OR 97401

DOCUMENT 00001

TITLE PAGE

Eugene Public School District 4J

4J Buena Vista ES Door Replacement Project

1500 Queens Way, Eugene, OR 97401

C.I.P. Project No. 420.373.041

PROJECT TEAM

OWNER:

Eugene School District 4J
715 West 4th Ave.
Eugene, Oregon 97402
CONTACT:
Project Manager: Bruce Foster
(541) 912-6224 Office
foster@4j.lane.edu

ARCHITECT:

GMA Architects
860 W. Park Suite 300, Eugene, OR 97401
CONTACT:
Joseph E. Moore, AIA
(541) 344-9157 Office
jmoore@gma-arch.com

Architect's Project Number: 14684

DATE: APRIL 22, 2014

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Project CIP #420.373.041

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REQUEST FOR QUOTATIONS

DOCUMENT 00010

Sealed Quotes will be received by Kathi Hernandez, Purchasing Services, for Buena Vista ES Door Replacement Project until 2:00 pm, 07 May 2014, at the Eugene School District Facilities Management Office, 715 West Fourth, Eugene, Oregon 97402.

Briefly, the work is described as a door replacement project.

Beginning 22 April 2014, Prime Bidders, Sub-bidders and Suppliers may obtain bidding documents at the following hyperlink: **http://www.4j.lane.edu./bids/door-replacement-2014**

Hard copies are not provided by the School District.

It shall be the responsibility of all Prime Bidders, Sub-bidders, and Suppliers to obtain Bidding Documents and any and all Addenda from the hyperlink.

All quotations must be submitted on the form provided and enclosed in a sealed envelope marked:

Buena Vista ES Door Replacement Project

A mandatory pre-quote conference and walk-through has been scheduled for 29 April 2014, 10:00 am. The location of the conference will be Buena Vista Elementary School, 1500 Queens Way, Eugene, Oregon. Check-in at the front office.

No Quote for a construction contract will be received or considered unless the Contractor is registered with the Construction Contractors Board or licensed by the State Landscape Contractors Board at the time the bid is made as required by ORS 671.530. A license to work with asbestos-containing materials under ORS 468A.720 is not required for this Project.

For every bid $100,000 or greater, all Contractors and Subcontractors shall have a public works bond, in the amount of $30,000, filed with the Construction Contractors' Board (CCB), before starting work on the project, unless exempt.

Each Quote shall contain a statement indicating whether the Quoter is a "resident quoter", as defined in ORS 279A.120.

Each Quote shall contain a statement that the "Contractor agrees to be bound by and comply with the provisions of ORS 279C.800 to 279C.870 regarding payment of Prevailing Wages".

Contractor shall certify nondiscrimination in obtaining required subcontractors, in accordance with ORS 279A.110.

Each Quote shall be accompanied by a surety bond, cashier's check, or certified check executed in favor of Eugene School District 4J in an amount equal to ten percent (10%) of the amount of the Bid.

The successful Quoter will be required to furnish a Performance bond and Labor and Materials Payment bond each in the full amount of the contract price. Certificates of Insurance as described in the Terms and Conditions will be required.

School District 4J reserves the right to reject any and all proposals received as a result of this request for Quotations and select the Quote which appears to be in the best interest of the District.

Date: 22 April 2014

By: Kathi Hernandez, Facilities Management Assistant

QUOTATION REQUIREMENTS

DOCUMENT 00020

PART 1 – GENERAL

1.1. GENERAL INFORMATION

A. The term “quoter” shall refer to the firm or individual submitting a quote or quotation.

B. Quoters are encouraged to visit the site(s) to become familiar with existing conditions. The Owner is not responsible and shall not bear financial burden for oversights made by the Quoter for failure to inspect sites prior to submitting a quote.

C. In all cases, persons wishing to examine the area of work must sign in at the school office prior to visiting the work area. Prior to leaving the school, sign-out at the office is required.

D. If access is required at times when the school office is not staffed, contact the Facilities Office, 541-790-7400, for assistance.

E. The Owner is excise tax exempt. "Goods used hereon are for the exclusive use of this School District." Excise exemption No. 93 740074 F.

1.2. QUOTE PROCEDURES

A. Quotes are to be submitted in one copy on the forms provided.

B. Quoters shall certify to non-collusion practices on the form included as part of the Quote Form, to be submitted with the Quote Form.

1. A Non-Collusion Affidavit is required for any contract awarded pursuant to the quote. According to the Oregon Public Contracts and Purchasing Laws, a public contracting agency may reject any or all quotes upon a finding of the agency that it is in the public interest to do so (ORS 279C.395). This agency finds that it is in the public interest to require the completion of this affidavit by potential contractors.

2. The Non-Collusion Affidavit must be executed by the member, officer or employee of the quoter who makes the final decision on prices and the amount quoted in the quote.

3. Quote rigging and other efforts to restrain competition, and the making of false sworn statements in connection with the submission of quotes are unlawful and may be subject to criminal prosecution. The person who signs the Affidavit should examine it carefully before signing and assure himself or herself that each statement is true and accurate, making diligent inquiry, as necessary, of all other persons employed by or associated with the quoter with responsibilities for the preparation, approval or submission of the quote.

4. In the case of a quote submitted by a joint venture, each party to the venture must be identified in the quote documents, and an Affidavit must be submitted separately on behalf of each party.

5. The term "complementary quote" as used in the Affidavit has the meaning commonly associated with the term in the quoting process, and includes the knowing submission of quotes higher than the quote of another firm, any intentionally high or noncompetitive quote, and any other form of quote submitted for the purpose of giving a false appearance of competition.

6. Failure to file an Affidavit in compliance with these instructions will result in disqualification of the quote.

C. Quoters shall certify to non-discrimination in employment practices on the form, included as part of the Quote Form, to be submitted with the Quote Form. By submitting its quote, the Quoter certifies conformance to the applicable federal acts, executive orders, and Oregon statutes and regulations concerning affirmative action toward equal employment opportunities. All information and reports required by the federal or Oregon state governments having responsibility for the enforcement of such laws shall be supplied to the Owner in compliance with such acts, regulation, and orders.

D. Quoter shall indicate, on the Quote Form where provided, the quoter status as a "resident" or "non-resident" in accordance with ORS 279A.120 and ORS 279C.365.

E. A Quote may not be withdrawn or canceled by the Quoter following the time and date designated for the receipt of quotes to the expiration of a 60 day period. The Quote for that sixty days is irrevocable and each Quoter so agrees in submitting a Quote.

1.3. PERFORMANCE BOND AND PAYMENT BOND

A. The successful Quoter shall be required to provide the Owner with a Performance Bond and Labor and Material Payment Bond **each** in an amount equal to one hundred (100%) of the contract sum. The Surety Company shall meet requirements as specified in the Supplementary Conditions.

B. The Labor and Material Payment Bond shall contain a clause specifically guaranteeing payment of all sums of money withheld from employees and payable to the Internal Revenue Service; and all contributions or amounts due to the State of Oregon from the General Contractor or subcontractor incurred in the performance of this contract.

C. The Bond shall be fully executed, payable to the Owner.

D. The cost of these bonds shall be included in the Quote.

E. The successful Quoter will be provided with contract forms through the Architect. These forms shall be executed and delivered to the Owner, along with Performance Bond and Labor and Material Payment Bond, within ten (10) days after receiving forms.

1.4. ADMINISTRATIVE RULES

A. All quoters are required to comply with the provisions of Oregon Revised Statutes and 4J Board Policy. Attention is directed to ORS 244, Government Ethics; ORS 279A and 279C, Public Contracting Code; Oregon Administrative Rules, Chapter 137, Divisions 46, 48 and 49; and 4J Board Policy DJC.

1.5. PROTEST OF QUOTE

A. Protests of quote specifications or contract terms shall be presented to the Owner in writing five (5) calendar days prior to quote opening. Such protest or request for change shall include the reason for protest or request, and any proposed changes to specifications or terms. No protest against award because of the content of quote specifications or contract terms shall be considered after the deadline established for submitting such protest.

1.6. PROTEST OF AWARD

A. Any actual quoter or proposer who is adversely affected by the Owner's notice of award of the contract to another quoter or proposer on the same solicitation shall have seventy-two (72) hours from the notice of award to submit to the Owner, a written protest of the notice of award. In order to be an adversely affected or aggrieved quoter or proposer with a right to submit a written protest, a quoter or proposer must itself claim to be eligible for award of the contract as the lowest responsible quoter or best proposer and must be next in line for award.

1.7. FINAL AWARD

A. The written notice of award of the contract shall constitute a final decision of the Owner to award the contract if no written protest of the notice of award is filed with the Owner within the designated time.

1.8. CONTRACTOR'S MARK UP FOR CHANGE ORDER WORK

A. The allowance for the combined overhead and profit included in the total net cost to the Owner shall be based as follows:

1. For the Contractor, for Work performed by the Contractor's own forces, 15 percent of the cost.

2. For the Contractor, for Work performed by the Contractor's Subcontractor, 10 percent of the amount due the Subcontractor.

3. For each Subcontractor or Sub-subcontractor involved, for Work performed by that Subcontractor's or Sub-subcontractor's own forces, 10 percent of the cost.

4. Total overhead and profit shall not exceed 25% of the base cost of the work (base cost being defined as the cost of the work without markups.)

5. Itemize costs to include breakdown for materials and labor, overhead and profit.

6. A change to the work providing a net CREDIT to the Owner shall include a credit for overhead and profit based on the following schedule:

   a. For the Contractor, 5 percent of the Cost to be credited.

   b. For each Subcontractor, 5 percent of the Cost to be credited.

   c. For each Sub-subcontractor, 5 percent of the cost to be credited.

   d. In order to facilitate checking of quotations for extras or credits, all proposals, except those so minor that their propriety can be seen by inspection, shall be accompanied by a complete itemization of costs including Subcontractor and Contractor overhead and profit as applicable.

END OF QUOTATION REQUIREMENTS

QUOTATION FORM

DOCUMENT 00300Q

Quotation for: **Buena Vista ES Door Replacement Project**
CIP Number: **420.373.041**
Submitted to: Facilities Management Office
Eugene School District No. 4J
715 West Fourth Avenue
Eugene, Oregon 97402

Due Date: 07 May 2014
Time: 2:00 pm

From: _____
(Company Name)

The undersigned proposes to furnish all material, equipment, and labor required for the complete project, and to perform all work in strict accordance with the Contract Documents for the lump sum price indicated below.

BASE QUOTE:
Quote Amount: _____ $_____
(Words) (Figures)

The undersigned agrees, if awarded the Contract, to substantially complete all Base Quote work on or before the dates specified in Section 01100.

The undersigned agrees, if awarded the contract, to comply with the provisions of Oregon Revised Statutes 279C.800 through 279C.870 pertaining to the payment of prevailing rates of wage.

The undersigned agrees, if awarded the Contract, to execute and deliver to the Owner within ten (10) working days after receiving contract forms, an Agreement and a satisfactory Performance Bond and a Labor and Material Payment Bond, if required elsewhere in the solicitation, each in an amount equal to 100 percent (100%) of the Contract Sum.

The undersigned has received addenda numbers _____ to _____ inclusive and has included their provisions in the above Quote amount.

By submitting this Quote, the Quoter certifies that the Quoter:

a) has available the appropriate financial, material, equipment, facility and personnel resources and expertise, or the ability to obtain the resources and expertise, necessary to meet all contractual responsibilities; b) has a satisfactory record of past performance; c) has a satisfactory record of integrity, and is not disqualified under ORS 279C.440; d) is qualified legally to contract with the Owner; and e) will promptly supply all necessary information in connection with any inquiry the Owner may make concerning the responsibility of the Quoter. Prior to award of a Contract, the Quoter shall submit appropriate documentation to allow the Owner to determine whether or not the Quoter is “responsible” according to the above criteria.

Contractor warrants that Contractor has a Qualifying Employee Drug-Testing program and will require each subcontractor providing labor for the project to do the same.

The undersigned has visited the site to become familiar with conditions under which the Work is to be performed and has correlated the Quoter's personal observations with the requirements of the proposed Contract Documents.

The undersigned certifies that the Quoter is a _____ Quoter under ORS. ("Resident" or "Non-resident", to be filled in by Quoter).

Names of Firm: _____TIN#:_____

Street Address: _____
(City) (State) (Zip)
Telephone Number: _____ Fax Number:_____ E-Mail: _____

Signed By: _____ Printed Name: _____
(Signature of Authorized Official. If Firm is a partnership, one of the partners must sign quote).

Official Capacity: _____ CCB #_____

If corporation, attest: _____ Date: _____
(Secretary of Corporation)

SEAL (If Corporation)

_____ Corporation
_____ Partnership
_____ Individual

QUOTATION FORM

DOCUMENT 00300Q

NON-DISCRIMINATION REQUIREMENT

Contractor certifies that the Contractor has not discriminated against minorities, women or emerging small business enterprises in obtaining any required subcontracts.

The Contractor agrees not to discriminate against any client, employee or applicant for employment or for services, because of race, color, religion, sex, national origin, physical or mental handicap, sexual orientation or age unless based upon bona fide occupational qualifications, and that they are otherwise in compliance with all federal, state and local laws prohibiting discrimination, with regard to, but not limited to, the following: Employment upgrading, demotion or transfer; Recruitment or recruitment advertising; Layoffs or termination; Rates of pay or other forms of compensation; Selection for training; Rendition of services. It is further understood that any vendor who is in violation of this clause shall be barred forthwith from receiving awards of any purchase order from the School District, unless a satisfactory showing is made that discriminatory practices have terminated and that a recurrence of such acts is unlikely.

BY_____ _____

(Company or Firm Officer) (Type or Print Name)

QUOTATION FORM

DOCUMENT 00300Q

NON-COLLUSION AFFIDAVIT

STATE OF_____

County of _____

I state that I am _____of_____ and that
(Title) (Name of Firm)
I am authorized to make this affidavit on behalf of my firm, and its owners, directors, and officers. I am the person responsible in my firm for the price(s) and the amount of this Quote.

I state that:

(1) The price(s) and amount of this Quote have been arrived at independently and without consultation, communication or agreement with any other contractor, Quoter or potential Quoter, except as disclosed on the attached appendix.

(2) That neither the price(s) nor the amount of this Quote, and neither the approximate price(s) nor approximate amount of this Quote, have been disclosed to any other firm or person who is a Quoter or potential Quoter, and they will not be disclosed before Quote opening.

(3) No attempt has been made or will be made to induce any firm or person to refrain from Quoting on this contract, or to submit a Quote higher than this Quote, or to submit any intentionally high or noncompetitive Quote or other form of complementary Quote.

(4) The Quote of my firm is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or noncompetitive Quote.

(5) _____, its affiliates, subsidiaries, officers,
(Name of my Firm)
directors and employees are not currently under investigation by any governmental agency and have not in the last four years been convicted of or found liable for any act prohibited by State or Federal law in any jurisdiction, involving conspiracy or collusion with respect to Quoting on any public contract, except as described on the attached appendix.

I state that _____understands and acknowledges that the
(Name of my Firm)
above representations are material and important, and will be relied on by School District No. 4J in awarding the contract(s) for which this Quote is submitted. I understand and my firm understands that any misstatement in this affidavit is and shall be treated as fraudulent concealment from School District No. 4J of the true facts relating to the submission of Quotes for this contract.

_____
(Authorized Signature)

Sworn to and subscribed before me this

_____ day of _____, 2013

_____
(Notary Public for Oregon)

My Commission Expires: _____

END OF QUOTATION FORM

CONSTRUCTION CONTRACTOR AGREEMENT

LANE COUNTY SCHOOL DISTRICT 4J
715 West Fourth Avenue
Eugene, Oregon 97402

This Agreement is hereby made between the Lane County School District 4J, hereinafter DISTRICT, and CONTRACTOR, according to the following terms, conditions and provisions:

1. CONTRACTOR is identified as follows:

   Firm Name: _____

   Contractor's Representative: _____

   Address: _____

   City/State/ZIP:_____ Email: _____

   Business Telephone: _____ FAX: _____

   Social Security Number: _____ or Federal Employer ID:

   Type of Entity: [ ] Sole Proprietorship [ ] Partnership [ ] Corporation

2. SERVICES TO BE PROVIDED (Include scope of work, schedule and other provisions including supplies, materials, equipment or services, as applicable):

   _____

   _____

   _____

3. DISTRICT'S REPRESENTATIVE: _____

4. FINGERPRINTING REQUIREMENTS: Do services to be provided include potential for direct, unsupervised contact with students? [ ] Yes [ ] No

   If yes, has CONTRACTOR been fingerprinted? [ ] Yes [ ] No

5. DATE AND DURATION: This agreement shall be effective commencing on _____and extending through _____, unless otherwise terminated or extended.

6. PAYMENT: The DISTRICT shall pay the CONTRACTOR the agreed sum of $_____ for work described herein.

7. CONTRACTOR REQUIREMENTS: The CONTRACTOR agrees to perform the work or services as described in this Agreement in accordance with the Terms and Conditions of this Agreement (ATTACHMENT A) and Drawings and Specifications listed below:

   _____

   _____

   _____

8. CONTRACTOR is an Independent Contractor within the meaning of ORS 670.600 and is not an employee of the DISTRICT.

9. SIGNATURES: It is so agreed this _____ day of _____.

   _____ _____

   CONTRACTOR Date

   _____ _____

   DISTRICT Date

ATTACHMENT A
CONSTRUCTION CONTRACTOR AGREEMENT TERMS & CONDITIONS with PERFORMANCE BOND AND PAYMENT BOND AND PREVAILING WAGES

7/19/2013

This Construction Contractor Agreement between the DISTRICT and the CONTRACTOR includes the following terms, conditions, and provisions:

1. DECLARATION OF INDEPENDENT CONTRACTOR: CONTRACTOR declares that CONTRACTOR has complied with all federal, state, and local laws regarding business permits, registrations, certificates, and licenses that may be required to carry out the work to be performed under this agreement. The CONTRACTOR represents that the CONTRACTOR qualifies as an independent CONTRACTOR as evidenced by agreement to the conditions of this contract. The CONTRACTOR represents that all the information in the agreement is true and the DISTRICT may contact individuals and corporations to verify this information. The DISTRICT relies upon the representation of the CONTRACTOR. In the event the CONTRACTOR is determined not to be an independent CONTRACTOR for the purpose of providing these services to the DISTRICT, then the CONTRACTOR will reimburse the DISTRICT's full costs and damages associated with or in any way related to this determination.

2. CONTRACTORS' REGISTRATION: The CONTRACTOR and each Subcontractor shall be registered, prior to the commencement of the Work, and maintain, for the duration of the Project, a registration with the Oregon State Construction CONTRACTORS' Board.

3. RESPONSIBILITY TEST: CONTRACTOR certifies that the contractor: a) has available the appropriate financial, material, equipment, facility and personnel resources and expertise, or the ability to obtain the resources and expertise, necessary to meet all contractual responsibilities; b) has a satisfactory record of past performance; c) has a satisfactory record of integrity, is not disqualified under ORS 279C.440; and d) is qualified legally to contract with the DISTRICT.

4. PERMITS, FEES AND NOTICES: The DISTRICT will pay the plan check fee, building permit fee, and systems development charges directly to the authority having jurisdiction. The CONTRACTOR shall comply with and give notices required by laws, ordinances, rules, regulations and lawful orders of public authorities bearing on performance of the work of this contract. The CONTRACTOR shall secure and pay for all other permits, fees and inspections necessary for the proper execution and completion of the Contract, which are legally required when bids are received or negotiations concluded. The CONTRACTOR shall pick up permits and call for inspections through final inspection, as required by the City Building Department.

5. USE OF SITE: Check in daily with the school or facility office personnel and the building custodian to coordinate construction activities with the ongoing activities at the building.

6. SMOKING, DRUG AND ALCOHOL POLICIES: Smoking and the other use of tobacco products is prohibited on all school district property pursuant to OAR 581-021-0110. District Policy prohibits the possession, use or distribution of illicit drugs and alcohol on school premises. Anyone under the treatment of a physician who must bring prescription medications to the workplace shall carry the medicines in the original container bearing the name of the drug, the name of the physician and the prescribed dosage. The CONTRACTOR is required to demonstrate that an employee drug testing program is in place.

7. POTENTIALLY HAZARDOUS PRODUCTS: The District attempts to maintain a safe and healthy environment for students and staff. The Contractor is therefore required to follow District guidelines controlling the use of potentially hazardous products and to use these products in a safe manner.

MSDS information is required for all potentially hazardous products. The Project Manager and a District Safety Specialist will review these and determine what, if any, mitigation procedures will be required. Contractor is to maintain and post copies of all MSDS information at the project site and adhere to the required controls.

Contractor is to ensure that work area access by students and teachers is restricted. The District will provide signage appropriate for this purpose. The contractor is to construct and maintain appropriate barriers.

8. ASBESTOS CONTAINING MATERIALS: Prior to commencing work on-site, the CONTRACTOR shall contact the District Asbestos Specialist, to review the Asbestos Management Plan for the site where the work will be performed. The CONTRACTOR shall not, in any way, disturb materials which are known to contain asbestos, assumed to contain asbestos, or otherwise have not been tested and confirmed to be asbestos free. The DISTRICT will investigate and test for asbestos containing materials and, if required, remove such materials as required for the Work. CONTRACTOR is required to sign an Asbestos Containing Materials Notification Statement as supplied by DISTRICT prior to commencing Work. The CONTRACTOR shall use no asbestos-containing materials in the Work and shall so certify.

9. SAFETY REQUIREMENTS: Safety must not be sacrificed for the sake of productivity or expedience. Safety of students, staff, and the public is critical. All CONTRACTORS who perform work on District property, and their employees, are expected to know the DISTRICT's expectations for safe work and to adhere to those expectations. CONTRACTOR shall adhere to the regulations of Oregon OSHA for all projects within the School District.

10. ELECTRICAL REQUIREMEMTS:

LOCKOUT/TAGOUT: Contractor shall implement a Lockout/Tagout program for employees who take equipment out of service or place equipment back into service after repair. Contractor shall review the District's Energy Control Program prior to commencing work. Rules applying to this procedure are Oregon Occupational Safety and Health Code OAR 437-002-0140, General Environmental Controls Lockout/Tagout (1919.147), or latest version.

ARC FLASH – ELECTRICAL SAFETY: Contractor shall comply with NFPA 70E (Electrical Safety in the Workplace), current edition. Contractor shall comply with Oregon OSHA 1910.137 (Personal Protective Equipment). The Contractor shall review with the School District Project Manager the 'Eugene School District Electrical Safety Program' before any work commences. The Contractor shall comply with all 'Arc Flash' and 'Electrical Safety' protocols referenced in any and all NFPA, OSHA, OROSHA, NEC, NESC, UL, IBC, IFC and ANSI documents (current editions).

11. CONFINED SPACE REQUIREMENTS: If work requires entering underground fuel storage tanks, utility tunnels, sewer vaults (where septic systems are located) or fireboxes on boilers, a permit and special training is required, when necessary under OAR 437-002-0140.

12. HOLD HARMLESS AND INDEMNIFICATION: To the fullest extent of the law, the Contractor will defend, indemnify, hold harmless and reimburse the Eugene School District 4J (including its officers, board members, agents, and employees) from all claims, demands, suits, actions, penalties, and damage expenses, for liability of any kind including attorney's fees. To the extent that death or bodily injury to persons or damage to property arises out of the fault of the Contractor, the Contractor's indemnity obligation exists only to the extent that the death or bodily injury to persons or damage to property arises out of the fault of the Contractor, or the fault of the Contractor's agents, representatives or subcontractors, contributed to or caused such damage, whether or not such incidents are contributed to or caused in any part by Eugene School District 4J.

13. INSURANCE: The Contractor shall maintain in force for the duration of this agreement, the following:

General Insurance: The Contractor shall maintain in force for the duration of this agreement a Umbrella Insurance Policy with the limits not less than $5,000,000, a Commercial General Liability, Automobile Liability (owned, non-owned and hired) Insurance policy(s) written on an occurrence basis with limits not less than $1,000,000 per occurrence and $2,000,000 in the aggregated naming the District, its employees, officials and agents as an additional insured as respects to work or services performed under this agreement. This insurance will be primary to any insurance the District may carry on its own. If the District requires Professional Liability coverage, the terms, conditions, and limits must be approved by the District's Risk Manager.
Workers' Compensation: The CONTRACTOR shall provide and maintain workers' compensation coverage for its employees, officers, agents, or partners as required by applicable workers' compensation laws.

Equipment and Material: The CONTRACTOR shall be responsible for any loss, damage, or destruction of its own property, equipment, and materials used in connection with the work.

Course of Construction: The CONTRACTOR shall maintain an all-risk policy covering the replacement cost of the Work during the course of construction. The policy shall include the interests of the DISTRICT and the Architect. The amount of insurance shall equal the completed value of the contract.

Property Insurance: The CONTRACTOR shall purchase from and maintain in a company or companies authorized to do business in the jurisdiction in which the Project is located, property insurance on an "all risk" policy form, including builder's risk/installation floater, whichever is appropriate, in the amount of the initial Contract Sum, plus the value of subsequent modifications and the cost of materials supplied by others, comprising the total value of the entire Project at the site on a replacement cost basis without optional deductibles. Such property insurance shall be maintained, unless otherwise provided in the Contract Documents or otherwise agreed in writing by all persons and entities who are beneficiaries of such insurance, until final payment has been made as provided in The Contract Documents or until no person or entity other than the DISTRICT has an insurable interest in the property required by this paragraph to be covered, whichever is later. The insurance shall include interests of the DISTRICT, Architect and CONTRACTOR, Subcontractors, and sub-subcontractors in the Project.

Evidence of Coverage: Evidence of the above coverages issued by a company satisfactory to the District shall be provided to the District by way of a certificate of insurance before any work or services commence. A 30-day notice of cancellation or material change in coverage clause shall be included. It is the Contractor's obligation to provide the 30 days notice if not done so by the Contractor's insurance company(s). Failure to maintain the proper insurance shall be grounds for immediate termination of this Agreement.

Subcontractors: The CONTRACTOR shall require all Subcontractors to provide and maintain general liability, auto liability, professional liability (as applicable), and workers' compensation insurance with coverage equivalent to those required of the general CONTRACTOR in this contract. The CONTRACTOR shall require certificates of insurance

from all subcontractors as evidence of coverage.

Exception or Waivers: Any exception or waiver of these requirements shall be subject to review and approval from the DISTRICT's Risk Manager.

14. PERFORMANCE BOND AND PAYMENT BOND: The Contractor shall furnish a Performance bond and a Labor and Materials Payment bond covering faithful performance of the Contract and payment of obligations arising there under. Bonds are to be obtained through a company that is on the US Government Treasury list for approved sureties and/or approved by School District 4J's Risk Manager. The cost of the Bond shall be included in the Contract Sum. The amount of each bond shall be equal to 100 percent of the Contract Sum. Submit on AIA Document A312, latest edition.

The Contractor shall deliver the required bonds to the DISTRICT with the executed Agreement. The Contractor shall require the Attorney-in-fact who executes the required bonds on behalf of the surety to affix thereto a certified and current copy of their power of attorney.

15. OWNERSHIP OF WORK PRODUCT: All work products of the CONTRACTOR, which result from this contract, shall be the exclusive property of the DISTRICT and shall be delivered to the DISTRICT upon completion of the work or termination of this contract, except as otherwise agreed in writing.

16. EQUIPMENT, TOOLS, MATERIALS, OR SUPPLIES: CONTRACTOR shall supply, at CONTRACTOR's sole expense, all equipment, tools, materials and/or supplies to accomplish the services agreed upon. The CONTRACTOR shall be responsible for any loss, damage, or destruction of its own property, equipment, and materials used in conjunction with the work.

17. REIMBURSEMENT OF EXPENSES: The DISTRICT shall not be liable to CONTRACTOR for any expenses paid or incurred by the CONTRACTOR unless previously agreed to in writing.

18. FRINGE BENEFITS: Because CONTRACTOR is engaged in CONTRACTOR's own independently established business, CONTRACTOR is not eligible for, and shall not participate in, any employee pension, health, or other fringe benefit plan, of the DISTRICT.

19. HOURS OF LABOR: No person shall be employed for more than ten hours in any one day, or 40 hours in any one week, except in the cases of necessity, emergency, or where the public policy absolutely requires it, and in such cases the person so employed shall be paid at least time and a half of the regular pay for all time worked.

a. For all overtime in excess of eight hours a day or 40 hours in any one week when the work week is five consecutive days, Monday through Friday; or
b. For all overtime in excess of 10 hours a day or 40 hours in any one week when the work week is four consecutive days, Monday through Friday; and
c. For all work performed on Saturday and on any legal holiday specified in ORS 279C.540.

The Contractor shall give notice to employees who work on a public contract in writing, either at the time of hire or before commencement of work on the contract, or by posting a notice in a location frequented by employees of the number of hours per day and days per week the employees may be required to work.

20. PAYMENT OF LABORERS AND MATERIALMEN, CONTRIBUTIONS TO INDUSTRIAL ACCIDENT FUND, LIENS AND WITHHOLDING TAXES: The Contractor shall: (1) Make payment promptly, as due, to all persons supplying to such contractor labor or material for the prosecution of the Work provided for in such contract. (2) Pay all contributions or amounts due the Industrial Accident Fund from such contractor or subcontractor incurred in the performance of the contract. (3) Not permit any lien or claim to be filed or prosecuted against the state, county, school district, municipality, municipal corporation or subdivision thereof, on account of any labor or material furnished. (4) Pay to the Department of Revenue all sums withheld from employees pursuant to ORS 316.167.

21. PAYMENT FOR MEDICAL CARE AND PROVIDING WORKERS' COMPENSATION: The CONTRACTOR shall promptly, as due, make payment to any person, co-partnership, association or corporation, furnishing medical, surgical and hospital care or other needed care and attention, incident to sickness or injury, to the employees of such CONTRACTOR, of all sums which the CONTRACTOR agrees to pay for such services and all moneys and sums which the CONTRACTOR collected or deducted from the wages of employees pursuant to any law, contract or agreement for the purpose of providing or paying for such service. All employers working under this contract are subject employers and must comply with ORS 656.017.

22. PAYMENT OF CLAIMS BY PUBLIC OFFICERS: If the CONTRACTOR fails, neglects or refuses to make prompt payment of any claim for labor or services furnished to the CONTRACTOR or a Subcontractor by any person in connection with the public contract as such claim becomes due, the proper officer or officers representing the DISTRICT may pay such claim to the person furnishing the labor or services and charge the amount of the payment against funds due or to become due the CONTRACTOR by reason of such contract. The payment of a claim in this manner shall not relieve the CONTRACTOR or the CONTRACTOR's surety from obligation with respect to any

unpaid claims.

23. FEDERAL, STATE, AND LOCAL PAYROLL TAXES: Neither federal, nor state, nor local income tax nor payroll tax of any kind shall be collected, withheld or paid by the DISTRICT on behalf of the CONTRACTOR or of employees of the CONTRACTOR. CONTRACTOR shall not be treated as an employee with respect to the services performed hereunder for federal or state tax purposes.

24. PREVAILING WAGE RATES: Each worker in each trade or occupation employed in the performance of this Contract either by the contractor, subcontractor or other person doing or contracting to do contracting for the whole or any part of the Work on the Contract shall be paid not less than the applicable prevailing rate of wage. This provision applies to all contracts, regardless of the price of the individual contract.

a. The existing Oregon prevailing rate of wage in effect at the time the specifications are first advertised for bid solicitations is the applicable rate.

b. The DISTRICT will pay the public works fee to Oregon Bureau of Labor and Industries.

c. Certification of rate or wage by Contractor or Subcontractor (ORS 279C.845):

.1 The contractor or the contractor's surety and every subcontractor or the subcontractor's surety shall file certified statements with the public agency in writing, on a form prescribed by the Commissioner of the Bureau of Labor and Industries, certifying the hourly rate of wage paid each worker whom the contractor or the subcontractor has employed upon the public works, and further certifying that no worker employed upon the public works has been paid less than the higher of the applicable state or federal prevailing rate of wage or less than the minimum hourly rate of wage specified in the contract. The certificate and statement shall be verified by the oath of the contractor or the contractor's surety or subcontractor or the subcontractor's surety that the contractor or subcontractor has read the statement and certificate and knows the contents thereof and that the same is true to the contractor or subcontractor's knowledge. The certified statements shall set out accurately and completely the payroll records for the prior week, including the name and address of each worker, the worker's correct classification, rate of pay, daily and weekly number of hours worked, deductions made, and actual wages paid.

.2 If the Contractor does not file certified payroll as required (at least once per month) the DISTRICT will withhold 25% of the amounts due the Contractor, in addition to any other required retainage.

.3 If a first-tier Subcontractor does not file certified payroll reports as required, the prime Contractor shall withhold 25% of amounts due the first-tier Subcontractor.

.4 Each certified statement required by subsection (1) of this section shall be delivered or mailed by the contractor or subcontractor to the public contracting agency. Certified statements shall be submitted to the public contracting agency once a month by the fifth business day of the following month, for each week workers are employed. Information submitted on certified statements may be used only to ensure compliance with the provisions of ORS 279C.800 to 279C.870.

.5 Each contractor or subcontractor shall preserve the certified statements for a period of three years from the date of completion of the contract.

.6 Certified statements received by a public agency are public records subject to the provisions of ORS 192.410 to 192.505. As such, they must be made available upon request.

d. For every bid $100,000 or greater, all Contractors and Subcontractors shall have a public works bond, in the amount of $30,000, filed with the Construction Contractors' Board (CCB), before starting work on the project, unless exempt.

e. Contractor shall include in every subcontract a provision requiring their Subcontractors to have a public works bond filed with the CCB before starting work on the project, unless exempt. Contractors shall verify that all of their subcontractors have filed a public works bond with the CCB.

25. SUBCONTRACTORS: The CONTRACTOR shall include in any subcontract for property or services entered into by the CONTRACTOR and Subcontractor, including a material supplier, for the purpose of performing a construction contract:

a. A payment clause that obligates the CONTRACTOR to pay the Subcontractor for satisfactory performance under its subcontract within 10 days out of such amounts as are paid to the CONTRACTOR by the DISTRICT under such contract; and
b. An interest penalty clause that obligates the CONTRACTOR to pay to the Subcontractor an interest penalty on amounts due in the case of each payment not made in accordance with the payment clause included in the subcontract pursuant to the above paragraph for the period beginning on the day after the required

Payment date and ending on the date on which payment of the amount due is made; computed at the rate specified in ORS 279C.580.

26. PROJECT CLOSEOUT: When the Work is determined to be complete:

a. Return all keys to DISTRICT Representative.
b. Where warranties are required, submit original warranty certificates and indicate dates of coverage.
c. Submit any operation and maintenance information required by technical specifications.
d. Submit any as-built drawings or other as-built documentation required by technical specifications.
e. Submit AIA Document G707 Consent of Surety Company for final payment.
f. Submit Affidavit of Prevailing Wages Paid (Sample will be furnished at completion of work).
g. Submit Asbestos-Containing Materials Statement (Sample will be furnished at completion of work.)
h. Where a building permit is required, submit documentation of Building Department inspection and acceptance.
i. Final payment will be authorized after all project closeout tasks have been completed and the work is determined to be acceptable by the DISTRICT Project Manager.

27. NON-DISCRIMINATION: The CONTRACTOR, by signing this agreement certifies that the CONTRACTOR has not discriminated against minorities, women or emerging small business enterprises in obtaining any required subcontracts.

The CONTRACTOR agrees not to discriminate against any client, employee or applicant for employment or for services, because of race, color, religion, sex, national origin, physical or mental handicap, sexual orientation or age unless based upon bona fide occupational qualifications, and that they are otherwise in compliance with all federal, state and local laws prohibiting discrimination, with regard to, but not limited to, the following: Employment upgrading, demotion or transfer; Recruitment or recruitment advertising; Layoffs or termination; Rates of pay or other forms of compensation; Selection for training; Rendition of services. It is further understood that any vendor who is in violation of this clause shall be barred forthwith from receiving awards of any purchase order from the School District, unless a satisfactory showing is made that discriminatory practices have terminated and that a recurrence of such acts is unlikely.

28. FOREIGN CONTRACTORS: In the event this Contract is awarded to a contractor not domiciled in or registered to do business in the State of Oregon and the contract price exceeds $10,000.00, the CONTRACTOR shall promptly report to the Department of Revenue the total price, terms of payment, length of contract, and such other information as the Department of Revenue may require before final payment can be received on the public contract. The DISTRICT will satisfy itself that the requirement of this subsection has been complied with before it issues a Final Payment.

29. TERMINATION WITH CAUSE: With reasonable cause, either party may terminate this agreement effective immediately upon the giving of written notice of termination for cause. Reasonable cause shall include:

a. Material violation of this agreement.
b. Any act exposing the other party to liability to others for personal injury or property damage.

30. REMEDIES: In the event of a termination of this contract by the DISTRICT, because of a breach by CONTRACTOR, the DISTRICT may complete the work either by itself or by contract with other persons, or any combination thereof. CONTRACTOR shall be liable to the DISTRICT for any costs or losses incurred by the DISTRICT arising out of or related to the breach, including costs incurred in selecting other CONTRACTORS, time delay losses, attorney fees, and the like, less the remaining unpaid balance of the consideration until DISTRICT's costs and losses have been determined, at which time the DISTRICT may offset any such amount due CONTRACTOR against costs and losses incurred by DISTRICT.

31. TERMINATION OR SUSPENSION OF CONTRACT FOR CONVENIENCE: Any contract may be terminated, or temporarily suspended, by the DISTRICT in the event that the project is permanently abandoned, or deferred, as determined in the sole discretion of the DISTRICT. The DISTRICT may terminate, or suspend, any contract in whole or in part whenever the DISTRICT determines, in its sole discretion, that such action is in the DISTRICT's best interest. Whenever any contract is terminated, or suspended in accordance with this paragraph, the CONTRACTOR shall be entitled to payment for actual work performed at contract prices for completed items of work. An equitable adjustment in any contract price for partially completed items of work will be made, but such adjustment shall not include provisions for loss of anticipated profit on deleted or uncompleted work. For suspended work, the CONTRACTOR will be entitled to five percent (5%) per year of the value of the work suspended, only if ultimately completed, and reasonable re-mobilization costs, if applicable. Termination or suspension of any contract by the DISTRICT at any time during the term for convenience, shall not constitute a breach of any contract by the DISTRICT.

32. ASSIGNMENT: CONTRACTOR shall not assign this contract, in whole or in part, or any right or obligation hereunder, without the DISTRICT's prior written approval.

33. NO AUTHORITY TO BIND CLIENT: CONTRACTOR has no authority to bind or obligate the DISTRICT or to

enter into contracts or agreements on behalf of the DISTRICT. This agreement does not create a partnership, joint venture or agency between the parties.

34. NON-WAIVER: The failure of either party to exercise any of its rights under this agreement for a breach thereof, shall not be deemed to be a waiver of such rights or a waiver of any subsequent breach.

35. NOTICES: Any notice given in connection with this agreement shall be given in writing and shall be delivered either by hand to the signing party or by regular and certified mail to the party at the party's address stated herein.

36. CHOICE OF LAW: Any dispute under this agreement or related to this agreement shall be decided in accordance with the laws of the State of Oregon.

37. ATTORNEY'S FEES: In the event of any action to enforce or interpret this contract, the prevailing party shall be entitled to recover from the losing party reasonable attorney fees incurred in the proceeding, as set by the court, at trial, upon appeal, or upon review.

38. ENTIRE AGREEMENT: This is the entire agreement of the parties, and supersedes any prior agreement.

39. SEVERABILITY: If any part of this agreement shall be held unenforceable, the rest of this agreement will nevertheless remain in full force and effect.

40. AMENDMENTS: This agreement may be supplemented, amended, or revised only in writing by agreement of the parties.

41. CONTRACTOR'S MARK UP FOR CHANGE ORDER WORK: The allowance for the combined overhead and profit included in the total net cost to the DISTRICT shall be based as follows:

a. The maximum allowable hourly wage rate for Changes to the Work shall be the appropriate Base Wage Rate plus Fringe Rate as listed for each occupation in the Prevailing Wage Rate for Public Works Contracts in Oregon manual issued by the Oregon Bureau of Labor and Industries (the current issue in effect on the date the quote is first advertised and/or a quote is first requested); multiplied by 1.20. An amount for Overhead and Profit may be added in accordance with section b through h below.

b. For the Contractor, for work performed by the Contractor, 15 percent of the amount due the Contractor.

c. For the Contractor, for Work performed by the Contractor's Subcontractor, 10 percent of the amount due the Subcontractor.

d. For each Subcontractor or Sub-subcontractor involved, for Work performed by that Subcontractor's or Sub-subcontractor's own forces, 10 percent of the cost.

e. Total overhead and profit shall not exceed 25% of the base cost of the work (base cost being defined as the cost of the work without markups.)

f. Itemize costs to include breakdown for materials and labor, overhead and profit.

g. A change to the work providing a net CREDIT to the Owner shall include a credit for overhead and profit based on the following schedule:

1. For the Contractor, 5 percent of the Cost to be credited.
2. For each Subcontractor, 5 percent of the Cost to be credited.
3. For each Sub-subcontractor, 5 percent of the Cost to be credited.

h. In order to facilitate checking of quotations for extras or credits, all proposals, except those so minor that their propriety can be seen by inspection, shall be accompanied by a complete itemization of costs including Subcontractor and Contractor overhead and profit as applicable.

42. APPLICATION FOR PAYMENT: Submit payment request on invoice customarily used by Contractor. Identify 5% retainage to be carried until the project is determined to be complete.

43. DEBARMENT CERTIFICATION: The contractor/Vendor certifies that the Contractor is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in this Contract by any Federal department or agency. If requested by the Eugene 4J School District, the Contractor shall complete a Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion form. Any such form completed by the Contractor for this Contract shall be incorporated into this Contract by reference.

END OF TERMS AND CONDITIONS

SUMMARY OF WORK

DOCUMENT 01100

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 WORK COVERED BY CONTRACT DOCUMENTS

A. Project Identification: Project generally consists of replacing several pairs of exterior doors, including but not limited to demolition, doors, painting, and finish patching. Electrical scope performed by owner.
   1. Project Location: 1500 Queens Way, Eugene, OR 97401
   2. Owner: Eugene School District 4J, 715 West Fourth Avenue, Eugene, OR 97402.

B. Architect Identification: The Contract Documents were prepared for Project by GMA Architects, 300 West Park Street, Suite 300, Eugene, OR 97401.

C. Project Manager: Bruce Foster has been appointed by Owner to serve as Project Coordinator, phone (541) 912-6224.

1.3 CONTRACT

A. Project will be constructed under a general construction contract.
   1. Construction Contractor Agreement

1.4 WORK SEQUENCE

A. Do not commence Work until after execution of Agreement and receipt of Notice-to-Proceed from Owner. Projected date for work to commence on-site is 20 May 2014.

B. Perform work in order to achieve Substantial Completion by 11 June 2014.

C. Achieve Final Completion within seven (7) days following the date of Substantial Completion.

D. Work shall begin 20 May 2014 with Door Pair No. Nine (9) at North side of Campus. Refer to Drawings.
   1. Contractor shall coordinate installation of first pair of doors with Owner's locksmiths on-site, and shall coordinate installation of all doors with Owner's electricians on-site.

E. Demolition and installation of new door pair shall be completed one at a time. Each door pair shall be fully operational at the end of each working day. Patching work may be performed subsequently.

F. Prior to commencing work, coordinate with Owner to complete wiring work in sequence.

1.5 USE OF PREMISES

A. Work Area Access: Buildings will be occupied during work. Access to the work area will be available on a week-day basis from approximately 7:00 am to 4:00 pm. Coordinate all other work hour schedules with Owner so as not to interfere with Owner's use of the building.
   1. Work Area Schedule: Within two (2) days of receipt of Notice-to-Proceed, submit proposed work schedule indicating location and sequence of work at each door pair for Owner coordination.
      a. Proposed date to complete Work at Door Pair No. One (1) must be approved by Buena Vista ES Staff prior to commencing.

B. Limit use of the premises to construction activities in areas indicated; allow for Owner occupancy and use by the public, subject to approval by a District Safety Specialist.

C. Site Access: Maintain drives and building entrances and exits clear and protected at all times to Owner's, employees, and public access and for use by emergency personnel. Do not use these areas for parking or storage. Schedule deliveries to minimize space and time requirements for storage of materials at site.

D. Parking: Contractor may use existing parking areas as indicated on Drawings.

E. Contractor Staging Areas: Limit staging to areas indicated on Drawings.

F. Construction Operations: Limited to areas indicated on Drawings.

1.6 WORK UNDER SEPERATE CONTRACTS

A. Separate Contract: Owner may award a separate contract for performance of certain construction operations at Project site. Those operations will be conducted simultaneously with work under this Contract.

B. Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under this Contract.

1.7 OWNER-FURNISHED PRODUCTS

A. Owner will furnish doors & hardware as noted in drawings.
   1. Contractor shall arrange and pay for delivery of Owner-furnished items to Site. Items are currently stored at Facilities Management Offices at 715 W. 4th Avenue.
   2. Owner will inspect furnished items for damage. Contractor shall be present for and assist in Owner's inspection.
   3. If Owner-furnished items are damaged, defective, or missing, Owner will arrange for replacement.
   4. Contractor shall review Shop Drawings, Product Data, and Samples and return them to Architect noting discrepancies or anticipated problems in use of product.
   5. Contractor is responsible for receiving, unloading, and handling Owner-furnished items at Project site.
   6. Contractor is responsible for protecting Owner-furnished items from damage during storage and handling, including damage from exposure to the elements.

7. If Owner-furnished items are damaged as a result of Contractor's operations, Contractor shall repair or replace them.

1.8 MISCELLANEOUS PROVISIONS

A. DRUG AND ALCOHOL POLICY

1. The possession, use, or distribution of illicit drugs and alcohol on school premises is prohibited. Prescription medications brought to the project site shall be in the original container bearing the name of the drug, the name of the physician and the prescribed dosage.

B. USE OF TOBACCO PRODUCTS

1. Smoking and the other use of tobacco products is prohibited on all school district property pursuant to OAR 581-021-0110.

C. SAFETY REQUIREMENTS

1. Safety must not be sacrificed for the sake of productivity or expedience. Safety of students, staff, and the public is critical. Take all reasonable precautions to prevent endangerment or injury. Advise and coordinate operations with the school office.
2. All contractors who perform work on District property, and their employees, are expected to know the District's expectations for safe work and to adhere to those expectations.
3. Contractors are to adhere to the regulations of Oregon OSHA for all projects within the School District.

D. GENERAL SAFE WORK PRACTICES

1. Students, public and school staff shall not be put at risk by the activities of contractors or their employees.
2. Safe vehicle operation rules are to be followed at all times. These include positioning vehicles to minimize the necessity of backing and providing a "spotter", someone who will make sure that people do not run into the path of a vehicle when driving on a playground or field that is occupied by students.
3. Tools shall never be left out when an unsecured work area is vacated.
4. Ladders and scaffolding will be taken down when an unsecured work area is vacated.
5. Open holes and other tripping hazards shall be fenced or barricaded when an unsecured work area is vacated.
6. Operations resulting in vapors, emissions or flying objects shall be conducted in such a way as to prevent exposure to any unprotected parties or property.
7. "Secured Work Area" is defined as an area having a perimeter cyclone fence at least 6 feet in height, with gates which close and lock so that no casual entrance is possible by unauthorized adults or children.
8. Contractor to follow all OR-OSHA rules for Confined Spaces, where applicable.

E. COMMUNICATIONS REGARDING UNSAFE PRACTICES

1. Upon perceiving a problem, the District will immediately communicate the concern to the Contractor or Contractor's representative on the work site.
2. If agreement on correction of unsafe conditions cannot be reached, the concerns of the District shall prevail and safety concerns shall be addressed in accordance with the District requirements.

F. ELECTRICAL PANELS - LOCKOUT/TAGOUT

1. Contractor shall implement a Lockout/Tag-out program for its employees who take equipment out of service or place equipment back into service. Contractor shall review the District's Energy Control Program prior to commencing work. Rules applying to this procedure art Oregon Occupational Safety and Health Code OAR 437, Division 2, Subdivision J, General Environmental Controls Lockout/Tag-out (1919.147), or latest edition.

G. POTENTIALLY HAZARDOUS PRODUCTS

1. The District attempts to maintain a safe and healthy environment for students and staff. The Contractor is therefore required to follow District guidelines controlling the use of potentially hazardous products and to use these products in a safe manner. Guidelines include the use of materials (adhesives, coatings, carpeting, etc.) which are known to emit little or no airborne pollutants.
2. MSDS information is required for all potentially hazardous products. The Project Manager and a District Safety Specialist will review these and determine what, if any, mitigation procedures will be required.
3. Contractor is to maintain and post copies of all MSDS information at the project site and adhere to the required controls.
4. Contractor is to ensure that work area by students and teachers is restricted. The District will provide signage appropriate for this purpose. The Contractor is to construct and maintain appropriate barriers. This shall include provision of physical separation barriers between "construction" and "occupied" spaces.
5. Contractor to adopt means of maintaining the construction space in negative air pressure in relation to occupied spaces.
6. Where there is a new or existing ventilation system in an affected space, the system shall be adjusted to provide the maximum amount of outside air possible with the system.
7. Efforts shall be made to install and operate new ventilation systems as soon in the construction process as practical.

H. ASBESTOS CONTAINING MATERIALS WARNING

1. Asbestos containing materials are known to exist in areas of the Work. The Contractor shall not, in any way, disturb materials which are known to contain asbestos, assumed to contain asbestos, or otherwise have not been tested and confirmed to be asbestos free.
2. Where access to concealed spaces is required, or it is necessary to disturb building materials such as for drilling of holes, cutting, etc., notify the Owner so that proper investigation and/or removal procedures are followed.
3. Prior to commencing Work, the Contractor shall meet with the District Safety Specialist and review the Owner's Asbestos Management Plan for the locations of asbestos-containing materials and/or materials assumed to contain asbestos. After reviewing the Owner's Asbestos Management Plan, the Contractor is required to sign Form 01100A, Asbestos-containing Materials Notification Statement, provided at the end of this Section.
4. Contractor must not install any asbestos-containing materials when performing the Work of this project. At the completion of the Work, Contractor will be required to furnish a statement stating that no asbestos-containing materials were installed during the course of the Work. Refer to Sample Form 01100B at the end of this Section

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

PART 4 - SCHEDULE OF PRODUCTS ORDERED IN ADVANCE (Not Used)

PART 5 - ASBESTOS FORMS

DOCUMENT 01100

Form 01100A

ASBESTOS-CONTAINING MATERIALS NOTIFICATION STATEMENT FOR CONTRACTORS

This form must be completed and signed by the Contractor prior to beginning work in any Eugene School District 4J building.

The presence of known and assumed asbestos containing materials is documented in the AHERA Management Plan for each building. Copies of the AHERA Management Plan are available in the main office of each building and in the Facilities Management Office at 715 West Fourth Avenue, Eugene, Oregon. The District Asbestos Specialist must be informed of the Contractor's activities in each building prior to the start of work so that the Contractor can be informed on how to use the AHERA Management Plan and to determine if any asbestos-containing materials are likely to be impacted by the work of the Contractor.

The Contractor is responsible for notifying all employees and subcontractors of the presence of asbestos in the building. The Contractor shall not disturb known or assumed asbestos-containing materials. If the Contractor discovers suspected asbestos-containing materials that have not been identified, the Contractor must stop any work impacting the suspected materials and notify the District Asbestos Specialist so that the material can be sampled. Any asbestos-containing materials that must be removed to allow the Contractor to complete the Contractor's work will be removed by the District under separate contract. If the Contractor disturbs asbestos-containing materials, the Contractor will be responsible for the cost of the cleanup and decontamination..

I _____, Representing _____,
(Print Name of Representative) (Business Name)

have been notified of the location of the AHERA Management Plan and agree to avoid impacting all known or assumed asbestos-containing materials in the performance of the Work.

_____ _____
Signature of Representative Date

_____ _____
Work Site CIP #

Form 01100B

The Environmental Protection Agency (AHERA) rules require the School District obtain a signed statement from the Site Superintendent that, to the best of his/her knowledge, no asbestos-containing building materials were installed during the Work. Therefore, the following statement must be submitted on the Contractors letterhead prior to Project Closeout.

SAMPLE FORM

(To be submitted on the Contractor's letterhead)

ASBESTOS-CONTAINING MATERIALS STATEMENT

EUGENE SCHOOL DISTRICT 4J

_____

(Name of Project and CIP Number)

We the undersigned, (Name of Company), hereby warrant that to the best of our knowledge all materials furnished for the above referenced project contain 0% asbestos.

_____

(Name of Construction Company)

_____

(Signature and Date)

_____

Printed Name

_____

Job Title

END SUMMARY OF WORK

CUTTING AND PATCHING

SECTION 01 73 29

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes procedural requirements for cutting and patching.

1.2 DEFINITIONS

A. Cutting: Removal of in-place construction necessary to permit installation or performance of other Work.

B. Patching: Fitting and repair work required to restore surfaces to original conditions after installation of other Work.

1.3 SUBMITTALS

A. Cutting and Patching Proposal: Submit written request describing procedures prior to time cutting and patching will be performed, requesting approval to proceed, for cutting or alteration which affects:
1. Structural integrity of any element of Project.
2. Integrity of weather-exposed or moisture-resistant element.
3. Efficiency, maintenance, or safety of any operational element.
4. Visual qualities of site-exposed elements.
5. Work of Owner or separate contractor.

B. Include:
1. Identification of Project and CIP number
2. Location and description of the affected Work.
3. Necessity for cutting or alteration.
4. Description of proposed Work and Products to be used.
5. Alternatives to cutting and patching.
6. Effect on work of Owner or separate contractor.
7. Written permission of affected separate contractor, if any.
8. Date and time work will be executed.

1.4 QUALITY ASSURANCE

A. Structural Elements: Do not cut and patch structural elements in manner that could change their load-carrying capacity or load-deflection ratio.

1. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety.
2. Miscellaneous Elements: Do not cut and patch miscellaneous elements or related components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety**.**

B. Visual Requirements: Do not cut and patch construction in manner that results in visual evidence of cutting and patching. Do not cut and patch construction exposed on exterior or in occupied spaces in manner that would, in Architect's opinion, reduce building's aesthetic qualities. Remove and replace construction that has been cut and patched in visually unsatisfactory manner.

PART 2 - PRODUCTS

2.1 MATERIALS

A. General: Comply with requirements specified in other Sections.

B. In-Place Materials: Use materials identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.

1. If identical materials are unavailable or cannot be used, use materials that, when installed, will match visual and functional performance of in-place materials.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine surfaces to be cut and patched and conditions under which cutting and patching are to be performed.

1. Compatibility: Before patching, verify compatibility with and suitability of substrates, including compatibility with in-place finishes or primers.
2. Proceed with installation only after unsafe or unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Temporary Support: Provide temporary support of Work to be cut.

B. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.

C. Adjoining Areas: Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.

D. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to minimize interruption to occupied areas.

3.3 PERFORMANCE

A. General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at earliest feasible time, and complete without delay.

1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.

B. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction.

1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots as small as possible, neatly to size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
2. Finished Surfaces: Cut or drill from exposed or finished side into concealed surfaces.
3. Concrete or Masonry: Use cutting machine, such as abrasive saw or diamond-core drill.

4. Excavating and Backfilling: Comply with requirements in applicable Division 2 Sections where required by cutting and patching operations.
5. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.

C. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other Work. Patch with durable seams that are as invisible as possible. Provide materials and comply with installation requirements specified in other Sections.

1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate integrity of installation.
2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.
   a. Clean piping, conduit, and similar features before applying paint or other finishing materials.
   b. Restore damaged pipe covering to its original condition.
3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in new space. Provide even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
   a. Where patching occurs in painted surface, apply primer and intermediate paint coats over patch and apply final paint coat over entire unbroken surface containing patch. Provide additional coats until patch blends with adjacent surfaces.
4. Exterior Building Enclosure: Patch components in manner that restores enclosure to weather-tight condition.

D. Cleaning: Clean areas and spaces where cutting and patching are performed. Completely remove paint, mortar, oils, putty, and similar materials.

END OF SECTION

DEMOLITION

SECTION 02 41 00

PART 1 – GENERAL

1.1 SECTION INCLUDES

A. Perform demolition Work as shown on drawings and specified herein.

1.2 QUALITY ASSURANCE

A. REGULATORY REQUIREMENTS:
   1. Comply with requirements of safety codes and other applicable codes, rules and regulations.
   2. Do not close or obstruct site roadways or sidewalks.
   3. Maintain egress and access to building and rooms. Do not close or obstruct exit paths. Conduct operations with minimum interference to corridors, exits and public thoroughfares.

PART 2 – PRODUCTS

Not used.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Inspect and verify existing conditions and become familiar with extent of Work.

B. Examine site to determine proper access within limitations of contract. Conduct operations so as not to interfere with adjacent public streets, driveways, walks and buildings.

C. Coordinate disconnection, removal, or capping of electric utilities with Owner.

3.2 PREPARATION

A. INTERFACE WITH OTHER WORK: Coordinate extent of demolition Work with limits of new work and existing work to remain, and with specific demolition and modification requirements shown and noted on Drawings.

B. PROTECTION
   1. Protect existing materials, appurtenances and equipment not scheduled for demolition.
   2. Repair or replace improvements damaged during demolition work
   3. Maintain path of travel for debris removal free of dust and clean at all times.
   4. Provide temporary filter covers over return air registers during course of Work. Maintain ventilation system dust-free at all times.
   5. Protect thermostats, smoke alarms, timers from damage and dust intrusion.
   6. Maintain parking areas, driveways, exterior walkways and exit paths in clean, undisturbed condition.
   7. Remove debris caused by work on daily basis.
   8. Maintain interior walk-off mats at transitions to general building areas.

3.3 DEMOLITION

A. Conduct demolition to minimize interference with adjacent and occupied building areas, materials and equipment.

B. Remove indicated materials, appurtenances and equipment in orderly manner. Perform cutting of surfaces minimizing amount of new material required. Make concrete cuts as necessary to provide proper bonding to receive new work.

C. If unanticipated mechanical, electrical or structural elements are encountered, investigate and report nature and extent of conflict to Architect.

D. Take special care and precautions to abate dust.

3.4 DISPOSAL AND CLEANUP

A. Unsalvaged material removed under this contract becomes property of contractor; promptly remove from site. Do not accumulate debris on-site. Maximize reuse or recycling of appropriate materials.

B. Except where indicated otherwise, immediately remove demolished material from site. Dispose of materials in legal fashion.

C. Upon completion, clean entire area of demolition for continuation of work.

END OF SECTION

STEEL DOORS

SECTION 08 11 00

PART 1 – GENERAL

1.1 SECTION INCLUDES

A. Steel doors.

1.2 RELATED SECTIONS

A. Section 01100 – Summary of Work

B. Section 08 71 00 – Hardware.

C. Section 08 80 00 – Glazing

D. Section 09 90 00 – Painting.

1.3 REFERENCES

A. Steel doors shall comply with or exceed standards listed. Latest published edition of each reference applies.

1. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
2. ASTM E 90 - Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions.
3. ASTM E 413 - Classification for Rating Sound Insulation.
4. ANSI/DHI A115 - Specifications for Hardware Preparations in Standard Steel Doors and Frames.
5. ANSI A156.7 - Hinge Template Dimensions.
6. ANSI A 250.3 - Test Procedure and Acceptance Criteria for Factory Applied Finish Painted Steel Surfaces for Steel Doors and Frames.
7. ANSI A250.4 – Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors and Hardware Reinforcing.
8. ANSI A 250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames.
9. ANSI A 250.11 – Recommended Erection Instructions for Steel Frames.
10. SDI 105 - Recommended Erection Instructions for Steel frames.
11. SDI 112 - Zinc-Coated (Galvanized/Galvannealed) Standard Steel Doors and Frames.
12. SDI 117 - Manufacturing Tolerances for Standard Steel Doors and Frames.
13. SDI 118 - Basic Fire Door Requirements.
14. NFPA 80 - Standard for Fire Doors and Other Opening Protectives.
15. NFPA 105 - Standard for the Installation of Smoke Door Assemblies and Other Opening Protectives
16. NFPA 252 – Standard Method of Fire Tests of Door Assemblies
17. ANSI/UL 10C - Standard for Safety for Positive Pressure Fire Tests of Door Assemblies
18. UL 1784 - Air Leakage Tests of Door Assemblies
19. UL - Building Materials Directory; Underwriters Laboratories Inc
20. WH - Certification Listings; Warnock Hersey International Inc.
21. State and Local codes including Authority Having Jurisdiction

1.4 SUBMITTALS

A. Refer to Product Data at end of Project Manual for identification of Owner-furnished items. Contractor shall add information as required for Contractor provided items and for

installation. Include manufacturer's names and identification of product. Include catalog cuts and/or technical data sheets and other pertinent data as required to indicate compliance with specifications.

1. Shop Drawings: submit complete and detailed with respect to quantities, dimensions, specified performance, and design criteria, materials and similar data to enable Architect to review information as required.

B. Indicate configuration, anchor types and spacing, location of cutouts for hardware, reinforcement, to ensure doors and frames are properly prepared and coordinated to receive hardware.

C. Indicate door elevations, reinforcement, closure method, and cutouts for glass lights.

D. Submit in digital (PDF) format to Architect.

E. Stamp submittals with Contractor's stamp verifying they have been coordinated and reviewed for completeness and compliance with the contract documents.

F. Submittals without above requirements will be considered incomplete, will NOT be reviewed, and will be returned.

1.5 QUALITY ASSURANCE

A. Certification of label construction: For components exceeding Underwriters Laboratories, Inc. (UL), furnish inspection certificate stating that component construction conforms to UL rating requirements only if Architect is aware of limitation and has allowed the non-labeled unit.

B. Conform to applicable codes for fire ratings. Door hardware and its application shall comply or exceed standards for labeled openings. In case of conflicts in required fire protection ratings, provide fire ratings as required by NFPA and UL.

1.6 DELIVERY, STORAGE AND HANDLING

A. Deliver, Store, and Handle Doors in accordance with Section 01100

B. Doors shall be stored off site. Deliver to site only those doors that are to be installed that day.

C. Store doors in dry, secure location.

1. Place units on wood blocking.
2. Avoid use of non-vented plastic or canvas shelters
3. Remove wet cardboard packaging materials immediately.
4. Provide ¼ inch air circulation space between stacked doors.

1.7 SEQUENCING AND COORDINATION

A. Coordinate delivery of supplies in timely manner with owner.

B. Coordinate with trades affected by work.

C. Verify field dimensions prior to fabrication. Notify Architect of any conflicts.

PART 2 - PRODUCTS

2.1 DOORS

A. Cold-rolled steel, A 1008, 16 gage cold rolled or galvannealed steel.

B. Factory primed door for new paint system.

C. Hardware reinforcements:
1. Hinge reinforcements for full mortise hinges: minimum 7 gage [0.180"].
2. Lock reinforcements: minimum 16 gage [0.053"].
3. Closer reinforcements: minimum 14 gage [0.067"], 20” long.
4. Galvannealed doors: include galvannealed hardware reinforcements.
5. Projection welded hinge and lock reinforcements to edge of door.
6. Provided adequate reinforcements for other hardware as required.

D. Full Flush Type, Insulated doors

1. ANSI-A250.4 criteria and tested to 5,000,000 operating cycles.

E. Doors are owner furnished, See Door Schedule. Coordinate with Owner to acquire doors prior to painting and installation.

PART 3 - EXECUTION

3.1 DOOR INSTALLATION

A. Install hollow metal doors in existing frames using hardware specified in Section 08 71 00 Door Hardware. Refer also to Door Schdule.

B. Clearances at edge of doors:
1. Between door and frame at head and jambs: 1/8 inch (3.2).
2. At meeting edges pairs of doors and at mullions: 1/8 inch (3.2).
3. At transom panels, without transom bars: 1/8 inch (3.2).
4. At sills without thresholds: 5/8 inch (15.9) maximum above finish floor.
5. At sills with thresholds: 1/8 inch (3.2) above threshold.

3.2 ADJUSTMENT AND CLEANING

A. Remove dirt and excess sealants, mortar or glazing compounds from exposed surfaces.

B. Adjust moving parts for smooth operation. Use shims if necessary for proper closing.

C. Fill dents, holes, and sand smooth to flush with adjacent surfaces - Reprime and finish paint to match finish.

END OF SECTION

DOOR HARDWARE

SECTION 08 71 00

PART 1 – GENERAL

1.1 SECTION INCLUDES

A. Hardware for steel doors.

B. Thresholds.

C. Weatherstripping, seals and door gaskets.

1. 2 RELATED SECTIONS

A. Section 08 10 00 – Steel Doors.

1.2 REFERENCES

A. ADA - Americans with Disabilities Act, Accessibility Guidelines for Buildings and Facilities.

B. NFPA 80 - Fire Doors and Windows.

C. NWWDA Industry - Quality Standards.

D. NFPA 101 - Code for Safety to Life from Fire in Buildings and Structures.

E. NFPA 252 - Fire Tests of Door Assemblies.

F. UL l0B - Fire Tests of Door Assemblies.

G. UL 305 - Panic Hardware.

1.3 SUBMITTALS

A. Submit in digital (PDF) format to Architect following Contractor's review for coordination and compliance with Contract Documents. Mark with approval stamp prior to submitting to Architect.

B. Refer to Product Data at end of Project Manual for identification of Owner-furnished items. Contractor shall add information as required for Contractor provided items and for installation. Include manufacturer's names and identification of product. Include catalog cuts and/or technical data sheets and other pertinent data as required to indicate compliance with specifications.

1. Shop Drawings: submit complete and detailed with respect to quantities, dimensions, specified performance, and design criteria, materials and similar data to enable Architect to review information as required.
    a. Indicate locations and mounting heights of each type of hardware, including Owner-furnished items.

C. Product Data: Submit manufacturer's product data sheets for contractor furnished hardware.

1.4 QUALITY ASSURANCE

A. Perform work in accordance with the following requirements:

1. ADA - Accessibility Guidelines for Buildings and Facilities.

2. NFPA 101, 80 and 252.

1.5 QUALIFICATIONS

A. Manufacturer: Company specializing in manufacturing Products specified with minimum three years documented experience.

B. Hardware Supplier: Company specializing in supplying commercial door hardware with three years documented experience.

C. Hardware Supplier Personnel: Employ an Architectural Hardware Consultant (AHC) to assist in the work of this section.

1.6 REGULATORY REQUIREMENTS

A. Conform to applicable code for requirements applicable to fire rated doors and frames.

B. Products Requiring Electrical Connection: Listed and classified by Underwriters' Laboratories, Inc., as suitable for the purpose specified and indicated.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft. Comply with manufacturer's written instructions.

B. Package hardware items individually; label and identify each package with door opening code to match hardware schedule.

1.8 COORDINATION

A. Coordinate work with owner's locksmith and electrician.

B. Coordinate the work with other directly affected sections involving manufacture or fabrication of internal reinforcement for door hardware.

1.9 MAINTENANCE MATERIALS

A. Provide special wrenches and tools applicable to each different or special hardware component.

B. Provide maintenance tools and accessories supplied by hardware component manufacturer

PART 2 – PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. See Door Schedule.

2.2 KEYING

A. Keying by Owner.

2.3 ELECTRICAL CHARACTERISTICS AND COMPONENTS

A. Coordinate with Owner.

2.4 FINISHES

A. Finishes: See Door Schedule.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify that doors and frames are ready to receive work and dimensions are as indicated on shop drawings.

B. Do not proceed with installation of work until unacceptable conditions are corrected.

3.2 INSTALLATION

A. Install hardware in accordance with manufacturer's instructions and recommendations for installing products in applications indicated. Bring any conflicts to Architect for review.

B. Adjust and reinforce attachment substrates as necessary for proper installation and operation.

C. Use templates provided by hardware item manufacturer.

D. Drill & Tap new hardware. Do not use self-drilling fasteners.

E. Mounting heights for hardware from finished floor to center line of hardware item:

1. Locksets: 40-5/16 inches.
2. Push/Pulls: 45 inches.
3. Dead Locks: 48 inches.
4. Exit Devices: 40-5/16 inches.

3.3 ADJUSTING AND CLEANING

A. Clean exposed finishes to a dirt-free condition, free of stains, films, and similar foreign substances.

B. Touch-up and otherwise repair and restore marred, exposed finishes and surfaces. Replace finishes and surfaces that cannot be satisfactorily repaired or restored.

C. Adjust hardware for proper operation without binding.

3.4 PROTECTION AND CORRECTION WORK

A. Repair or remove and replace defective construction. Restore damaged substrates and finishes.

1. Repairing includes replacing defective parts, refinishing damaged surfaces, touching-up with matching materials, and properly adjusting equipment and hardware.

B. Repair components that do not operate properly. Remove and replace operating components that cannot be repaired.

C. Protect finished Work during construction.

END OF SECTION

GLAZING

SECTION 08 80 00

PART 1 – GENERAL

1.1 SECTION INCLUDES

A. New tempered insulated units for installation in OFCI lite kits.

B. Glazing compounds and accessories.

1.2 RELATED SECTIONS

A. Section01100 Summary of Work

B. Section 08 71 00 - Door Hardware.

C. Section 09 90 00 – Painting and Coating

1.3 REFERENCES

A. ASTM C 864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers; 1999.

B. ASTM C 1036 - C85 Standard Specification for Flat Glass; 1991 (Re-approved 1997).

C. ASTM C 1048088

D. ASTM F 1300 - Standard Practice for Determining Load Resistance of Glass in Buildings; 1998.

E. ANSI Z.97.1 Safety Glazing Impact Standards.

F. FS DD-G-1403 - Glass, Plate (Float), Sheet, Figured, and Spandrel (Heat Strengthened and Fully Tempered).

G. Uniform Building Code, Standard 24-2, Category 2 for safety glazing.

H. UL (Underwriters' Laboratories) 972 - Burglary Resistant Glazing.

1.4 PERFORMANCE REQUIREMENTS

A. Provide glass and glazing materials for continuity of building enclosure and air barrier

B. Select type and thickness of exterior glass to withstand dead loads and wind loads acting normal to plane of glass at design pressures calculated in accordance with Oregon Structural Specialty code.

1. Use procedure specified in ASTM F 1300 to determine glass type and thickness.
2. Limit glass deflection to 1/200 or flexure limit of glass, whichever is less, with full recovery of glazing materials.
3. Design to resist seismic forces in OSSC Zone 3.
4. Thickness shall be as per opening loading and safety requirements and safety standards, but shall be no less than 1/8 inch.

1.5 SUBMITTALS

A. Submit in digital (PDF) format to Architect following Contractor’s review for coordination and compliance with Contract Documents. Mark with approval stamp prior to submitting to Architect..

B. Product Data: Submit manufacturer’s product data for specified products.

C. Warranty: Submit manufacturer's standard warranty. Include labor and materials to repair or replace defective materials.

1. Insulating Glass: Manufacturer's 10-year warranty.

1.6 QUALITY ASSURANCE

A. Perform Work in accordance with GANA Glazing Manual and FGMA Sealant Manual for glazing installation methods.

B. Installer Qualifications: Company specializing in performing the work of this section with minimum ten years documented experience.

1.7 ENVIRONMENTAL REQUIREMENTS

A. Do not install glazing when ambient temperature is less than 50^{O} F.

B. Maintain minimum ambient temperature before, during and 24 hours after installation of glazing compounds.

PART 2 – PRODUCTS

2.1 BASIS OF DESIGN

A. Glass product selections are based upon primary glass manufacturer below. Provide basis of design product or comparable product of listed manufacturer approved

1. PPG Industries, Inc, Pittsburgh, PA

2.2 INSULATED GLASS

A. Solar Control Low-E Clear Insulating-Glass Units PPG Industries, Inc., Solarban 60, or approved

2.3 GLAZING ACCESSORIES

A. Setting Blocks: Neoprene, 80 to 90 Shore A durometer hardness, ASTM C 864 Option I Length of 0.1 inch for each square foot of glazing or minimum 4 inch x width of glazing rabbet space minus 1/16 inch x height to suit glazing method and pane weight and area.

B. Spacer Shims: Neoprene, 50 to 60 Shore A durometer hardness, ASTM C 864 Option I. Minimum 3 inch long x one half the height of the glazing stop x thickness to suit application, self adhesive on one face.

C. Glazing Tape: Preformed butyl compound with integral resilient tube spacing device; 10 to 15 Shore A durometer hardness; coiled on release paper; black color.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify that openings for glazing are correctly sized and within tolerance.

B. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement; weeps are clear, and ready to receive glazing.

3.2 PREPARATION

A. Clean contact surfaces with solvent.

B. Seal porous glazing channels or recesses with substrate compatible primer or sealer.

C. Prime surfaces scheduled to receive sealant.

D. Install sealant in accordance with manufacturer's instructions.

3.3 CLEANING

A. Remove glazing materials from finish surfaces.

B. Wash, polish and protect new glass supplied under this section.

C. Remove labels after Work is complete.

D. Clean glass and adjacent surfaces.

E. Repair or replace damaged or defective units.

END OF SECTION

PAINTING AND COATING

SECTION 09 90 00

PART 1 – GENERAL

1.1 SECTION INCLUDES

A. Paint and coatings systems.

1.2 REFERENCES

A. SSPC-SP 1 - Solvent Cleaning.

B. SSPC-SP 2 - Hand Tool Cleaning.

C. SSPC-SP 3 - Power Tool Cleaning.

D. EPA-Method 24.

E. GS-11, GC-03.

F. LEED®-NC USGBC version 2.2.

1.3 SUBMITTALS

A. Submit product data in digital (PDF) format to Architect following Contractor's review for coordination and compliance with Contract Documents. Mark with approval stamp prior to submitting to Architect.

B. Product Data: Manufacturer's data sheets on each paint and coating product indicating:

1. Product characteristics
2. Surface preparation instructions and recommendations
3. Primer requirements and finish specification
4. Storage and handling requirements and recommendations
5. Application methods

C. Drawdowns: Submit four (4) painted samples of each color and sheen specified on card stock paper 8 x 10 inches for Architect's review.

1. Final coats must match approved samples.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver manufacturer's unopened containers to the work site. Packaging shall bear manufacturer's name and product label.

B. Storage: Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction. Store materials in an area that is within the acceptable temperature range, per manufacturer's instructions. Protect from freezing.

C. Handling: Maintain clean, dry storage area, to prevent contamination or damage to coatings.

1.5 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not apply coatings under environmental conditions outside manufacturer's absolute limits.

PART 2 – PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Approved manufacturer's indicated under paint systems.

2.2 PAINT SYSTEMS

A. General System Description:
   1. Acceptable Manufacturers: Sherwin-Williams, ICI, or Rodda as noted below, or approved, unless otherwise noted. SW products noted as standard of quality.
   2. Primer Coat (previously uncoated surfaces):
      a. Wood: Exterior Latex Wood Primer.
      b. Masonry and Concrete: Loxon Concrete and Masonry Primer.
      c. Ferrous Metal: Pro Industrial Pro-Cryl Universal Metal Primer.
      d. Typical film thickness: per manufacturer's instructions and recommendations.
   3. 1st and 2nd Coats:
      a. Wood: A-100 Exterior Latex, <50 g/L VOC.
      b. Masonry and Concrete: A-100 Exterior Latex, <50 g/L VOC.
      c. Ferrous Metal: Pro Industrial Zero VOC Acrylic.
      d. Typical film thickness: per manufacturer's instructions and recommendations.
   4. Installed systems shall match existing in color, texture, and sheen.

B. Paint Schedule:
   1. PS -1: "Blue"
      a. Manufacturer: Sherwin Williams, or approved.
      b. Color: Regatta Blue, #517
      c. Finish: Semi-gloss
   2. PS-2: "White"
      a. Manufactures: ICI or Rodda.
      b. Color: Restful White, ICI # W04-1197 / RODDA # WE-06-23046
      c. Finish: Semi-gloss
   3. PS-3: "Green"
      a. Manufactures: Rodda
      b. Color: Ivy, # WE-06-22742
      c. Finish: Semi-gloss

2.2 ACCESSORIES

A. Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials required, per manufacturer's specifications.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Apply coatings after substrates have been properly prepared.

B. If substrate preparation is responsibility of another installer, notify General Contractor of unsatisfactory preparation before proceeding.

C. Proceed with work only after conditions have been corrected. Commencement of work means acceptance of surface conditions.

3.2 SURFACE PREPARATION

A. Remove oil, dust, dirt, loose rust, peeling paint or other contamination to ensure good - adhesion.

B. Sand and prepare existing surfaces and between new coats as recommended by paint system manufacturer.

3.3 INSTALLATION

A. Apply coatings and materials according to manufacturer's specifications. Mix and thin coatings according to manufacturer's recommendations.
   1. Paint doors and lite kits offsite prior to delivery and installation.

B. Do not apply to wet or damp surfaces.

C. Apply coatings using methods recommended by manufacturer.

D. Uniformly apply coatings without runs, drips, or sags, without brush marks, and with consistent sheen.

E. Apply coatings at spreading rate required to achieve the manufacturer's recommended dry film thickness.

3.4 PROTECTION

A Protect finished work from damage until completion of project.

END OF SECTION

PRODUCT DATA

Owner-Furnished Doors and Hardware

CUSTOMER: School Dist. #4J
ADDRESS:
PHONE: CONTACT:

JOB: Meadowlark Security Doors
ADDRESS:
PHONE: 541-729-7079 CONTACT: Terry

E & S HARDWARE & SUPPLY INC. • 360-B SHELLEY STREET • SPRINGFIELD, OR 97477 • (541) 747-1773

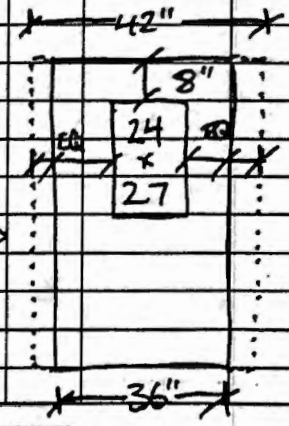
PRODUCTION ORDER / PACKING LIST

NUMBER: 5750

DATE: 01-27-14 DATE NEEDED: ASAP

QUANTITY	HAND	DEPTH	WIDTH	HEIGHT	ANCHOR	LABEL	CLOSER	STRIKE	KD / WLD	DOOR TYPE	SPECIAL INSTRUCTIONS
6ea	RHR	1¾	3°	7°						Insulated HM Doors IU 16CRS 3070 C1/PR1 RHR DR# 01, 03, 09, 17, 30, + 34	
6ea	LHR	1¾	3°	7°						Insulated HM Doors IU 16CRS 3070 C1/PR1 LHR DR# 01, 03, 09, 17, 30 + 34	
1ea	RHR	1¾	3°	7°						Insulated HM Doors IU 16CRS 3670 C1/PR1 RHR DR# 04	
1ea	LHR	1¾	3°	7°						Insulated HM Doors IU 16CRS 3670 C1/PR1 LHR DR# 04	

PREP ALL DOORS FOR HALF-LITES 24 x 27, 8" DOWN & CENTERED



FINISH HARDWARE

QUANTITY	DESCRIPTION
42ea	Heavy Weight Hinge T4A3786 5" x 4½" NRP, 652
14ea	LCN Door Closers 4040XP-H CUSH, Alum. 7ea RH, 7ea LH
14ea	Litelcite VLF-EZ-TG 24" x 27" x 1" Glass Bronze

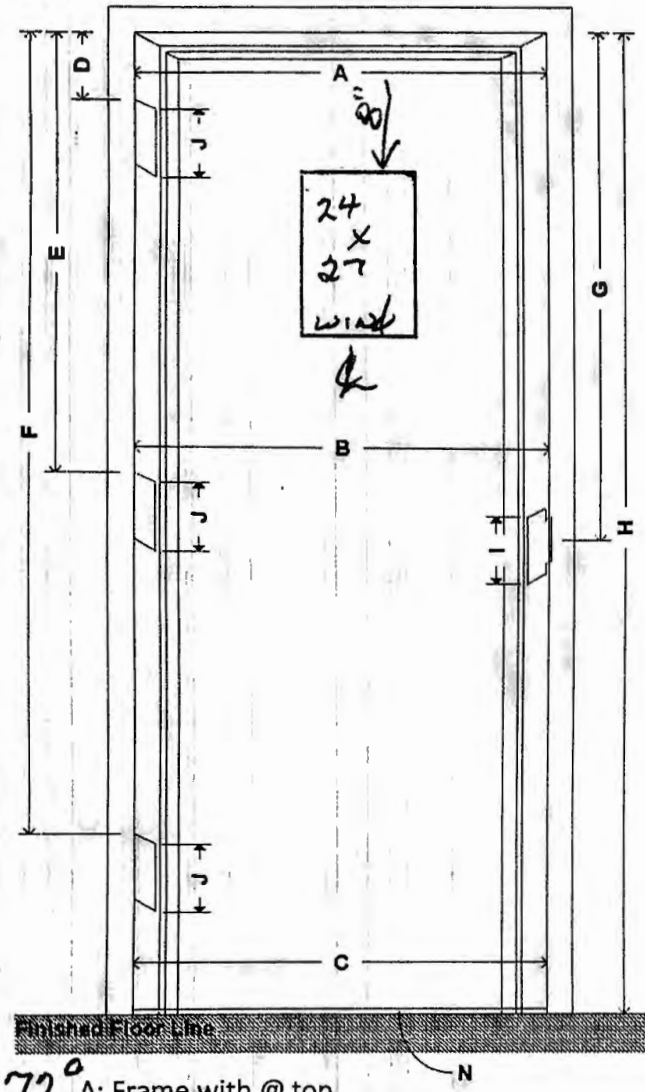
ALL OTHER HARDWARE BY OWNER.

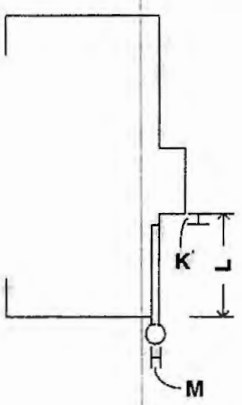
JOB#14-300335

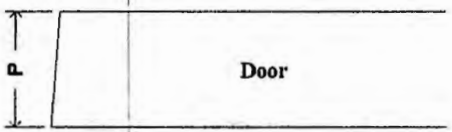
4004

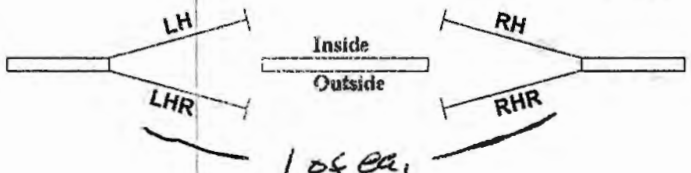
FILLED BY: SHIPPED VIA: SHIPPED DATE: REC'D. BY: SHOP TIME: SALES ORDER NUMBER:

White: Office Copy Yellow: Shop Copy Pink: Warehouse Copy Goldenrod: Packing List









1 of ea.

Replacement Door to Fit Existing Frame

Job Name: Meadow LRK
Extr. card read doors

Door Location/Number: #1 main Entry

Fill in all dimensions in inches and fractions to the nearest 1/32nd as accuratly as possible.

Use steel rule or steel tape. We do not recommend folding rulers

Check frame for plumb and sqaure also.

16ga insul

72° A: Frame with @ top

72° B: Frame width @ middle

72° C: Frame width @ Bottom

5° D: Top of frame to top of 1st hinge

37° E: Top of frame to top of 2nd hinge

69° F: Top of frame to top of 3rd hinge

/ G: Top of frame to center of strike

84° H: Top of frame to finished floor

/ I: Strike plate height

5° J: Hinge height

5/16" K: Hinge backset

1 3/4 L: Frame rabbet size

.1943 M: Hinge thickness 6ga.

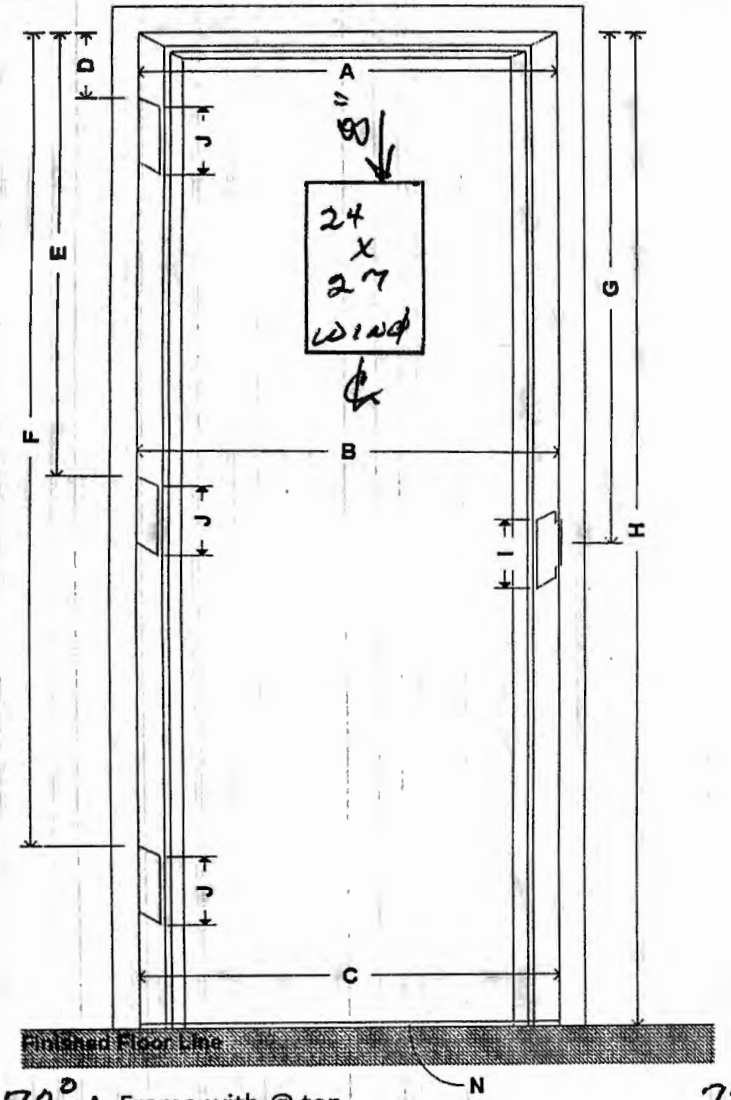
5/8" N: Threshold height (if any)

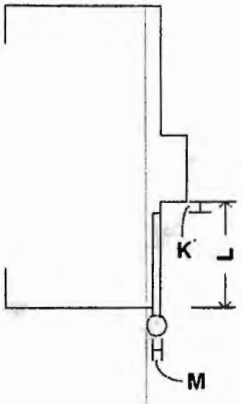
LHR & RHR O: Hand/Swing

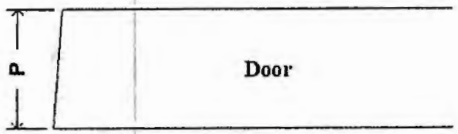
1 3/4 P: Door Thickness

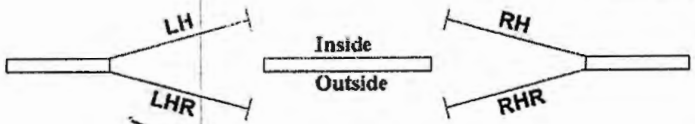
New Panic Existing Hardware Type, Manufacturer, and Backset

McKinney 5844 hinges









3 dbl door sets

Window Frame

16ga INSUL

Replacement Door to Fit Existing Frame

Job Name: Meadow Lark
Exterior card read doors

Door Location/Number: #3 / W. hall entry @ court yard
#9 / N. hall @ kitchen
#17 / E. hall N. wing

Fill in all dimensions in inches and fractions to the nearest 1/32nd as accuratly as possible.

Use steel rule or steel tape. We do not recommend folding rulers

Check frame for plumb and sqaure also.

72° A: Frame with @ top

72° B: Frame width @ middle

72° C: Frame width @ Bottom

5° D: Top of frame to top of 1st hinge

37° E: Top of frame to top of 2nd hinge

69° F: Top of frame to top of 3rd hinge

/ G: Top of frame to center of strike

84° H: Top of frame to finished floor

/ I: Strike plate height

5° J: Hinge height

5/16 K: Hinge backset

1 3/4 L: Frame rabbet size

.1943 M: Hinge thickness

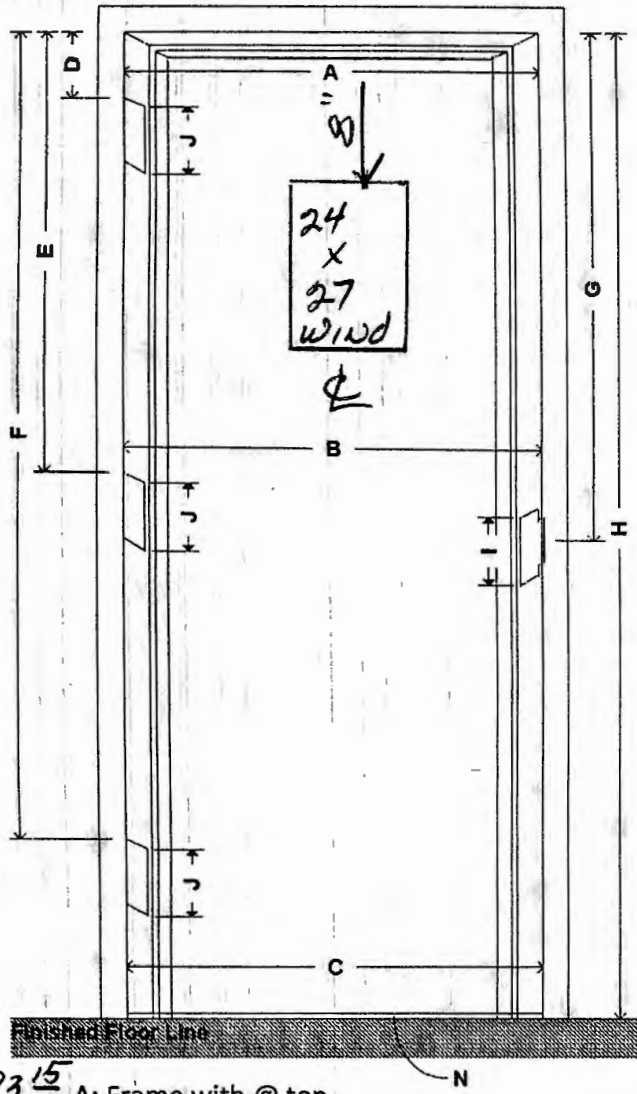
Ø N: Threshold height (if any)

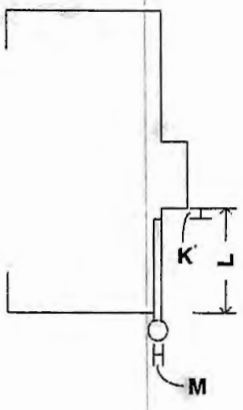
LHR & RHR O: Hand/Swing

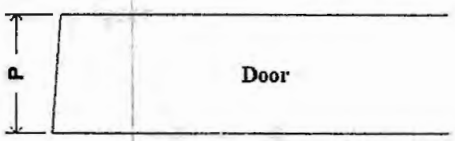
1 3/4 P: Door Thickness

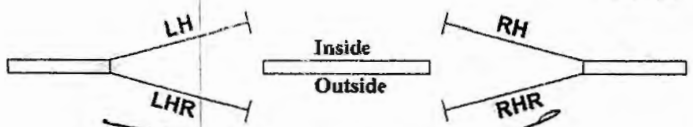
New Panic Existing Hardware Type, Manufacturer, and Backset

McKenney 5844 hinges









1 of ea

Replacement Door to Fit Existing Frame

Job Name: Meadow Lark Ext. card read door

Door Location/Number: #4/30. cafeteria

Fill in all dimensions in inches and fractions to the nearest 1/32nd as accuratly as possible.

Use steel rule or steel tape. We do not recommend folding rulers

Check frame for plumb and sqaure also.

Window Frame
16 ga insul

83 15/16 A: Frame with @ top

83 15/16 B: Frame width @ middle

83 15/16 C: Frame width @ Bottom

5° D: Top of frame to top of 1st hinge

37° E: Top of frame to top of 2nd hinge

69° F: Top of frame to top of 3rd hinge

— G: Top of frame to center of strike

84 H: Top of frame to finished floor

— I: Strike plate height

5° J: Hinge height

5/16 K: Hinge backset

1 3/4 L: Frame rabbet size

.1943 M: Hinge thickness 69°.

0 N: Threshold height (if any)

LHR & RHR O: Hand/Swing

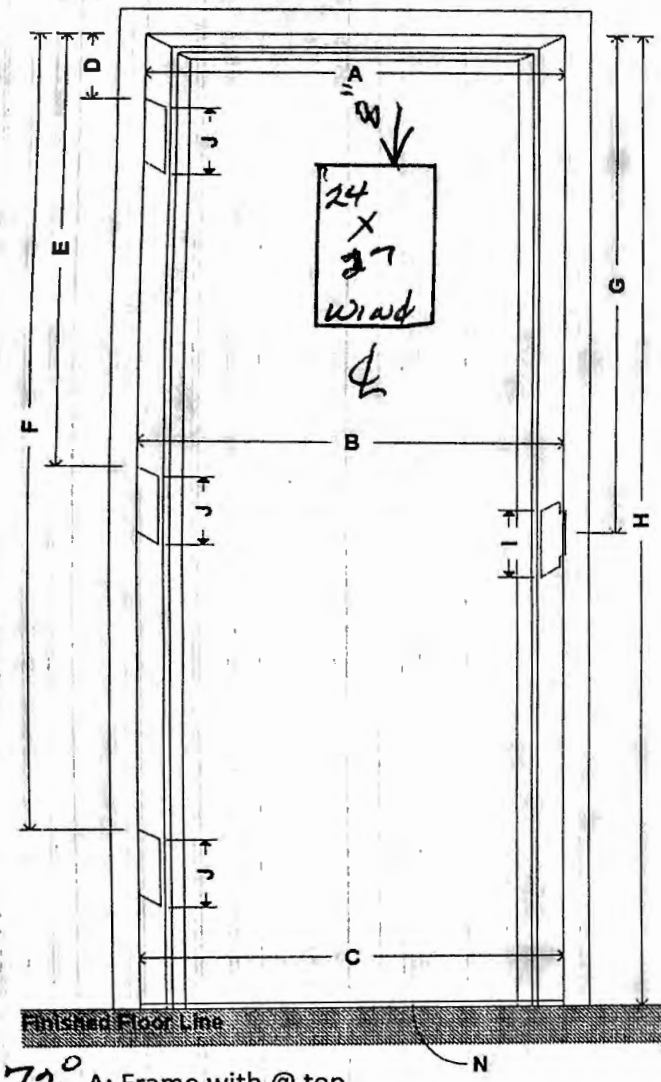
1 3/4 P: Door Thickness

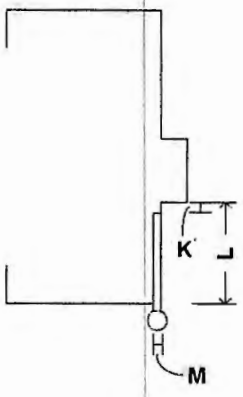
New Panic Existing Hardware Type, Manufacturer, and Backset

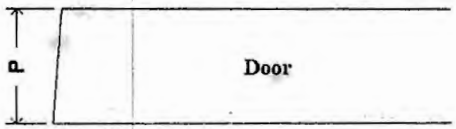
Replacement Door to Fit Existing Frame

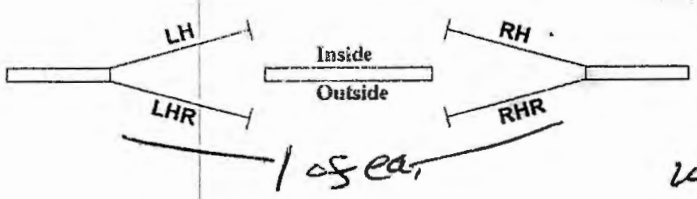
Job Name: Meadow Lark
Extr. card read doors

Door Location/Number: #30 / N. facing door @ E end of So. wing









1 of ea.

Fill in all dimensions in inches and fractions to the nearest 1/32nd as accuratly as possible.

Use steel rule or steel tape. We do not recommend folding rulers

Check frame for plumb and sqaure also.

Window Frame
16ga. insul

72° A: Frame with @ top

71 7/8 B: Frame width @ middle

71 7/8 C: Frame width @ Bottom

5° D: Top of frame to top of 1st hinge

37 1/4 E: Top of frame to top of 2nd hinge

69 1/2 F: Top of frame to top of 3rd hinge

— G: Top of frame to center of strike

84° H: Top of frame to finished floor

— I: Strike plate height

5° J: Hinge height

5/16 K: Hinge backset

1 3/4 L: Frame rabbet size

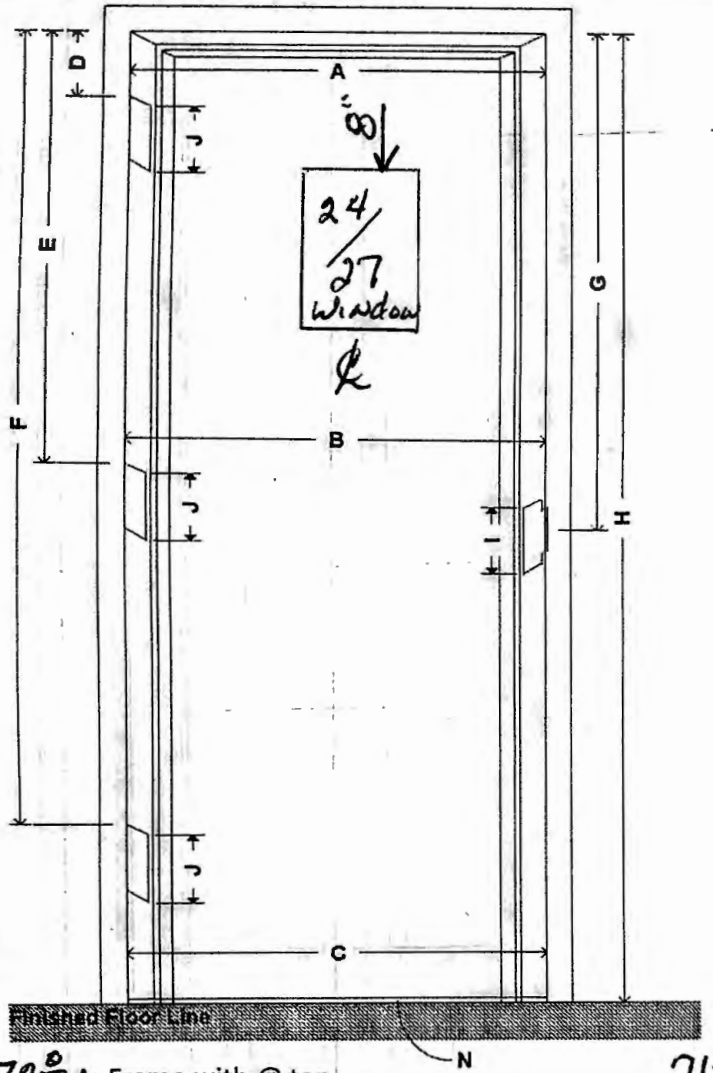
.1943 M: Hinge thickness 6ga

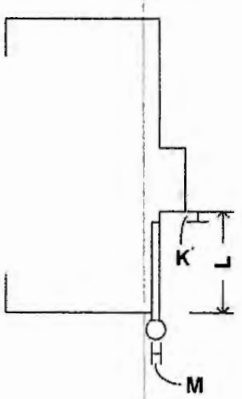
Ø N: Threshold height (if any)

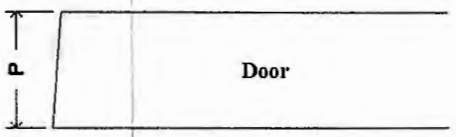
LHR & RHR O: Hand/Swing

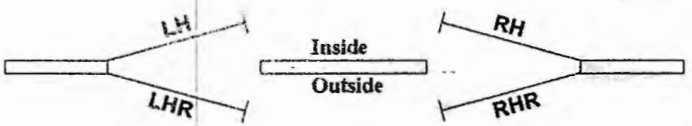
1 3/4 P: Door Thickness

New Panic
McKenney 58449 hinges
Existing Hardware Type, Manufacturer, and Backset









1 of a

Window Frame
16ga INSUL

Replacement Door to Fit Existing Frame

Job Name: Meadow Lark Exterior and Read doors

Door Location/Number: #34/50 facing door @ E end of So. wing

Fill in all dimensions in inches and fractions to the nearest 1/32nd as accuratly as possible.

Use steel rule or steel tape. We do not recommend folding rulers

Check frame for plumb and sqaure also.

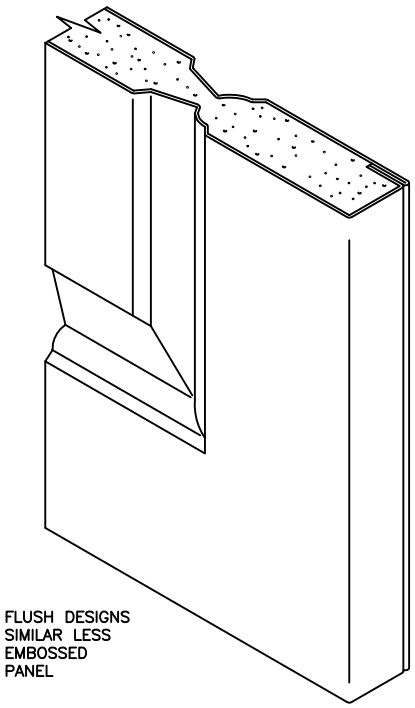
72 0 A: Frame with @ top	71 15 B: Frame width @ middle	71 15 C: Frame width @ Bottom
5° D: Top of frame to top of 1st hinge	37° E: Top of frame to top of 2nd hinge	69° F: Top of frame to top of 3rd hinge
— G: Top of frame to center of strike	84° H: Top of frame to finished floor	— I: Strike plate height
5° J: Hinge height	5/16 K: Hinge backset	1 3/4 L: Frame rabbet size
.1943 M: Hinge thickness 6ga	Ø N: Threshold height (if any)	LHR & RHR O: Hand/Swing
1 3/4 P: Door Thickness	New Pacific Existing Hardware Type, Manufacturer, and Backset	

McKinney 5844 hinges

Return to Index

1-3/4" IMPERIAL (IU) POLYURETHANE CORE

FLUSH AND EMBOSSED PANEL STEEL DOORS
BEVELED LOCK EDGE, HANDED



FLUSH DESIGNS SIMILAR LESS EMBOSSED PANEL

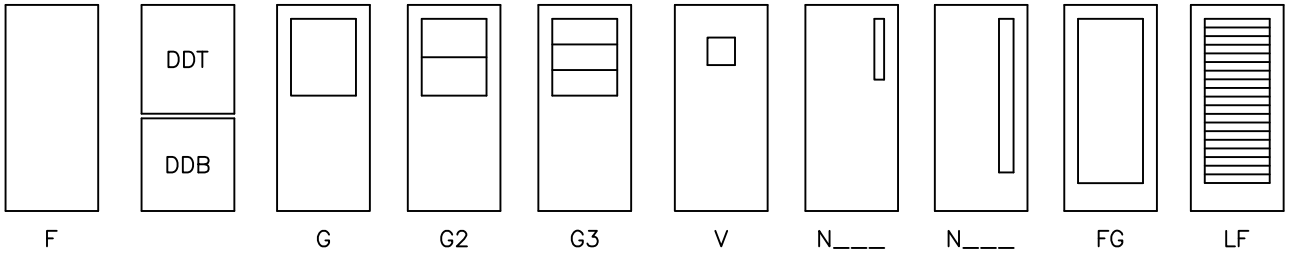
Full Flush or Seamless Style ...

Foamed-in-Place Polyurethane core fills entire door cavity. Core is chemically bonded to all interior surfaces. High impact resistance. Excellent insulation Characteristics.

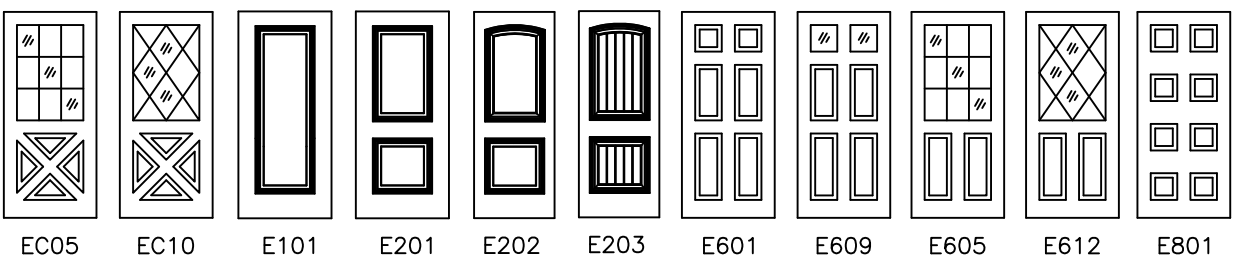
Suggested Use:

Interior or Exterior ...
Condominiums
Dormitories
Motels/Hotels
Office Buildings
Urban Renewal
Health Care
Institutional
Data Processing
Mercantile
Food Processing

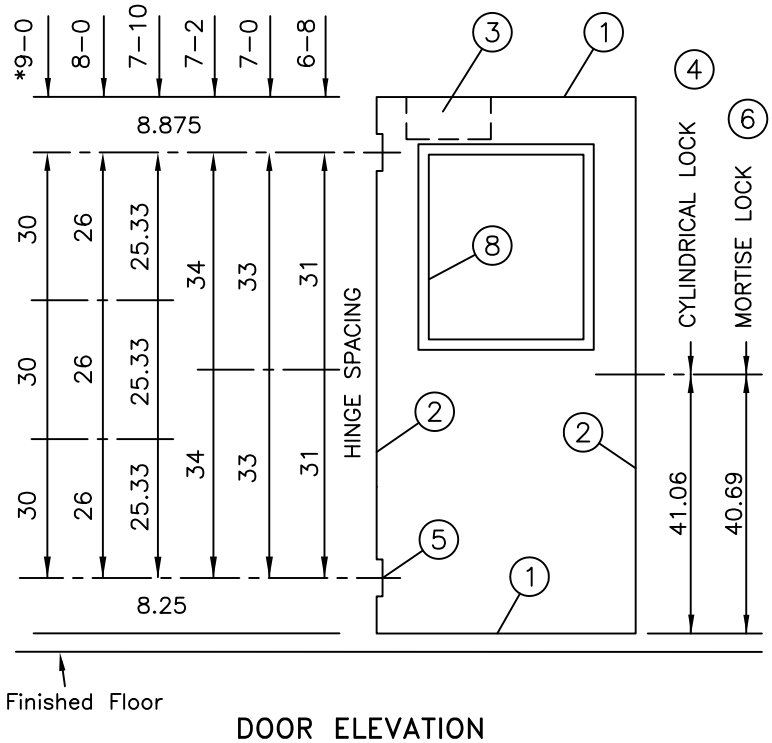
FLUSH DESIGNS



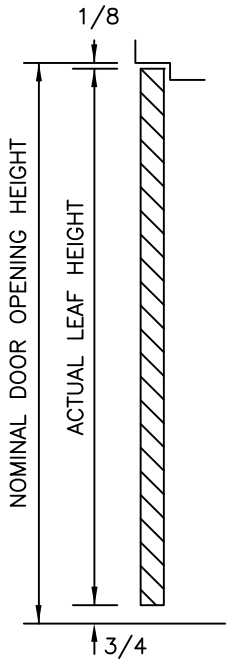
EMBOSSED PANEL DESIGNS



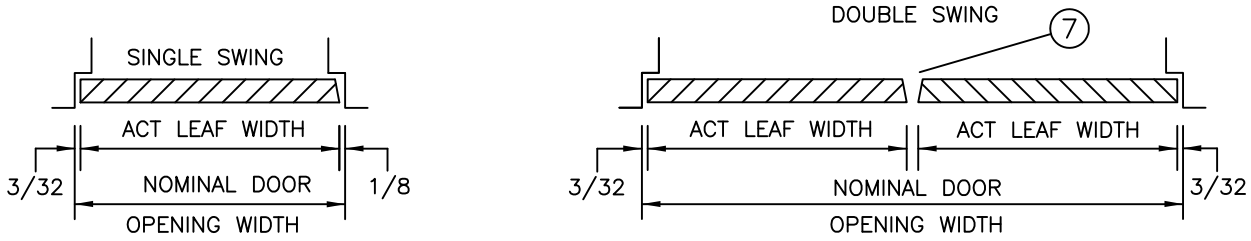
Hardware locations shown match Ceco standard frames.



DOOR ELEVATION



VERTICAL SECTION

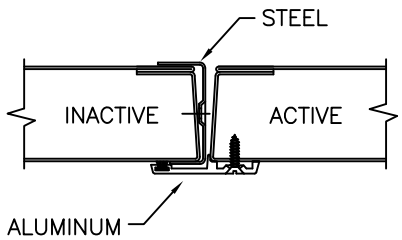


HORIZONTAL SECTIONS

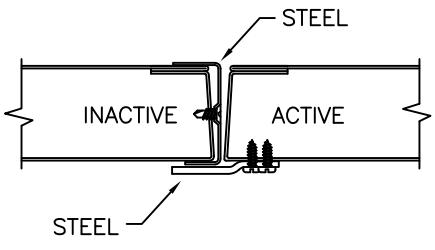
(Conversion: 1" = 25.4 mm, e.g., 1-3/4" = 44.45 mm)

*1 panel & 2 panel designs are limited to 8'0 hgt.

OVERLAPPING ASTRAGAL (7)
4451
FOR 1-3/4" THICK DOORS WITH OPTIONAL POLY-PILE INSERT

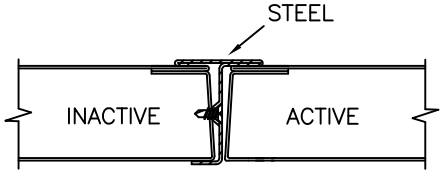


OVERLAPPING ASTRAGAL (7)
4441
FOR 1-3/4" THICK DOORS



LISTED

OVERLAPPING ASTRAGAL (7)
4471
FOR 1-3/4" THICK DOORS



LISTED

CecoDoor

ASSA ABLOY

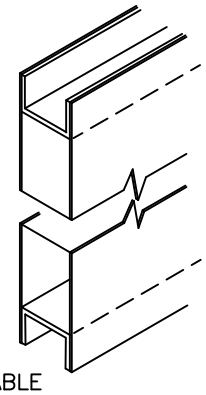
TECH-DATA

D3-3

1 16 GAGE STEEL END CHANNELS

WELDED TO BOTH FACE SHEETS

INVERTED TOP AND BOTTOM

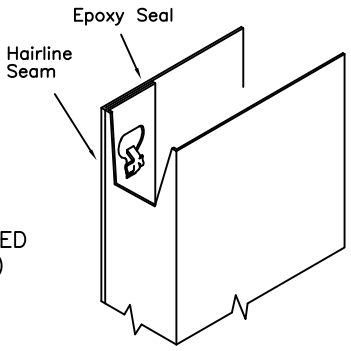


OPTIONAL TOP AND BOTTOM CAPS ARE AVAILABLE

2 VERTICAL EDGES

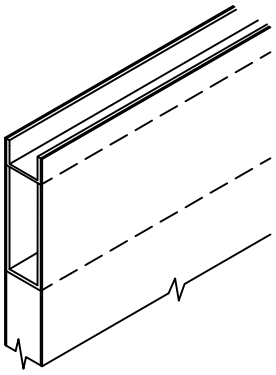
MECHANICALLY INTERLOCKED HEMMED EDGES

ALSO AVAILABLE SEAMLESS (WELDED OR BODY FILLER)



3 CLOSER REINFORCEMENT (OPTIONAL)

14 GAGE STEEL CHANNEL 20" LONG

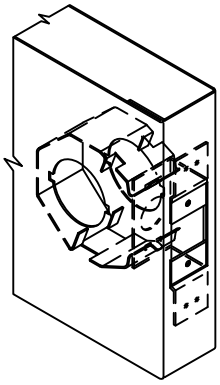


4 LOCK PREPARATION GOV. 160/161 CYLINDRICAL TYPE

(LC1)

(ANSI A115.2)

2-3/4" BACKSET

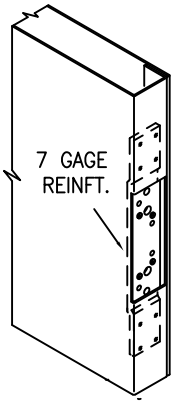


LOCK EDGE IS BEVELED 1/8" in 2" (1:16)

5 HINGE PREPARATION

4-1/2 OR 5 IN. HIGH, STANDARD OR HEAVY WEIGHT, FULL MORTISE HINGES

HINGE EDGE IS HANDED AND NOT BEVELED.



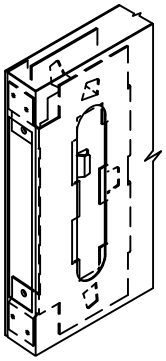
ANSI A156.7 TEMPLATE

6 LOCK PREPARATION GOV. 86-4 MORTISE TYPE

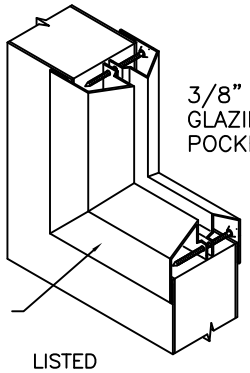
(LM1) (ANSI A115.1) 2-3/4" BACKSET

(LM0) SIMILAR TO DETAIL LESS FACE CUTOUT

(LP0) SIMILAR TO DETAIL LESS ALL CUTOUTS AND REINFORCEMENT



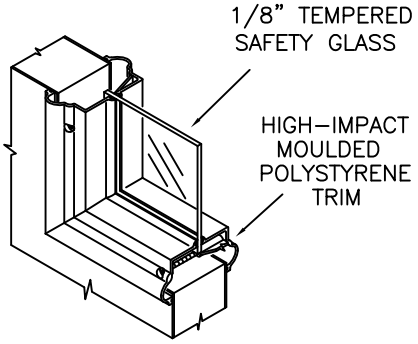
8 GLAZING TRIM SlimTrim



LISTED

8 GLAZING SYSTEM

FOR STANDARD 2'8" & 3'0" WIDE, 6'8" & 7'0" HIGH NON-LABELED EMBOSSED PANEL DOORS



OPTIONAL: 1/2" INSULATED GLASS

02/17/10

CecoDoor

ASSA ABLOY

D3-4

STANDARD SIZES
NOMINAL DOOR OPENING

WIDTH		HEIGHT
SINGLE	DOUBLE	
2'–0"	4'–0"	
2'–4"	4'–8"	
2'–6"	5'–0"	6'–8"
2'–8"	5'–4"	7'–0"
2'–10"	5'–8"	7'–2"
3'–0"	6'–0"	7'–10"
3'–4"	6'–8"	8'–0"
3'–6"	7'–0"	9'–0"
3'–8"	7'–4"	
3'–10"	7'–8"	
4'–0"	8'–0"	

FIRE DOORS

LABELING AGENCY:
- UNDERWRITERS LABORATORY
- WARNOCK HERSEY

TEST: UL10C, UL10B & UL1784
- DESIGNS: F, G, N, V, E1, E2, E6, E8, or ECB.
- RATING: (20, 18, & 16 GAGE) 1/3 HR, 3/4 HR, or 1–1/2 HR. MAX. SIZE: 40 x 70 SINGLE
- RATING: (18 & 16 GAGE) 3 HR MAX. SIZE: 40 x 70 SINGLE
- RATING: (20, 18, & 16 GAGE) 1/3 HR, 3/4 HR, or 1–1/2 HR MAX. SIZE: 60 x 70 PAIR
- RATING: (18 & 16 GAGE) 3 HR MAX. SIZE: 60 x 70 PAIR

PRODUCT SPECIFICATIONS:

1-3/4" Thick steel doors shall be as manufactured by Ceco Door Products, Milan, TN USA. Doors shall conform to the Steel Door Institute guide specification, ANSI A250.8; see chart below for performance classifications.

IMPERIAL doors are made full-flush or (optional) seamless style. Faces sheets are commercial quality cold rolled steel conforming to ASTM A1008 ...or (optional) hot-dipped galvanized steel conforming to ASTM A924 and A653 -- see chart below.

Imperial full-flush doors have mechanically interlocked, hemmed, hairline seams on vertical edges and have no visible seams on faces. Doors specified "seamless" have no visible seams on faces or vertical edges (S.D.I. Model 2). Face sheets are totally supported by a foamed-in-place polyurethane core. The core fills the entire door cavity and is chemically bonded to all interior surfaces. Density of foam exceeds 1.8 pcf and it has a crush strength of 3600 psf. The top and bottom door edges are closed with 16 gage steel channels welded to both face sheets.

Hardware Provisions: Hinge preparations are handed. Hinge edges are mortised for 4-1/2" or 5" high, standard and heavy weight hinges (specify which). 7 gage steel hinge reinforcements are welded inside the door edge and are drilled and tapped for fasteners in accordance with ANSI A156.7. The lock edge has a standard bevel (1:16) and is prepared for Gov. series 86, 160/161, or 90 locks in accordance with ANSI A115 (specify which). Optional closer reinforcement is a 14 gage steel channel.

Paint: 1-3/4" steel doors shall be provided with one coat of oven-cured neutral color primer paint. Primer coat shall conform with ANSI A250.10. The primer coat is a preparatory base for necessary finish painting. "Colorstyle" finish coat is also available from a selection of standard colors (optional). Colorstyle finish is electrostatically applied, oven-cured urethane enamel and shall conform to ANSI A250.3. For accurate color selectors ask for a Ceco Colorstyle chart.

SIZE LIMITS – DESIGNS

	FLUSH DESIGN	1 PANEL	2 PANEL	6 PANEL	8 PANEL	CROSS BUCK & LITES
MAX.	4090	3080	3080	4070	3070	3070
MIN.	2068	2868	2868	2668	2868	2868

EXEPTIONS:
- E1, E2, E6 and E8 designs: mortise lock preparation limited to 3'0" width, minimum.
- 1 & 2 panel doors are available in 18 gage face sheets only.
- 8 Panel & crossbuck doors are available in 20 & 18 gage face sheets only.
- 6 panel is available in 20, 18, & 16 gage.
- Panel design door face sheets are formed from A40 galv. steel.

MATERIAL

DOOR FACE SHEETS	LEVEL	C.R.	GALV		RECOMMENDED DOOR FRAME MATERIAL
			A60	G90	
20 Gage Steel (4080 max.)	Standard Duty	STD	–	–	16 Gage Steel
18 Gage Steel	Heavy Duty	STD	OPT	OPT	16 Gage Steel
16 Gage Steel	Extra heavy Duty	STD	OPT	OPT	16 or 14 Gage Steel

PERFORMANCE

Thermal Characteristic Value:	FULLY OPERABLE ASSEMBLIES (ASTM C1363)	R = 3.18	U = 0.31
	CORE CALCULATED (ASTM C518)	R = 11.01	U = 0.091
Sound Transmission Class:	STC 26 (F Design, 18 Gage Face Sheets, ASTM E90 & E413 [Fully Operable])		
Physical Endurance Level:	Meets ANSI A250.4 Performance Test, 20 GAGE: Level B (500,000 Cycles); 18 and 16 Gage: Level A (1,000,000 Cycles)		

03/15/13

RETURN TO TOP

The 299 Strike ships standard, optional strikes available

98 and 99 rim exit devices for all types of single and double doors with mullion, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. The 98 device has a smooth mechanism case and the 99 device has a grooved case. The rim device is non-handed except when the following device options are used: SD (Special Dogging), -2 (Double Cylinder) or SS (Signal Switch). See Opposite page for available outside trim and device functions. Covers stock hollow metal doors with 86 or 161 cutouts on single doors (may cover cutouts on pairs – consult template).

Finishes – US3, US3A, US4, US4A, US10, US26, US26D, US26D-AM Antimicrobial, US28, 313, 315 & 643E. US15 and US32D available with 98 Series only.

Hex key dogging comes standard on 98/99 Rim Exit Devices

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP, K or L remove NL drive screw from device.
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size
Device Centerline from Finished Floor	39 13/16" (1011 mm) 39 11/16" (1008 mm) with Mullion
Center Case Dimensions	8" x 2¾" x 2⅜" (203mm x 70mm x 60mm)
Mechanism Case Dimensions	2¼" x 2¼" (57mm x 57mm)
Projection	Pushbar Neutral – 3 13/16" (97 mm) Pushbar Depressed – 3 1/16" (78 mm)
Latch Bolt	Deadlocking, ¾" (19mm) throw
Fasteners & Sex Bolts (SNB)	Includes screw pack for 1¾" (44mm) and 2¼" (57mm) thick metal or wood doors. Optional 425 SNB available, see page 9 for quantities.
Electric Options	**LX** Latchbolt Monitor Switch **RX** Pushpad Monitor Switch **RX2** Double Pushpad Monitor Switch **E** Electric Locking & Unlocking Trim **EL** Electric Latch Retraction **QEL** Quiet Electric Latch Retraction **SS** Signal Switch **CX** Chexit Delayed Exit **ALK** Alarm Exit Kit **WP-RX** Waterproof Request to Exit
Mechanical Options	**-2** Double Cylinder **GBK** Glass Bead Kit **PN** Pneumatic Latch Retraction **XP** Extra Protection **SNB** Sex Bolts **SEC** Security Screws
Dogging Feature **Dogging Options**	Hex key dogging standard **CD** Cylinder Dogging **SD** Special Center Case Dogging **LD** Less Dogging **DI** Dogging Indicator **CI** Cylinder Dogging Indicator
Strikes	299 – Dull Black

XP
Extra Protection
- 90° latch-to-strike contact
- Force resistance of 2,000+ lbs.

E (E996L)
Electrified Breakaway Lever
- Electrified remote locking/unlocking
- Standard in fail safe condition

QEL
Quiet Electric Latch Retraction
- Bolt retraction via switch
- Converts exit door to push-pull operation

CD
Cylinder Dogging
- Replaces hex key dogging
- Requires standard 1¼" mortise cylinder

CX
Chexit Delayed Exit
- Meets NFPA 101 requirements
- Self-contained controls, locking, alarm

RX
Pushpad Monitor Switch
- Signals use of an opening
- SPDT switch to monitor pushpad

EL
Electric Latch Retraction
- Enables remote unlatching
- Alternative to manual dogging

ALK
Alarm Exit Kit
- Unauthorized opening triggers 85-decibel horn
- Set in armed or disarmed mode by key

PN
Pneumatic Latch Retraction
- For areas where electrical devices banned
- Special linkage for mechanical or pneumatic dogging

BRA, EMB, KN, SG
Braille, Embossed and Knurled Touchpads
- Braille touchpad embossed with "Caution Stairwell"
- Other messages available by special order

Standard Trim

	EO **No Outside Trim** **Exit only**	DT  **Dummy Trim** Pull When Dogged	NL  **Night Latch** Key Retracts Latchbolt	NL-OP  **Night Latch** Key Retracts Latchbolt Optional Pull Required
Product Description	98EO 99EO	98DT 99DT	98NL 99NL	98NL-OP 99NL-OP
Trim Description	—	990DT	990NL-R/V	110NL-MD 110NL-WD
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—
ANSI Function	01	02	03	03
Cylinder Type	—	—	Rim	Rim
Handing	—	—	—	—
Optional Trim	x990EO x996EO	x996K-DT x996L-DT x696DT x697DT	x996K-NL x996L-NL x696NL x697NL	
Optional #425 Sex Bolt Quantity for Device	6	2	2	6

	L  **Lever** Key Locks & Unlocks	L-NL  **Lever – Night Latch** Key Retracts Latchbolt	L-BE  **Lever – Blank Escutcheon** Always operable (No Cylinder)	L-DT  **Lever Dummy Trim** Pull When Dogged
Product Description	98L 99L	98L-NL 99L-NL	98L-BE 99L-BE	98L-DT 99L-DT
Trim Description	996L-R/V*	996L-NL-R/V	996L-BE-R/V*	996L-DT
Escutcheon Plate Size	2¾" X 10¾" X ²⁷⁄₃₂" *(70x273x21mm)*	2¾" X 10¾" X ²⁷⁄₃₂" *(70x273x21mm)*	2¾" X 10¾" X ²⁷⁄₃₂" *(70x273x21mm)*	2¾" X 10¾" X ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	03	14	02
Cylinder Type	Rim	Rim	—	—
Handing	Handed/Reversible	Handed/Reversible	Handed/Reversible	Handed/Reversible
Optional #425 SNB Quantity for Device	2	2	2	2

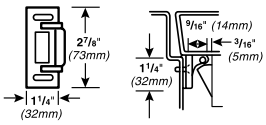
* Electrified lever operation available

Notes

DEVICE TYPE	STANDARD SINGLE DOOR			STANDARD DOUBLE DOOR			OPTIONAL SINGLE DOOR			OPTIONAL DOUBLE DOOR		
	STRIKE	TRIM/STILE		STRIKE W/MULLION*	TRIM/STILE		STRIKE	TRIM/STILE		STRIKE W/MULLION*	TRIM/STILE	
		990/996	696/697		990/996	696/697		990/996	696/697		990/996	696/697
98/99	299	4½" (114mm)	4⅜" (111mm)	299 x 4954	4⅞" (124mm)	4¾" (121mm)	1439 or 1410	3 13/16" (97mm)	3 13/16" (97mm)	299 x 5654	4 7/16" (113mm)	4¼" (108mm)
										1408 x 5754	3 13/16" (97mm)	3 13/16" (97mm)
							1606	4 1/16" (103mm)	3 15/16" (100mm)	1606 x 1654	4⅜" (112mm)	4¼" (108mm)
XP 98/99	909			909 x 4954-XP			—	—	—	—	—	—
98-F/99-F	299F	4½" (114mm)	4⅜" (111mm)	499F x 9954	4⅞" (124mm)	4¾" (121mm)	—	—	—	499F x 9854 KR9954	—	—
XP98-F/XP99-F	909			954 x 9954-XP			—	—	—	—	—	—
9875 9975	575	4¾" (121mm)	4¾" (121mm)	575-2	—	—	—	—	—	576A-576B	4¾" (121mm)	4¾" (121mm)
9875-F 9975-F	575	4¾" (121mm)	4¾" (121mm)	575-2	—	—	—	—	—	576A-576B	4¾" (121mm)	4¾" (121mm)
9857 9957	299 (Top) 299 (Middle) 304L/284-L (Bottom)	4½" (114mm)	4⅜" (111mm)	299 x 4954	4⅞" (124mm)	4¾" (121mm)	1439 or 1410	3 13/16" (97mm)	3 13/16" (97mm)	299 x 5654	4 7/16" (113mm)	4¼" (108mm)
										1408 x 5754	3 13/16" (97mm)	3 13/16" (97mm)
							1606	4 1/16" (103mm)	3 15/16" (100mm)	1606 x 1654	4⅜" (112mm)	4¼" (108mm)
9857-F 9957-F	299 (Top) 299F (Middle) 304L (Bottom)	4½" (114mm)	4⅜" (111mm)	299F 499F x 9954 304L	4⅞" (124mm)	4¾" (121mm)	—	—	—	—	—	—
	STRIKE	**APPLICATION**			**TRIM/STILE**		**OPTIONAL STRIKE**			**APPLICATION**	**TRIM/STILE**	
					990/996	696/697					990/996	696/697
9827 9927 LATCH RETRACTION	299 (Top) 304L/248-L-4 (Bottom)	Single Door			3 11/16" (94mm)	3⅝" (92mm)	260U (Top) 385A (Bottom)			Single Door	3 11/16" (94mm)	3⅝" (92mm)
PL9827/PL9927 PULLMAN LATCH	299 (Top) 304L/248-L-4 (Bottom)	Two Vertical Rod Devices			3 11/16" (94mm)	3⅝" (92mm)				Two Vertical Rod Devices	3 11/16" (94mm)	3⅝" (92mm)
9827-F 9927-F	299 (Top) 304L (Bottom)						260U (Stainless) 385A (Bottom)					
9847 9947 9848 9948	338 (Top) 385A (Bottom)	Vertical Rod with Mortise Lock Device			4¾" (121mm)	4¾" (121mm)	304L (Bottom)			Vertical Rod with Mortise Lock Device	4¾" (121mm)	4¾" (121mm)
9847-F 9947-F 9848-F 9948-F	338 (Top) 385A (Bottom)	Two Vertical Rods			4¼" (108mm)	4⅛" (105mm)	304L (Bottom)			Two Vertical Rods	4¼" (108mm)	4⅛" (105mm)
		Vertical Rod with Mortise Lock Device			4¾" (121mm)	4¾" (121mm)				Vertical Rod with Mortise Lock Device	4¾" (121mm)	4¾" (121mm)
9847WDC 9947WDC	338 (Top) 385A (Bottom)	Single Door			4¼" (108mm)	4¼" (108mm)	304L			Single Door	4¼" (108mm)	4¼" (108mm)
		Two Vertical Rod Devices			4¼" (108mm)	4¼" (108mm)				Two Vertical Rod Devices	4¼" (108mm)	4¼" (108mm)
		Vertical Rod with Mortise Lock Device			4¾" (121mm)	4¾" (121mm)				Vertical Rod with Mortise Lock Device	4¾" (121mm)	4¾" (121mm)
9847WDC-F 9947WDC-F	338 (Top) 385A (Bottom)	Two Vertical Rod Devices			4¼" (108mm)	4¼" (108mm)	304L			Two Vertical Rod Devices	4¼" (108mm)	4¼" (108mm)
9849 9949 9849 9949	249 (Top) 349 (Bottom)	Vertical Cable with Mortise Lock Device			4¾" (121mm)	4¾" (121mm)	—			Vertical Cable with Mortise Lock Device	4¾" (121mm)	4¾" (121mm)
9849-F 9949-F 9849-F 9949-F	249 (Top) 349 (Bottom)	Two Vertical Cables			4¼" (108mm)	4⅛" (105mm)	—			Two Vertical Cable	4¼" (108mm)	4⅛" (105mm)
		Vertical Cable with Mortise Lock Device			4¾" (121mm)	4¾" (121mm)				Vertical Cable with Mortise Lock Device	4¾" (121mm)	4¾" (121mm)
9849WDC 9949WDC	249 (Top) 349 (Bottom)	Single Door			4¼" (108mm)	4¼" (108mm)	—			Single Door	4¼" (108mm)	4¼" (108mm)
		Two Vertical Cable Devices			4¼" (108mm)	4¼" (108mm)				Two Vertical Cable Devices	4¼" (108mm)	4¼" (108mm)
		Vertical Cable with Mortise Lock Device			4¼" (108mm)	4¼" (108mm)				Vertical Cable with Mortise Lock Device	4¾" (121mm)	4¾" (121mm)
9849WDC-F 9949WDC-F	249 (Top) 349 (Bottom)	Two Vertical Cable Devices			4¼" (108mm)	4¼" (108mm)	—			Two Vertical Cable Devices	4¼" (108mm)	4¼" (108mm)

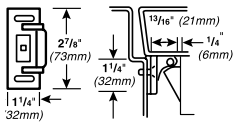
Strikes for rim devices

264



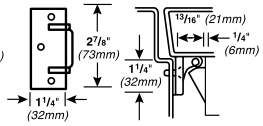
Projection ⁹/₁₆" (14mm)

299



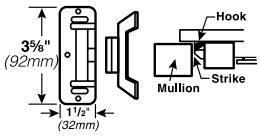
Projection ¹³/₁₆" (21mm)

299F



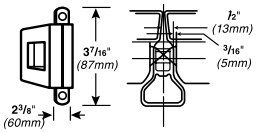
Projection ¹³/₁₆" (21mm)

499F



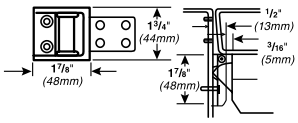
Projection ¹⁵/₁₆" (24mm)

1408



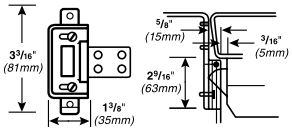
One per pair of doors

1439–Blade Stop



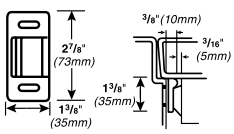
Projection ½" (13mm)

1410–Integral Stop



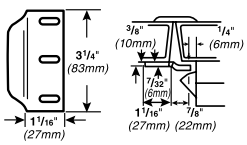
Projection ½" (13mm)

1606



Projection ⅜" (10mm)
Panic Devices Only

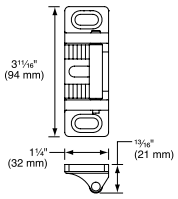
1609



– Requires Coordinator
– For panic exit application only, not fire rated

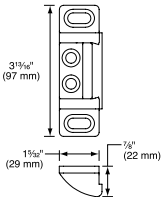
XP Strikes for rim devices

909



Projection ¹³/₁₆" (21mm)

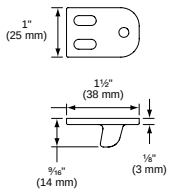
954



Projection ⅞" (22mm)
- For fire rated double door applications

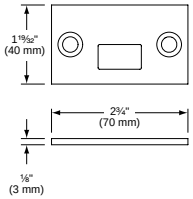
Strikes for vertical cable devices

249 - Top Strike



Projection ⁹/₁₆" (14mm)

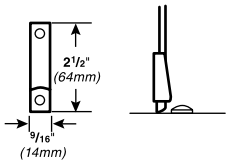
349 - Bottom Strike



Projection ⅛" (3mm)

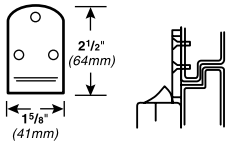
Strikes for vertical rod devices

248L-4



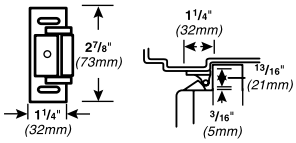
Projection ⅜" (10mm)

260U-Flush Transom Panic Only
260U-F-Flush Transom Fire Only



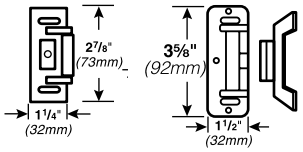
Projection ⅜" (10mm)

299



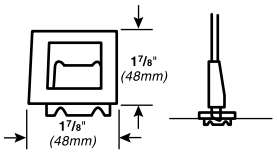
Projection ¹³/₁₆" (21mm)

299F



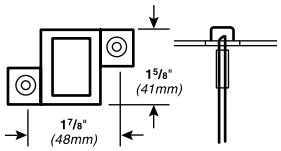
Projection ¹³/₁₆" (21mm)

304L



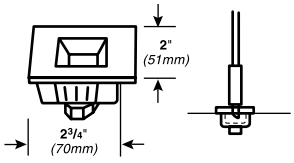
Mortise ¹³/₁₆" (21mm)

338



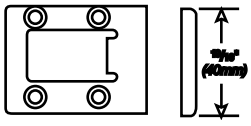
Mortise ⅝" (16mm)

385A



Mortise 2½" (64mm)

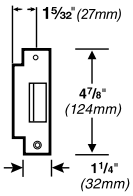
283



For use with WDC devices when used with wood frames

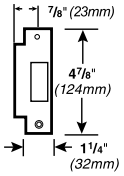
Strikes for mortise rod devices

575



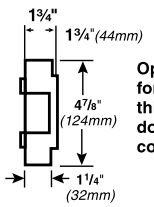
For use on 1¾" *(44mm)* or 2¼" *(57mm)* Single door and 2¼" *(57mm)* double door with coordinator.

575-2



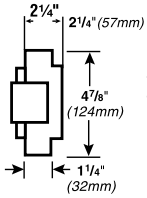
For use on 1¾" *(44mm)* thick double door with coordinator and astragal.

576A



Open back strike for 1¾" *(44mm)* thick double doors without coordinator.

576B



Open back strike for 2¼" *(57mm)* thick double doors without coordinator.

– Not for use with astragals
– For use on wood doors, contact door manufacturer

– Acceptable for 90 minute pair of hollow metal doors

CD Cylinder Dogging

Cylinder dogging is available on all 98/99™ Panic Exit devices to replace the standard hex key dogging. Unit requires a standard 1¼" (32mm) mortise cylinder with an inverted straight cam (Schlage Cam B502-191 reference).

To Order, Specify:
- Use prefix, CD, example CD99L

CDK Cylinder Dogging Kit*

For field conversion, a cylinder dogging conversion kit is available.

Order: 99CDK or **98CDK,** specify finish.
*Cannot be added to fire exit hardware.

HDK Hex Key Dogging Kit*

For field conversion, a hex key dogging conversion kit is available.

Order: 99HDK or **98HDK,** specify finish.
*Cannot be added to fire exit hardware.

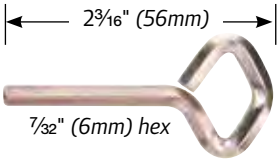
LD Less Dogging

Less Dogging is available in all 98/99™ Panic Exit devices to remove the dogging option.

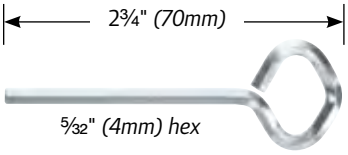
To Order, Specify:
- Use prefix LD, example LD99L

Dog Keys

Dog Key (old style)



Dog Key (standard)



SD Special Center Case Dogging

Special cylinder dogging in the center case is available for Chexit, EL, QEL, ALK panic devices to allow for mechanical push/pull operation. With this option, the latchbolt is held retracted and pushbar is still operable. Specify handing—RHR or LHR.

SD requires 1¼" (32mm) mortise cylinder with an inverted straight cam. (Schlage cam reference B502-191.)

Note: Available on Rim and Vertical Rod Panic Exit Devices only.

To Order, Specify:
- Use prefix SD, example SD99L and Handing
- Not for 98/9975 Devices

Double Cylinder

Double cylinder features an inside key cylinder which locks or unlocks the outside trim and an outside key cylinder which retracts the latch bolt only (Night Latch Function). Available on rim or mortise lock device.

Rim requires two rim type cylinders. Mortise device requires 1 rim cylinder and 1 mortise cylinder 1¼" with a straight cam. (Schlage cam reference B502-191.)

Available functions are thumbpiece, knob or lever.

To Order, Specify:
1. Suffix-2 with device/trim number, example 99TP-2.
2. Handing required, LHR or RHR.

-2SI Double Cylinder with Security Indicator

The Von Duprin Classroom Security Indicator provides an at-a-glance verification of the locked/unlocked status of the door from inside of the room. This option can be ordered as a new product or as a retrofit conversion kit to an existing 98/99 device. Indicator in Unlocked state presents a 1/2″ x 1/2″ metal flag (white background with black icon) at top of device head. Indicator in Locked state has no flag present.

To Order, Specify:
1. Suffix-2SI with device/trim number, example 99L-2SI.
2. Handing required, LHR or RHR.

RX Request to Exit

The RX feature is used to signal the use of an opening. This device is equipped with one internal SPDT switch which monitors the pushpad.

The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply.

The RX switch option should not be used to control a load, but as a signalling switch (0.5 amps. resisitive maximum).

The RX switch is available in a low current (LC) switch. Most commonly used in computer operated monitoring systems.

To Order, Specify:
- Standard – Use prefix RX, example RX99EO
- Low Current – Use prefix RX-LC, example RX-LC98EO

RX2 Double Request to Exit

The RX2 feature uses two RX switches.

To Order, Specify:
- Standard – Use prefix RX2, example RX299EO

WP-RX Waterproof Request to Exit

LX Latchbolt Monitoring

The LX feature is used to signal the use of an opening. This device is equipped with one internal SPDT switch which monitors the latch bolt.

The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply.

The LX switch option should not be used to control a load, but as a signalling switch (0.5 amps. resistive maximum).

The LX switch is available in a low current (LC) switch. Most commonly used in computer operated monitoring systems.

To Order, Specify:
- Standard – Use prefix LX, example LX99EO
- Low Current – Use prefix LX-LC, example LX-LC98EO

Electrical Rating for all Switches:
- Standard – 2 Amp maximum @ 24VDC
- Low Current (LC) - below 50 Milliamps @ 24VDC

Note: All Switches can be either factory or field installed

SS Signal Switch

Monitors pushpad and latch bolt

The SS feature is used to signal the unauthorized use of an opening. This device is equipped with two internal SPDT switches. One switch monitors both the pushpad and the latch bolt assembly, making the latch bolt tamper resistant, for positive security. An additional SPDT switch is connected to the 1¼" *(32mm)* mortise cylinder with straight cam for alarm "bypass." (Schlage cam reference B502-191). The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply.

Pushpad reads: "EMERGENCY EXIT ONLY – PUSH TO OPEN AND SOUND ALARM." Pushpad is only available in US32D finish with red silk-screened lettering.

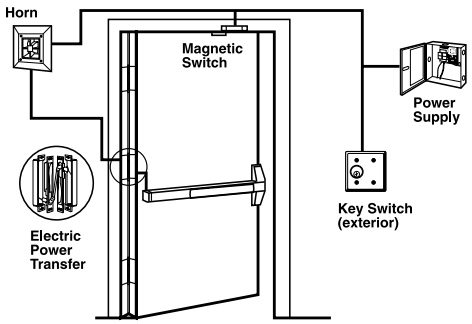
The SS mortise lock device is furnished with both the signal switch device and the SS7500 mortise lock. The SS7500 mortise lock has the versatility and advantages of the 7500 lock with the addition of signalling functions to monitor latch bolt operation and the trim locking function. The SS7500 mortise lock is supplied standard with the SS mortise lock device.

To Order, Specify:
1. Prefix SS, example SS99L.
2. Handing Required, LHR or RHR.

Electrical Ratings:
Up to 2.0 AMPS @ 24VDC

Popular SS Application

Unauthorized use of this opening will activate the local horn. The key switch permits inhibiting this system for authorized entry.



CX The Chexit®

Designed for use on delayed exit applications, the Chexit system is ideal for controlled areas.

All controls, auxiliary locking, local alarm, and remote signalling are self-contained in the Chexit, providing safe, secure, easy to install and simple to operate door control and exit hardware.

Chexit controlled exit device for use on Panic or Fire Exit hardware applications.

This concept in delayed exit systems combines life safety with the needs of security and meets all requirements of NFPA 101 for "Special Locking Arrangement."

The Chexit device includes a 6" x 20" decal for application on door.
"PUSH UNTIL ALARM SOUNDS.
DOOR CAN BE OPENED IN 15 SECONDS"

Minimum width door opening:
- 3' Device 34" opening
- 4' Device 40" opening

Consult factory for other size requirements.

Solenoid Specifications:
- Continuous Duty – 24VDC
- Current Inrush – 16 amperes
- Current Holding – .3 amperes

Requires PS914 Power Supply

Request to Exit Switch:
Built into the device to detect when someone attempts to exit. Pushing the push pad when the device is armed will cause this switch to start an irreversible alarm cycle.

Nuisance Alarm:
When a Chexit is located in a public area, it can be desireable to limit false alarms. If the Nuisance Delay options are set to off, the device will go into alarm as soon as the push pad is touched (when armed). Turning the Nuisance Delay on will require the push pad to be pressed for 1 second before the Chexit goes into alarm. If the Nuisance Audible and Nuisance Delay are both on, the alarm will sound as soon as the push pad is pressed, but the alarm sequence will stop unless the push pad is held for 1 second or more.

Remote Alarm:
A relay contact is provided to give external alarm indication. This contact closes when the device is in an irreversible alarm condition. This contact can be used to drive a horn, lamp, or other indicative device.

Key Switch:
The Key Switch provides the means to arm, disarm or reset the Chexit. The key can be removed in either the Arm or Disarm position.

Indicator Lamp:
The status of the Chexit can be determined by the indicator lamp. When the lamp is off, this indicates the device is disarmed and is functioning as a normal exit device (no delay). A continuously on lamp indicates the device has just been armed and as soon as the selectable rearm timer expires, the device will arm. A slow flashing lamp indicates the device is armed. A fast flashing indicator lamp indicates the device is in alarm.

Internal Horn:
Whenever the device is in alarm or the push pad is pressed the internal horn will sound. The volume level of this horn exceeds 85 db at 6 feet.

Door Position Input:
An external door position switch can be connected to the Chexit.

Using the door position input ensures that the door is in the closed and latched position before the device rearms.

External Inhibit Input:
This optional input is provided to allow authorized egress of the Chexit in the armed condition. It also allows remote reset of the Chexit in an alarmed condition.

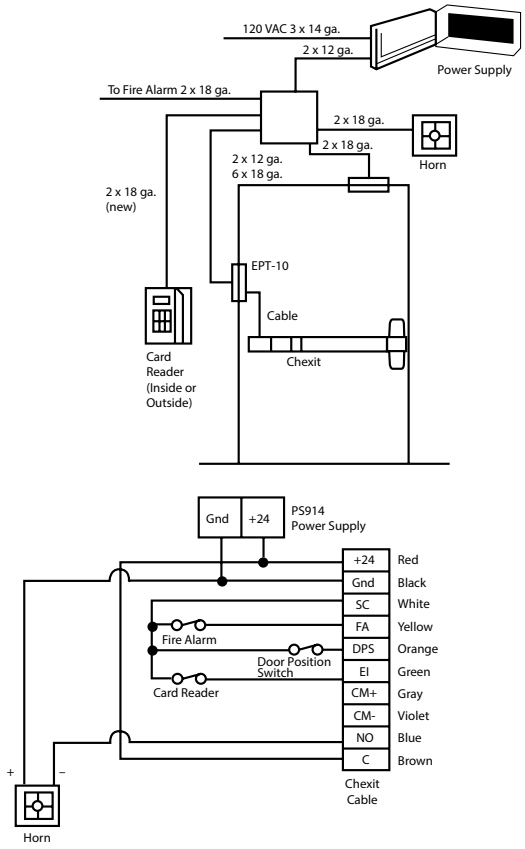
Fire Alarm Input:
This input disables the Chexit immediately upon a fire alarm.

Internal Auxiliary Lock:
The Auxiliary Lock is engaged when the Chexit is armed. The locking mechanism is specifically designed to hold securely even when the exit device is struck with forceful blows.

User Defineable Rearm Time:
The Rearm time is the amount of time after the device is activated before it arms. It is designed to give someone time to pass through the door before rearming oocurs. Timing can be changed by the user for any time between 2 and 28 seconds in two second increments. There is also an infinite rearm setting that requires the use of an external door position switch. In this setting the door remains in the rearm mode until the door is closed. This can be useful on jet way doors in an airport.

Factory Defineable Delay Time:
Most jurisdictions allow 15 seconds of delay before allowing egress. In those cases where 15 seconds is not appropriate, Von Duprin can set the Chexit for any delay time between 0 and 60 seconds on 2 second increments. For delays greater than 15 seconds a letter from the local authority is required.

Chexit Typical Application



Chexit Single Door with Options – The Chexit is used as an access control device. The card reader allows access. Also shown in this application is an external horn and door position switch. The auxiliary horn is used for increased volume in remote locations. Using a door position switch gives added security to the opening in case the door is not reclosed.

With the Chexit disarmed, the opening functions as a normal exit device. If card readers are required on both sides of the door, the normally closed contacts of the readers should be weird in series.

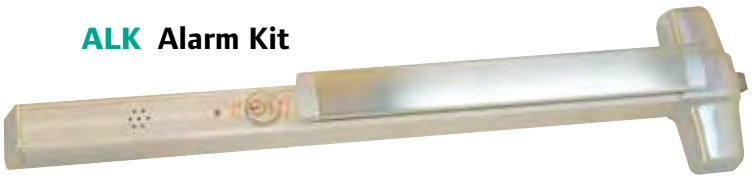
Note: Chexit rim or vertical rod/cable devices lock any outside trim input when the device is in the armed condition. If access is needed from the trim side of the door, some type of electric switch would need to be tied into the external inhibit input of the device.

Chexit mortise lock device the outside trim works independently from the Chexit device.

Door Width Reference for CX Devices

Device	3' (914mm) Length	4' (1219mm) Length
CX98/98-F/99/99-F	2'10 1/2" (864mm)	3'4 1/2" (1016mm)
CX9875/9875-F/9975/9975-F	2'10" (864mm)	3'4" (1016mm)
CX9827/9827-F/9927/9927-F	2'10" (864mm)	3'4" (1016mm)
CX9857/9857-F/9957/9957-F	2'10" (864mm)	3'4" (1016mm)
CX9847/9847-F/9947/9947-F	2'10" (864mm)	3'4" (1016mm)
CX9848/9848-F/9948/9948-F	2'10" (864mm)	3'4" (1016mm)
CX9849/9849-F/9949/9949-F	2'10" (864mm)	3'4" (1016mm)
CX9849/9849-F/9949/9949-F	2'10" (864mm)	3'4" (1016mm)

ALK Alarm Kit



The ALK battery alarm kit is a simple yet effective way to deter unauthorized use of an opening. While the exit device is still a means of egress, the ALK kit contains an internal horn. When the touch bar is depressed, the horn sounds to provide an audible means of signaling that the opening has been violated. The alarm kit can be armed or disarmed by key. The horn is rated at 85 decibel.

For Hardware Applications

The assembly includes both a 24VDC Input and External Inhibit standard. The External Inhibit provides remote arming and dis-arming.

The key switch uses a standard 1¼" (32mm) mortise cylinder with a straight cam (Schlage 20-001, B502-191 cam). The unit operates on one standard 9-volt alkaline battery. When the battery is weak, the horn will emit an intermittent low battery alert signal.

The alarm can automaticaly re-arm with a 1½, 3 or 4½ minute time delay upon request.

Alarm kits are available with a choice of two switch kits, RX or LX. RX monitors the touchpad and is furnished standard. LX optional latch bolt monitoring is recommended for use with surface vertical rod exit devices or when alarm needs to sound from both the exit device and trim side of the door. Specify ALK-LX.

Note: For latch bolt monitoring on a 98/9975 with ALK, specify a SS7500 lock. LX switch not available for 98/9975 devices.

The ALK is available in two styles, 99ALK, grooved cover and 98ALK, smooth cover.

The ALK includes a 6" x 20" decal for application on door "EMERGENCY EXIT ONLY. ALARM WILL SOUND. "RSS push bar trim can be used instead of the door decal, specify RSS push bar trim when ordering the device.

When the ALK is used, standard dogging is removed. If cylinder dogging is required there are two choices. Special center case dogging is available or for 3' or 4' doors. The ALK can be moved to the hinge side of the device and standard cylinder dogging can be added.

To Order, Specify:

1. Standard, 98 ALK
2. Cylinder Dogging, CD98 ALK
3. Special Center Case Dogging, SD98 ALK
4. If AR desired, specify AR 1½, 3 or 4½

Minimum Door Opening Sizes on ALK Applications

Device	3' (914mm) Length	4' (1219mm) Length
98/98-F/99/99-F	2'10" (864mm)	3'4" (1016mm)
9875/9875-F/9975/9975-F	2'10" (864mm)	3'4" (1016mm)
9827/9827-F/9927/9927-F	2'10" (864mm)	3'4" (1016mm)
9857/9857-F/9957/9957-F	2'10" (864mm)	3'4" (1016mm)
9847/9847-F/9947/9947-F	2'9" (838mm)	3'3" (991mm)
9848/9848-F/9948/9948-F	2'9" (838mm)	3'3" (991mm)
9849/9849-F/9949/9949-F	2'9" (838mm)	3'3" (991mm)
9849/9849-F/9949/9949-F	2'9" (838mm)	3'3" (991mm)

E Electric Mortise Lock Device

The electric mortise lock device has all the versatility and advantages of the standard mortise lock device, plus the advantage of being electrically controlled by a remote switching device, an access control system or an automatic fire alarm system. The device features the E7500 mortise lock. The E7500 controls the locking of the outside trim. When unlocked, the door remains latched, preserving the fire rating of the door and making it particularly useful where codes permit locking but require unlocking during a fire emergency. The outside trim cylinder retracts the latch bolt for mechanical override, night latch function. Only available with TP, K or L functions.

The E7500 lock contains a SPDT signal to monitor the outside trim condition (locked or unlocked) and a second SPDT signal switch to monitor the latch bolt.

Standard Features:
- Field reversible handing
- 24 VDC continuous duty solenoid

Optional Features:
- Fail safe (locked when energized, unlocked when de-energized or during power failure). Specify with suffix "FS."
- Fail secure (unlocked when energized, locked when de-energized or during power failure). Specify with suffix "FSE"
- 24 VAC (with SO option)
- 12 VDC
- 12 VAC (with SO option)

Note: Some Fire codes will require "Fail Safe" (FS) operation for stairwell doors. Be sure to specify the correct operation for your application.

Electrical Specifications:
- Solenoid — .60 AMPS @ 12VDC
  .30 AMPS @ 24VDC
- Each switch — Up to 2.0 AMPS @ 24VDC Maximum

The E option does not include the power transfer from door to frame, the power supply or the control operator. (Refer to EPT-10 and PS902 or PS914 power supply)

To Order, Specify:
1. Use prefix "E," example E9975.
2. FS or FSE
3. Voltage and current.

Electric Mortise Lock Device
Adaptable for openings where continuous latching is required while the trim may be electrically locked or unlocked from a remote location—stairwells, exterior doors, etc.
Minimum System Requirements:
- PS902
- EPT-10

EL Electric Latch Retraction

The EL feature allows for the remote unlatching of exit devices. A control station operator can flip a switch to retract the latch bolt and immediately change an exit door to push-pull operation. A powerful, continuous duty solenoid retracts the latch bolt, either for momentary unlatching, or for extended periods of time. The EL feature is an alternative to manual dogging.

If manual hex-key dogging is required, specify HD-EL. If cylinder dogging is required, the standard cylinder dogging is not available, but special center case dogging is available, specify SD-EL. SD-EL is not available on the 9875 or 9975 devices.

EL devices are also useful with automatic door operators, and may be applied to fire-rated applications when under the control of an **automatic fire alarm system.**

UL approved for Class II circuit applications.

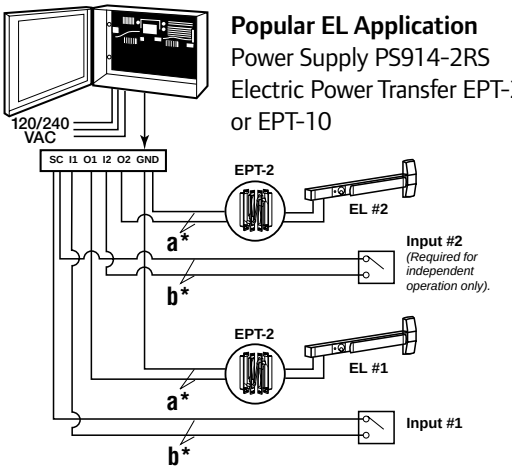
The EL option does not include the power transfer from door to frame, the power supply, or the control operator. Refer to EPT-2 power transfer and the PS914 power supply.

The PS914 with the 9002RS option card is the minimum option card required. Other option cards available for other functions, see PS914 power supply for additional information.

Solenoid Specifications:
Continuous Duty — 24 VDC
Current Inrush — 16 Amps
Current Holding — 0.3 Amps

Solenoid Resistance:
-grn-yel 1.2 – 2.2 OHMS
-grn-org 100 – 150 OHMS

To Order, Specify:
Standard — Use prefix EL, example EL99L.
Hex Key dogging — Use prefix HD-EL, example HD-EL99L
Special Center Case Dogging — Use prefix SD-EL, example SD-EL99L



Popular EL Application
Power Supply PS914-2RS
Electric Power Transfer EPT-2 or EPT-10

	Von Duprin Exit Device	EL Wire Length (feet)[1]	Wire Gauge (AWG)
a*	EL 98/99 Rim	0-500	12
		0-300	14
		0-200	16
	All other 98/99EL device types	0-250	12
		0-150	14
		0-100	16
b*	Control Switch	0-1200	18

1. Wire lengths include an EPT, Door loop, electric hinge or pivot and are measured one way between the PS914/option board and the device.
2. Table is applicable to devices that have shipped after August 2012.

QEL Quiet Electric Latch Retraction

The QEL feature allows for the remote unlatching of exit devices. A control station operator can flip a switch to retract the latch bolt and immediately change an exit door to push-pull operation. Different than the popular EL, the QEL quiet operation is achieved using an electric drive motor which retracts the latch bolt either momentary unlatching or for extended periods of time. This feature is an alternative to manual dogging.

If cylinder dogging is required, the standard cylinder dogging is not available, but special center case dogging is available, specify SD-QEL. SD-QEL is not available on the 9875 or 9975 devices.

QEL devices are also useful with automatic door operators, and may be applied to fire-rated applications when under the control of an **automatic fire alarm system.**

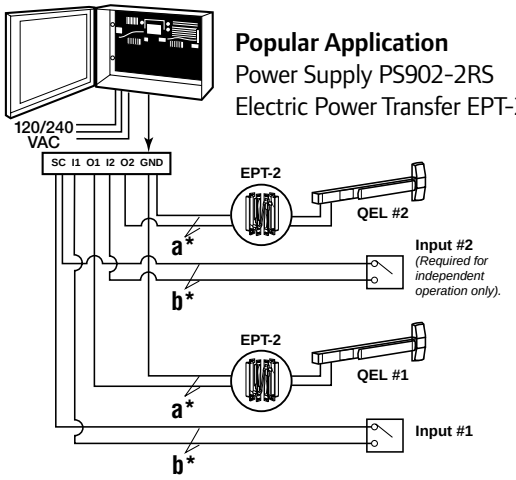
UL approved for Class II circuit applications.

The QEL option does not include the power transfer from door to frame, the power supply, or the control operator. Refer to EPT-2 power transfer and the PS902 or 914 power supply.

The PS902/914 with the 2RS, 4RL or 4R board is the minimum required. Other option boards available for other functions, see PS902/914 power supply for additional information.

QEL Electrical Load	
Voltage	24VDC
Current	1.4 A Inrush (0.5 sec.) 0.14 A Holding 2.0 A Calibrate (3 sec. one time)

To Order, Specify:
Standard — Use prefix QEL, example QEL99L.
Special Center Case Dogging — Use prefix SD-QEL, example SD-QEL99L



Popular Application
Power Supply PS902-2RS
Electric Power Transfer EPT-2 or EPT-10

a*

Distance (one-way)	Wire Gauge
200´	18 AWG
320´	16 AWG
500´	14 AWG
800´	12 AWG

b*

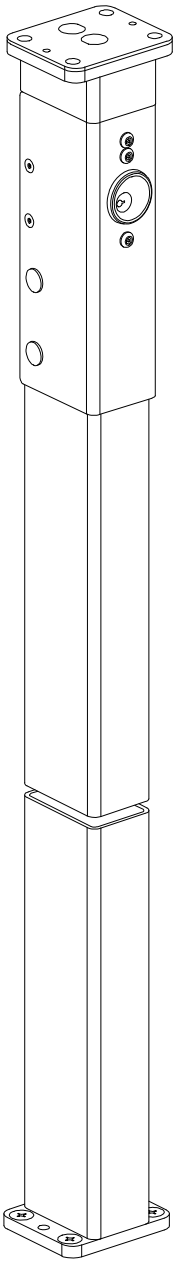
Wire Selection	Switch Wire Size
1200 ft. Max.	18 gauge standard

VON DUPRIN®

PARTS MANUAL

May 2013

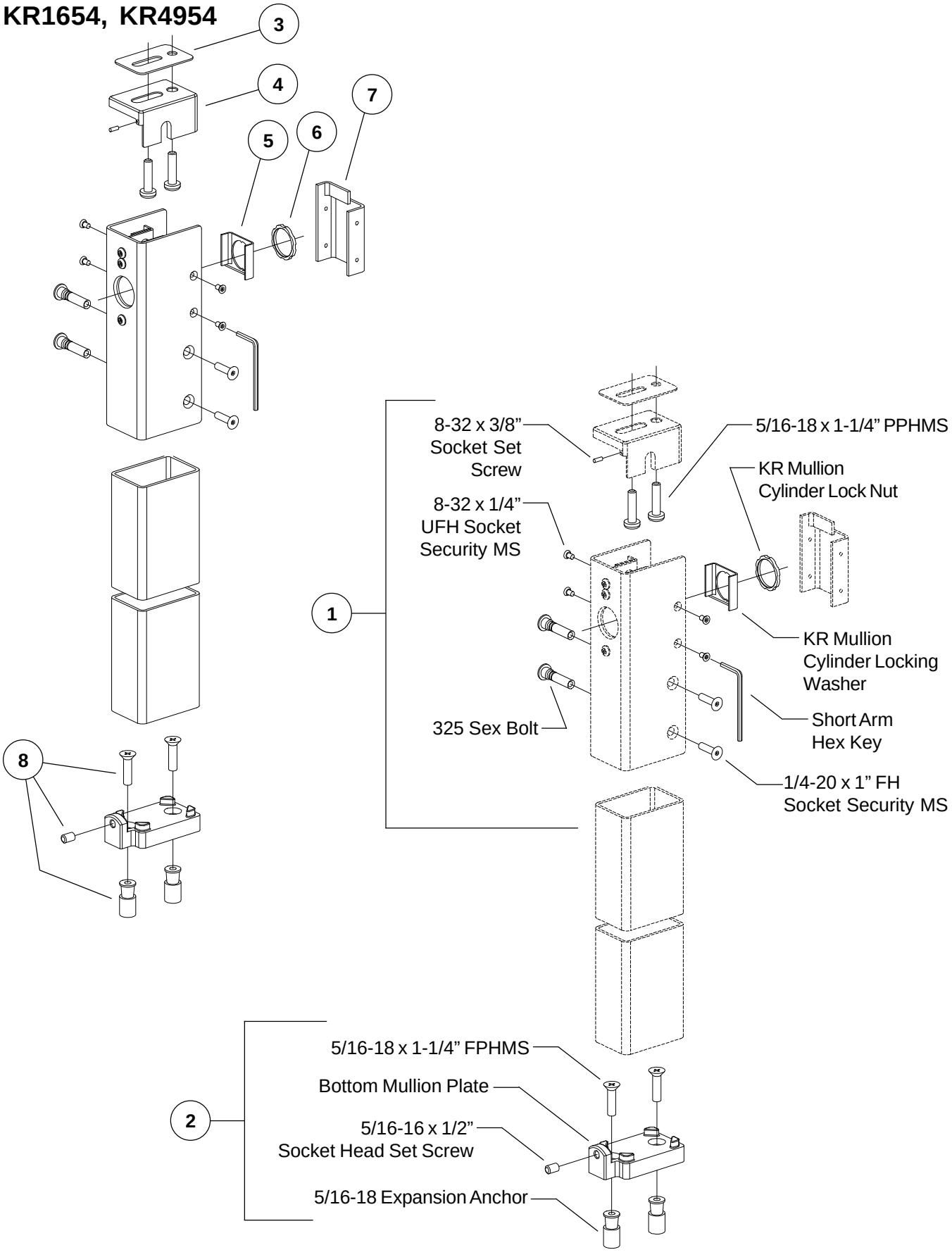
54 SERIES MULLIONS



Ingersoll Rand
Security Technologies

PM54_D
VD-5559

KR1654, KR4954



KR1654, KR4954

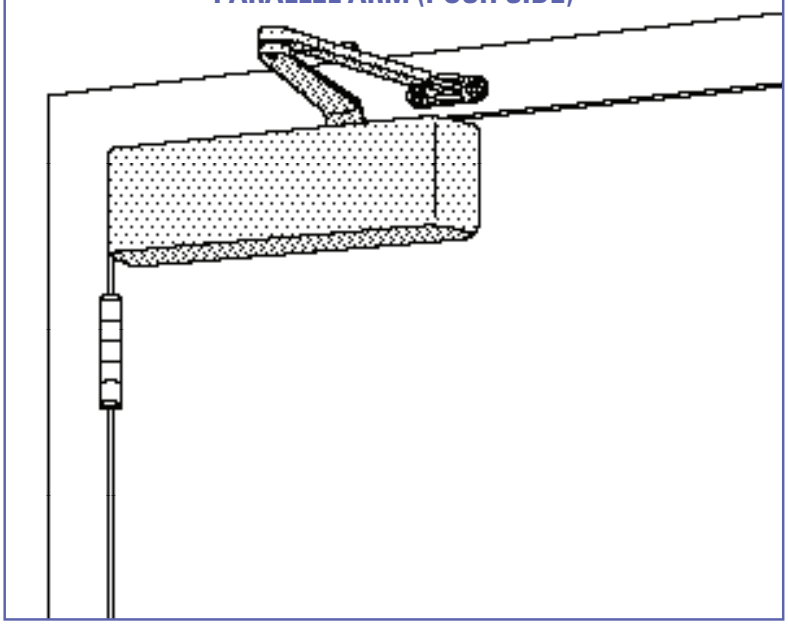
Item No.	Part No.	Description	Quantity	Finish
1	900409	KR1654/KR4954 Mullion Mounting Pkg.		X
		325 Sex Bolt	2	
		1/4-20 x 1 FH Socket Security MS	2	
		8-32 x 1/4” UFH Socket Security MS	4	
		Short Arm Hex Key	1	
		5/16-18 x 1-1/4” PPHMS	2	
		8-32 x 3/8” Socket Set Screw	1	
		KR Mullion Cylinder Locking Washer	1	
		Cylinder Locknut Nitched	1	
2	050390	4754/4854/4954 Bottom Fitting		X
		Bottom Mullion Plate	1	
		5/16-18 x 1/2” Socket Head Set Screw	1	
		5/16-18 Expansion Anchor	2	
		5/16-18 x 1-1/4” FPHMS	2	
3	971212	KR Shim Plate	1	
4	971340	KR1654/KR4954 Top Fitting	1	X
5	971328	KR Mullion Cylinder Locking Washer	1	
6	050526	KR Mullion Cylinder Lock Nut	1	
7	971187	KR Inner Mullion Back Cover Plate	1	X
8	900402	Mullion (Bottom) Screw Pkg.		
		5/16-18 x 1/2” Socket Head Set Screw	1	
		5/16-18 Expansion Anchor	2	
		5/16-18 x 1-1/4” FPHMS	2	

X in “Finish” column designates finished item; specify finish when ordering.

LCN 4040 SERIES

FEATURES

CLOSER MOUNTS
HINGE (PULL SIDE) (Shown)
TOP JAMB (PUSH SIDE)
PARALLEL ARM (PUSH SIDE)

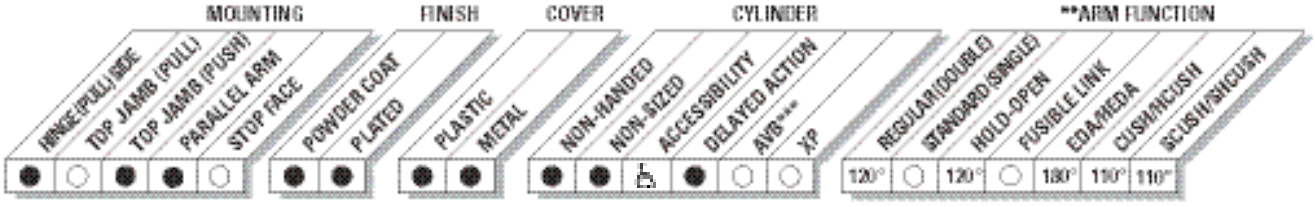


The 4040 SUPER SMOOTHEE® is LCN's most flexible heavy duty closer designed for institutional and other rugged high traffic applications.

- **Ten Million Cycles**
- **Cast Iron**
- **Forged Steel Arm**
- **Double Heat Treated Steel Pinion**
- **All Weather Fluid**
- **Non-Handed**
- **LCN® Fast™ Power Adjust**
- **Fast & Accurate Installation**
- **UL & cUL Listed**
- **For XP See Page 40**

- Standard 4040 series closer shipped with regular arm, standard plastic clip-on cover, and self reaming and tapping screws. See 4040 Series pages 45-47 for options.
- Non-sized cylinder is adjustable for interior doors to 5'0" and exterior doors to 4'0".
- Closer mounts hinge side, top jamb, and parallel arm w/PA Shoe on either right or left swinging doors.
- Closers to meet ADA requirements. See 4040 Series page 48.
- Standard or optional custom powder coat finish.
- Optional plated finish on cover, arm, and fasteners.
- Optional SRI primer for installations in corrosive conditions.
- UL and cUL listed for self-closing doors without hold-open.
- Tested and certified under ANSI Standard A156.4, grade one.

The 4040 Series includes the **LCN® FAST™ Power Adjust,** *a revolutionary visual indicator for Spring Power Adjustment.*



● *Available*
○ *Not available*

Closer available with less than 5.0 lbs. opening force on 36" door.
***Maximum opening/hold-open point with standard template.*
**** Advanced Variable Backcheck*

LCN CLOSERS
121 W. RAILROAD AVE.
P.O. BOX 100
PRINCETON, IL, USA 61356-0100

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FAX 800-248-1460
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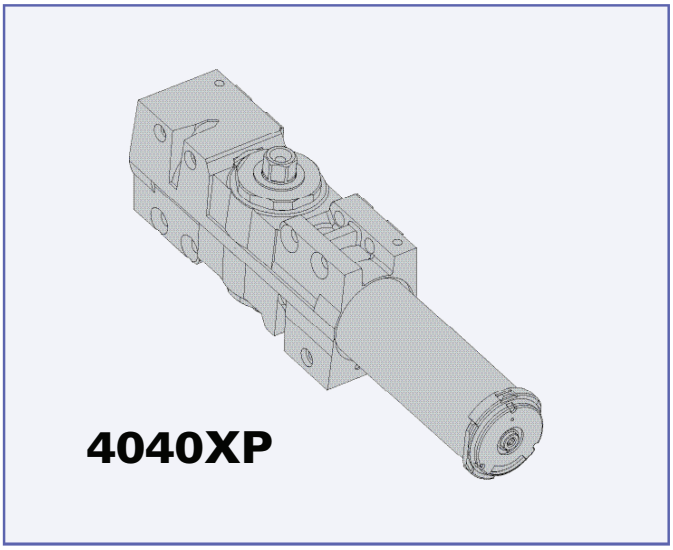
LCN 4040 SERIES

FEATURES



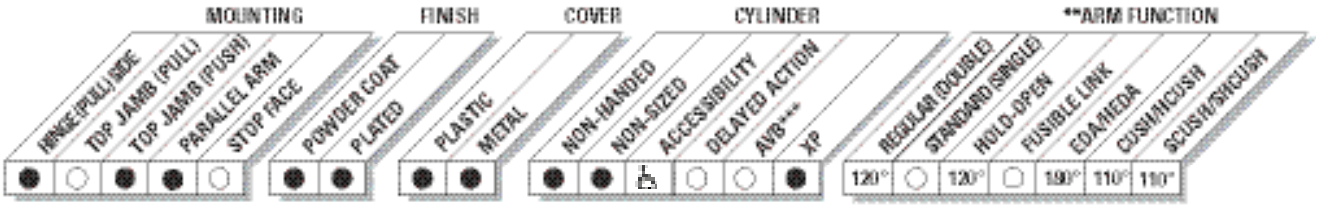
4040XP

The 4040XP is LCN's most durable heavy duty closer designed for the most demanding, high use and abuse applications.

- 44% increased bearing load capacity
- Strongest pinion ever- at 3/4" journal diameter
- Widest bearing ever- at 5/8"
- Stronger pinion teeth
- New V-shield™ seal with longer life
- XP = eXtra Protection in real world applications
- Cast Iron
- Forged Steel Arm
- Double Heat Treated Steel Pinion
- All Weather Fluid
- Non-Handed
- LCN® Fast™ Power Adjust
- Fast & Accurate Installation
- UL & cUL Listed
- Tested and certified under ANSI Standard A156.4, grade one

- Non-sized cylinder is adjustable for interior doors to 5'0" and exterior doors to 4'0".
- Closer mounts parallel arm (EDA arm) on either right or left swinging doors.
- Optional hinge side and top jamb mount with optional regular arm.
- Closers to meet ADA requirements. See 4040XP Series page 49.
- Standard or optional custom powder coat finish.
- Optional plated finish on metal cover, arm and fasteners.
- Optional SRI primer for installations in corrosive conditions is available with powder coat only.
- UL and cUL listed for self-closing doors without hold-open.
- 4040XP can be used with all 4041 accessories. See pages 45-47 for options.

The 4040 Series includes the **LCN® FAST™ Power Adjust,** *a revolutionary visual indicator for Spring Power Adjustment.*



● *Available*
○ *Not available*

♿ *Closer available with less than 5.0 lbs. opening force on 36" door.*
***Maximum opening/hold-open point with standard template.*
**** Advanced Variable Backcheck*

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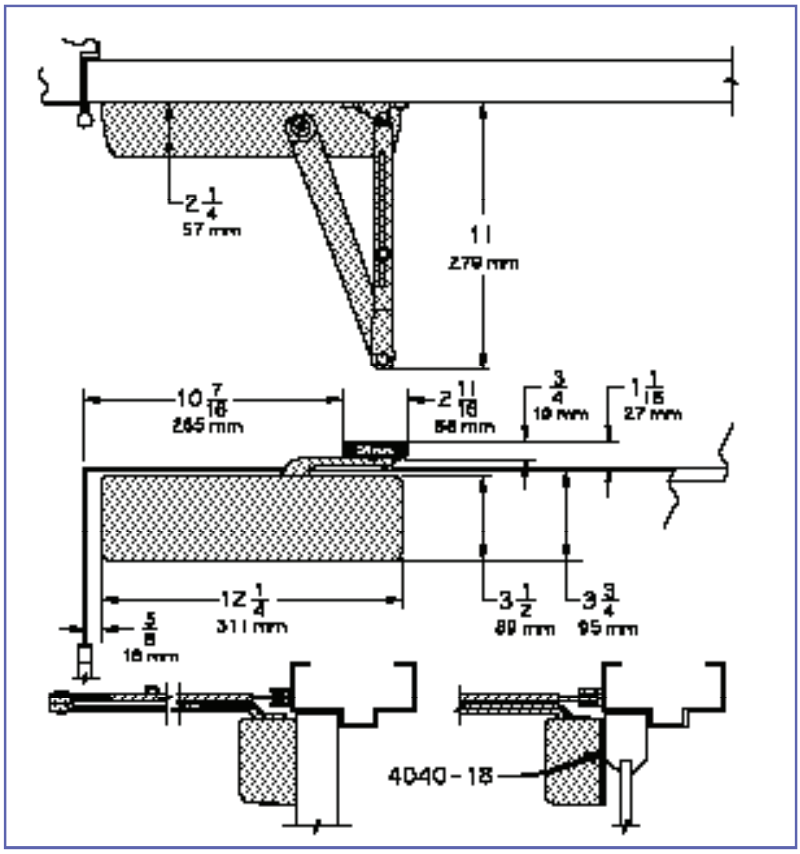
LCN 4040 SERIES

HINGE (PULL) SIDE MOUNTING

MAXIMUM OPENING

Templating allows up to 120°.

Hold-open points 90° up to 120° with hold-open arm.



- **Butt Hinges** should not exceed 5" (127 mm) in width.
- **Auxiliary Stop** is recommended at hold-open point or where a door cannot swing beyond 120°.
- **Reveal** should not exceed 3/4" (19 mm) for regular arm or hold-open arm.
- **Top Rail** less than 3 3/4" (95 mm) requires PLATE, 4040-18. Plate requires 2" (51 mm) minimum.
- **Clearance** of 2 3/8" (60 mm) behind door required for 90° installation.
- **Delayed Action** (not available on 4040XP) Add suffix "DEL" to selected cylinder (eg. 4041 DEL). Delays closing from 120° to 70°. Delay time adjustable up to approximately 1 minute.

Options

- 4040XP cylinder
- 4041 Delayed action cylinder.
- Hold-open arm.
- Metal cover.

Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN for assistance.

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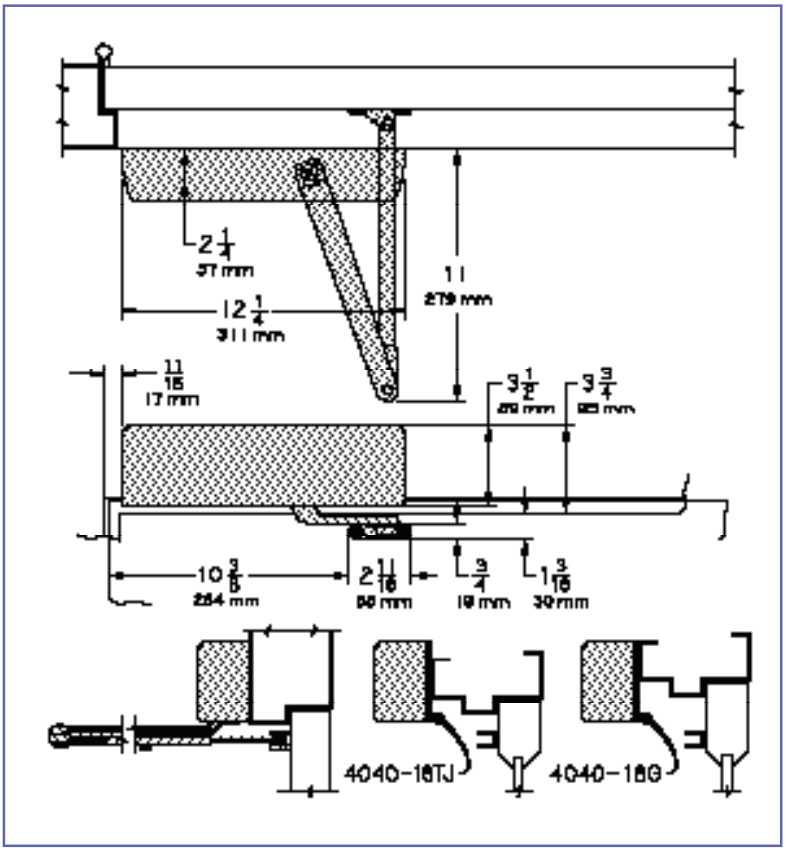
MOUNTING DETAILS



TOP JAMB (PUSH SIDE) MOUNTING

MAXIMUM OPENING

Templating allows up to 120°.

Hold-open points 85° up to 120° with hold-open arm.

- **Butt Hinges** should not exceed 5" (127 mm) in width.
- **Auxiliary Stop** is recommended at hold-open point or where the door cannot swing 120°.
- **Reveal** of 2 9/16" (65 mm) allows 120° opening for REGULAR ARM or standard HOLD-OPEN ARM. 4 13/16" (122 mm) allows up to 120° opening with LONG ARM where standard rod and shoe is replaced with optional LONG ROD AND SHOE 4040-79LR. Use H-LONG ARM with LONG HEAD AND TUBE, 4040-78HL for hold-open. 8" (203 mm) allows up to 120° opening with EXTRA LONG ARM where standard rod and shoe is replaced with optional EXTRA LONG ROD AND SHOE, 4040-79ELR.
- **Top Rail** requires 1 1/4" (32 mm) minimum.
  2 1/4" (57 mm) minimum with closer on PLATE, 4040-18TJ.
  3" (76 mm) minimum with closer on PLATE, 4040-18G.
- **Head Frame** less than 3 1/2" (89 mm) requires PLATE, 4040-18TJ.
  With flush ceiling, use PLATE, 4040-18G.
  Either plate requires 1 3/4" (44 mm) minimum.
- **Delayed Action** (not available on 4040XP) Add suffix "DEL" to selected cylinder (eg. 4041 DEL). Delays closing from 120° to 80°. Delay time adjustable up to approximately 1 minute.

Options

- 4040XP cylinder
- 4041Delayed action cylinder.
- Long arm, extra long arm, hold-open arm, long hold-open arm.
- Metal cover.

Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN for assistance.

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LCN 4040 SERIES

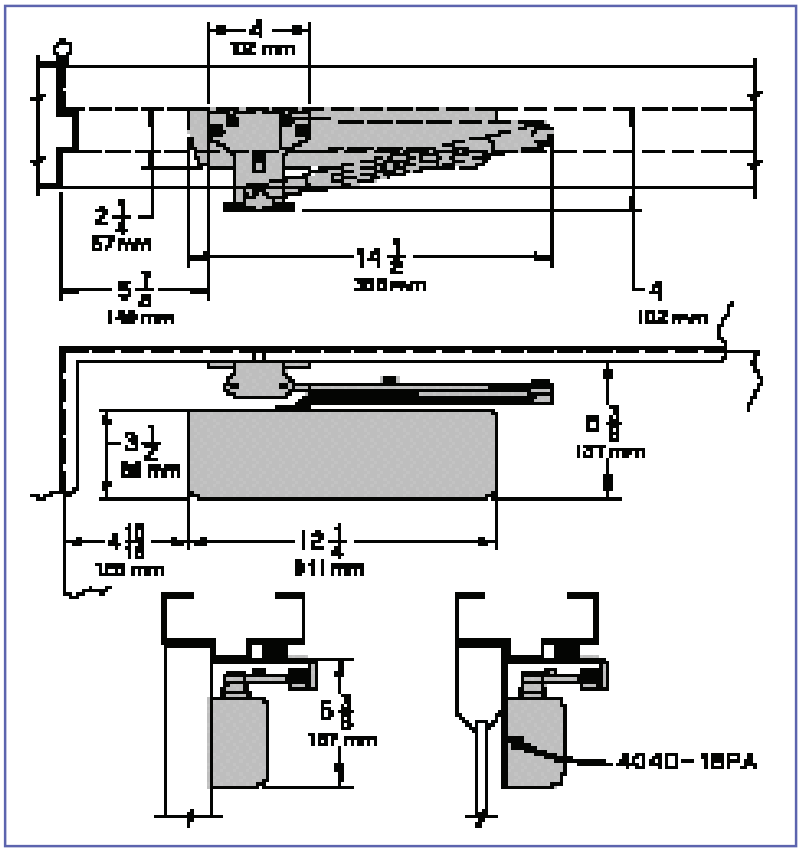
PARALLEL ARM (PUSH SIDE) MOUNTING

Optional mounting requires PA SHOE, 4040-62PA for REGULAR or HOLD-OPEN arms. Add prefix "P" to closer description (eg. P4041). P4041 closer includes 4040-201 FIFTH HOLE SPACER to support PA SHOE.

MAXIMUM OPENING

180° opening/hold-open points with all except CUSH arms.

110° opening/hold-open with CUSH arms.



- **Butt Hinges** should not exceed 5" (127 mm) in width.
- **Auxiliary Stop** is recommended at hold-open point, where the door cannot swing 180°, or where CUSH-N-STOP arm is not used.
- **Clearance** for 4040-62PA shoe is 4" (102 mm) from door face.
  EDA shoe projects 5 1/2" (140 mm) from door face.
  CUSH shoe projects 6" (152 mm) from door face.
- **Top Rail** less than 5 3/8" (137 mm) measured from the stop requires PLATE, 4040-18PA. Plate requires 2" (51 mm) minimum from the stop.
- **Head Frame** flush or rabetted requires PA SHOE ADAPTER, 4040-419.
- **Stop Width** minimum 1" (25 mm).
- **Blade Stop** clearance requires 1/2" (13mm) BLADE STOP SPACER, 4040-61.
- **Delayed Action** (not available on 4040XP) Add suffix "DEL" to selected cylinder (eg. P4041 DEL). Delays time adjustable up to approximately 1 minute.

Options

- 4040XP cylinder
- 4041Delayed action cylinder.
- Hold-open, EDA, HEDA, CUSH, HCUSH, SPRING CUSH, or SPRING HCUSH arm.
- Metal cover.

Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN for assistance.

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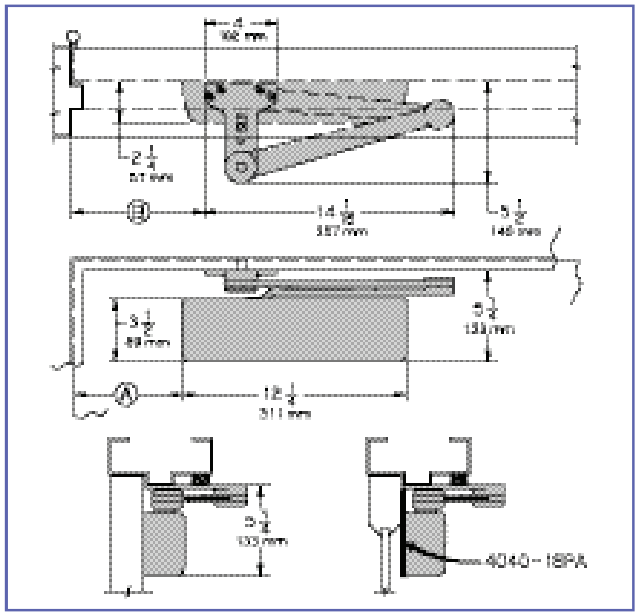
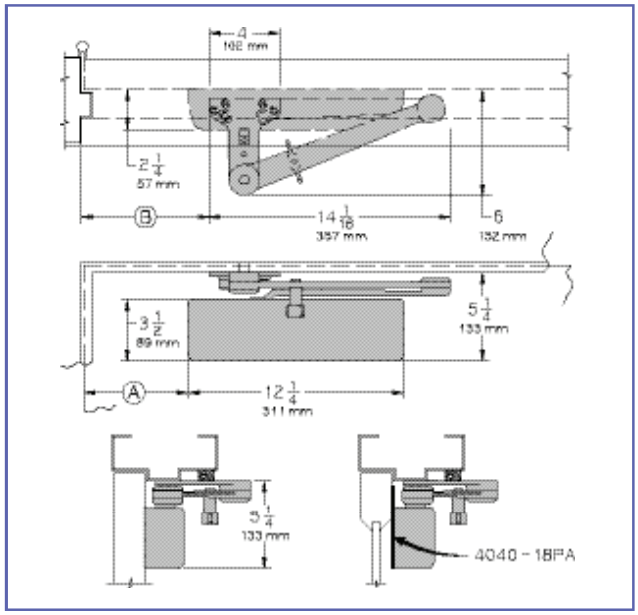
LCN 4040 SERIES

Mounting details are the same as 4040 Series REGULAR or HOLD-OPEN except as listed below. 4040 Series closers ordered with EDA or CUSH arms include 4040-201 FIFTH HOLE SPACER to support the shoe.

4040 SERIES EDA MOUNT



4040 SERIES CUSH MOUNT



- **Clearance** for 4040-62EDA is 5 1/2" (140 mm) from door face. 6" (152 mm) for CUSH.
- **Head Frame** flush or rabetted requires CUSH FLUSH PANEL ADAPTER, 4040-419.
- **CUSH ARM** requires SHOE SUPPORT, 4040-30 for fifth screw anchorage for narrow frames.
- **Delayed Action** (not available on 4040XP) Add suffix "DEL" to selected cylinder (eg. 4041 DEL). Delays closing from maximum opening to; 115˚ with 180˚ template. 95˚ with 110˚ template. 85˚ with 100˚ template. 75˚ with 90˚ template. Delay time adjustable up to approximately 1 minute.

MAXIMUM OPENING

EDA arm can be templated for points at: 110°,
Ⓐ = 6 3/8" (162 mm)
Ⓑ = 7 3/4" (197 mm)
or 180°.
Ⓐ = 2 7/8" (73 mm)
Ⓑ = 4 1/4" (108 mm)
Hold-open points up to maximum opening with HEDA arm.

CUSH arms can be templated for opening/hold-open point at:
85°,
Ⓐ = 7 15/16" (202 mm)
Ⓑ = 9 1/8" (232 mm)
90°,
Ⓐ = 7 3/16" (183 mm)
Ⓑ = 8 1/2" (216 mm)
100°,
Ⓐ = 6 1/16" (154 mm)
Ⓑ = 7 1/4" (184 mm)
or 110°.
Ⓐ = 5 1/16" (129 mm)
Ⓑ = 6 3/8" (162 mm)

Spring Cush dead stop points are approximately 5˚ more than templated stop point. Hold open at templated stop points.

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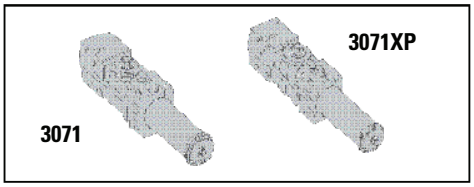
LCN 4040 SERIES

CYLINDERS

CYLINDER, 4041-3071
Standard, non-handed cast iron cylinder assembly.

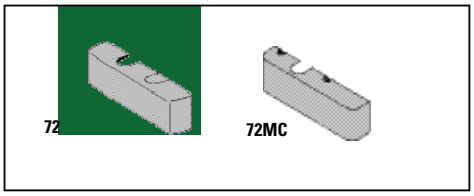
CYLINDER, 4040XP-3071
Heavy duty, non-handed cast iron cylinder assembly.



COVERS

COVER, 4040-72
Standard, non-handed plastic clip-on cover.

METAL COVER, 4040-72MC
Optional, handed cover. Required for plated finishes and custom powder coat finishes.



ARMS

REGULAR ARM, 4040-3077
Non-handed arm mounts pull side or top jamb with shallow reveal. P4041 closer includes PA SHOE, 4040-62PA required for parallel arm mounting.

PA SHOE, 4040-62PA
Required for parallel arm mounting.

LONG ARM, 4040-3077L
Optional non-handed arm includes LONG ROD AND SHOE, 4040-79LR for top jamb mount.

EXTRA LONG ARM, 4040-3077ELR
Optional non-handed arm includes EXTRA LONG ROD AND SHOE, 4040-79ELR for top jamb mount with deep reveal.

HOLD-OPEN ARM, 4040-3049
Optional, non-handed arm mounts pull side or top jamb with shallow reveal, hold-open adjustable shoe. P4041 closer includes 4040-62PA shoe required for parallel arm mounting.

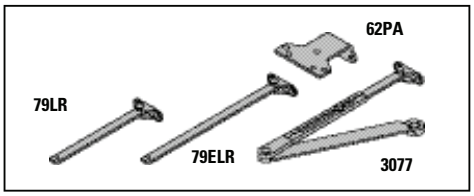
LONG HOLD-OPEN ARM, 4040-3049L
Optional non-handed arm includes LONG HEAD AND TUBE, 4040-3048L for top jamb mount.

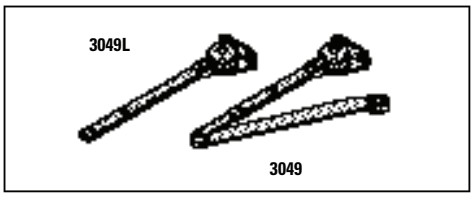
EXTRA DUTY ARM, 4040-3077EDA
Non-handed parallel arm features forged, solid steel main and forearm for potentially abusive installations.

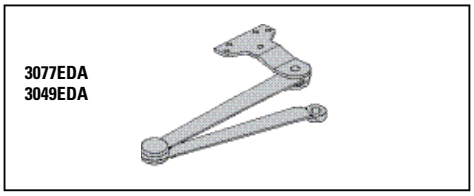
HOLD-OPEN EXTRA DUTY ARM, 4040-3049EDA
Optional handed arm provides hold-open function, adjustable at the shoe.

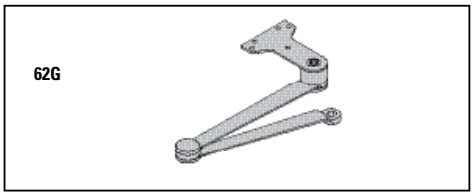
EDA ARM w/THICK HUB SHOE, 4040-3077EDAG
Optional for blade stop clearance, requires special templating.

HEDA ARM w/THICK HUB SHOE, 4040-3049EDAG
Optional for blade stop clearance, requires special templating.









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ARMS cont.

CUSH-N-STOP® ARM, 4040-3077CNS

Optional, non-handed parallel arm features solid forged steel main arm and forearm with stop in soffit shoe.

HCUSH ARM, 4040-3049CNS

Provides hold-open function with templated stop/hold-open points. Handle controls hold-open function.

SPRING CUSH ARM, 4040-3077SCNS

Optional, non-handed parallel arm for abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe.

SPRING HCUSH ARM, 4040-3049SCNS

Optional, non-handed parallel arm for abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe. Handle controls hold-open function.

INSTALLATION ACCESSORIES

PLATE, 4040-18

Required for hinge side mount where top rail is less than 3 3/4" (95 mm). Plate requires minimum 2" (51 mm) minimum top rail.

PLATE, 4040-18G

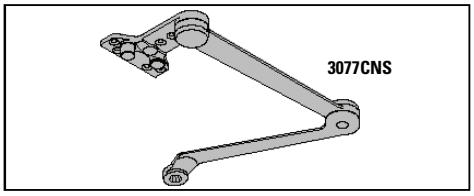
Locates top jamb mounted closer flush with top of head frame face in flush ceiling condition. Plate requires 1 3/4" (44 mm) minimum head frame.

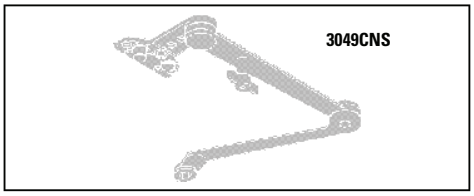
PLATE, 4040-18TJ

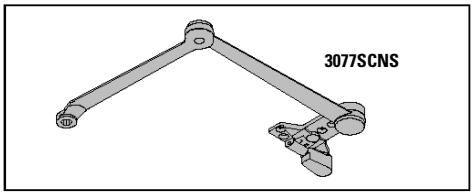
Centers top jamb mounted closer vertically on head frame where face is less than 3 1/2" (89 mm). Plate requires 1 3/4" (44 mm) minimum head frame.

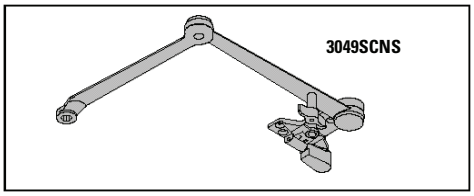
PLATE, 4040-18PA

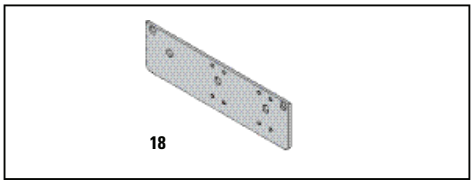
Required for parallel arm mounting where top rail is less than 5 1/2" (140 mm), measured from the stop. Plate requires 2" (51 mm) minimum top rail.

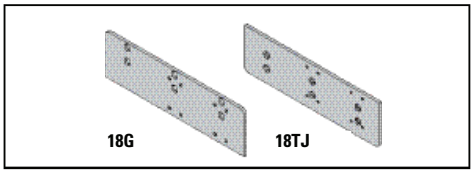


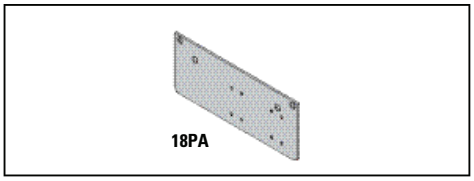












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LCN 4040 SERIES

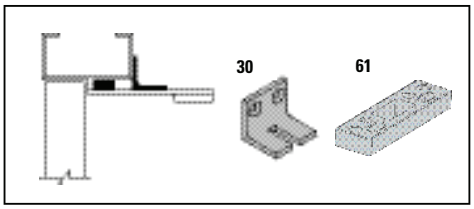
INSTALLATION ACCESSORIES cont.

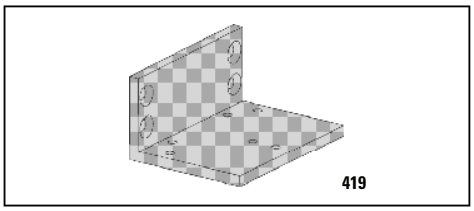
CUSH SHOE SUPPORT, 4040-30 provides anchorage for fifth screw used with CUSH arms, where reveal is less than 3 1/16" (78 mm).

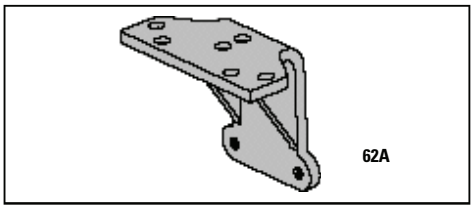
BLADE STOP SPACER, 4040-61 required to lower parallel arm shoe to clear 1/2" (13 mm) blade stop.

PA FLUSH PANEL ADAPTER, 4040-419 provides horizontal mounting surface for PA or CUSH shoe on single rabetted or flush frame.

AUXILIARY SHOE, 4040-62A requires a top rail of 7" (178 mm). Optional shoe replaces -62PA for parallel arm mounting of regular arm with overhead holder/stop.







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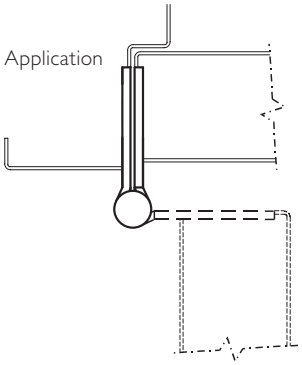
Five Knuckle Heavy Weight Full Mortise Series

Recommended for use on high frequency and/or heavy wood or metal doors in schools, hospitals or other public buildings where heavy traffic is experienced.

- Heavy weight hinges should be used on all extra heavy doors or those exposed to high frequency use
- T4A3386- Stainless steel base or available in brass base material polished
- T4A3786- Steel base material
- For Beveled Edge, where doors are beveled on hinge side, specify T4A4386 or T4A4786
- For available finishes see page 29

T4A3386
T4A3786



Note: 8" x 6" and 8" x 8" have six bearings. Specify T6B3386 or T6B3786

No.	ANSI Cross Reference	Base Material	Weight
T4A3386	A5111	Stainless	HVY
T4A3386	A2111	Brass	HVY
T4A3786	A8111	Steel	HVY

Specifications

				Fasteners	
Inches	mm	Gauge	No. of Holes	Machine	Wood
4½ x 4	114.3 x 101.6	.180	8	½ x 12-24	1¼ x 12
4½ x 4½	114.3 x 114.3	.180	8	½ x 12-24	1¼ x 12
5 x 4½	127 x 114.3	.190	8	½ x 12-24	1¼ x 12
5 x 5*	127 x 127	.190	8	½ x 12-24	1¼ x 12
6 x 5*	152.4 x 127	.203	8	½ x ¼-24	1¼ x 14
6 x 6*	152.4 x 152.4	.203	10	½ x ¼-20	1½ x 14
8 x 6*	203.2 x 125.4	.203	16	½ x ¼-20	1½ x 14
8 x 8*	203.2 x 203.2	.203	16	½ x ¼-20	1½ x 14

* Not available in brass base material

Options:

Code	Description
NRP	Non-Removable Pin
T4B	Ball Bearing
TCA	Concealed Bearing
RC	Round Corner - ¼" radius furnished unless specified otherwise
HT	Hospital Tip
BT	Ball Tip
ST	Steeple Tip
SSF	Safety Stud Feature
RB	Raised Barrel*
QC	ElectroLynx® Hinge - 2, 4, 6, 8, 10 or 12 wire available
CC	Concealed Circuit - 2, 4, 6, 8, 10 or 12 wire available
CC-18	Concealed Circuit - 2, 4, 6, 8 or 10 wire available (2-18AWG wires and the remainder 28AWG wires)
MM	Magnetic Monitoring

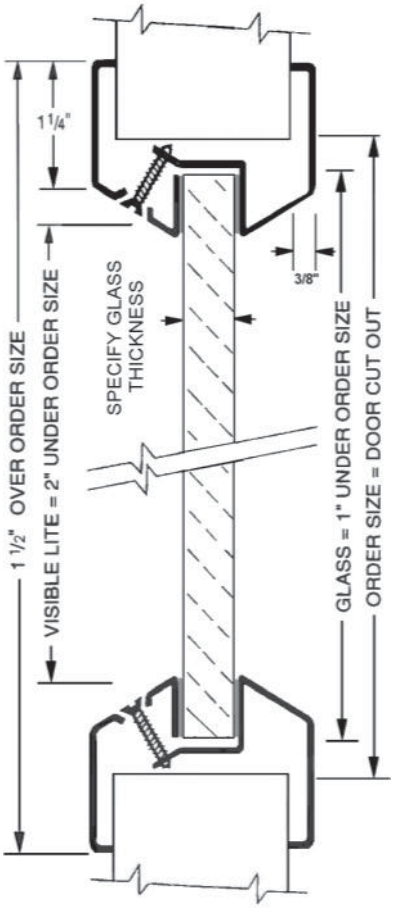
* Refer to page SP-3 for Raised Barrel

BEVELED VISION LITE FOR ¼ - 1" GLAZING & UP TO 2-1/2" DOOR: VLFEZIG REV A V5

Recommended for Applications Requiring Fire Rated, Safety, and or Insulated Glazing 5/16" to 1" Thick

SPECIFICATIONS:

Material:	20 gauge CRS frame. Min Size 3" x 3", Max 60" x 104". See Fire Rating Below.
Construction:	1-1/4" trim with radius corners, mitered and welded. Continuous glass retainer, countersunk mounting holes either in the bevel or on the face of the non-corridor side, depending on thickness required. Frame projects 3/8".
Door:	1-3/8 - 2-1/2" door. Specify door thickness: _____ **Door cutout = order size.**
Fasteners:	#8 x 1" flathead phillips SMS to match finish.
Powder Coat Finishes:	____ **(B)** Mineral Bronze (standard color) ____ **(BK)** Black ____ **(FBK)** Flat Black ____ **(W)** White ____ **(SB)** SC Beige ____ **(SI) Silver** ____ **(R)** Red ____ **(S)** Sand ____ **(G)** Gray Primer ____ **(AB)** AMS Beige ____ **(GH)** Gray Hammertone **View Colors Online**
Glass:	_____**" Glass Thickness Will Be Used for this Order** 5/16" - 1" glazing to be ordered separately from **Glazing Section** of catalog. Use fire rated glazing with Warnock Hersey (WHI) or UL classification markings for fire rated applications. Visible light is 2" under rough opening size. Glass is 1" under order size. Must specify glass thickness above. ***Fire-Rated Air Louvers Glazing to fit this vision frame: WS, UL PYRO, KFRL, KFRFU, SWISS45, CONTRA60, ARMRSHIELD, LGSHIELD.*** If glazing is being provided by a supplier other than Air Louvers, coordinate with the supplier to ensure compatibility with IG kits.
Fire-Rating, Testing & Listings:	When installed in properly rated and approved door, ratings up to 3 hours can be achieved, depending on the glazing used. See glazing ratings for max exposed area. Tested and Listed for UL 10C and Criteria of UBC 7-2 Positive Pressure.



OPTIONS AT ADDITIONAL COST:

UBC 7-2 Installation:	_____ Additional intumescent tape for **Positive Pressure UL10C** 20 minute combustible core wood doors installation. See detailed installation instructions.
Finishes & Materials:	_____ **(S)** 20 Gauge Stainless Steel: #4 Finish. _____ **(G)** Galvanized Sheet for Exterior Applications. _____ **(E)** Electro Zinc Plating for Maximum Corrosion Resistance. _____ Optional colors. Please provide color chip & contact Customer Service.
Fasteners:	_____ Torx _____ Other: _____
Mullions:	Factory welded to vision lite & painted. See Mullions Page in this section to order.
Custom:	PAK, smaller or larger sizes. Leadlined. Contact Customer Service for Special Orders.
Miniblind in Vision Lite:	Blinds are sealed between the two lites of glass. See separate **VLFEZIGMB** page in this section to view options.

Order Format: VLFEZIG ____ ____ ____ ____ ____ **Example: VLFEZIG 1212S 01**
Option S,G,EG | W | H | Color | Glass Thickness

Interpretation of Fire and Building Codes May Vary. Consult with the Local Authority Having Jurisdiction (AHJ) to determine appropriate standards.

AIR LOUVERS

Distributor:	**Width:** _____ **x Height:** _____
Architect:	**Quantity:** **Door Thickness:**
Contractor:	**Glass Thickness:**
Project:	**Date:** **Version:** ALPDS0313

800-554-6077 QUOTES@ACTIVARCPG.COM ORDERS@ACTIVARCPG.COM SALES@AIRLOUVERS.COM **FAX:** 952-835-2218
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