RFB948100-01 ADDENDUM #03

DATE: October 23, 2026

PROJECT: 9481.00 DOC 5JD 150 DSM ST Renovation

BID DUE DATE: October 28, 2026 @ 2:00 pm

TO: All Contract Document Holders of Record.

This Addendum forms a part of the bidding and construction documents. This Addendum supersedes and supplements all portions of the original bidding and construction documents dated August 20, 2026, with which it conflicts. Please attach this Addendum to the Project Manual(s) in your possession.

ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED ON THE BID FORM. FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

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1. QUESTIONS/CLARIFICATIONS

a. Please see below for the questions and answers for Addendum 03.

Q1. Could you please confirm the estimated project budget? ConstructConnect lists the project at $1.6 million. Is that correct? We will need this information for bonding purposes. If possible, please break out per bid package.
A1. Please reference Addendum 02 for the overall construction budget. The State will not be providing a budget breakdown for the individual bid packages.

Q2. Please confirm that the General Contractor is responsible for obtaining the building permit.
A2. There are no building permits required for State buildings.

Q3. Please confirm that the General Contractor is responsible for coordinating and paying for the required special inspections.
A3. The only inspection that will be required is an electrical inspection through the State.

Q4. Is there any work to be done at the Basement Level? The plans do not indicate that there is.
A4. The only work required at the Basement Level is electrical work.

Q5. The specs call for all bathroom accessories to be included per Accessory Key and ADA Mounting Height Detail, however some of the items in the detail are not shown in the plans. Which items are we to include?
A5. The details provide general information. Only the accessories keyed on the plans are required.

Q6. Please confirm that there is no contingency to be added to our bid number.
A6. Correct. Contractors should not include contingency in their bid number.

Q7. Will on-site meetings need to be held in a field office, or will other on-site meeting accommodations be provided?
A7. The current plan is to designate an area of the building away from active work for on-site meetings.

Q8. I was unable to make the Pre-Bid Walkthrough on 10/8. Is there any way I could get access to visit the site?
A8. To schedule an additional site visit, please contact the Operations Manager with the 5th District DOC, Lance Wignall, at lance.wignall@iowa.gov or by phone at (515) 250-4864.

Q9. What is the estimated cost for Bid Package #1?
A9. The State will not be providing a budget breakdown for the individual bid packages.

Q10. What is the anticipated schedule on the project?
A10. The preliminary schedule can be found in the Project Manual in Section 00 31 13, *Preliminary Schedule.*

Q11. Will the space remain occupied by the owner during construction?
A11. The building is currently unoccupied and will remain unoccupied during construction. The 5th District Dept. of Corrections (DOC) intends to move in upon completion of the project.

Q12. Please find the attached Allegion product substitution requests for the IDAS DOC 5JD 150 DSM ST Renovation project. Upon review, please reach out with any questions and/or comments.
A12. Electric strikes will be furnished and installed by the State-selected access control contractor identified in Section 01 12 00, *Contract Summary*. They are not included in the door hardware package.

The State coordinated with the Capital Complex Locksmith and Facilities Maintenance Division when preparing the door hardware specification to ensure it meets the building's core & hardware requirements. The State has no objection to the proposed lock cylinders and mortise locks, provided they are compatible with the cores & other hardware information specified in Section 08 71 00, *Door Hardware*.

Q13. Drawing T201 shows the locations of the Cambridge emitters. After reviewing the bidding documents, Cambridge recommended a different number of emitters and a different head-end unit. Its design also indicates that spacing the emitters according to Cambridge's design guidelines may be more cost-effective than the layout shown in the bid documents. Please compare T201 with the Cambridge design drawing and confirm which emitter layout and head-end equipment should be used.
A13. Please refer to IMEG's narrative response below. Applicable revised specification sections and plan sheets are included in Addendum 03.

Q14. Section 27 51 19, 2.02(C) requires the sound masking equipment to be rack mounted or wall mounted on a plywood backboard. The proposed design shows the QTX800 ceiling mounted within 55 feet of the furthest connected emitter. Based on a maximum of eight emitters per QTX800, the bid design would require three units. Please confirm whether the QTX800 is required and, if so, whether the proposed mounting and quantity are acceptable. If the QTX series is to be used, please update the specification accordingly.
A14. Please refer to IMEG's narrative response below. Applicable revised specification sections and plan sheets are included in Addendum 03.

Q15. Section 27 51 19, 2.03(C)(1) specifies 1-pair, 22 AWG cable, while the proposed Cambridge system uses CAT6. Please confirm whether CAT6 is acceptable and whether the specification will be revised.
A15. Please refer to IMEG's narrative response below. Applicable revised specification sections and plan sheets are included in Addendum 03.

Q16. Section 27 51 19, 3.01(E)(1) requires sound-masking speakers to be ceiling hung and not attached to the suspended ceiling system. The DS1320-W-4 emitters are designed to be installed in cutouts in the acoustic tile. Please confirm the required mounting method and whether the specification will be revised.
A16. Please refer to IMEG's narrative response below. Applicable revised specification sections and plan sheets are included in Addendum 03.

Q17. I did not see a floor drain in the ADA Restroom, DM136, on the drawings (one may already exist in space). I would recommend adding it to the project since the floor is being removed. Depending on the floor drain that is selected you are looking at a few hundred dollars in material and labor to mitigate the risk.
A17. Please refer to IMEG's narrative response below. Applicable revised specification sections and plan sheets are included in Addendum 03.

Q18. I just wanted to confirm that our Bid Package #3 goes to the General Contractors, and we do not submit it as a prime bid. Is that correct?
A18. It is the contractor's choice whether to submit its price directly for Bid Package #3 or through a General Contractor.

Q19. I just wanted to confirm we include the $128,053.00 allowance for SEI in Bid Package #3. Do we also coordinate their installation, supervise their team on site, provide submittals for them, pay them, and hold retainage?

A19. Bidders for Bid Package #3 shall include the $128,053 SEI allowance in their base bid. The allowance is for carrying and tracking SEI's work; Bid Package #3 shall not self-perform, duplicate, or separately procure the SEI scope.

Bid Package #3 shall coordinate SEI's work with its rough-in, power, conduit, boxes, fire alarm interfaces, site access, sequencing, and final connections, as required by the Contract Documents. SEI is not required to submit material submittals for approval because the State has already approved them. For additional information about the allowance & SEI scope, refer to Section 01 12 00, 1.09(C)(5)(d).

SEI will be treated as a subcontractor to Bid Package #3. SEI will submit its invoice to Bid Package #3, which will include the amount in its billing to the State. Upon award, Bid Package #3 shall include a separate SEI allowance line in its Schedule of Values so the State can track SEI billings.

Q20. What bid package is responsible for the removal of the water connections as noted on sheet D101?
A20. Bid Package #2 – Mechanical shall non-destructively remove, cap, and make safe the existing water connections indicated on Sheet D101. Bid Package #1 – General Construction shall perform the associated architectural work, including repurposing and relabeling the existing FEC cabinets, as indicated.

END OF ADDENDUM 03

ADDENDUM 3

SPECIFICATION ITEMS

1. SECTION 27 51 19 - SOUND MASKING
   a. **REMOVE** from Article 2.02.C, the comment “or wall mounted on a plywood backboard” as shown in the edited attached specification section.
   b. **REVISE** from Article 2.03 SYSTEM CABLE, to be a 4-pair twisted pair cable from the 18/2 conductor cable as shown in the edited attached specification section.
   c. **REVISE** Article 3.01.E.1 to read: “Emitters shall be installed in acoustical ceiling file using manufacturer's standard mounting ring and hardware. Provide independent support wire as required by local code.” Speaker Installation to be installed in acoustical ceiling as shown in the edited attached specification section.

DRAWING ITEMS

2. SHEET P101 - LEVEL 01 DEMOLITION PLAN - PLUMBING
   a. **REVISE** floor demolition scope.
   b. **ADD** new demolition for Hot Water line.
3. SHEET P201 - LEVEL 01 PLAN - PLUMBING
   a. **ADD** FD-1.
   b. **REVISE** floor demolition scope.
4. SHEET P400 - PLUMBING DETAILS & SCHEDULES
   a. **ADD** FD-1 to Plumbing Material List.
5. SHEET E001 - ELECTRICAL LIGHTING COVERSHEET
   a. **ADD** lighting control station as shown on revised sheet E001.
6. SHEET E211 - LEVEL 01 PLAN - LIGHTING
   a. **ADD** occupancy sensor to Office DM157.
   b. **ADD** EM1 to Office DM130.
   c. **REVISE** lighting control stations in interview rooms to have occupancy sensors.
7. SHEET E600 - ELECTRICAL SCHEDULES
   a. **ADD** approved manufacturers to Luminaire Schedule as shown on revised sheet E600.
8. SHEET T201 - LEVEL 01 PLAN - TECHNOLOGY
   a. **REVISE** Sound Masking layout in Open Office DM123 as shown on the attached drawing.
9. SHEET T400 - TECHNOLOGY DETAILS AND DIAGRAMS
   a. **REVISE** Detail 3, Overhead Sound Masking System Riser Diagram (Add Alternate #2) to include three (3) zones and the revised keynotes as shown on the attached drawing.
10. SHEET T500 - TECHNOLOGY SCHEDULES
    a. **REVISE** item “PA-AMP-1” description and Manufacturer and Model as shown on attached drawing.
    b. **REVISE** item “PA-SM1-C” description and Manufacturer and Model as shown on attached drawing.

END OF ADDENDUM 3

SECTION 275119
SOUND MASKING SYSTEM

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Sound Masking Equipment

1.02 RELATED WORK

A. Section 260533 - Conduit and Boxes

B. Section 260535 - Surface Raceways

C. Section 260513 - Wire and Cable

D. Section 270500 - Basic Communications Systems Requirements

E. Section 270503 - Through Penetration Firestopping

F. Section 270528 - Interior Communication Pathways

G. Section 271500 - Horizontal Cabling Requirements

H. Section 270553 - Identification and Administration

1.03 QUALITY ASSURANCE

A. Manufacturer: The manufacturer shall have five (5) years documented experience.

B. Installer: The installing dealer must be a factory-authorized service and support company specializing in the selected manufacturer’s product, with demonstrated prior experience with the selected manufacturer’s system installation and programming.

1. The Contractor shall own and maintain all tools and equipment necessary for successful installation and testing of the system and have personnel adequately trained in the use of such tools and equipment

C. Service: The manufacturer of the system must have local service representatives within 60 miles of the project site.

D. The entire installation shall comply with all applicable electrical and safety codes. All applicable equipment shall be listed by Underwriters' Laboratories, Inc.

1.04 REFERENCES

A. ADAAG - Americans with Disabilities Accessibility Guidelines

B. ANSI S1.4 - American National Standard Specifications for Sound Level Meters

C. ANSI S1.6 - American National Standard Specifications for Preferred Frequencies and Band Numbers for Acoustical Measurements

D. ANSI S1.11 - American National Standard Specifications for Octave-Band a Fractional-Octave-Band Analog and Digital Filters

E. ASTM E 1041-85 - Standard Guide for Measurement of Masking Sound in Open Offices.

F. ASTM E 1130-02 - Standard Test Method for Objective Measurement of Speech Privacy in Open Offices Using Articulation Index.

G. ASTM E 1374-93 - Standard Guide for Open Office Acoustics and Applicable ASTM Standards.

H. ASTM E 1573-02 - Standard Test Method for Evaluating Masking Sound in Open Offices Using A-Weighted and One-Third Octave Band Sound Pressure Levels.

I. NFPA 70 - National Electrical Code.

J. UL 813 - Standards for Commercial Audio Systems

K. UL 1480 - Speakers for Fire Alarm, Emergency, and Commercial and Professional Use

1.05 SUBMITTALS

A. Submit product data under the provisions of Section 270500.

B. Product Data Submittal: Provide manufacturer's technical product specification sheet for each individual component type. Submitted data shall show the following:

1. Compliance with each requirement of these documents. The submittal shall acknowledge each requirement of this section, item-by-item.
2. All component options and accessories specific to this project.
3. Electrical power consumption rating and voltage.
4. Wiring and connection requirements.
5. Manufacturer's installation instructions, indicating application conditions and limitations of use as stipulated by product testing agency and instructions for storage, handling, protection, examination, preparation, installation, and initiating usage of product.

C. System Drawings: Project-specific system CAD-generated drawings shall be provided as follows:

1. Provide a system block diagram noting system components and interconnection between components. The interconnection of components shall clearly indicate all wiring required in the system. When multiple pieces of equipment are required in the exact same configuration (e.g., multiple identical speaker zones), the diagram may show one device and refer to the others as "typical" of the device shown.
2. Where applicable, an equipment rack plan shall be provided showing rack elevations and dimensions in plan and elevation view. The plan shall include equipment layout within the rack.

D. Provide voltage drop calculations for each speaker cable circuit or run, showing the drop for the specific circuit or run wattage and cable size used.

E. Provide list of test equipment proposed for use in testing the installed system.

F. Quality Assurance:

1. Provide materials documenting experience requirements of the manufacturer and installing contractor.
2. Provide system checkout test procedure to be performed at acceptance, including demonstration of specified performance and all required system features and functions listed herein and as further detailed on the drawings.

G. Coordination Drawings:

1. Include all ceiling-mounted devices in composite electronic coordination files. Refer to Section 270500 for coordination drawing requirements.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to the site under the provisions of Section 270500.

B. Store and protect products under the provisions of Section 270500.

1.07 SYSTEM DESCRIPTION

A. This section describes the furnishing, installation, commissioning and programming of a complete, turnkey sound masking system to be bid as Add Alternate #2.

B. Performance Statement: This section and the accompanying design documents are performance based, describing the minimum material quality, required features, and operational requirements of the system. These documents do not convey every wire that must be installed or every equipment connection that must be made. Based on the equipment constraints described and the performance required of the system, as presented in these documents, the vendor and the Contractor are solely responsible for determining all wiring, programming, and miscellaneous equipment required for a complete and operational system.

C. This Contractor shall furnish and install a sound masking system as hereinafter specified and further detailed on the drawings. System shall be completely wired and ready for use including, but not limited to, outlet boxes, conduit, wire, equipment, speakers, controls, and equipment cabinets.

1.08 PROJECT RECORD DOCUMENTS

A. Submit documents under the provisions of Section 270500.

B. Provide final system block diagram showing any deviations from shop drawing submittal. Block diagram shall include cable number documenting the numbers installed on both ends of the cable in the field.

C. Provide documentation of all test results and a statement that system checkout test, as outlined in shop drawing submittal, is complete and satisfactory.

D. Warranty: Submit written warranty and complete all Owner registration forms.

E. Complete all operation and maintenance manuals as described herein.

1.09 OPERATION AND MAINTENANCE DATA

A. Submit data under provisions of Section 270500.

B. Operation and Maintenance Data shall be submitted in hard copy and electronic .pdf format.

C. Operation data shall include:

1. Manufacturer’s full operation instructions for each piece of equipment.
2. Complete documentation of all settings and programming.
3. Detailed, step-by-step instructions for system operation, including accessing, initiating, and performing all required system features and functions listed herein.

D. Maintenance data shall include:

1. Description of servicing procedures:
   a. Documentation of all manufacturer’s recommended preventive and remedial maintenance procedures to be performed by the Owner.
   b. Troubleshooting flowcharts.
2. Spare parts list.

1.10 WARRANTY

A. Unless otherwise noted, provide warranty for one (1) year after Substantial Completion, as defined by the Contract. Certain system components may require additional manufacturer’s warranty as described.

B. The warranty shall:

1. Ensure that all approved devices, equipment, cabling, and other components specified in this section meet or exceed the specified requirements.
2. Ensure against product defects.
3. Cover the replacement or repair of the defective product(s) and labor for the replacement or repair of such defective product(s).
4. Include emergency service and repair on site, with response times of 24 hours from time of notification. The system shall be repaired and restored to operation within 24 hours of technician’s arrival on site.

C. Refer to the individual product sections for further warranty requirements of individual system components.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Manufacturers indicated are for the main system components as noted on the riser diagrams on the drawings. Refer to the Material List on the drawings for acceptable manufacturers of additional equipment.

B. Manufacturers:

1. Cambridge Sound Management.
2. Refer to individual equipment sections for further acceptable manufacturers.

2.02 SOUND MASKING EQUIPMENT

A. The sound masking equipment shall have the following features and functions:

1. Head end shall have a network interface that allows the system to be configured remotely, modify the schedule and alarms, and log data.
2. Noise generator capable of full one octave band equalizer adjustable to either individual zones or all zones.
    a. The generator shall provide stationary Gaussian random (non-deterministic) noise patterns with no observable periodicities or transients.
    b. Selectable pink or white noise patterns shall be available for coarse system tuning.
3. Output adjustment on independent channels equalized on a separate 1/3rd octave band equalizer. Octave bands for the sound generator shall range from 25 to 20,000 Hz.

B. System Processor/CPU: All system programming shall be retained in nonvolatile RAM,

C. The system shall be rack mountable. ~~or wall mounted on a plywood backboard~~.

2.03 SYSTEM CABLE

~~A. Refer to Section 270500 for plenum or non-plenum rating requirements~~

~~B. Backbone Speaker Cable~~

1. ~~Manufacturer recommended cable type.~~

~~C. Line-level Audio and Microphone Cable~~

1. ~~1-pair 22 AWG shielded with drain wire~~
    ~~a. Conductor Type: Bare copper, stranded~~
    ~~b. Voltage Capacity: 300 volts RMS~~
    ~~c. Current Capacity: 2.8 amps per conductor~~
    ~~d. Nominal Capacitance, Conductor to Conductor: less than or equal to 35 pF/ft.~~
    ~~e. Nominal Capacitance, Conductor to Shield: less than or equal to 67 pF/ft.~~
    ~~f. UL Temperature Rating: 60C~~
2. ~~Cable shall be NEC compliant and UL listed.~~
3. ~~Basis of Design:~~
    ~~a. Belden 8761 (CM) or 82761 (CMP)~~ **(10/23/2026, Addendum 3)**

A. Cat 3 (or better) cable:

1. Performance tests shall be conducted using swept frequency testing through for the channel. All numbers given are for a 4-connection channel. Discrete frequency testing results is not acceptable.
2. Performance data shall be characterized as "Guaranteed Headroom" and shall be guaranteed by the manufacturer to perform at guaranteed margins over ANSI/TIA/EIA-568-C.2. Performance data that is not warranted by the manufacturer will not be considered.

3. The 4-connector channel performance margins listed in the below criteria shall be guaranteed minimum margins above ANSI/TIA/EIA-568-C.2 with electrical parameters Insertion Loss: 5%
    a. NEXT: 3.0 dB
    b. PS NEXT: 5.0 dB
    c. ACR-F (ELFEXT): 4.0 dB
    d. PS ACR-F (PS ELFEXT): 5.0 dB
    e. Return Loss: 2 dB
4. Basis of Design:
    a. Panduit series
    b. Additional acceptable manufacturers:
    c. Belden
    d. Berk-Tek
    e. Commscope/Uniprise
    f. Hubbell
    g. Or approved equal **(10/23/2026, Addendum 3)**

PART 3 - EXECUTION

3.01 INSTALLATION

A. Comply with all manufacturer’s instructions and recommendations for installation of all equipment, devices, and materials.

B. It is the Contractor’s responsibility to survey the site and include all necessary costs to perform the installation as specified.

C. Wiring:

1. Refer to Section 260533 for conduit requirements and Section 260513 for additional wiring requirements. Wiring not installed in conduit shall be plenum rated.
2. All cabling shall be run “free-air” in non-continuous cable supports or cable tray above accessible ceilings, and in conduit or in a secured metal raceway in exposed areas. Supports shall be spaced at a maximum 4-foot interval. If cable "sag" at mid-span exceeds 6 inches, another support shall be used.
3. All sound masking system audio cabling including, but not limited to, speaker, line-level audio, and microphone-level audio cabling, shall be installed in its own cable pathway and shall not share any raceway or cable pathway with telephone or computer network cabling or cabling of any other system.
4. Cable shall not be laid directly on the ceiling grid or attached in any manner to the ceiling grid wires. Cables shall not be attached to or supported by existing cabling, plumbing or steam piping, ductwork, ceiling supports, electrical or communications conduit or structural elements.
5. Manufacturer’s minimum bend radius specifications for cables shall be observed in all instances.
6. All cable shall be installed at right angles and be kept clear of work by other trades. To reduce or eliminate EMI, the following minimum separation distances from £ 480V power lines shall be adhered to:
    a. 12 inches from power lines of Less than 5-kVa
    b. 18 inches from high voltage lighting (including fluorescent)

c. 39 inches from power lines of 5-kVa or greater

d. 39 inches from transformers and motors

7. All cables shall be installed in continuous lengths from endpoint to endpoint. No splices shall be allowed unless noted otherwise.

8. All cable shall be free of tension at both ends.

9. Both ends of all cables shall be clearly labeled with an alphanumeric identifier. On speaker cables, the label shall indicate the speaker cable circuit zone or run and the telecommunications room in which the zone or run initiates. On line-level cables, the label shall indicate the signal and signal source. Record all speaker cable identifiers on record drawings.

10. No acid core or other corrosive flux solder shall be used in this system.

11. Speaker cable conductor sizes listed are minimum requirements. Actual wire size required shall be determined by the Contractor to maintain a maximum of 10% voltage drop or 0.5 dB insertion loss on any speaker zone. Actual speaker cabling installed shall meet or exceed minimum conductor sizes listed. Basis of design sound masking speaker cable listed herein is provided to list the minimum criteria and performance requirements for sound masking speaker cable.

12. The polarity of all cabling shall remain consistent throughout the project on all equipment.

D. Equipment:

1. Equipment shall be mounted in shared racks. Coordinate with Owner on rack and location in TR Room.

2. All necessary devices, sub-components, accessories, and incidental materials required to provide a complete, turn-key paging system that provides specified performance, and all required system features and functions listed herein and as further detailed on the drawings, shall be provided and installed as part of a complete system.

3. All speakers shall be connected in proper polarity.

4. Install all head end equipment and devices in a manner that allows ample airflow for cooling.

5. Install and tighten all connectors in accordance with manufacturer’s instructions, using the appropriate tools recommended by the manufacturer for that purpose. Use caution to avoid stripping or damaging connectors, terminals, or equipment by over-tightening termination fasteners.

6. The conductor color code used in terminating system cabling at system equipment and devices shall remain consistent from device to device for each unique device type throughout the project.

E. Speaker Installation:

1. ~~Sound masking speakers shall be ceiling hung and shall in no way be attached to the suspended ceiling system, including ceiling hangers~~.

1. Emitters shall be installed in acoustical ceiling file using manufacturer's standard mounting ring and hardware. Provide independent support wire as required by local code. **(10/23, 2026, Addendum 3)**

2. Speaker spacing shall not exceed 16’ in any direction unless otherwise noted.

3. Unforeseen field coordination between trades may require speakers to be located other than shown on the drawings. Contractor shall adjust locations as required as follows:

a. Speakers must be at least 4’ from any return air grille in a suspended ceiling.

b. Speakers must be at least 2’ from an air duct or structural beam.

c. Speakers must not impede access clearance to other equipment.

d. Speakers must be at least 4’ away from any light fixture that has more than a 2” exposed opening to the plenum (AFTER the fixture is installed).

e. If speakers are mounted in an upward projecting manner, the bottom of the speaker assembly shall be approximately 1/4 of the total plenum distance from the suspended ceiling (1/4 of the plenum depth shall be below the speaker and 3/4 of the total plenum shall be above the speaker).

f. Downward projecting speakers shall be located at approximately 50% of the total plenum depth.

g. Grounding Requirements:

1) Furnish and install a minimum #6 AWG bonding conductor from each sound masking system head end component to the nearest wall-mounted telecommunications grounding busbar. Actual bonding conductor size determined by its length. Refer to Section 270526 for grounding and bonding conductor sizing criteria.

2) Audio cable shields for line level signals shall be connected to the metal equipment chassis at both ends of the cable. Audio cables connected to transformers shall have the cable shield connected to the transformer shield and transformer case ground.

3) Speaker cables containing shields shall not have the shields grounded at conduits, boxes, racks, etc. Ground speaker cable shields at signal origin telecommunications room end only.

3.02 FIELD QUALITY CONTROL

A. Where these specifications require a product or assembly without the use of a brand or trade name, provide a product that meets the requirements of the specifications as supplied and warranted by the system vendor. If the product or assembly is not available from the system vendor, provide product or assembly as recommended by the system vendor.

B. Furnish products listed and classified by Underwriters Laboratories, Inc. as suitable for purpose specified and indicated.

C. Periodic observations will be performed during construction to verify compliance with the requirements of the project documents. These services do not relieve the Contractor of responsibility for compliance with the project documents.

D. System Setup and Checkout: The installed system shall be a complete and operating system. The Contractor shall provide all incidental materials required for a complete and operating system. The Contractor shall provide all system startup, testing, balancing, tuning, and satisfactory system performance as part of the requirements of this project. This shall include all calibration and adjustments of equipment controls, troubleshooting and final adjustments that may be required.

3.03 SYSTEM SETUP, PROGRAMMING, AND ADJUSTMENT

A. Complete all necessary programming to provide the indicated functionality.

B. Program priority override hierarchy as follows:

1. Emergency tones

3.04 TESTING

A. Under no circumstances shall the Contractor turn the system on without having all level controls turned off and providing notification to all building occupants in advance.

B. The Contractor shall conduct all system testing as part of the requirements of this project. This shall include all calibration and adjustments of equipment controls, troubleshooting, and final adjustments or corrective action that may be required to provide a complete system that provides the specified performance and all required system features and functions listed herein and as further detailed on the drawings.

C. At a minimum, the installer shall perform the following inspections and tests of the installed overhead paging system:
   1. Verify that all features and functionality are operating properly.
   2. Verify that the system receives signal from all sources and routes those signals as specified.
   3. Verify that priority override hierarchy functions properly.
   4. Verify that all controls are properly labeled and interconnecting wires and terminals are identified.

D. Document all test results and submit as part of final system documentation package.

E. Final Acceptance Test:
   1. Provide a minimum of one-week notice of testing date to Owner. Document tests performed, adjustments made, and final testing status.
   2. Testing shall not commence until all interior finishes and furnishings are installed. Testing shall be finished prior to occupants occupying the space.
   3. Testing shall be provided at not less than 20 test positions per 50,000 of finished floor space.
   4. Record all test methods, observations, results, equipment reading and corrective actions.
   5. Test, per zone, to the following:

Band	Open Areas (SPL)	Enclosed Areas (SPL)
200 Hz	+2.5	-2
250 Hz	+3	-2
315 Hz	+2	-2.5
400 Hz	+1	-3
500 Hz	0	-4
630 Hz	-1	-5
800 Hz	-2	-6
1000 Hz	-3	-7
1250 Hz	-4	-8.5
1600 Hz	-5	-10
2000 Hz	-6	-12

      a. Masking level shall be adjusted for each zone to ensure that 1/3 octave band centered on band noted above has the final selected sound power level for that zone.
      b. Deviation from the listed values in 1/3 octave bands from 400 to 2000 Hz shall be measured. Measured values shall not deviate from those listed by greater than 4 dB for open areas and greater than 8 dB for enclosed areas. The total of individual band deviations in eight bands shall not exceed greater than 16 dB for open areas and greater than 30 dB for enclosed areas.
   6. Temporal Stability Test: Check for uniformity to the defined performance requirement stated herein.
   7. Correct deficiencies as required, as identified by tests, and retest until performance requirements have been met.
   8. Record all final settings, programming, tap settings and other configuration parameters.

9. Record all final sound level measurements and observations.

3.05 EQUALIZATION

A. Computer Equalization: Provide computerized equalization for the system. The computer analysis shall be based on 1/3 octave bands. A separate analysis shall be provided for each zone.

B. The equalization process shall include the following:

1. Spectrum selection and level to achieve privacy required.
2. Voice level correction.
3. Existing background sound spectrum in 1/3 octaves, measured 48 inches above the floor, for frequencies 100 through 10,000 Hertz.
4. Input pre-calibrated test source spectrum in 1/3 octaves, measured 48 inches above the floor and at a distance of 39 inches, for frequencies 100 through 10,000 Hertz.
5. Input received levels in 1/3 octaves for each (minimum three) test stations, at a point 48” above the floor for frequencies 200 through 5,000 Hertz.
6. Calculation and evaluation of existing acoustical privacy.

3.06 TRAINING

A. All labor and materials required for on-site system training shall be provided. Training shall be conducted at the project site using the project equipment.

B. Provide two week's advanced notice of training to the User.

C. Provide a training outline agenda describing the subject matter and the recommended audience for each topic.

D. At a minimum, the following training shall be conducted:

1. Users:
    a. Provide training on the system functions and operations that a daily user will encounter, including navigation of the user interface to accomplish common operations.
2. Maintenance Staff:
    a. Provide training on the system functions and operations that a daily user will encounter, including navigation of the user interface to accomplish all common operations.
    b. Provide training on all system components and the basic configuration of the system.
    c. Identify and describe preventive and remedial maintenance procedures to be performed by the Owner.
    d. Review troubleshooting flowcharts and describe troubleshooting procedures for common issues.

E. Minimum on-site training times shall be:

1. Users: Two (2) hours.

END OF SECTION 275119

LIGHTING SYSTEM DESCRIPTION KEY:

THE DESIGN DOCUMENTS DESCRIBE THE OPERATIONAL PERFORMANCE REQUIREMENTS OF THE LIGHTING CONTROL SYSTEM. THE PROJECT MAY REQUIRE ONE OR MORE LIGHTING CONTROL STRATEGIES FOR THE PROJECT. REFER TO THE ELECTRICAL SYMBOL KEY, SPECIFICATION SECTION 26 09 33 LIGHTING CONTROL SYSTEMS, AND THE DRAWINGS TO DETERMINE THE DESIGN APPLICATION FOR EACH SPACE. THE POTENTIAL STRATEGIES ARE AS FOLLOWS:

1. STANDALONE LIGHTING CONTROL DEVICES: INDEPENDENT (STANDALONE) DEVICES TRADITIONALLY OPERATING AT LINE OR LOW VOLTAGE, FIELD CONFIGURABLE WITH OTHER STANDALONE DEVICES TO PROVIDE AN OVERALL LIGHTING CONTROL SYSTEM.

2. ROOM BASED LIGHTING CONTROLS: INTEGRATED SYSTEM COMPRISED OF SWITCH STATIONS, SENSORS, ROOM CONTROLLERS, CONTROL PANELS, AND ACCESSORIES, OPERATING AT LINE AND/OR LOW VOLTAGE, CONFIGURED AS AN INTEGRATED OVERALL 'INTELLIGENT' LIGHTING CONTROL SYSTEM. LIGHTING CONTROL ZONES AND POWER CIRCUITS COMMONLY ALIGN.

LIGHTING CONTROL SYSTEM DESIGNATION: THE FOLLOWING KEY MAY BE USED AS AN EXAMPLE TO DETERMINE THE DESIGNATED LIGHTING CONTROL SYSTEM FOR EACH SPACE. REFER TO ELECTRICAL COVERSHEET FOR ELECTRICAL SYMBOLS LIST AND DEVICE SPECIFICATION TAG. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1. STANDALONE LIGHTING CONTROL DEVICES: CONTROL STATION COMMONLY DEFINED BY AN ALPHA CHARACTER WITH SUBSCRIPTS.
   A. EXAMPLE SYMBOL "S", SPECIFICATION TAG "SW-1P", DESCRIPTION "SWITCH-SINGLE POLE SWITCH".
   B. EXAMPLE CONTROL DESIGNATION: a, b, c (WHEN REQUIRED TO CLARIFY DESIGN INTENT).
   C. SINGLE POLE LIGHT SWITCH "SA" CONTROLS LUMINAIRES WITH THE SUBSCRIPT "a" WITHIN THE SAME SPACE.
   D. REFER TO THE LIGHT CONTROL SEQUENCE OF OPERATION TAG (L#-##) FOR A COMPLETE DESCRIPTION OF THE LIGHTING CONTROL REQUIREMENTS.



2. ROOM BASED LIGHTING CONTROLS: CONTROL STATION COMMONLY DEFINED BY A RECTANGLE SYMBOL.
   A. EXAMPLE CONTROL STATION: SYMBOL "#B", TAGGED "SW-#B", DESCRIPTION "LIGHTING CONTROL STATION".
   B. EXAMPLE PANEL/RACK/CABINET: TAGGED "LCPR#", DESCRIPTION "ROOM BASED LIGHTING CONTROL PANEL/RACK/CABINET.
   C. EXAMPLE CONTROL DESIGNATIONS: a, b, c
   D. LIGHTING CONTROL STATION "#B" a,b CONTROLS LUMINAIRES WITH THE SUBSCRIPT "a" AND "b" WITHIN THE SAME SPACE.
   E. REFER TO THE LIGHT CONTROL SEQUENCE OF OPERATION TAG (L#-##) FOR A COMPLETE DESCRIPTION OF THE LIGHTING CONTROL AND PRE-PROGRAMMED SCENE SELECTION REQUIREMENTS.



LIGHTING CONTROL NOTES:

LIGHTING CONTROL NOTES:

{L#-##} INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E600.

{#B} LIGHTING CONTROL STATION. THE "#" INDICATES THE MINIMUM QUANTITY OF ZONES/SCENES AS DEFINED IN THE LIGHTING SEQUENCE OF OPERATIONS. THE LIGHTING CONTROL STATION SHALL PROVIDE SEPARATE ON AND OFF AS WELL AS RAISE AND LOWER BUTTON(S). CONTROL SHALL BE CAPABLE OF DIMMING UP/DOWN AND SWITCHING AS DEFINED IN THE LIGHTING SEQUENCE OF OPERATIONS. REFER TO DRAWINGS AND LUMINAIRE SUBSCRIPTS TO DETERMINE IF A ROOM BASED CONTROLLER (a, b, c SUBSCRIPTS) OR NETWORK CONTROL SYSTEM (z1, z2, z3) IS REQUIRED.

LIGHTING CONTROL SUBSCRIPTS:
1. LOWER CASE ALPHA SUBSCRIPTS "a, b, c" INDICATE LINE VOLTAGE OR ROOM BASED LIGHTING CONTROL SYSTEMS. REFER TO DRAWINGS TO DETERMINE IF LINE VOLTAGE CONTROL (S, S3, S4, ETC) OR {#B} ROOM BASED CONTROLLER SYSTEM (#B) IS REQUIRED.
2. LOWER CASE ALPHA NUMERIC SUBSCRIPTS "z1, z2, z3" INDICATE NETWORK BASED LIGHTING CONTROL SYSTEM.

REFER TO SHEET E600 FOR LUMINAIRE SCHEDULE

ELECTRICAL SYMBOL LIST - LIGHTING CONTROLS

SYMBOL	TAG	EQUIP ABBREV	SPEC SECTION	DESCRIPTION
S		SW-1P	26 09 33	SWITCH - SINGLE POLE
	3	SW-3W	26 09 33	SWITCH - THREE WAY
#OC		SW-OC-D	26 09 33	OCCUPANCY SENSOR - DUAL TECHNOLOGY
	A	SW-OC-U-A	26 09 33	OCCUPANCY SENSOR - ULTRASONIC TWO SIDED CORRIDOR COVERAGE
	U	SW-OC-U	26 09 33	OCCUPANCY SENSOR - ULTRASONIC 360 DEGREE COVERAGE
#B		SW-#B	26 09 33	LIGHTING CONTROL STATION - RAISE, LOWER, FADE DIMMING (DEFAULT)
	S	SW-#B	26 09 33	LIGHTING CONTROL STATION - SWITCHED CONTROL
1	DO	SW-#B	26 09 33	LIGHTING CONTROL STATION - RAISE, LOWER, FADE DIMMIN, OCCUPANCY SENSOR
ALCR		ALCR20	26 09 33	AUTOMATIC LOAD CONTROL RELAY

LUMINAIRE CIRCUIT AND CONTROL KEY



F1 = FIXTURE TAG
1 = CIRCUIT NUMBER
a = SWITCH DESIGNATION

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1 / 1 / a

LUMINAIRE SHADING KEY

NORMAL BRANCH LUMINAIRE

EMERGENCY BRANCH LUMINAIRE

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	REFER TO LUMINAIRE SCHEDULE		LINEAR LUMINAIRES
			TROFFER
			DOWNLIGHT LUMINAIRE
			INDUSTRIAL LUMINAIRE
			SINGLE FACE EXIT SIGN
			DOUBLE FACE EXIT SIGN
			EMERGENCY UNIT

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SHEET TITLE

ELECTRICAL LIGHTING COVERSHEET

E001

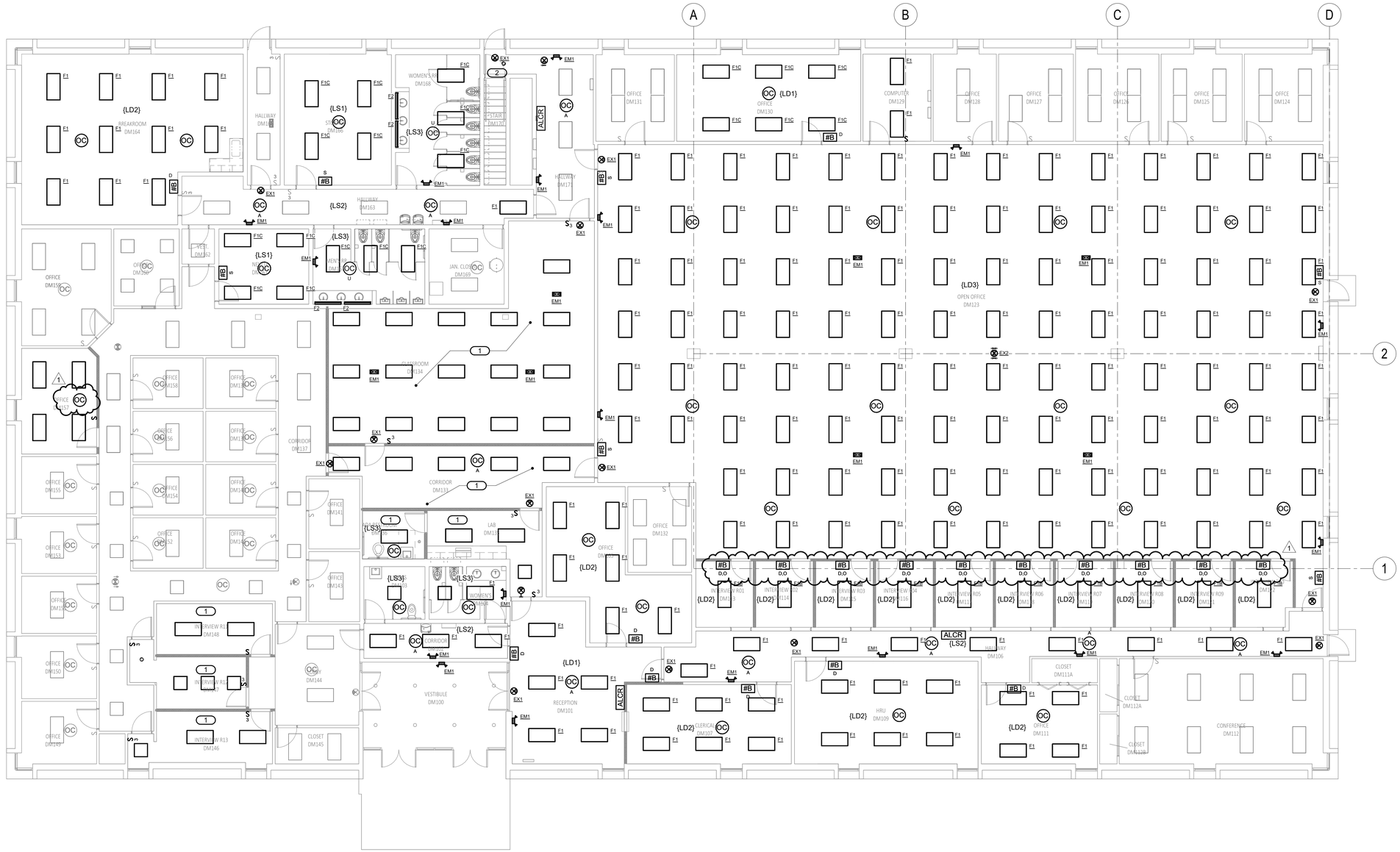
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SHEET NOTES:

1. EXTEND AND MODIFY EXISTING LIGHTING CIRCUITS IN SPACE AND RECONFIGURE TO ACCOMMODATE THE NEW LIGHTING LAYOUT AS SHOWN. CIRCUIT SHALL BE EXTENDED USING 2#12 AND 1#12 GND IN 3/4" CONDUIT.
2. ALL BATTERY BACKUP LUMINAIRES AND EXIT SIGNS SHALL BE CONNECTED TO UNSWITCHED LEG OF AREA LIGHTING CIRCUIT.

KEYNOTES: (#)

1. REUSE THE EXISTING FIXTURES SALVAGED IN DEMO PHASE FROM THIS AREA. REFER TO SHEET E101 FOR DEMO WORK.
2. INSTALL SALVAGED RECESSED DOWNLIGHT.



1 LEVEL 01 PLAN - LIGHTING

1/8" = 1'-0"

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SHEET TITLE

LEVEL 01 PLAN - LIGHTING

E211

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LUMINAIRE SCHEDULE LEGEND

DESCRIPTION:

PAF - PAINT AFTER FABRICATION

CFSA - COLOR FINISH SELECTION BY ARCHITECT

CCFSA - CUSTOM COLOR FINISH SELECTED BY ARCHITECT

CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER

OPTICS:

BEAM ANGLE

##° or ## DEG - BEAM ANGLE IN DEGREES

VNSP - VERY NARROW SPOT
NSP - NARROW SPOT
SP - SPOT
WSP - WIDE SPOT
VWSP - VERY WIDE SPOT
NFL - NARROW FLOOD
FL - FLOOD
WFL - WIDE FLOOD
VWF - VERY WIDE FLOOD

MOUNTING (MTG):

CL - CEILING
CV - COVE
G - GROUND SURFACE
IG - IN GRADE
P - PERIMETER
PL - POLE
RE - RECESSED
SP - SUSPENDED
SU - SURFACE
UC - UNDER CABINET
WL - WALL
O - OTHER (SEE DESCRIPTION)

VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS. REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS, AND DETAILS FOR LUMINAIRE MOUNTING LOCATIONS AND REQUIREMENTS.

MOUNTING HEIGHTS INDICATED IN THE SCHEDULE ARE TO THE BOTTOM OF FIXTURE UNLESS NOTED OTHERWISE.

DIMENSIONS:

L - LENGTH **W** - WIDTH **H** - HEIGHT **D** - DIMENSION **Ø** - DIAMETER

<varies> - DIMENSION VARIES, SEE ARCHITECTURAL PLANS.

LIGHT SOURCE:

SOURCE TYPE
LED - INTEGRAL LIGHT EMITTING DIODE
DLED - DYNAMIC TUNABLE WHITE LED
RLED - RETROFIT LED LAMP
WLED - WARM DIM LED

CCT / CRI
INTERIOR CORRELATED COLOR TEMPERATURE 4000/4100K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.
EXTERIOR CORRELATED COLOR TEMPERATURE 4000K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80 UNLESS NOTED OTHERWISE.

DELIVERED LUMENS:

LUMENS INDICATED ARE MINIMUM INITIAL DELIVERED LUMENS AT SPECIFIED CCT AND CRI.

WATTS:

MAXIMUM ANSI WATTS PER: (BLANK) = PER LUMINAIRE **FT** = LINEAR FOOT **LAMP** **POLE**

POWER SUPPLY:

PS TYPE
(BLANK) - INTEGRAL UNLESS NOTED OTHERWISE
REM - REMOTE
EM - EMERGENCY BATTERY

CONTROL METHOD
0-10V - 0 TO 10V DIMMING
10%, **1%**, **0.1%**, **0.01%** AS INDICATED
DALI - DIGITAL ADDRESSABLE LIGHTING INTERFACE (IEC 62386)
DMX - USITT DMX512-A (ANSI E1.11)
UPC - UNIVERSAL PHASE CONTROL DIMMING (PHASE ADAPTIVE)
SWC - SWITCHED CONTROL
O - OTHER (SEE DESCRIPTION)

COORDINATE LUMINAIRE DRIVER DIMMING METHODS AND PROTOCOLS WITH THE LIGHTING CONTROL SYSTEM AND CONTROL MANUFACTURER REQUIREMENTS TO ENSURE DIMMING COMPATIBILITY.

MANUFACTURER - SERIES:

1. **THE FIRST MANUFACTURER AND MODEL LISTED IS THE BASIS OF DESIGN.**
2. **THE MODEL NUMBER SHOWN SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE MODEL NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED.**

LUMINAIRE SCHEDULE

TAG	DESCRIPTION	OPTICS	MTG	DIMENSIONS	LIGHT SOURCE	DELIVERED LUMENS	WATTS	POWER SUPPLY	MANUFACTURER - SERIES	NOTES
EM1	EMERGENCY UNIT, TWO ADJUSTABLE LED HEADS, WHITE THERMOPLASTIC HOUSING. SELF TEST & DIAGNOSTICS OF INVERTER AND LAMPS CAPACITY FOR REMOTE HEAD. WIRE GUARD, CFSA. INTEGRAL EMERGENCY BATTERY.		WL/CL	14"L X 6"W X 3 3/4"H	<varies>	<varies><varies>	3 / FIX	120 EM	ACUITY LITHONIA ELM4L CURRENT HLI DUAL-LITE EVHC EELP EM20-E-LED ISOLITE RL MULE SSL-HO SERIES OR APPROVED EQUAL	1
EX1	SINGLE-FACE EXIT SIGN, WHITE, THERMOPLASTIC BODY, RED LETTERS, EMERGENCY NI-CAD BATTERY INSIDE OF SIGN, UNIVERSAL ARROWS/MOUNTING. SVERIFY RECESSED END, BACK OR CEILING MOUNTING AND ARROWS WITH PLANS.		CL	13"L X 2"W X 9"H	LED	100 lm	3 / FIX	120 EM	ACUITY LITHONIA LQMS SIGNIFY CHLORIDE CLX* CURRENT HLI DUAL-LITE EVE COOPER SURELITES APX ISOLITE RL2LED MULE UX SERIES OR APPROVED EQUAL	
EX2	DOUBLE FACED EXIT SIGN, WHITE, THERMOPLASTIC BODY, RED, LETTERS, EMERGENCY NI-CAD BATTERY INSIDE OF SIGN, UNIVERSAL ARROWS/MOUNTING. VERIFY RECESSED END, BACK OR CEILING MOUNTING AND ARROWS WITH PLANS.		CL	13"L X 2"W X 9"H	LED	100 lm	3 / FIX	120 EM	ACUITY LITHONIA LQMS SIGNIFY CHLORIDE CLX* CURRENT HLI DUAL-LITE EVE COOPER SURELITES APX ISOLITE RL2LED MULE UX SERIES OR APPROVED EQUAL	
F1	RECESSED TROFFER, STEEL HOUSING, SMOOTH SQUARE MATTE ACRYLIC DIFFUSER. WHITE FINISH.		RE	48"L X 24"W X 4 1/2"H	LED	4,224 lm	29 / FIX	120	ACUITY LITHONIA BLT COOPER METALUX CRUZE ST 14CZ CURRENT COLUMBIA LCAT14 DAY-BRITE FGX OR APPROVED EQUAL	
F1B	SIMILAR TO F1, WITH HIGHER LUMEN PACKAGE.		RE	48"L X 24"W X 4 1/2"H	LED	6,134 lm	43 / FIX	120	ACUITY LITHONIA BLT COOPER METALUX CRUZE ST 14CZ CURRENT COLUMBIA LCAT14 DAY-BRITE FGX OR APPROVED EQUAL	
F1C	RECESSED TROFFER, STEEL HOUSING, SMOOTH SQUARE MATTE ACRYLIC DIFFUSER. WHITE FINISH.		RE	48"L X 24"W X 4 1/2"H	LED	3,000 lm	25 / FIX	120	ACUITY LITHONIA BLT COOPER METALUX CRUZE ST 14CZ CURRENT COLUMBIA LCAT14 DAY-BRITE FGX OR APPROVED EQUAL	
F2	STANDARD SQUARE VANITY LIGHT. ALUMINUM EXTRUSION, ACRYLIC DIFFUSER COLOR TEMPERATURE TO MATCH OTHER LIGHTS IN SPACE. INSTALL HORIZONTALLY		WL	48"L X 2 3/4"W X 2 3/4"H	LED	2,960 lm	36 / FIX	120	ACUITY LITHONIA FMVCSLS 48IN MVOLT 30K35K40K 90CRI BN M4 CURRENT HLI LITECONTROL 67-W-D BROWNLEE FLOW-SO ENVISION LED CONTEMPORAYY SQUARE OR APPROVED EQUAL	

LIGHTING SEQUENCE OF OPERATION

NOTES:
1. {L##} DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE.
2. {#B} PUSH BUTTON REFERS TO SCENE QUANTITY. CONTROL STATION SHALL BE CAPABLE OF [RAISE/LOWER AND] SWITCHING ON/OFF FOR MULTIPLE SCENES AS INDICATED ON SHEETS AND THE LIGHTING SEQUENCE OF OPERATIONS {L##}. COORDINATE QUANTITIES OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER.
3. {Z#} DENOTES LIGHTING CONTROL ZONE. PROVIDE SEPARATE CONTROL OF EACH CONTROLLED ZONE. LUMINAIRES ASSOCIATED WITH THE SAME ZONE SHALL OPERATE TOGETHER WITHIN THE SAME PROGRAMMED SCENE.
4. a = SWITCH DESIGNATION FOR LIGHTING CONTROL
5. VERIFY AND COORDINATE ALL TIME CLOCK SETTINGS WITH OWNER PRIOR TO FINAL PROGRAMMING.
6. VERIFY AND COORDINATE ALL PUSH BUTTON WALL DEVICES AND QUANTITIES OF INDIVIDUAL BUTTONS WITH SCENES AND ZONES PER LOCATION.
7. VERIFY AND COORDINATE ALL PUSH BUTTON QUANTITIES AND SCENE NAMES WITH OWNER PRIOR TO SUBMITTING ENGRAVING TEMPLATE TO MANUFACTURER.

PLAN ID	LIGHTING SWITCHED
{LD1}	Sequence: Dimmed lights are controlled in this space. ON: The lights turned on using a wall control or at last switched state upon occupancy. ADJUST: The dimmable lights are raised / lowered using a wall controller. OFF: The lights may be turned off using a wall controller. After the space has been vacant for 15 minutes, the lights will automatically turn off.
{LD2}	Sequence: Dimmed lights are controlled in this space. ON: The lights turned on using a wall control. ADJUST: The lights are raised / lowered using a wall controller. OFF: The lights turn off using a wall controller. After the space has been vacant for 15 minutes, the lights will automatically turn off.
{LD3}	Sequence: Switched multi-level lights are controlled in this space. ON: The lights turn on using switches. ADJUST: The lights are controlled using switches for light level reduction of at least 50%. OFF: After the space has been vacant for 15 minutes, the lights will automatically turn off.
{LS1}	Sequence: Switched lights are controlled in this space. ON: The lights turned on using switches. OFF: After the space has been vacant for 15 minutes, the lights will automatically turn off.
{LS2}	Sequence: Switched lights are controlled in this space. ON: The normal lights turn on by occupancy sensors in corridor. OFF: The normal lights turn off after the space has been vacant for 15 minutes.
{LS3}	Sequence: Switched lights are controlled in this space. ON: The lights are turn on by occupancy sensor. OFF: After the space has been vacant for 15 minutes, the lights will automatically turn off.

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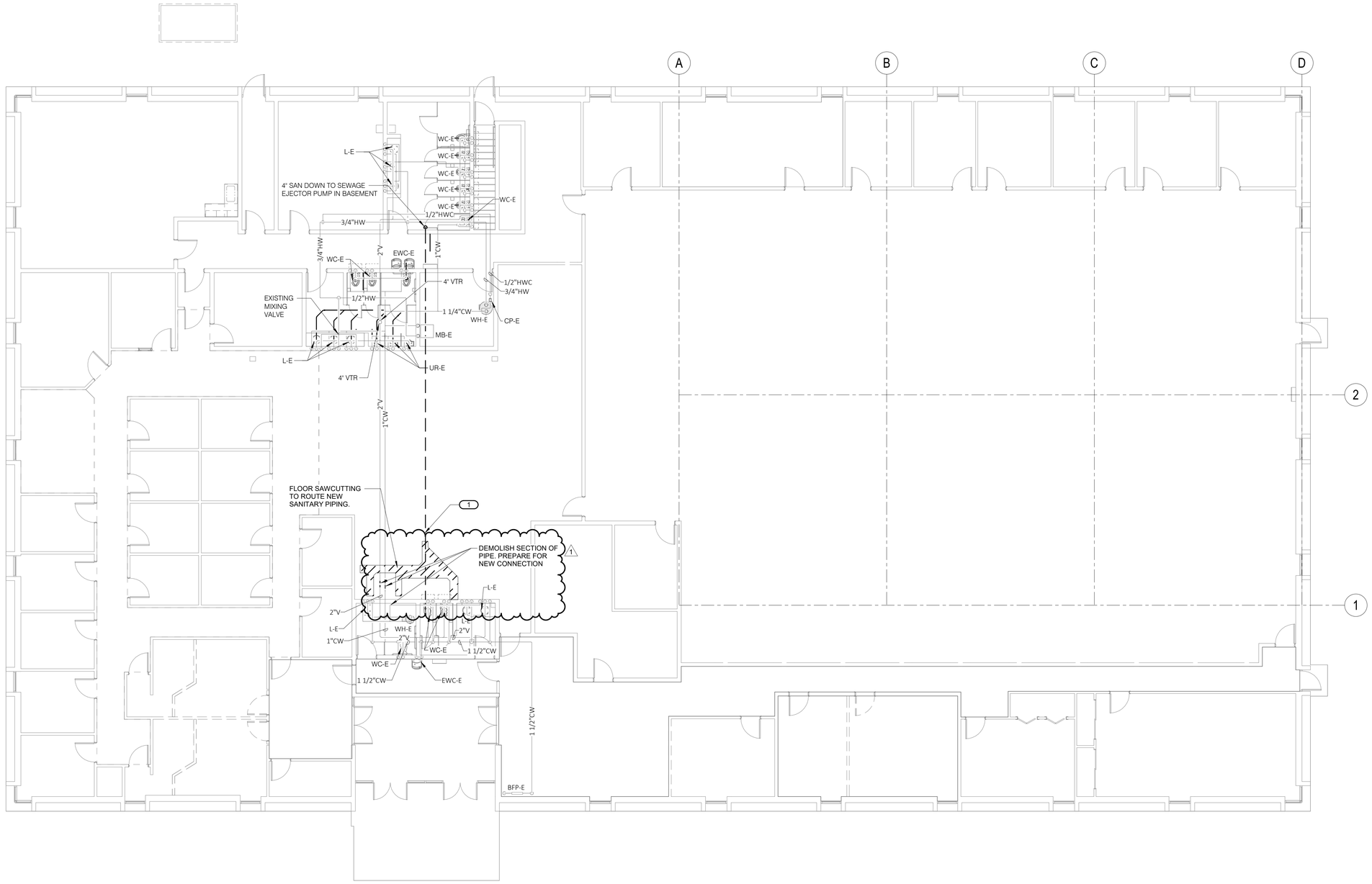
ELECTRICAL SCHEDULES

E600

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KEYNOTES:

1. ASSUMED ROUTING OF SANITARY PIPING. P.C. SHALL SCOPE AND VERIFY SANITARY ROUTING PRIOR TO SAWCUTTING. PORTION OF PIPE WILL NEED TO BE DEMOLISHED TO PREPARE FOR NEW SANITARY CONNECTION AT THIS POINT.



1 **LEVEL 01 DEMOLITION PLAN - PLUMBING**
1/8" = 1'-0"

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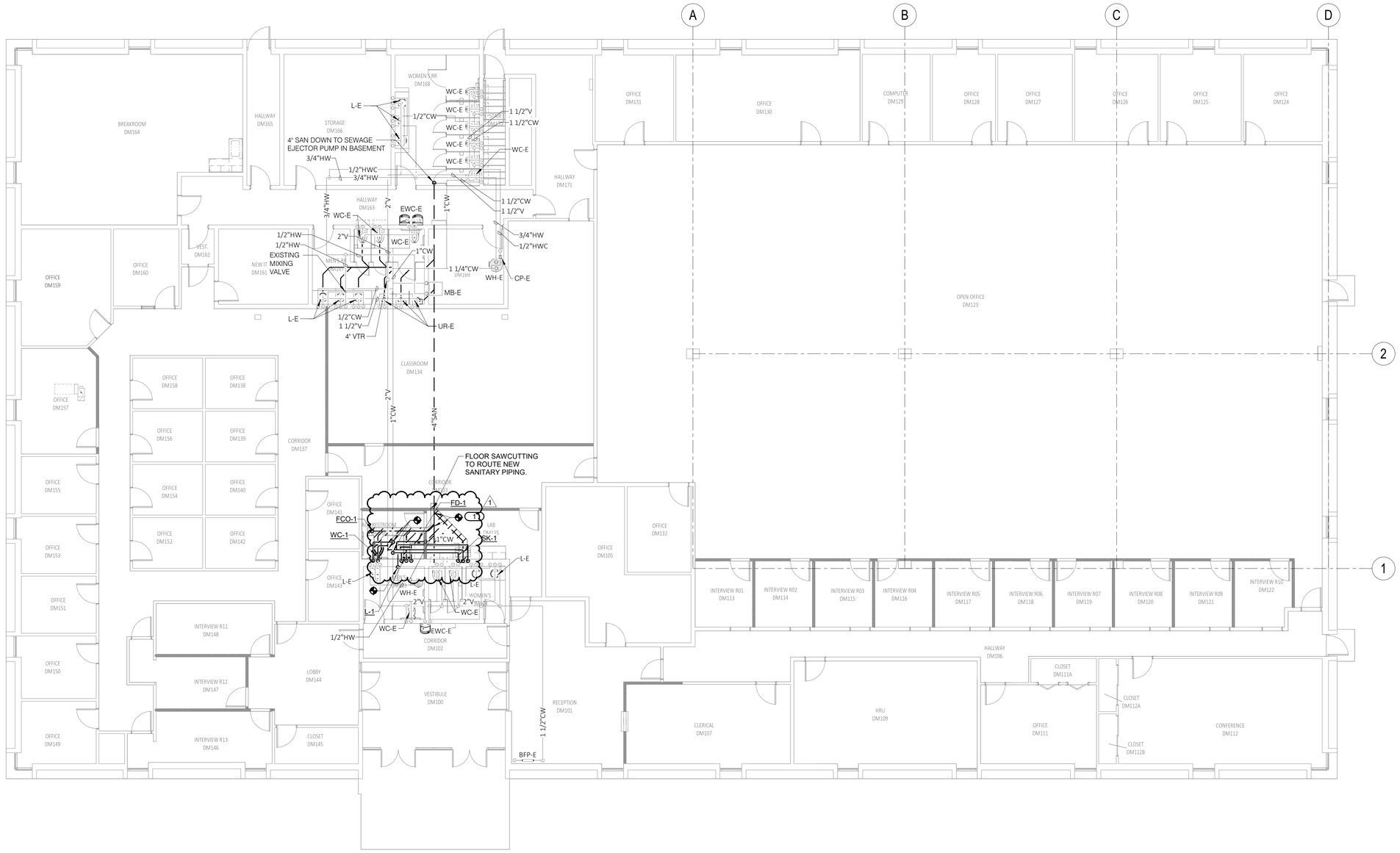
LEVEL 01 DEMOLITION PLAN - PLUMBING

P101

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KEYNOTES:

1. ASSUMED ROUTING OF SANITARY PIPING. P.C. SHALL SCOPE AND VERIFY SANITARY ROUTING PRIOR TO SAWCUTTING.





1 **LEVEL 01 PLAN - PLUMBING**
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SHEET TITLE

LEVEL 01 PLAN - PLUMBING

P201

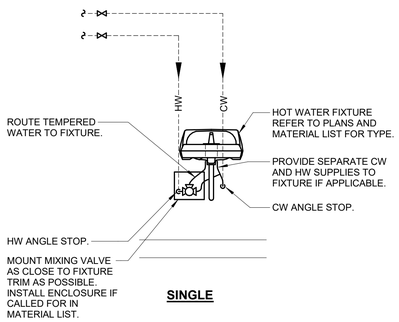
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INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
MAXIMUM ALLOWABLE PIPE LENGTH FROM THE NEAREST SOURCE OF HEATED WATER (CIRCULATED TEE FITTING) TO THE TERMINATION OF THE FIXTURE SUPPLY PIPE.

TABLE C404.5.1
PIPING VOLUME AND MAXIMUM PIPING LENGTHS

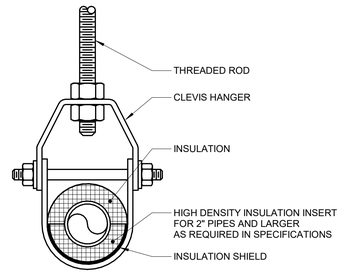
NOMINAL PIPE SIZE (inches)	VOLUME (liquid ounces per foot length)	MAXIMUM PIPING LENGTH (feet)	
		Public lavatory faucets	Other fixtures and appliances
1/4	0.33	6	50
5/16	0.5	4	50
3/8	0.75	3	50
1/2	1.5	2	43
5/8	2	1	32
3/4	3	0.5	21
7/8	4	0.5	16
1	5	0.5	13
1 1/4	8	0.5	8
1 1/2	11	0.5	6
2 or larger	18	0.5	4

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 liquid ounce = 0.030 L, 1 gallon = 128 ounces.

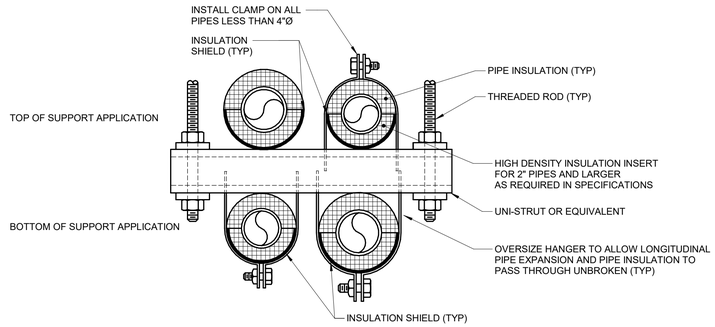


SINGLE

1 LAVATORY MIXING VALVE
NO SCALE



INSULATED COLD PIPE HANGER



TRAPEZE HANGER

NOTES:

1. REFER TO SPECIFICATION SECTIONS SECTION 22 05 29-PLUMBING & SECTION 22 07 19-PLUMBING.

2 PIPE - HANGERS AND SUPPORTS
NO SCALE

PLUMBING MATERIAL LIST

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
FCO-1	FLOOR CLEANOUT - ADJUSTABLE, CAST IRON HOUSING, ANCHOR FLANGE, TAPERED THREAD PLUG, SECURED NICKEL BRONZE TOP. TOP STYLE SHALL MATCH FLOOR FINISH AS FOLLOWS: UNFINISHED FLOOR - ROUND SOLID SCORIATED TOP TILE OR TERRAZZO - ROUND RECESSED TOP CARPET - ROUND TOP WITH CARPET MARKER	ZURN (Z1400), JOSAM (55000), MIFAB (C1100), SMITH (4000), WADE (6000), WATTS (CO-200), SIOUX CHIEF (854 OR 834 SERIES)
FD-1	FLOOR DRAIN - CAST IRON BODY, NICKEL BRONZE ADJUSTABLE TOP, 5" ROUND, 3" BOTTOM OUTLET, FLASHING COLLAR. TRAP SEAL - 3", PLASTIC HOUSING WITH FLEXIBLE DIAPHRAGM, SEALING GASKETS, RECLOSES AND SEALS WHEN DISCHARGE IS COMPLETED, ASSE 1072.	FLOOR DRAIN - ZURN (Z-415), SMITH (2005), WADE (1100), JOSAM (30000), WATTS (FD-100), MIFAB (F1100), SUN (FD1000), SIOUX CHIEF (862-N) TRAP SEAL - SURE SEAL (SS), PROVENT (TRAP GUARD), SMITH (QUAD CLOSE), GREEN DRAIN, MIFAB (MI-GARD), ZURN (Z1072), SIOUX CHIEF (835)
LAV-1	LAVATORY, ACCESSIBLE, WALL MOUNTED, ALUMINUM POLISHED FINISH, 20" X 18" HIGH CONTOURED BACKSPLASH, FAUCET HOLES ON 4" CENTERS, DRILLED FOR CONCEALED ARM CARRIER. LAVATORY TRIM - TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH AERATOR OR SPRAY PATTERN OUTLET, WING OR LEVER BLADE HANDLES AT 4" CENTERS, CERAMIC DISC CARTRIDGE, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE. MAXIMUM FLOW TO BE 0.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M. FAUCET SHALL COMPLY WITH NSF/ANSI STANDARD 61 AND 372. PROVIDE RESTRICTIVE DEVICE AS REQUIRED. MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIC MIXING VALVE ARRANGEMENT FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, UNION/THREADED INLETS WITH STRAINERS, COMBINATION CHECK STOPS OR SEPARATE SUPPLY CHECK VALVES AND SHUT OFF VALVES. CABINET - SURFACE MOUNTED 18 GAUGE PAINTED STEEL CABINET WITH 16 GAUGE REMOVABLE DOOR WITH VANDAL RESISTANT SCREWS TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES. RATED FOR 0.5 GPM OUTPUT MAXIMUM. UNIT TO MIX 120 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET. UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH NSF/ANSI STANDARD 61 AND 372. INSULATION KIT - INCLUDE FOR EXPOSED TRAPS, REFER TO 22 40 00. ARMAFLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU OF INSULATION KIT. MOUNT LAVATORY WITH SUPPORT CARRIER BOLTED SECURELY TO FLOOR. TOP OF RIM SHALL BE AT 34" ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARD. PROVIDE 29" MINIMUM CLEARANCE FROM FLOOR TO BOTTOM OF APRON IN COMPLIANCE WITH LATEST ANSI A117.1 AND ADA STANDARDS.	AMERICAN STANDARD (0355.012), KOHLER (K-2005), SLOAN (SS-3003), TOTO (LT307), ZURN (Z5364) LAVATORY TRIM - DELTA (21C152), AMERICAN STANDARD (5502.140), CHICAGO FAUCET (802), MOEN (8218), SPEAKMAN (SC-3072), SYMMONS (S-250), T&S BRASS (B-0871), ZURN (Z81103-XL) MIXING VALVE - LEONARD (170-LF/270-LF/370-LF), ACORN CONTROLS (ST7069), APOLLO (34BLF), BRADLEY (S59 SERIES), LAWLER (310/570), POWERS (SERIES LFLM495), CHICAGO FAUCETS (122-ABNF), SYMMONS (8210CK MAXLINE SERIES), WATTS (LFMMV), WILKINS (ZW1070XL)
SK-1	SINK - SELF-RIMMING SINGLE COMPARTMENT WITH FAUCET DECK, 18 GAUGE TYPE 316 STAINLESS STEEL, 28" (SIDE-TO-SIDE) x 16" (FRONT-TO-BACK) OVERALL SIZE, 28" x 16" x 6-1/2" DEEP BOWL, SOUND DEADENING ON BOTTOM OF BASIN, 3-1/2" DIAMETER DRAIN OUTLET LOCATION CENTERED IN BOWL, REMOVABLE TYPE 316 STAINLESS STEEL BASKET STRAINER WITH NEOPRENE STOPPER. SINK TRIM - TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, GOOSENECK RIGID SPOUT, NOMINAL 6" REACH, LAMINAR FLOW OUTLET, 4" WRISTBLADE HANDLES AT 8" CENTERS, 1/4-TURN OPERATION CERAMIC DISC CARTRIDGE. MAXIMUM FLOW TO BE 1.5 GPM. FAUCET SHALL COMPLY WITH NSF/ANSI STANDARD 61 AND 372. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED.	SINK - ELKAY (L2133AD/LKAD35), JUST (SL-ADA/J-ADA-35), FRANKE (ALBS), ACORN-SINKS (SDADA/BST) SINK TRIM - DELTA (27C2), AMERICAN STANDARD (6540), CHICAGO FAUCET (786), SPEAKMAN (SC-3000 SERIES), SYMMONS (S-254), T&S BRASS (B-2866-05CR), ZURN (Z831-XL)
WC-1	WATER CLOSET - ACCESSIBLE, FLOOR MOUNTED, TANK TYPE, WHITE VITREOUS CHINA, CLOSE COUPLED, SIPHON JET, ELONGATED BOWL, BOLT CAPS, 12" ROUGH-IN, FLOAT VALVE WITH VACUUM BREAKER, CHROME-PLATED TRIP LEVER, 1.6 GALLONS PER FLUSH (MAXIMUM). SEAT - WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID PLASTIC, SELF-SUSTAINING HINGE, STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS. ACCESSORIES - QUARTER-TURN 3/8" CHROME-PLATED HEAVY BRASS ANGLE SUPPLY WITH STOP, CHROME-PLATED SOFT COPPER SUPPLY LINE. TOP OF SEAT SHALL BE AT 17"-19" ABOVE FINISHED FLOOR. FLUSH HANDLE SHALL BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL AND OPERATE WITH NO GREATER THAN 5 LB FORCE IN COMPLIANCE WITH LATEST ADA STANDARDS. VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.	WATER CLOSET - ZURN (Z5555-K), CRANE (3814), KOHLER (K-3979), ELJER (091-2175), GERBER (21-718), TOTO (CST744SL), NIAGARA PRO (C11.300.01 or C11.301.01) SEAT - BEMIS (1655SSCT), CHURCH (9500C), BENEKE (533), KOHLER (K-4666-C), OLSONITE (95), CENTOCO (550STSCCSS-001), SAME AS WATER CLOSET MANUFACTURER

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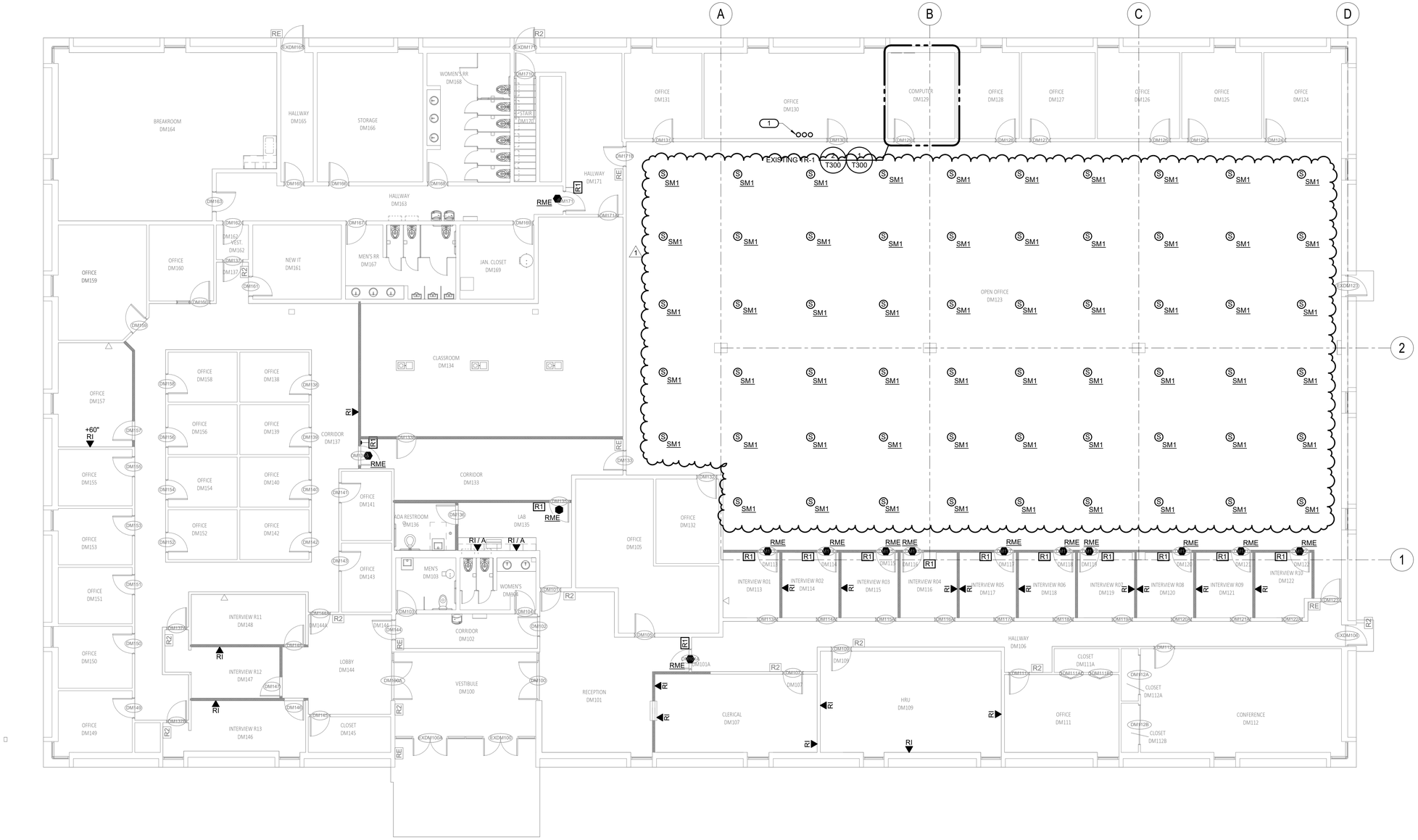
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SHEET NOTES:

1. SOUND MASKING TO BE BID AS ALTERNATE #2.

KEYNOTES:

1. EXISTING PATHWAYS FROM FLOOR BELOW TO ABOVE ACCESSIBLE CEILING. SEE T200 FOR BASEMENT PLAN.



1 LEVEL 01 PLAN - TECHNOLOGY

1/8" = 1'-0"

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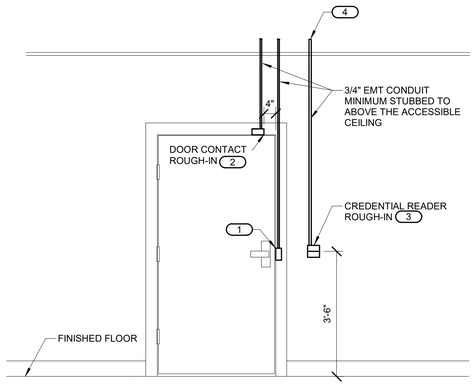
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DOOR FRAME ROUGH-IN DIAGRAM
(ALL SINGLE DOORS)

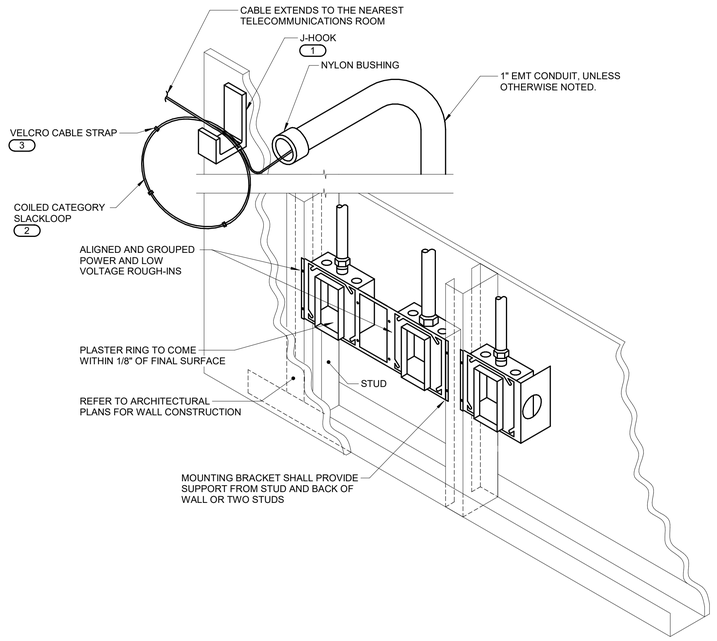
NOTES:

1. CONFIGURATIONS SHOWN IN THE DETAIL ABOVE ARE DIAGRAMMATIC, INTENDED TO DESCRIBE THE ACCESS CONTROL DOOR ROUGH-IN REQUIREMENTS OF THE DOORS. DETAILS ABOVE MAY NOT ACCURATELY REPRESENT DOOR SIZE, DOOR SWING, DOOR HARDWARE, OR DOOR FUNCTIONALITY. REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULE, DOOR HARDWARE GROUPS AND DOOR HARDWARE SPECIFICATIONS FOR COMPLETE INFORMATION. MIRROR THE DETAIL AS REQUIRED.
2. ROUGH IN SHOWN IN THE DETAIL ABOVE REPRESENTS THE MINIMUM REQUIREMENTS FOR ALL ACCESS CONTROL SYSTEM DEVICES AND CABLING UNLESS OTHERWISE NOTED. COORDINATE EXACT REQUIREMENTS WITH SELECTED DOOR MATERIALS, DOOR HARDWARE, AND ACCESS CONTROL DEVICES AND CABLING PRIOR TO INSTALLATION.
3. THE ELECTRICAL OR SECURITY NOT MODIFY ANY FIRE RATED DOOR AND/OR DOOR FRAME. REFER TO THE ARCHITECTURAL DOOR SCHEDULE, DOOR HARDWARE SCHEDULE, AND DOOR HARDWARE SPECIFICATION FOR ADDITIONAL INFORMATION. MODIFICATION TO ANY FIRE RATED DOOR AND/OR FRAME WILL REQUIRE A RE-CERTIFICATION OF THE DOOR AND FRAME WITH THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
4. FURNISH AND INSTALL FIRESTOP MATERIALS FOR ALL ACCESS CONTROL DOOR ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
5. REFER TO THE ACCESS CONTROL RISER DIAGRAM FOR CABLING REQUIREMENTS AND THE ACCESS CONTROL DOOR TYPE SCHEDULE FOR ADDITIONAL INFORMATION.
6. THIS ROUGH-IN DETAIL APPLIES ONLY TO NEW DOOR INSTALLATIONS. EXISTING DOORS WILL UTILIZE EXISTING DOOR FRAMES FOR CABLE ROUTING BY OTHERS.
7. REFER TO ACCESS CONTROL RISER DIAGRAM ON 2/T500 FOR WIRING INFORMATION.

KEYNOTES:

1. PROVIDE JUNCTION BOXES IN THE DOOR FRAME WHERE SHOWN ON THIS DETAIL. ROUGH-IN SHALL BE PROVIDED WHETHER THE CURRENT SECURITY SCHEME UTILIZES THEM OR NOT. ALL CONDUITS SHALL BE EMT CONDUIT UNLESS OTHERWISE NOTED. FLEXIBLE CONDUIT OF ANY TYPE WILL NOT BE ACCEPTED. COORDINATE INSTALLATION WITH ON-SITE DOOR FRAME INSTALLATION CONTRACTOR.
2. ALL DOOR POSITION SWITCHES ARE REQUIRED TO BE RECESSED UNLESS OTHERWISE NOTED. ELECTRIC HINGE MONITORS ARE NOT AN ACCEPTABLE REPLACEMENT FOR THE RECESSED DOOR POSITION SWITCH.
3. 4" SQUARE BACKBOX WITH SINGLE GANG PLASTER RING. PROVIDE 2 1/2" DEEP MASONRY BOX WHERE APPLICABLE. REFER TO FLOOR PLAN(S) FOR ACTUAL CREDENTIAL READER TYPE AND ROUGH-IN LOCATIONS. THIS IS THE ONLY ROUGH-IN REQUIREMENT FOR EXISTING DOORS. ALL OTHER CABLING WILL BE ROUTED THROUGH DOOR FRAMES BY OTHERS.
4. CONDUIT SHALL ROUTE FROM THE CREDENTIAL READER TO THE SECURED SIDE OF THE DOOR. CONDUIT SHALL ROUTE TO THE NEAREST TELECOM ROOM. PROVIDE A NYLON BUSHING ON CONDUIT END.

1 ACCESS CONTROL DOOR ROUGH-IN DETAIL
NO SCALE



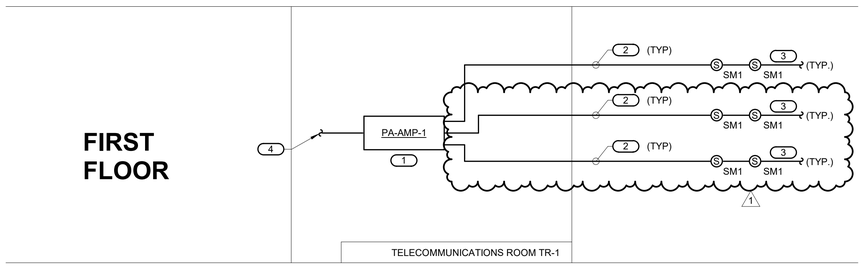
NOTES:

1. THE INTENT OF THE DETAIL IS TO ALIGN AND GROUP DEVICE ROUGH-INS FOR POWER AND LOW VOLTAGE TECHNOLOGY SYSTEMS. SOLIDLY MOUNTED AND THE SURFACE OF THE TRIM IS EITHER FLUSH WITH THE WALL SURFACE OR WITHIN 1/8" OF THE WALL SURFACE. JUNCTION BOXES LARGER THAN 4" SQUARE SHALL BE MOUNTED IN A MANNER THAT IS SIMILAR TO THE SYSTEM NOTED ABOVE OR ACHIEVES THE SAME RESULTS.
2. PLASTER RINGS DEPTH SHALL BE 1/8" DEEPER THAN THE GYP BOARD APPLIED TO THE WALL. PLASTER RING SHALL BE 3/4" FOR USE WITH 5/8" GYP BOARD.
3. METAL STUD-TO-STUD MOUNTING BRACKETS FOR MULTIPLE BOXES BETWEEN STUD. ERICO CADDY RBS## SERIES, EATON B-LINE BB SERIES, OR EQUAL.
4. MOUNTING SUPPORT BRACKETS SIZES FOR SINGLE BOXES IN A STUD CAVITY SHALL MATCH THE STUD DEPTH. ERICO CADDY H## SERIES, EATON B-LINE BB## SERIES, OR EQUAL.
5. WHERE RECEPTACLE AND TECHNOLOGY DEVICES ARE SHOWN SERVING A COMMON COMPUTER OR EQUIPMENT, OR SHOWN IN SIMILAR LOCATIONS ON THE DRAWINGS THE DEVICES SHALL BE INSTALLED IN THE SAME STUD CAVITY WITH MOUNTING BRACKETS OR ALIGNED ON OPPOSITE SIDES OF A COMMON STUD WITH SEPARATE SUPPORT.
6. TERMINATE CONDUIT STUB ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE. CONDUIT RUN SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT.
7. WHERE CONDUIT STUB IS LOCATED IN A ROOM WITH AN ACCESSIBLE CEILING AND IS NOT REQUIRED TO RUN TO CABLE ROUTE LOCATED OUTSIDE THE ROOM, STUB MUST TERMINATE ABOVE THE ACCESSIBLE CEILING WITH A 90-DEGREE BEND AT THE TOP ORIENTED IN TO THE ROOM AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE IN THE ROOM.
8. ALL STUBS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT.
9. FURNISH AND INSTALL FIRESTOP MATERIALS FOR TECHNOLOGY ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.

KEYNOTES:

1. MOUNT A DEDICATED J-HOOK TO THE NEAREST CEILING SUBSTRUCTURE, COLUMN, JOIST, OR WALL ABOVE THE CEILING AS SHOWN ON THE DRAWINGS. PROVIDE THE PROPER SUPPORT WHEN HANGING FROM THE CEILING SUBSTRUCTURE OR COLUMN WALL OR JOIST. REFER TO SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO SECTION 27 15 00 FOR SLACKLOOP LENGTH. MAINTAIN THE MANUFACTURERS BEND RADIUS FOR SLACKLOOP SIZE.
3. PROVIDE AND INSTALL A VELCRO CABLE STRAP ON THE SLACKLOOP APPROXIMATELY EVERY 6" ALONG THE SLACKLOOP. FOR SLACKLOOPS GREATER THAN 3' A MINIMUM OF (4) STRAPS WILL BE INSTALLED.

2 TECHNOLOGY ROUGH-IN DETAIL
NO SCALE



NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. PROPERLY BOND ALL DRAIN CONDUCTORS OF SHIELDED SPEAKER CABLES TO NEAREST SC-GND-1 IN ORIGIN TELECOMMUNICATIONS ROOM ONLY.
3. HORIZONTAL SPEAKER CABLING CONNECTING SPEAKERS AND VOLUME CONTROLS MAY BE T-TAPPED ONLY AT SPEAKER AND VOLUME CONTROL LOCATIONS. ALL HORIZONTAL SPEAKER CABLING CONNECTIONS SHALL BE MADE IN COVERED DEVICE BOXES OR JUNCTION BOXES. CONTRACTOR SHALL SIZE DEVICE BOXES AND JUNCTION BOXES PER APPLICABLE CODES FOR THE AMOUNT OF CABLING SERVED. MAINTAIN CONTINUITY OF DRAIN CONDUCTOR BETWEEN SECTIONS OF HORIZONTAL SPEAKER CABLE AT ALL CONNECTION POINTS. BACKBONE CABLES SHALL NOT BE SPLICED.
4. SOUND MASKING/PAGING AUDIO SIGNAL SHALL BE ZONED TO OPEN OFFICE AND CORRIDOR AREAS. PAGING ONLY AUDIO SIGNAL SHALL BE ROUTED TO AREAS SUCH AS RESTROOMS, MAIL ROOMS, CONFERENCE ROOMS, ETC.
5. ALL NECESSARY CONNECTIONS TO BE COMPLETED BY THIS CONTRACTOR. 1

KEYNOTES:

1. COORDINATE MOUNTING LOCATION OF SOUND MASKING EQUIPMENT WITH OWNER PRIOR TO INSTALLATION IN TR-1 ROOM. CONTRACTOR SHALL UTILIZE ALL 3 ZONES.
2. 4-PAIR, CATEGORY 3 OR BETTER, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
3. OVERHEAD SOUND MASKING SYSTEM DEVICES SHOWN ARE TYPICAL. REFER TO FLOOR PLANS FOR ACTUAL QUANTITY AND LOCATIONS OF SPEAKERS AND VOLUME CONTROLS. WHERE TAP VALUES ARE NOT LISTED IN SPECIFICATIONS OR ON DRAWINGS, TAP SPEAKERS AS REQUIRED TO ACHIEVE SPECIFIED PERFORMANCE. SPEAKERS ARE DAISY CHAINED WITH 4-PAIR, CATEGORY 3 OR BETTER, UNSHIELDED TWISTED PAIR CABLE
4. COORDINATE CONNECTION WITH FIRE ALARM CONTRACTOR. THIS CONNECTION PROVIDE SHUNT TO SHUNT SOUND MASKING SYSTEM WHEN FIRE ALARM SYSTEM IS ACTIVATED.

3 OVERHEAD SOUND MASKING SYSTEM RISER DIAGRAM (ADD ALTERNATE #2)
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TECHNOLOGY EQUIPMENT SCHEDULE

THE EQUIPMENT LIST ABBREVIATIONS AND THE TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.

CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	MANUFACTURER AND MODEL
AC-R1-W	CARD READER ROUGH-IN, WALL MOUNT. PROVIDED AS INTEGRAL PART OF SECURITY MANAGEMENT SYSTEM. REFER TO CARD READERS SHOWN ON PLANS TO IDENTIFY INTENDED MOUNTING LOCATION. REFER TO SHEET DOOR ROUGH-IN DETAIL 1/T400 FOR COMPLETE INSTALLATION INFORMATION AND ACCESS CONTROL DOOR TYPE SCHEDULE FOR ADDITIONAL INFORMATION.	ROUGH-IN ONLY
PA-AMP-1	SOUND MASKING CONTROL MODULE 3-OUTPUT AMPLIFIER, ACCEPT EITHER A BALANCED OR SINGLE-ENDED INPUT SOURCE. OUTPUT TERMINALS ARE PROVIDED. 2 AUDIO INPUTS FOR PAGING AND MUSIC. INCLUDE WALL BRACKETS. REFER TO 3/T500 FOR SOUND MASKING SYSTEM RISER DIAGRAM. INCLUDE THE RACK MOUNT KIT CAMBRIDGE (QT X RMT-KT) THIS ITEM SHALL BE BID AS ALTERNATE #2.	CAMBRIDGE SOUND QT X 300 OR APPROVED EQUAL
PA-SM1-C	SOUND MASKING EMITTER, PASSIVE DIRECT-FIELD WIDE-DISPERSION DEVICE WITH 1.25" FULL-RANGE DRIVER IN SEALED ENCLOSURE. PROVIDES FOUR (4) AUTO-SEQUENCING, UNCORRELATED AUDIO CHANNELS TO ELIMINATE PHASING. PROVIDE SELECTABLE ATTENUATION VIA DIP SWITCHES: 0 DB, -3 DB, -6 DB, -9 DB. PROVIDE (2) RJ-45 CONNECTORS FOR DAISY-CHAIN CONNECTION VIA CATEGORY UTP (8-CONDUCTOR) CABLING; SUPPORT UP TO SIXTY (60) EMITTERS ON ONE STANDARD RJ-45 CAT CABLE RUN (SYSTEM-DEPENDENT). PLENUM RATED. PROVIDE WITH DRYWALL ROUGH-IN BRACKET WITH PLASTIC DRYWALL MOUNT (CAMBRIDGE DRB-1-KIT. REFER TO FLOOR PLANS FOR SPEAKER QUANTITY. EMITTERS ARE DAISY CHAINED WITH 4-PAIR, CATEGORY 3 OR BETTER, UNSHIELDED TWISTED PAIR CABLE. CAMBRIDGE E-A-W-25-W SHOULD COME WITH A 25 FOOT PATCH CABLE. REFER TO 3/T500 FOR SOUND MASKING SYSTEM RISER DIAGRAM. THIS ITEM SHALL BE BID AS ALTERNATE #2.	CAMBRIDGE SOUND QT STANDARD EMITTER E-A-W-25-4 OR APPROVED EQUAL
SC-RI-W	INFORMATION OUTLET ROUGH-IN ONLY, WALL MOUNT, SHOWN ON DRAWINGS. INSTALL INFORMATION OUTLET IN A 4 SQUARE BACKBOX WITH SINGLE GANG PLASTER RING. INSTALL A 1" EMT. CONDUIT TO ACCESSIBLE CEILING. REFER TO 2/T400 FOR TECHNOLOGY ROUGH-IN TO DETAIL	NOT IN SCOPE. FOR REFERNCE ONLY

ACCESS CONTROL DOOR TYPE SCHEDULE

1. ALL ELECTRONIC DOOR HARDWARE SUCH AS CARD READERSS, REX, DPS, ELECTRIC STRIKES, ELECTRIC LATCH RETRACTION, ETC. SHALL BE PROVIDED AND INSTALLED BY OTHERS. SCHEDULE IS FOR REFERENCE ONLY.
2. REFER TO THE TECHNOLOGY EQUIPMENT SCHEDULE FOR CREDENTIAL READER TYPE ROUGH-IN INFORMATION.

			CREDENTIAL READER			REQUEST TO EXIT		DOOR HARDWARE / MONITORING										INTEGRATION											OTHER (REFER TO NOTES)					
DOOR #	SECURITY DOOR TYPE	ROUGH IN ONLY	CREDENTIAL READER TYPE	MULTIPLE CREDENTIAL READERS OPERATES SINGLE DOOR	OPERATES MULTIPLE DOORS	INTERNAL ELECTRIFIED HARDWARE CONNECTION (BY OTHERS)	MOTION DETECTOR	LOCAL PUSHBUTTON DOOR HARDWARE OVERRIDE	ELECTRONIC LOCKING HARDWARE (BY OTHERS)	MAG LOCK	LOCAL ALARM HORN	LATCH STATUS DETECTION (BY OTHERS)	MONITOR LATCH BOLT (BY OTHERS)	MONITOR DOOR POSITION SWITCH SPDT	MONITOR DOOR POSITION SWITCH DPDT	MONITOR DOOR POSITION SWITCH - OVERHEAD DOOR	MONITOR DOOR POSITION SWITCH - ROOF HATCH	AUTOMATIC DOOR OPERATOR	ELEVATOR	LOCKED BY EMERGENCY DURESS SEQUENCE	INFANT PROTECTION	REMOTE UNLOCK VIA INTERCOM MASTER	REMOTE UNLOCK VIA PUSHBUTTON	INTRUSION DETECTION	REMOTE UNLOCK VIA FIRE COMMAND CENTER	VIDEO SURVEILLANCE	WANDER PREVENTION SYSTEM	DELAYED EGRESS (BY OTHERS)	LOCAL 120VAC POWER SUPPLY	SCHEDULE BASED LOCKING	VISUAL STROBE/AUDIBLE ALARM	DETAIL REFERENCE	NOTES
D111	RME		R1				•		•					•																			
D113	RME		R1				•		•					•																			
D114	RME		R1				•		•					•																			
D115	RME		R1				•		•					•																			
D117	RME		R1				•		•					•																			
DM101A	RME		R1				•		•					•																			
DM114	RME		R1				•		•					•																			
DM118	RME		R1				•		•					•																			
DM120	RME		R1				•		•					•																			
DM121	RME		R1				•		•					•																			
DM122	RME		R1				•		•					•																			
DM133A	RME		R1				•		•					•																			
DM135	RME		R1				•		•					•																			
DM171	RME		R1				•		•					•																			

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0 1 2 3
REF. SCALE IN INCHES

PROJECT #25007315.00

100% CD

HORIZON ARCHITECTURE

DAS -9481.00- 5JD 150 DES MOINES STREET RENOVATIONS

150 DES MOINES ST.
DES MOINES, IA 50309

Mark	Date	Description
1	10/23/2026	ADD #3

PROJECT NO: G24-041
DATE: 08/04/2026
DRAWN BY: PARPOL

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SHEET TITLE

TECHNOLOGY SCHEDULES

T500

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The following drawings were submitted in conjunction with Question #13 and are provided for reference purposes only. These drawings are not part of the official Construction Documents and shall not be considered contractually binding or used for construction.

FOR REFERENCE ONLY

SHEET NOTES:

1. SOUND MASKING TO BE BID AS ALTERNATE #2.

KEYNOTES:

1. EXISTING PATHWAYS FROM FLOOR BELOW TO ABOVE ACCESSIBLE CEILING. SEE T200 FOR BASEMENT PLAN.



1 LEVEL 01 PLAN - TECHNOLOGY

1/8" = 1'-0"

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HORIZON ARCHITECTURE

DAS -9481.00- 5JD 150 DES MOINES STREET RENOVATIONS

150 DES MOINES ST.
DES MOINES, IA 50309

Mark	Date	Description

PROJECT NO: G24-041

DATE: 09/02/2026

DRAWN BY:

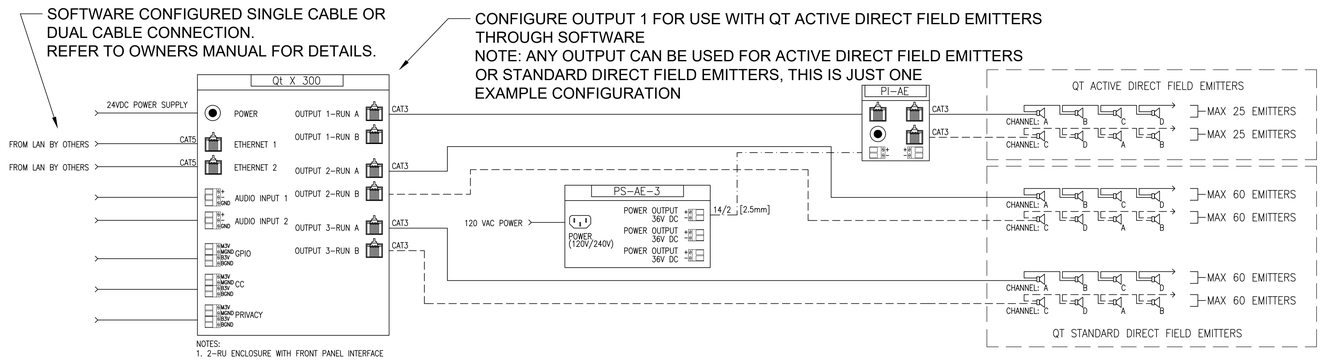
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LEVEL 01 PLAN - TECHNOLOGY

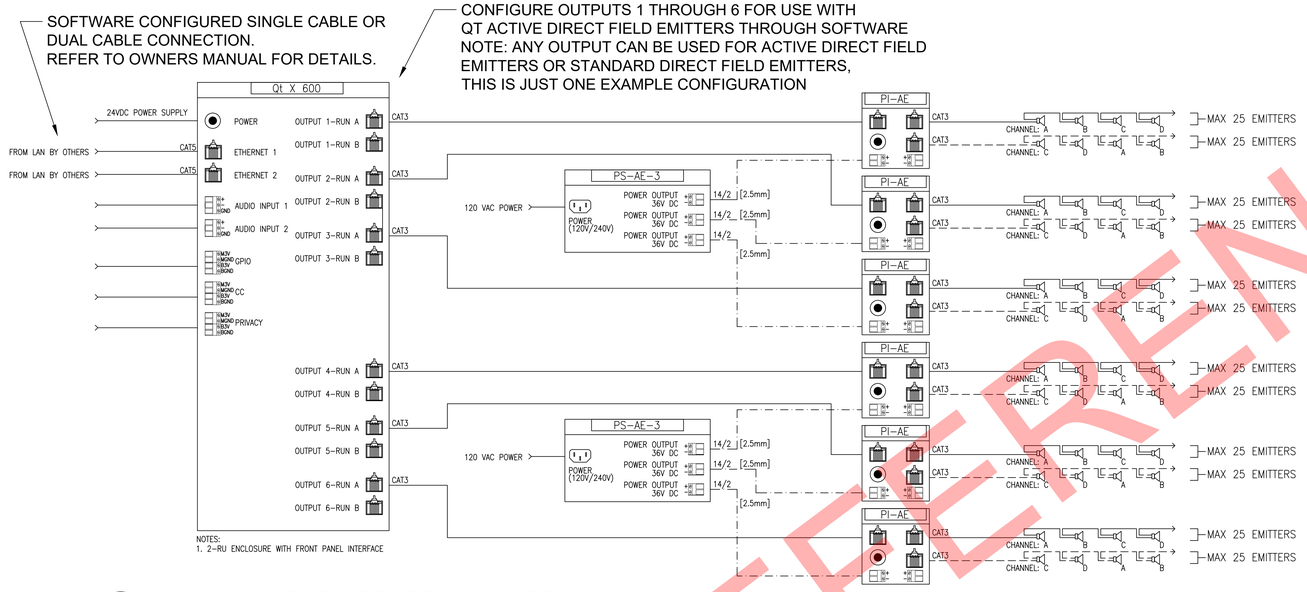
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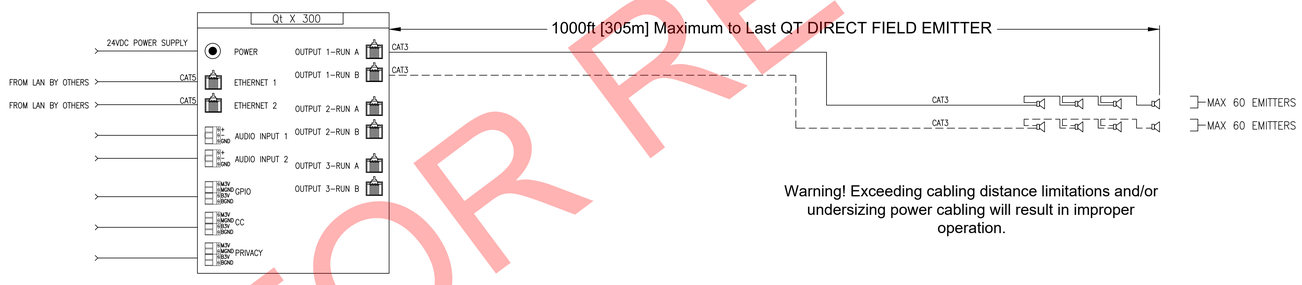
1 SM0.0 Qt X 300 - ACTIVE AND STANDARD DIRECT FIELD EMITTERS - BLOCK DIAGRAM - EXAMPLE

NOTE: UP TO 5 POWER SUPPLIES (PS–AE–3) CAN FIT IN 3 RU.



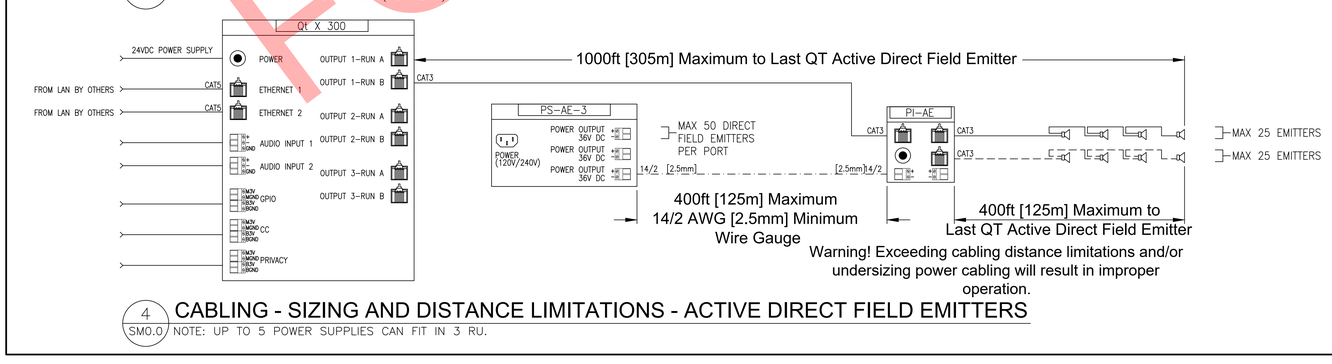
2 SM0.0 Qt X 600 - ACTIVE DIRECT FIELD EMITTERS - BLOCK DIAGRAM - EXAMPLE

NOTE: UP TO 5 POWER SUPPLIES (PS–AE–3) CAN FIT IN 3 RU.



3 SM0.0 CABLING - SIZING AND DISTANCE LIMITATIONS - STANDARD DIRECT FIELD EMITTERS - EXAMPLE

NOTE: UP TO 5 POWER SUPPLIES (PS–AE–3) CAN FIT IN 3 RU.



4 SM0.0 CABLING - SIZING AND DISTANCE LIMITATIONS - ACTIVE DIRECT FIELD EMITTERS

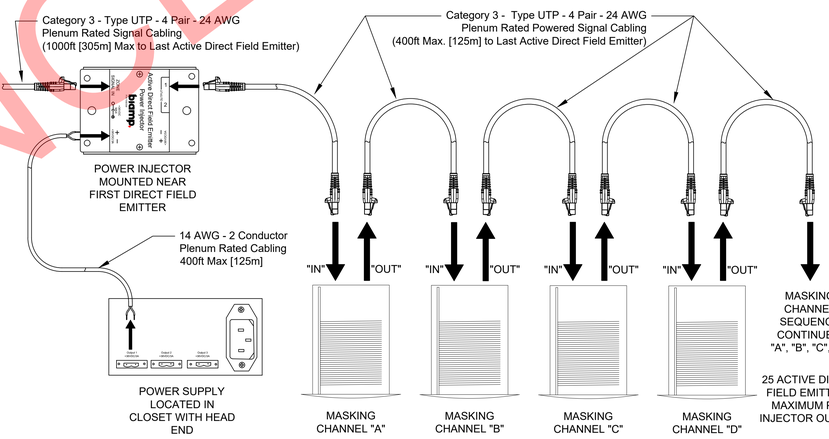
NOTE: UP TO 5 POWER SUPPLIES CAN FIT IN 3 RU.

ZONE TYPE	CEILING HEIGHT	ZONE VOL LEVEL	INTENDED RESULT
OPEN OFFICE AREAS	< 9' [2.75m]	3.0 TO 6.0	45 - 48 dBA
OPEN OFFICE AREAS	9' - 10' [2.75 - 3m]	4.0 TO 7.0	45 - 48 dBA
OPEN OFFICE AREAS	10' - 11' [3.0 - 3.3m]	5.0 TO 8.0	45 - 48 dBA
OPEN OFFICE AREAS	11' - 12' [3.3- 3.6m]	6.0 TO 9.0	45 - 48 dBA
OPEN OFFICE AREAS	> 12' [3.6m]	7.0 TO 10.0	45 - 48 dBA
PRIVATE OFFICE AREAS	ALL	-5.0 TO -1.0	38 - 42 dBA

NOTES:
- WARNING! - CONFIGURE QT X CONTROL PROCESSOR FOR PROPER DIRECT FIELD EMITTER TYPE PRIOR TO ADJUSTMENT.
- ALL LEVELS SHOULD BE MEASURED AND VERIFIED WITH A SOUND LEVEL METER USING A STANDARD "A" WEIGHTING ON SLOW RESPONSE; ALL MEASUREMENTS SHOULD BE RECORDED AT 4' (1.2M) ABOVE THE FLOOR (REFER TO ASTM E1573 FOR A STANDARDIZED PROCEDURE OF MEASURING SOUND MASKING LEVELS)
- ALL LEVELS PROVIDED ARE INTENDED AS DAYTIME LEVELS FOR TYPICAL WORKPLACE ENVIRONMENTS
- LEVELS FOR HALLWAYS, CORRIDORS, TRANSITIONAL SPACES, LOBBIES, ETC. SHOULD MATCH ADJACENT AREAS TO PROVIDE CONSISTENT/UNOBTRUSIVE COVERAGE
- ZONE LEVELS SHOWN ARE BASED ON ALL OUTPUT LEVELS EQUALING 0 dB.

5 SM0.0 SOUND MASKING LEVELS

NOTE:



7 SM0.0 ACTIVE DIRECT FIELD EMITTER DAISY CHAIN WIRING

NOTE:

NOTE:
ALWAYS OBSERVE DIRECT FIELD EMITTER INPUT AND OUTPUT JACKS. NEVER CONNECT CABLES IN REVERSE ORDER TO PREVENT IMPROPER SEQUENCE OF CHANNELS AND POSSIBLE OVERLOAD SITUATION.

OPEN OFFICES / HALLWAYS		PRIVATE OFFICES		RECOMMENDED PRIVATE OFFICE LAYOUT
CEILING HEIGHT	DIRECT FIELD EMITTER SPACING	ROOM SIZE	DIRECT FIELD EMITTER QUANTITY	
< 9' [<2.75m]	8' X 8 [2.4m X 2.4m]	< 180 SQ FT [16.7 SQ m]	2	
9' to 10' -11" [2.7m to 3.3m]	10' X 10' [3m X 3m]	181 to 260 SQ FT [16.8 to 24.1 SQ m]	3	
11' to 14' [3.4m to 4.3m]	12' X 12' [3.6m X 3.6m]	261 to 340 SQ FT [24.2 to 31.5 SQ m]	4	
> 14' [>4.3m]	CALL BIAMP	> 341 SQ FT [>31.6 SQ m]	+ 1 FOR EVERY 80 SQ FT [7.4 SQ m] MORE	

8 SM0.0 DIRECT FIELD EMITTER LAYOUT GUIDELINES FOR CLOSED SPACES

NOTE:

FOR REFERENCE ONLY

biamp.
9300 SW GEMINI DRIVE
BEAVERTON, OR 97008
www.biamp.com

PROJECT NAME:

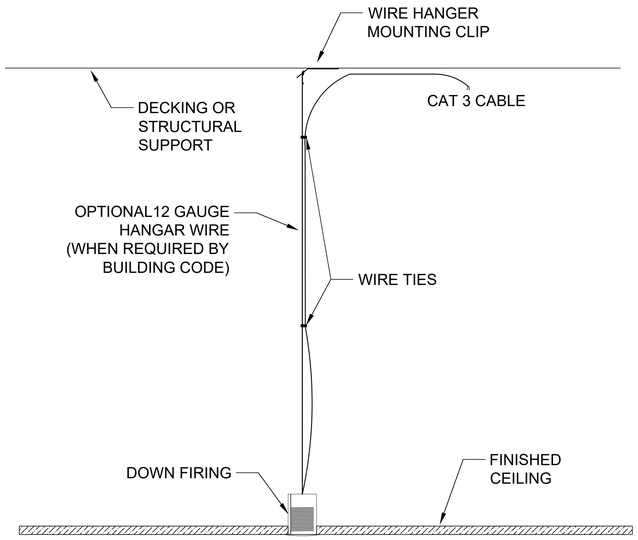
GENERIC SCHEMATIC DRAWINGS AND INSTALLATION NOTES

SOUND MASKING

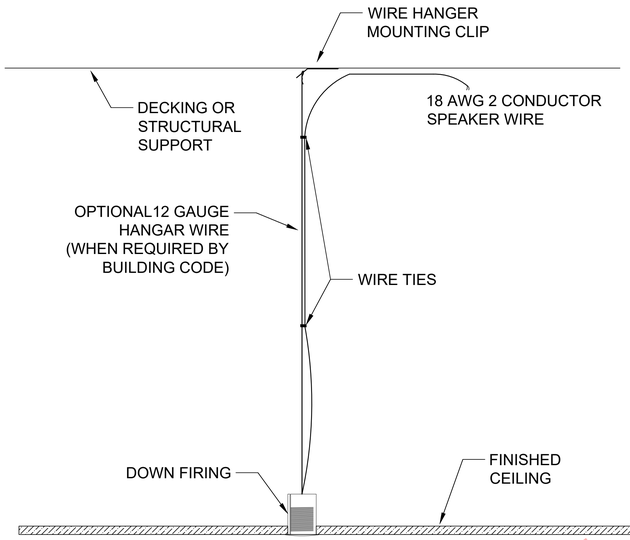
1. DO NOT REVERSE THE EMITTER INPUT AND OUTPUT FOR ANY REASON. IF AN EMITTER DOES NOT PLAY MASKING WHEN AN INPUT IS CONNECTED, CHECK 4 PREVIOUS CABLES AND SPEAKERS FOR PROBLEMS. IF THE ISSUE PERSISTS, CONTACT THE MANUFACTURER.
2. ALL EMITTERS AND CONTROL MODULES USE RJ-45 CONNECTORS USING TIA-568B WIRING SCHEME.
3. ALL CABLING TO BE TESTED FOR PROPER PIN ORDER / TERMINATION PRIOR TO CONNECTION TO SOUND MASKING COMPONENTS.
4. QT X 300/QT X 600 CONTROL MODULES ARE CONFIGURED FOR QT STANDARD EMITTERS AT FACTORY AND MUST BE RECONFIGURED FOR QT ACTIVE EMITTER OPERATION USING SOFTWARE.
5. PLEASE REFER TO THE INSTALLATION / OPERATIONS GUIDE / ADDENDA FOR DETAILS PROVIDED WITH EACH CONTROL MODULE.
6. EMITTER GRID SPACING IS DETERMINED BY CEILING HEIGHT CHART AND SHOULD BE NO LESS THAN EIGHT FEET (8ft) [2.4m] CENTERS AND NO MORE THAN TWELVE FEET (12ft) [3.6m] CENTERS.
7. EMITTERS MUST BE A MINIMUM OF TWO (2ft) [60cm] AND MAXIMUM OF ONE HALF THE EMITTERS SPACING FROM ANY GIVEN WALL, SOFFIT, COLUMN, OR OTHER STRUCTURE THAT WILL BLOCK SOUND.
8. EMITTERS SHOULD BE CENTERED IN CEILING TILE WHENEVER POSSIBLE AND ALIGNED IN STRAIGHT ROWS.
9. ANY SINGLE EMITTER MAY BE MOVED UP TO TWO FEET (2ft) [60cm] IN ANY DIRECTION TO AVOID CONFLICTS WITH LIGHTS, VENTS OR OTHER FIXTURES. TAKE PRECAUTIONS TO MAINTAIN CONSISTENT SPACING PATTERN WHERE POSSIBLE.
10. ALL SYSTEMS USE 4 MASKING CHANNELS. AVOID HAVING EMITTERS OF THE SAME CHANNEL NEXT TO ONE ANOTHER TO AVOID INTERFERENCE. CATTY-CORNER IS ACCEPTABLE. EMITTERS CONFIGURE THEMSELVES TO A CHANNEL BASED ON THEIR POSITION IN THE CHAIN FROM CHANNEL 1 TO CHANNEL 4.
11. TO AVOID CHANNEL INTERFERENCE, A SERPENTINE WIRING PATTERN SHOULD BE USED.
12. QT ACTIVE EMITTERS ARE NOT COMPATIBLE WITH THE QT-RC2 ROOM CONTROL.
13. OUTPUTS MAY BE ASSIGNED TO SPECIFIC ZONES USING SOFTWARE/WEB INTERFACE. MULTIPLE OUTPUTS MAY BE ASSIGNED TO A SINGLE ZONE. (FUTURE SOFTWARE RELEASE)

SHEET NO.

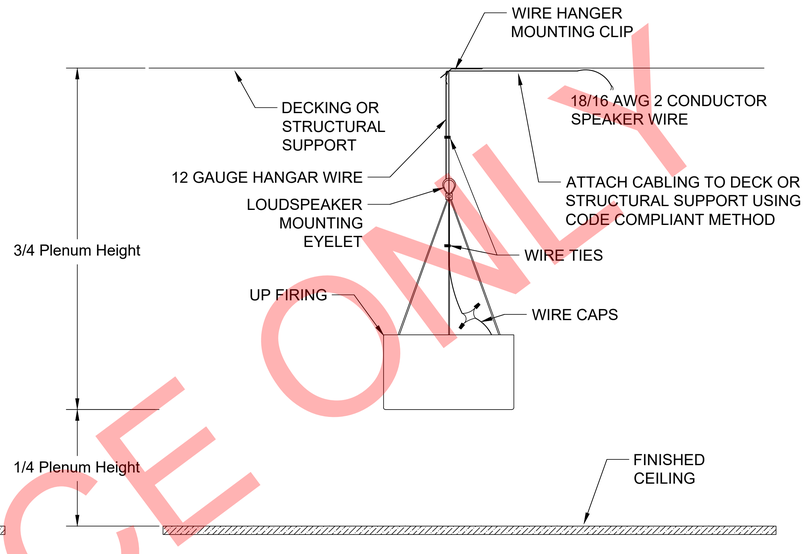
SM-0.0



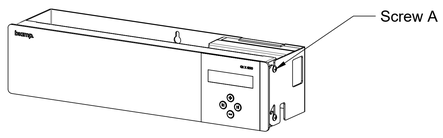
1 SM0.2 Qt STANDARD/ACTIVE MOUNTING DETAILS
NOTE: SCALE 1/4" = 1'



2 SM0.2 DS1320 MOUNTING DETAILS
NOTE: SCALE 1/4" = 1'



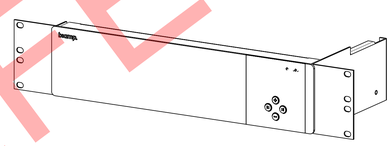
3 SM0.2 DS1339/DS1357 INDIRECT LOUDSPEAKER MOUNTING DETAILS
NOTE: SCALE 1/4" = 1'



Installing the Control Module
Note: Always plug/unplug power supply at wall outlet
Note: The QT X 600 is shown in the figures, but the QT X 300 installs in the same manner

Wall Mount
Mount the bracket using the three screws and plastic anchors (mollies) provided. Use a $\frac{1}{4}$ inch drill bit for the anchor hole.
Plastic anchors are #10-12 x 1 $\frac{1}{4}$ in. with #10 x 1 $\frac{1}{2}$ in. screws
Note: The control module hinges forward for wall mounting and cable installation. To hinge forward, loosen screws A (and B) used to secure the module during shipping.
Optional Accessory for QTX800/805 Models - Included with QTX300/600

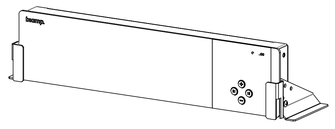
4 SM0.2 Qt X WALL MOUNT
NOTE: SCALE 1/4" = 1'



Rack Mount
Attach optional rack mount brackets to each end of the control module.
Note: When rack mounted, the control module does not hinge forward.
Step 1
Remove the QT X and power supply bracket from the wall mount bracket.
Step 2
Reassemble power supply to right rack mount bracket using 6:32 black screws (included with bracket).
Step 3
Fasten left and right rack mount brackets to QT X using the screws removed in Step 1.
Step 4
Mount QT X to 19" cabinet rail using rack screws (10:32 rack screws included with bracket).

Optional Accessory for Qt X300/600/800 Models - Included with QtX805

5 SM0.2 Qt X RACK MOUNT
NOTE: SCALE 1/4" = 1'



Installing the Plenum Mount

A Pair of Mounting Brackets and M4 screws are included with the QT X 800/800D model.
Note: If the panel is installed in the face down position, an additional M4 screw must be installed in the lower holes on each side to prevent panel movement. All wiring must be plenum rated if it is installed in the plenum space.

Three types of Mounting
1. **Over a ceiling rail (flush)**
2. **Face down against the ceiling tile**
3. **Controller is raised above the rail, connected with upper screw mount.**

Optional Accessory for Qt X 300/600/805 Models - Included with Qt X 800

6 SM0.2 Qt X PLENUM MOUNT
NOTE: SCALE 1/4" = 1'

FOR REFERENCE ONLY

biamp.
9300 SW GEMINI DRIVE
BEAVERTON, OR 97008
www.biamp.com

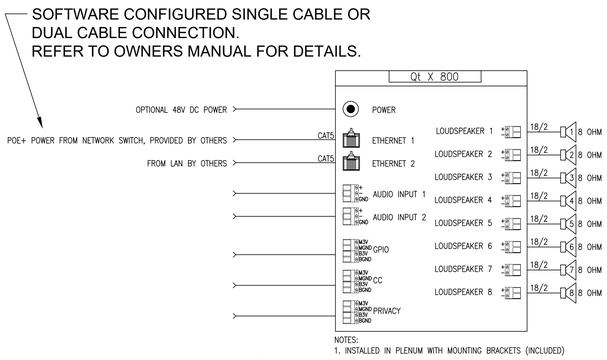
PROJECT NAME:

PRODUCT MOUNTING DETAILS

SOUND MASKING

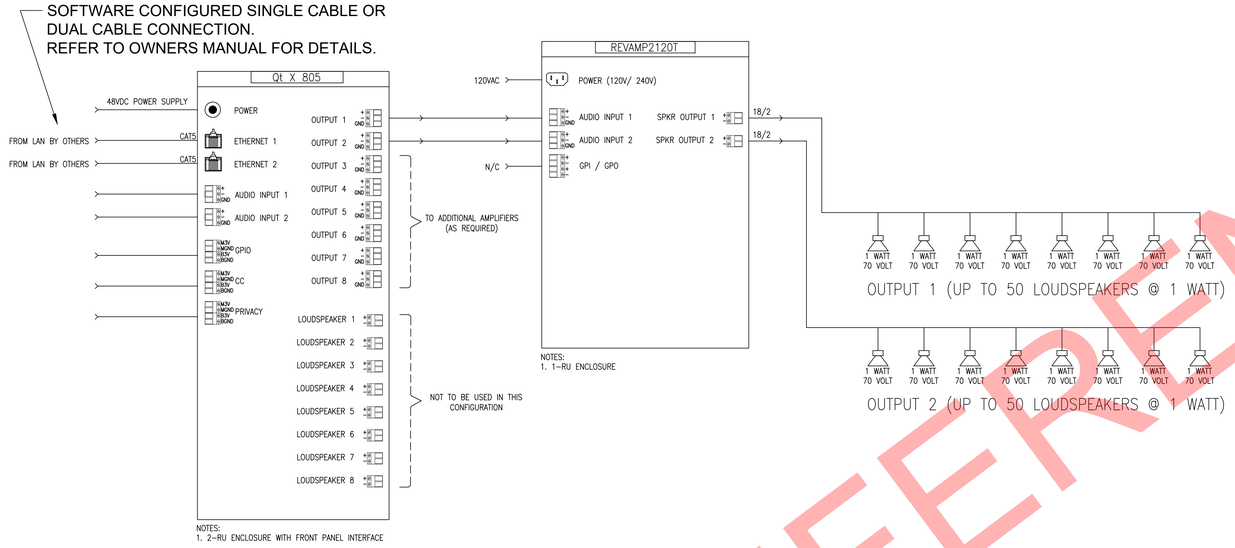
SHEET NO.

SM-0.2



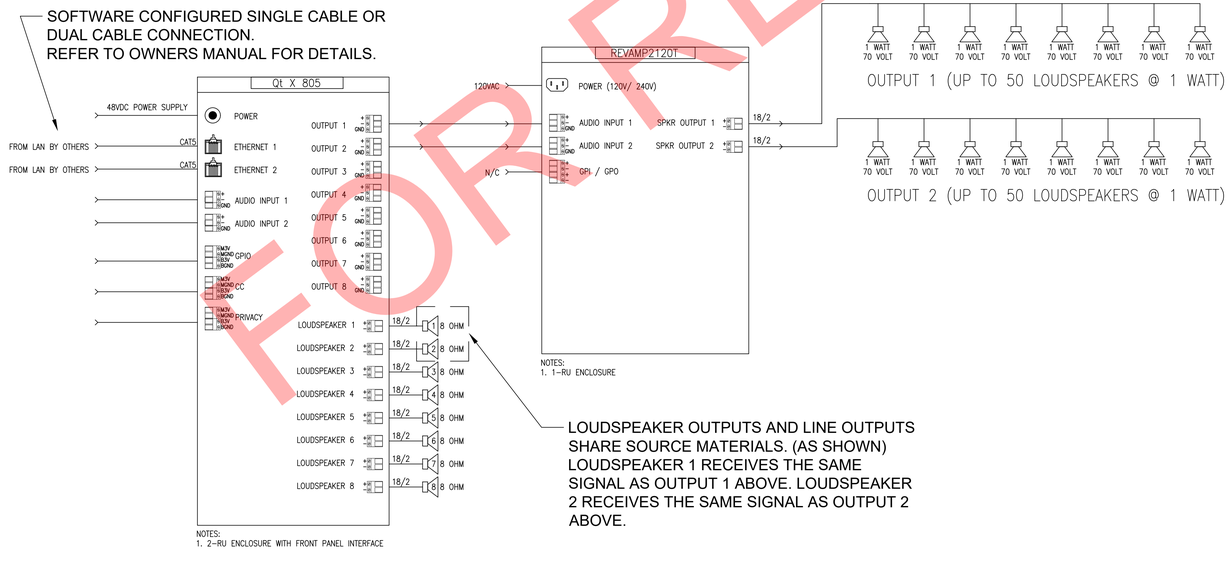
1 SMO.1 **Qt X 800 - BLOCK DIAGRAM - EXAMPLE**

NOTE: DRAWS 30W OF POE+ POWER, SIZE NETWORK SWITCH APPROPRIATELY



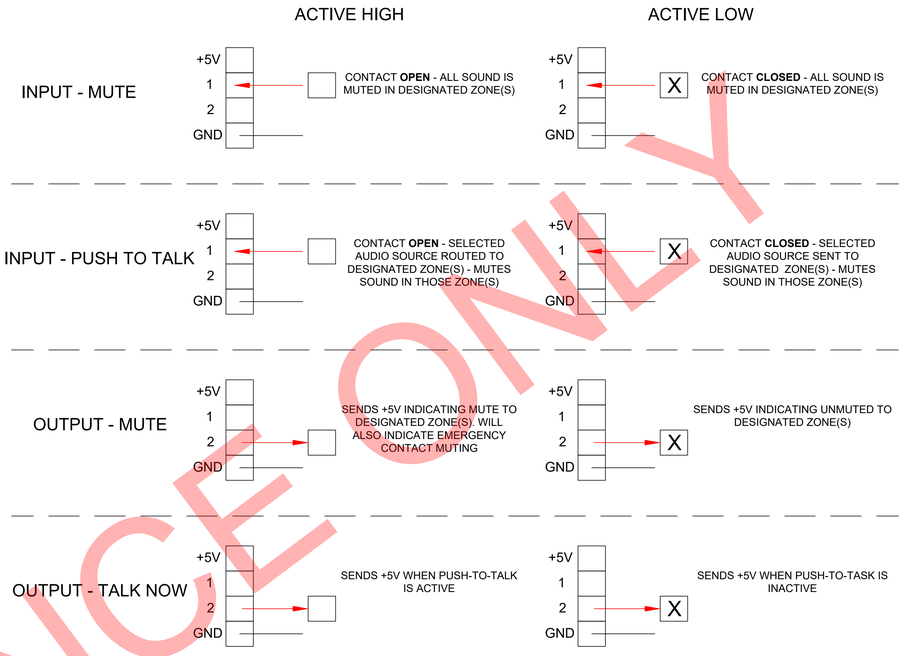
2 SMO.1 **Qt X 805 - 70V ONLY - BLOCK DIAGRAM - EXAMPLE**

NOTE: UTILIZE OUTPUTS ONLY



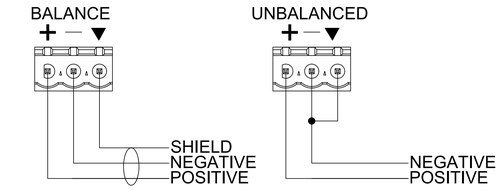
3 SMO.1 **Qt X 805 - 70V AND 8 OHM - BLOCK DIAGRAM - EXAMPLE**

NOTE: UTILIZE ONLY ONE OF OUTPUT OR SPEAKER



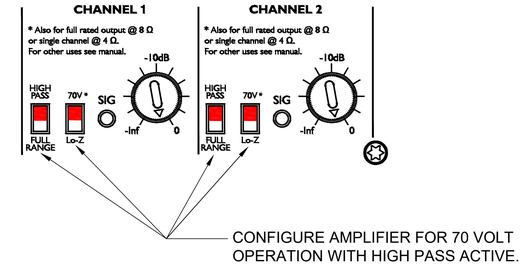
4 SMO.1 **Qt X GPIO CONNECTIONS**

NOTE: FOR STEREO CONNECTIONS UTILIZE A THIRD PARTY CONVERTER. REFER TO OWNERS MANUAL.



5 SMO.1 **Qt X PROCESSORS LINE LEVEL AUDIO CONNECTIONS**

NOTE: FOR STEREO CONNECTIONS UTILIZE A THIRD PARTY CONVERTER. REFER TO OWNERS MANUAL.



6 SMO.1 **DSLG22 AMPLIFIER CONFIGURATION**

NOTE:

FOR REFERENCE ONLY

biamp.
9300 SW GEMINI DRIVE
BEAVERTON, OR 97008
www.biamp.com

PROJECT NAME:

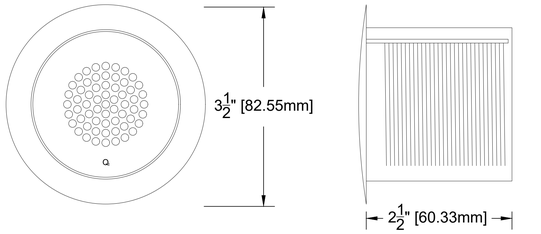
Qt X 800 / 805 CONNECTION DETAILS

SOUND MASKING

1. ALL DSLG22 AMPLIFIERS MUST BE CONFIGURED FOR 70 VOLT OPERATION PRIOR TO POWER UP. (SEE DETAIL)
2. EACH QT X 800/805 SOUND MASKING GENERATOR CONTAINS EIGHT UNIQUE MASKING CHANNELS CONFIGURED USING SOFTWARE.
3. EACH OF THE EIGHT AMPLIFIED OUTPUT SPEAKERS/DIRECT FIELD EMITTERS CAN BE INDEPENDENTLY ADJUSTED FOR MASKING AND AUX AUDIO LEVELS AND SPECTRA.
4. ENSURE LOUDSPEAKERS (ONE THROUGH EIGHT) CORRESPOND TO THE LOCATIONS EXACTLY AS SHOWN ON THE SOUND MASKING PLAN FOR EACH DEVICE.
5. LOUDSPEAKER LOCATIONS SHOULD BE CLEAR OF ALL OBSTACLES AND OBSTRUCTIONS ABOVE FINISHED CEILING. MAINTAIN A MINIMUM DISTANCE OF 2FT FROM ANY OBSTACLE LARGER THAN 24 Sq INCHES.
6. AVOID PLACEMENT OF LOUDSPEAKER DIRECTLY ABOVE CEILING OPENINGS SUCH AS AIR GRILLES. FOR BEST RESULTS "BOOT" ANY CEILING OPENING. (MODEL DS2022 OR EQUIVALENT.
7. OBSERVE LOUDSPEAKER POLARITY (+/-) AT EACH SPEAKER OUTPUT AND LOUDSPEAKER TERMINATION POINT.
8. NEVER SUBJECT BUILDING OCCUPANTS TO EXCESSIVE OR IMPROPERLY ADJUSTED SOUND MASKING. PROPER TUNING AND ADJUSTMENT IS REQUIRED BY QUALIFIED PERSONNEL PRIOR TO OCCUPANCY.
9. SET ALL LOUDSPEAKERS TAPS INITIALLY AT 1 WATT SETTING UNLESS OTHERWISE NOTED ON THE PROJECT DRAWINGS. ADDITIONAL ADJUSTMENT MAY BE REQUIRED AT THE TIME OF SYSTEM TUNING.
10. WHEN MULTIPLE QT X CONTROLLERS ARE INCLUDED IN A SINGLE SYSTEM, AUDIO INPUTS CAN BE SHARED ACROSS ALL CONTROLLERS VIA AVB OR DANTE.
11. WHEN MOUNTING QT X 800 IN PLENUM SPACE, 48VDC CONNECTION IS NOT REQUIRED WHEN POWERED VIA POE+.
12. SOUND MASKING LEVELS VARY GREATLY DEPENDING ON THE CEILING ENVIRONMENTS, AND NEED TO BE ADJUSTED IN CONJUNCTION WITH USING AN SPL METER. SEE INSTALLATION GUIDELINES FOR MORE INFORMATION.
13. OUTPUTS MAY BE ASSIGNED TO SPECIFIC ZONES USING SOFTWARE/WEB INTERFACE. MULTIPLE OUTPUTS MAY BE ASSIGNED TO A SINGLE ZONE. (FUTURE SOFTWARE RELEASE)

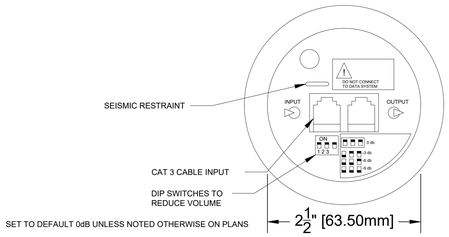
SHEET NO.

SM-0.1



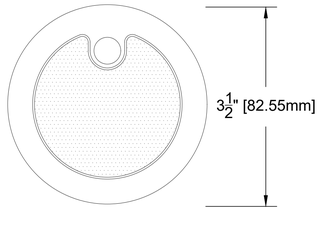
DIRECT FIELD EMITTER - FRONT

DIRECT FIELD EMITTER - LEFT SIDE

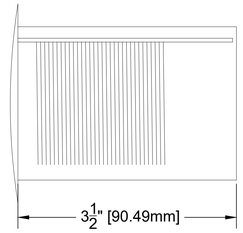


DIRECT FIELD EMITTER - REAR

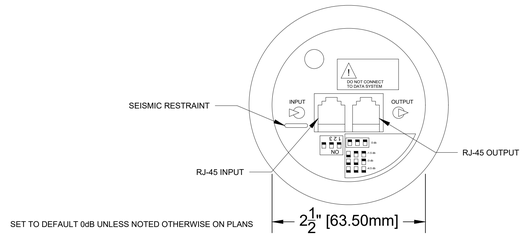
1 E-A-W Qt DIRECT FIELD EMITTER
SM0.3 SCALE: 1:1



ACTIVE DIRECT FIELD EMITTER - FRONT

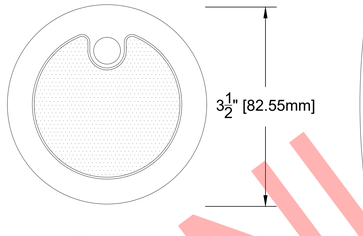


ACTIVE DIRECT FIELD EMITTER - LEFT SIDE

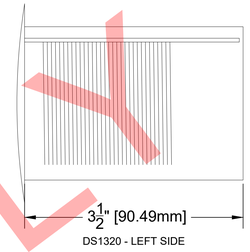


ACTIVE DIRECT FIELD EMITTER - REAR

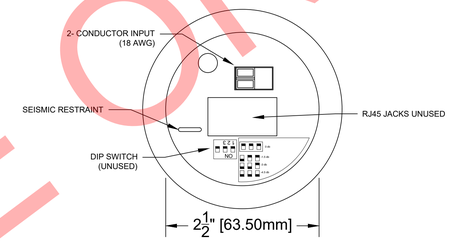
2 E-P-W Qt ACTIVE DIRECT FIELD EMITTER
SM0.3 SCALE: 1:1



DS1320 - FRONT

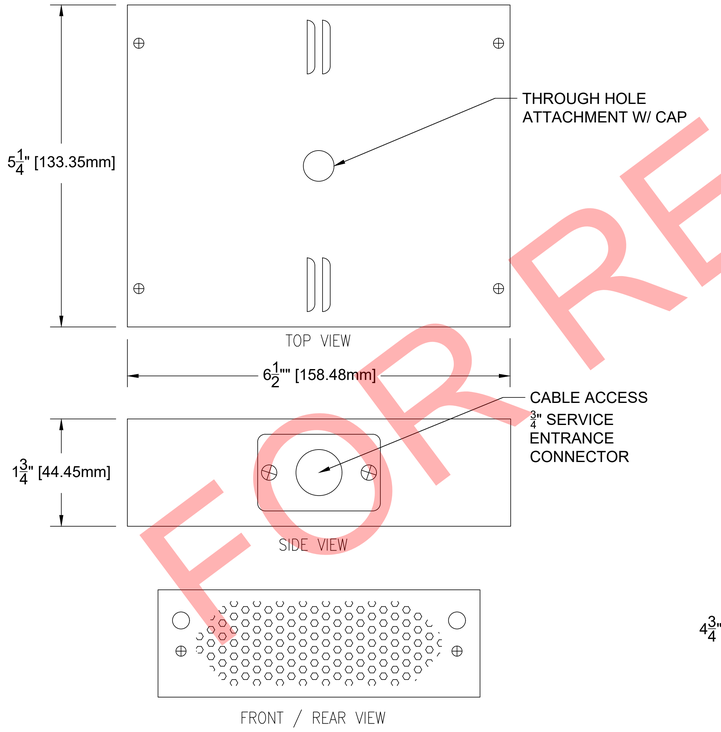


DS1320 - LEFT SIDE

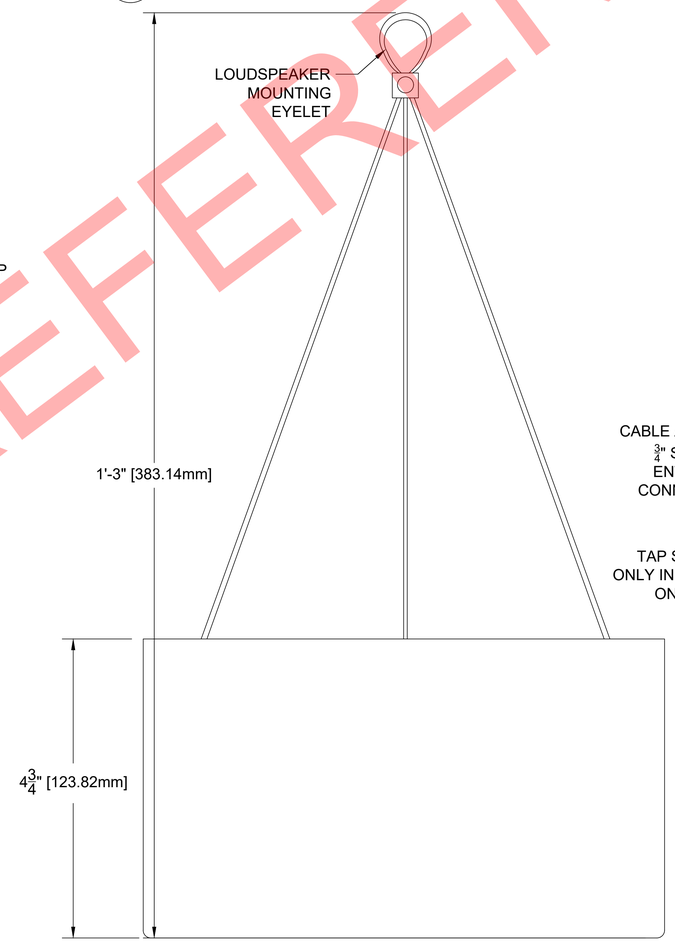


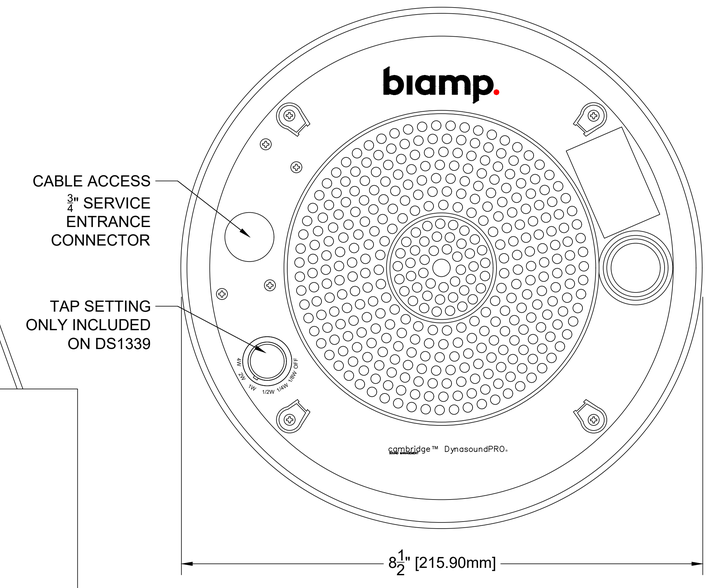
DS1320 - REAR

3 DS1320 DIRECT FIELD DIRECT FIELD EMITTER
SM0.3 SCALE: 1:1



4 DS1398 SOUND MASKING LOUDSPEAKER DETAILS
SM0.3 NOTE: SCALE 1/4" = 1'





UTILIZE MODEL DS1357 (8Ω) WITH DIRECT LOUDSPEAKER CONNECTIONS Qt X 800.

UTILIZE MODEL DS1339 (70V) WITH LG22 AMPLIFIER CONNECTIONS FROM Qt X 805

5 DS1339/DS1357 SOUND MASKING INDIRECT LOUDSPEAKER DETAILS
SM0.3 NOTE: SCALE 1/4" = 1'

FOR REFERENCE ONLY

biamp.
9300 SW GEMINI DRIVE
BEAVERTON, OR 97008
www.biamp.com

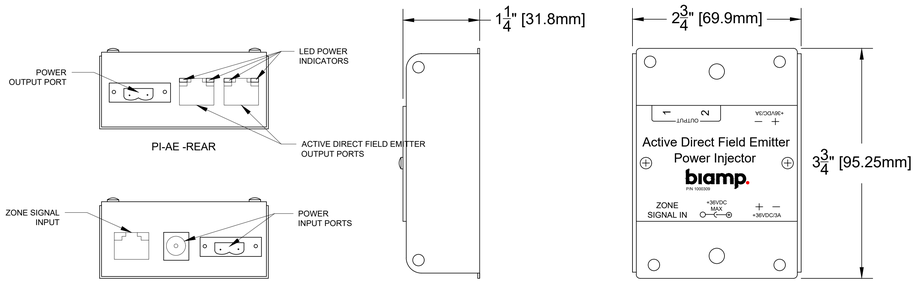
PROJECT NAME:

PRODUCT DETAILS

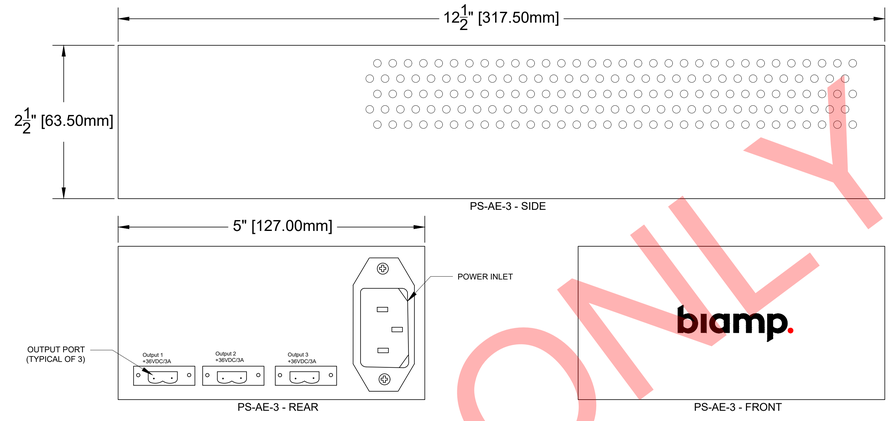
SOUND MASKING

SHEET NO.

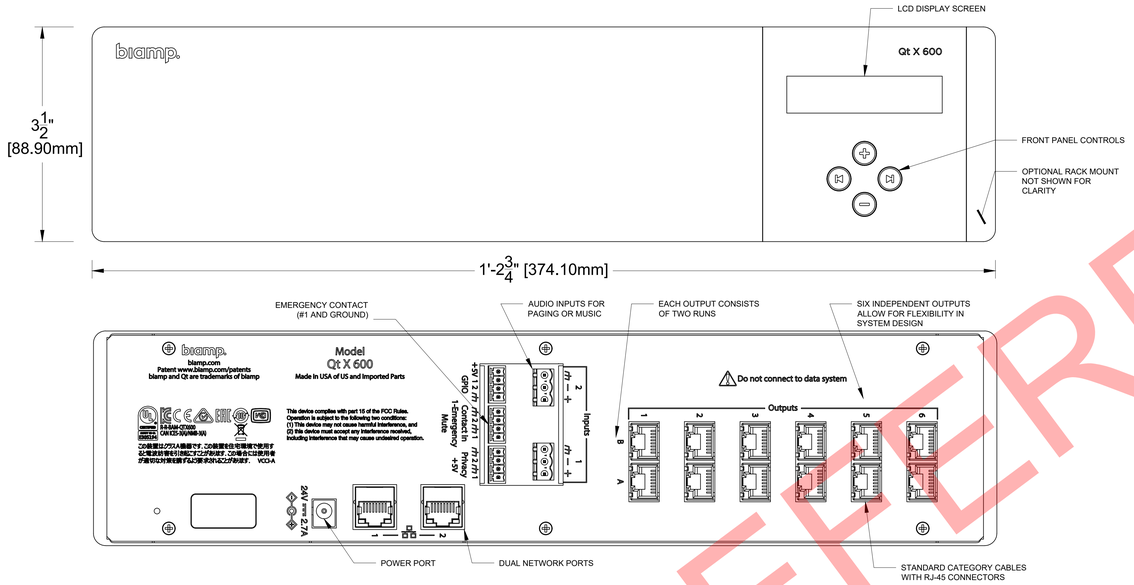
SM-0.3



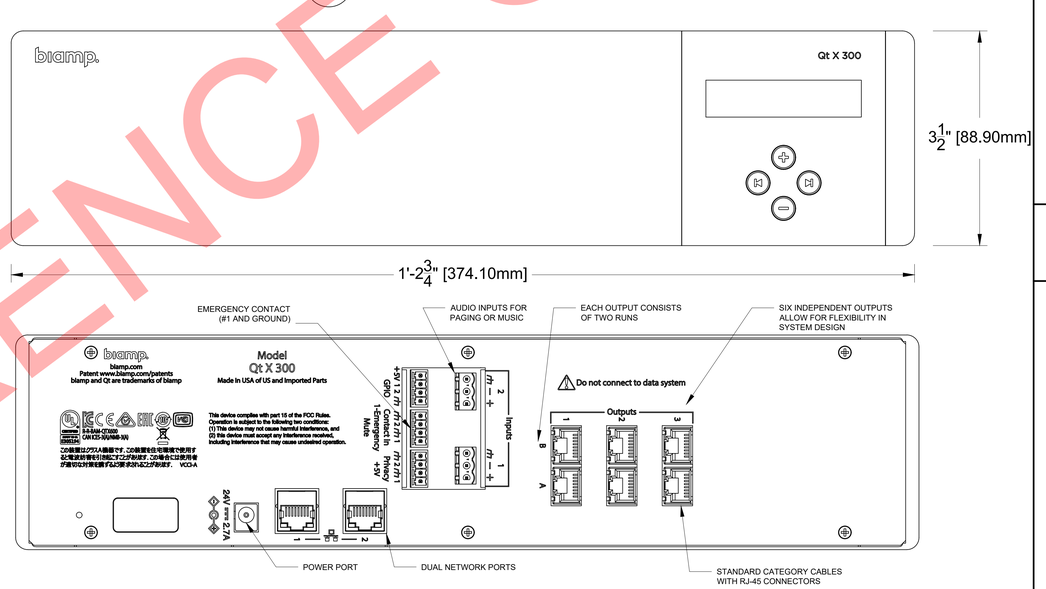
1 SM0.4 PI-AE POWER INJECTOR
SCALE: 1:1



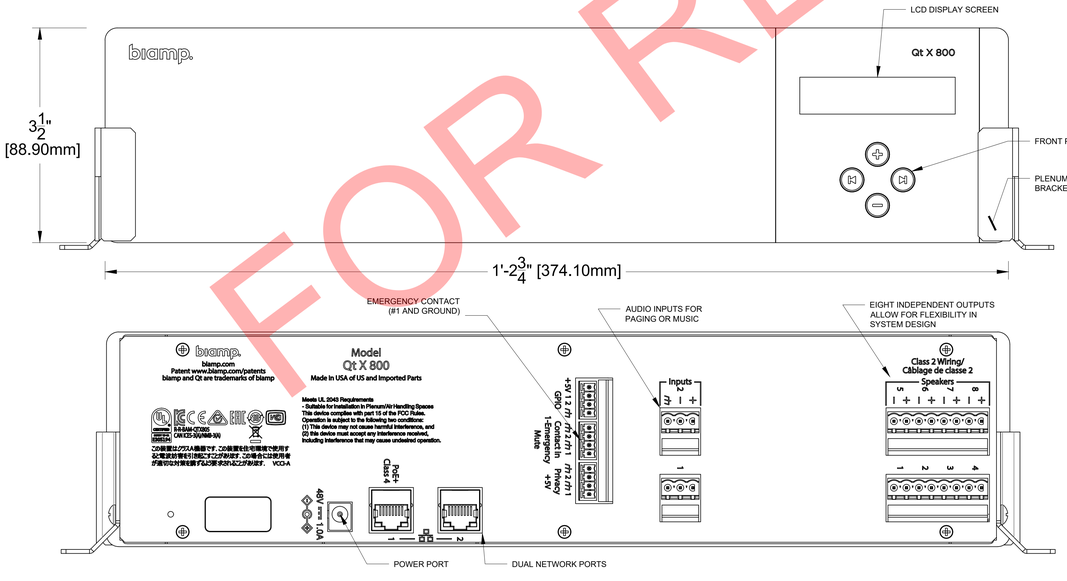
2 SM0.4 PS-AE-3 POWER SUPPLY
SCALE: 1:1



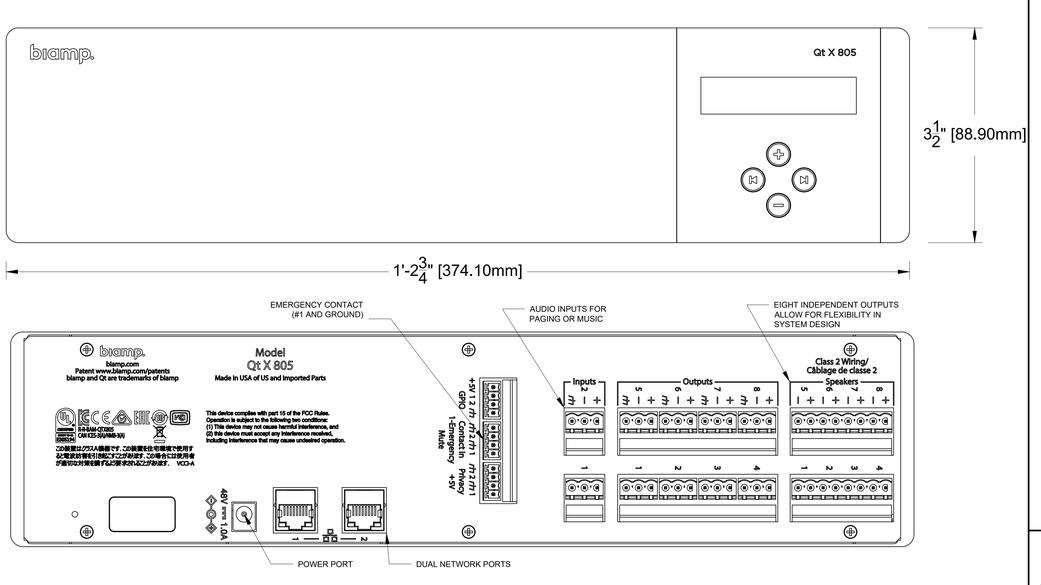
3 SM0.4 Qt X 600 CONTROL MODULE
SCALE: 1:1



4 SM0.4 Qt X 300 CONTROL MODULE
SCALE: 1:1



5 SM0.4 Qt X 800 CONTROL MODULE
SCALE: 1:1



6 SM0.4 Qt X 805 CONTROL MODULE
SCALE: 1:1

FOR REFERENCE ONLY

biamp.
9300 SW GEMINI DRIVE
BEAVERTON, OR 97008
www.biamp.com

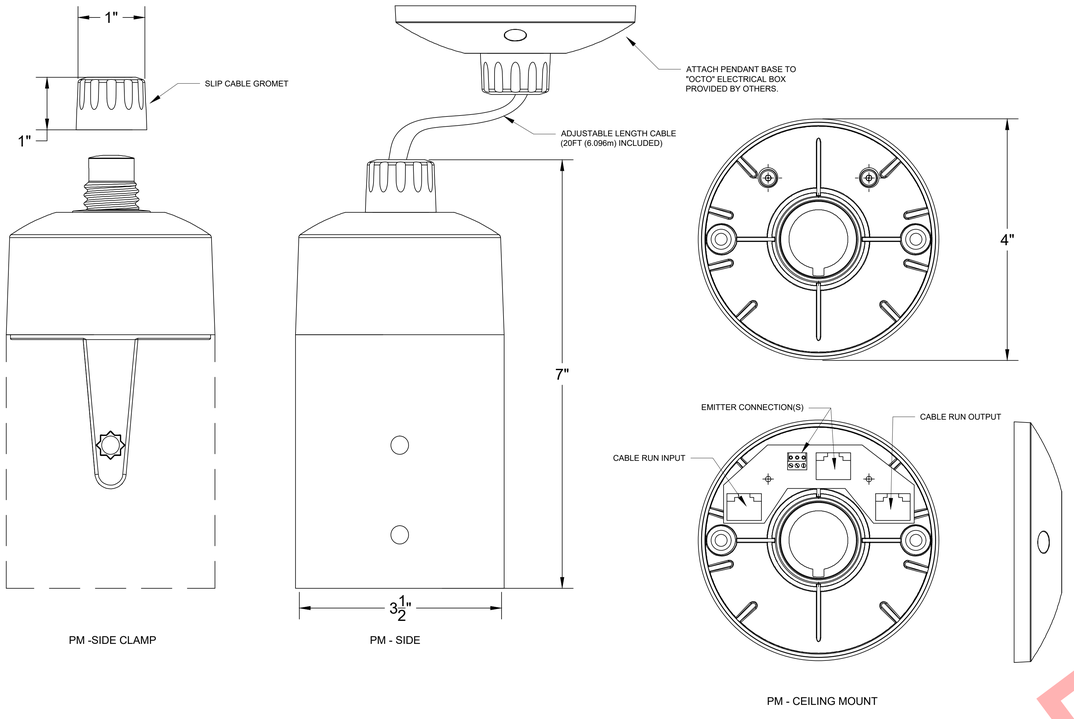
PROJECT NAME:

PRODUCT DETAILS

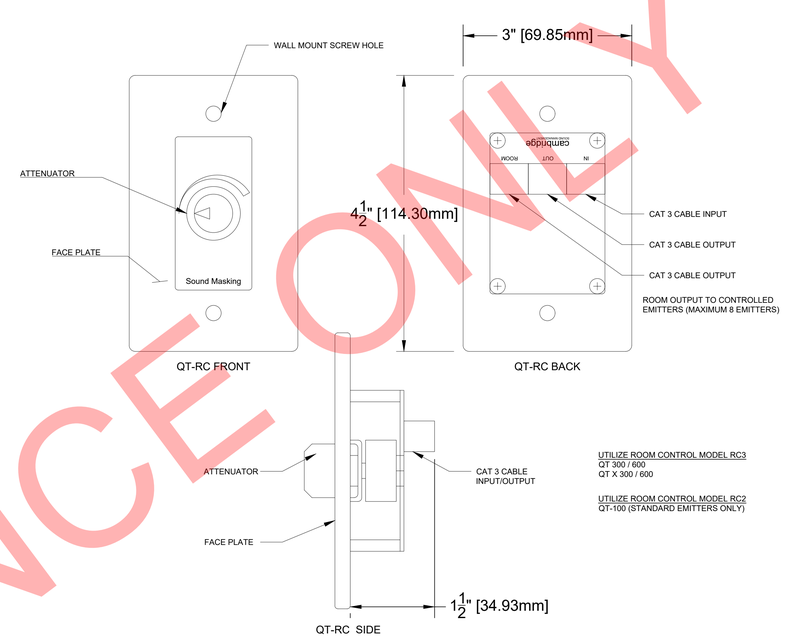
SOUND MASKING

SHEET NO.

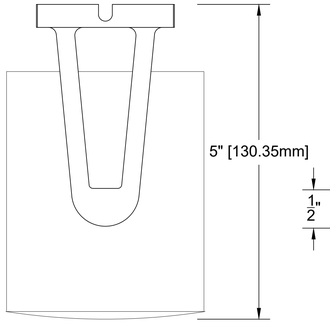
SM-0.4

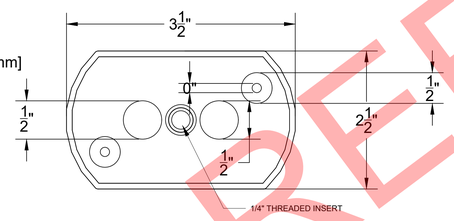


1 SM0.5 PM - PENDANT MOUNT
SCALE: 1:2

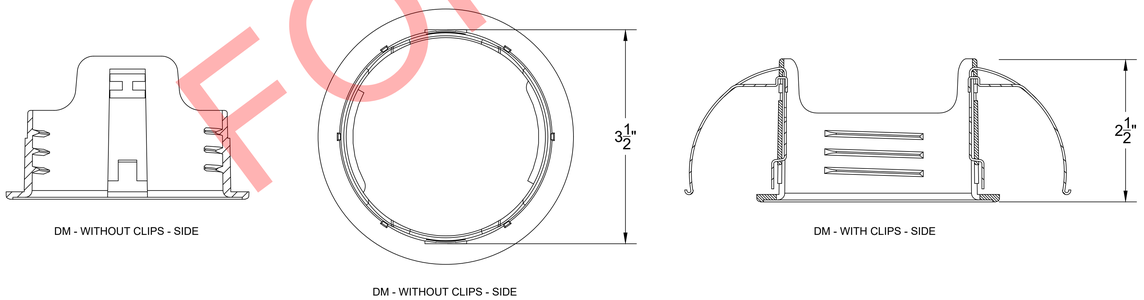


4 SM0.2 Qt ROOM CONTROL
SCALE: 1:1

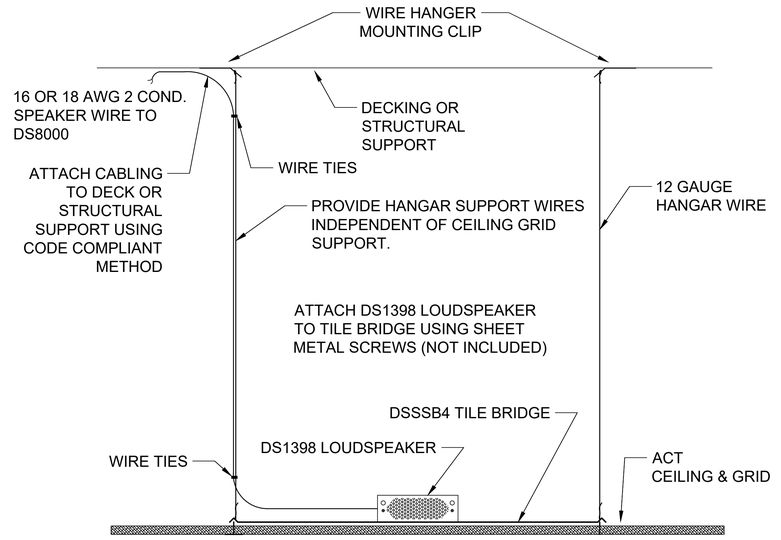




2 SM0.5 Qt UNIVERSAL BRACKET AE
SCALE: 1:2



3 SM0.5 DM - DRYWALL MOUNT
SCALE: 1:2



5 SM0.5 DS1398 T-BAR LOUDSPEAKER MOUNTING DETAILS
NOTE: SCALE 1/4" = 1'

FOR REFERENCE ONLY

biamp.
9300 SW GEMINI DRIVE
BEAVERTON, OR 97008
www.biamp.com

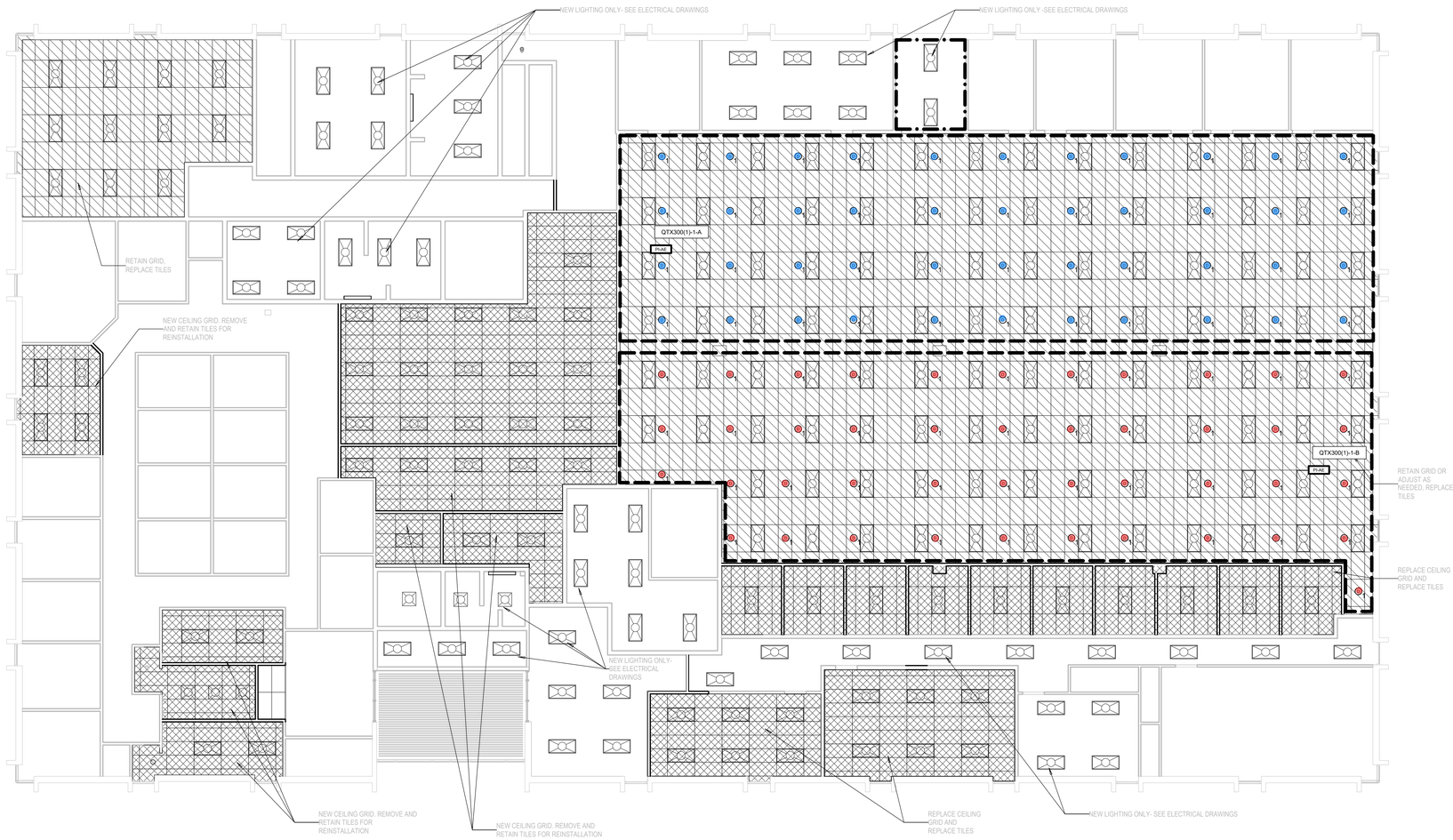
PROJECT NAME:

PRODUCT MOUNTING DETAILS

SOUND MASKING

SHEET NO.

SM-0.5



1 REFLECTED CEILING PLAN LEVEL 1

biamp.
9300 SW GEMINI DRIVE
BEAVERTON, OR 97008
www.biamp.com

PROJECT NAME:

STATE OF IOWA DAS
DES MOINES, IA

SOUND MASKING DESIGN

GENERAL NOTES
1. SPEAKER LOCATIONS ARE APPROXIMATE, WITH FINAL LOCATIONS TO BE COORDINATED IN THE FIELD.
2. EMITTERS / SPEAKERS SHALL NOT DEVIATE MORE THAN 2' IN ANY DIRECTION FROM THE ORIGINAL LOCATION.
3. EMITTERS / SPEAKERS SHALL BE NO CLOSER THAN 2' TO ANY OBSTRUCTION, INCLUDING WALLS.
4. HEAD END EQUIPMENT LOCATION IS SHOWN AS SUGGESTED AND MAY BE RELOCATED WITHIN LIMITED RANGE.
5. REVIEW COVER SHEETS AND PRODUCT DOCUMENTATION TO UNDERSTAND CABLING TYPES AND DISTANCE LIMITATIONS FOR EACH EMITTER/SPEAKER TYPE.
6. LAYOUT CREATED BASED ON INFORMATION PROVIDED. FINAL LAYOUT AND BOM IS THE RESPONSIBILITY OF THE INTEGRATOR.
7. CONNECTIVITY DRAWINGS WILL BE EMAILED AT THE TIME OF ORDER AS PART OF THE "DRAWINGS" LINE ITEM.
8. TAPS SHOULD BE SET AT 0 dB FOR EMITTERS AND ONE (1) WATT FOR SPEAKERS, UNLESS NOTED OTHERWISE.
9. TO BE INSTALLED PER LOCAL CODE REQUIREMENTS.
10. REFER TO APPLICABLE MOUNTING DETAILS ON COVER SHEETS, OTHERWISE CONTACT DESIGN ENGINEER OR FIELD SALES ENGINEER FOR QUESTIONS.

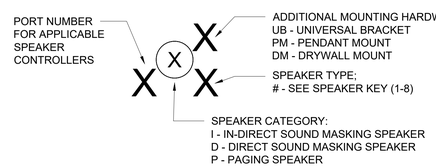
PROJECT NOTES
1. DESIGN BASED ON 9'-4" ACT
2. HEAD-END LOCATION TBD

HEAD-END OUTPUT
RUN (A OR B)
QTMOD(X)-X-X
HEAD END MODEL
HEAD END NUMBER

EQUIPMENT LEGEND

QT-MOD	QTPRO CONTROLLER
PS-AE-3	POWER SUPPLY
QTXMOD(X) S/N:	QT X SERIES HEADEND
PI-AE	POWER INJECTOR
▬ ▬ ▬	VIRTUAL ZONE BOUNDARY

SPEAKER LEGEND



SPEAKER KEY

TYPE	MODEL	QUANTITY
1	E-P-W	88
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-

SPEAKER MOUNTS & ACCESSORIES

MODEL	QUANTITY	DESCRIPTION
AE-UB	0	UNIVERSAL BRACKET
AE-BB	0	BEAM BRACKET
DRB-1_KIT	0	DRYWALL ROUGH-IN MOUNT
DM	0	DRYWALL MOUNT
HS-DW	0	HOLE SAW
CCM-1	0	CONDUIT MOUNT
PM	0	PENDANT MOUNT
DSSD1-BR24	0	SD1 MOUNTING BRACKET

HEAD-END EQUIPMENT

MODEL	QUANTITY
QTX300	1
QTX600	0
QT-100	0
QT-RC3	0
QT X RMT - KT	1
PI-AE	2
PS-AE-3	1

MODEL	QUANTITY
QTX805	0
REVAMP 1120T	0
REVAMP 2120T	0
REVAMP 4120T	0
QTX800	0
NMS-NG10GPX	0
NMS-NG26GPX	0

REVISIONS

REV #	DATE
1	
2	
3	
4	

DRAWN BY: HC
APPROVED BY: XX
SCALE: 1/8" = 1'-0"
DATE: 19 OCT 2026
PROJECT NUMBER: PRJ102687
SHEET NO.

SM1.0

END OF REFERENCE DOCUMENTS SUBMITTED IN CONJUNCTION WITH QUESTION #13

Question #12

SUBSTITUTION REQUEST FORM

Project: IDAS DOC 5JD 150 DSM ST Renovation

Substitution Request Number: 087100

From: Josh Nelson

To: Horizon Architecture

Date: 10/16/2026

A/E Project Number: G24-041

Re: 087100 Door Hardware

Specification Title: 087100 Door Hardware

Description: Approve Equal

Section: 2 Page:

Article/Paragraph: see page 2

Proposed Substitution: Competitive products as listed on the attachment

Manufacturer: Allegion Address: 11819 N Pennsylvania St. Carmel, IN 46032 Phone: 317-810-3700

Trade Name: Schlage Model No.:

History: ☐ New product ☐ 2-5 years old ☐ 5-10 yrs old ☐ More than 10 years old

Differences between proposed substitution and specified product: See attached

☐ Point-by-point comparative data prepared by contractor and attached - REQUIRED BY A/E

Reason for not providing specified item:

Similar Installation:

Project: Architect:

Address: Owner:

Date Installed:

Proposed substitution affects other parts of Work: ☑ No ☐ Yes; explain

Supporting Data Attached: ☐ Drawings ☑ Product Data ☐ Samples ☐ Tests ☐ Reports ☐

SUBSTITUTION REQUEST FORM

(Continued)

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.
- Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects.

Submitted by: Josh Nelson

Signed by: _____

Firm: Allegion

Address: 11819 N Pennsylvania St. Carmel, IN 46032

_____

Telephone: 563-343-7087

Attachments: _____

A/E's REVIEW AND ACTION

☐ Substitution approved - Make submittals in accordance with Specification Section 01 3300.
☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01 3300.
☐ Substitution rejected - Use specified materials.
☐ Substitution Request received too late - Use specified materials.

Signed by: Date:

Additional Comments: ☐ Contractor ☐ Subcontractor ☐ Supplier ☐ Manufacturer ☐ A/E ☐ _____

Substitution Request

www.allegion.com

Document Library

Division 8

We are requesting approval to substitute products that are recognized as equal or better throughout the industry with millions of satisfactory installations that include equal or better warranties than specified. The addition of these approved products will encourage competition in lieu of the currently specified single source products. Cutsheets are attached for review.

SECTION 08 71 00 ---- DOOR HARDWARE

2.03 ELECTRIC STRIKES

A. Basis of Design

1. Add Von Duprin (VD) 5100 Series - an Allegion Company

2.05 LOCK CYLINDERS

A. Lock Cylinders

3. Add Schlage ND Series - ND80LD RHO 626 - an Allegion Company

2.06 MORTISE LOCKS

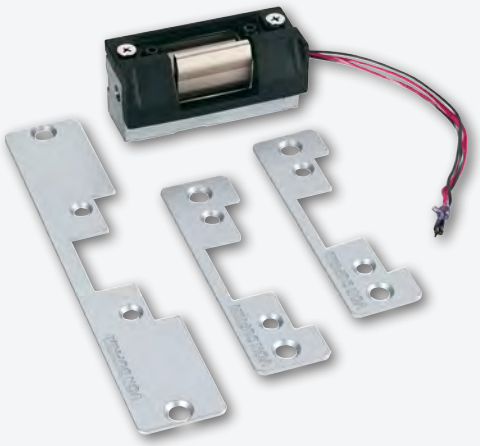
A. Manufacturers:

1. Add Schlage (SC) L9000 Series - an Allegion Company

VON DUPRIN®

5100 Series

Electric Strike for Cylindrical Locksets & Deadlatches



Overview

The Von Duprin 5100 Series electric door strike has been designed to offer flexibility and convenience for locksmiths and security professionals alike. This easy-to-install electric strike was created for medium-duty applications, specifically to control traffic flow through openings in retail and commercial environments.

The 5100 electric strike is compatible with a wide range of cylindrical devices and is extremely versatile for field conversions. The combination of three faceplate options plus field selectable voltage and power fail modes allows it to be changed on the job site to create as many as 12 different configurations. An adjustable keeper also improves fit for applications with weather stripping or tight door preps. In short, the 5100 provides added convenience by ensuring the right parts are in the box to get the job done.

Like other Von Duprin strikes, the 5100 was developed to meet high standards and engineered for reliability and quality. Its durable construction and tamper-resistant design stands up to abuse and is burglary-resistant (UL 1034).

Features & Benefits

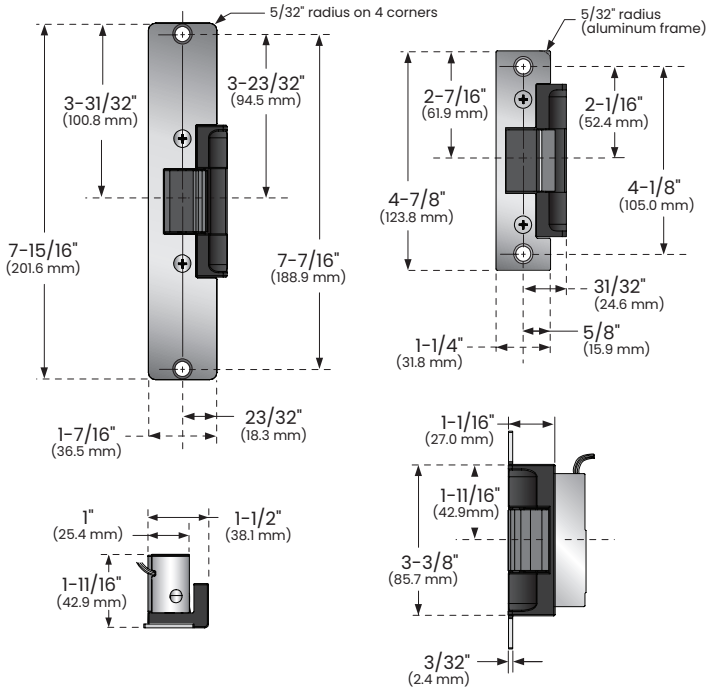
- Designed for cylindrical applications
- Capable of 12 in-field configurations
- Three faceplates standard in every box
- Field selectable 12/24 voltage
- Non-handed, internal solenoid design
- Field selectable power failure mode (fail-safe/fail-secure)
- Adjustable keeper improves fit on tight door preps
- Options include 12 and 24 VAC to VDC rectifier kits
- Available in three finishes to suite with existing hardware
- UL 1034 listed for burglary-resistant electric door strikes

5100 Series Power Requirements					
Model	Voltage	Current	Duty	Amps	Ohms
5100	12V	DC	Continuous	0.38	32
5100	24V	DC	Continuous	0.19	128

Continuous duty = Energized 1 minute or more

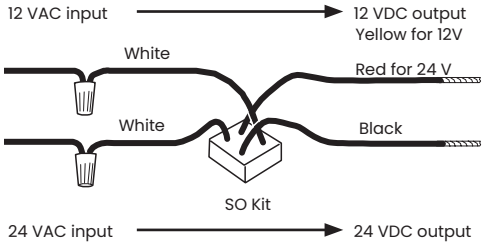
Model Specifications	
Model Number	5100
Retrofits Model	HES 5000C, 5200C, RCI 7 Series
Latchbolt Throw	1/2" to 5/8" (1/2" keeper depth)
Face Plate Length	4-7/8" or 7-15/16"
Backbox Depth	1-11/16"
Lockset	Cylindrical and deadlatch
Number of Doors	Single
Frame Type	Hollow metal, aluminum and wood
Application Notes	Versatile electric strike for aftermarket, covering multiple applications in one SKU.

Lockset compatibility: Keeper depth of 1/2" is sufficient to accommodate all cylindrical locks up to 5/8" throw and most aluminum narrow stile deadlatches.

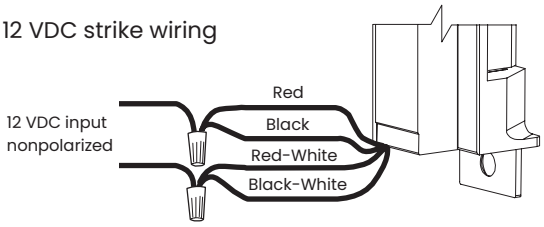


Solenoid power requirements; 12VDC, 0.38 A, 24 VDC, 0.19 A

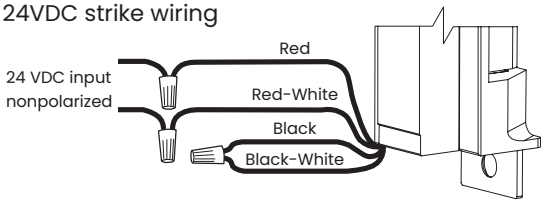
For DC operation, Von Duprin PS902 series power supply is recommended.
For AC operation, Von Duprin SO24 kit is recommended.



12 VDC strike wiring



24VDC strike wiring



Ordering Information

5100 - US19 - S024

Model	Finish	Rectifier Kit*
1	2	3

* Optional

Selections correspond with the numbers above.

1	Model	
5100	Electric strike for cylindrical locksets	
2	**Finish**	
US SP28/BHMA 689	Aluminum	
US 19/BHMA 622	Flat Black	
US SP313/BHMA 695	Dark brown	
3	**Rectifier Kit (optional)**	
S012	Converts 12 VAC voltage to 12 VDC to operate the solenoid	
S024	Converts 24 VAC voltage to 24 VDC to operate the solenoid	

Standard Features

- Power failure mode: Field configurable fail-secure/fail-safe
- Voltage: Field configurable 12VDC/24 VDC dual voltage solenoid
- Mounting tabs and shims
- Self-adhesive neoprene filler for retrofits

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005009, Rev. 10/24

SCHLAGE



ND Series

Grade 1 Cylindrical Locks

Mechanical | Wired Electrified | Wireless Electronic

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U.S. Customer Service

877-671-7011, Option 1
Support@allegion.com

Ordering
Allegion_Orders@allegion.com
eFax: 1-833-312-3669

Canada Customer Service

800-900-4734
Canada.CustomerService@allegion.com

Ordering
Canada.Orders.Service@allegion.com
eFax: 1-800-209-4734

Technical Product Support

877-671-7011, Option 2
Mechanical_Locks_TechProdSupport@allegion.com
Electronic_Lock_TechProdSupport@allegion.com
Readers_Credentials_Biometrics_TechProdSupport@allegion.com
Engage.Tech.Prod.Support@allegion.com

Online Support

Knowledge Center > kc.allegion.com
How To Videos > www.youtube.com/SchlageSecurity
or us.allegion.com/supportvideos
Code Support > idighardware.com

Master Key Support

Mechanical_Locks_TechProdSupport@allegion.com

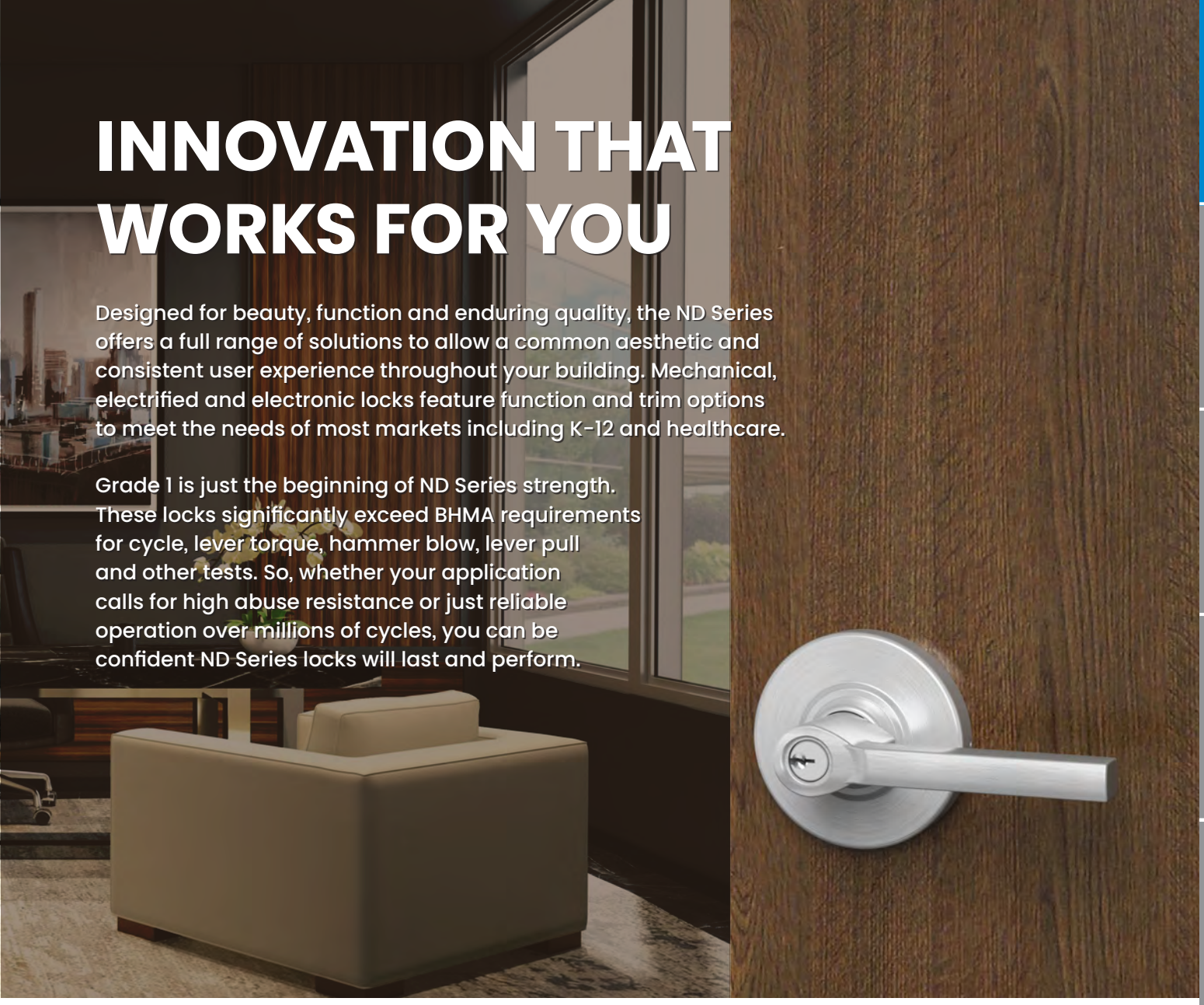
Ordering
U.S. > Customer Service
Canada > Canada.Masterkey@allegion.com
International > Intl.SCH.SS@allegion.com

Restricted Account Support

KeyControlDepartment@allegion.com
Support.restrictedproduct@allegion.com > Sign In

Overtur™ Key System Support

Support.overtur.allegion.com > Submit a ticket



INNOVATION THAT WORKS FOR YOU

Designed for beauty, function and enduring quality, the ND Series offers a full range of solutions to allow a common aesthetic and consistent user experience throughout your building. Mechanical, electrified and electronic locks feature function and trim options to meet the needs of most markets including K-12 and healthcare.

Grade 1 is just the beginning of ND Series strength. These locks significantly exceed BHMA requirements for cycle, lever torque, hammer blow, lever pull and other tests. So, whether your application calls for high abuse resistance or just reliable operation over millions of cycles, you can be confident ND Series locks will last and perform.

A Legacy of Trust

Over a century ago, Walter Schlage invented the cylindrical lock. His was a simple solution to a problem hidden in plain sight, and from it he built a company that has since grown to become one of the most recognizable names in the security industry. Delivering on quality and building on the trust of our customers, Schlage continues a legacy of providing innovative locking hardware and access control solutions to suit all types of commercial, institutional and multifamily spaces. And, everything we do is backed by friendly, knowledgeable service and support.

Beyond the Brand

Schlage is part of the Allegion family of safety and security solutions featuring other pioneering brands like LCN® and Von Duprin®. Focusing on security around the door and in adjacent areas, we strive to be a trusted advisor to our customers, providing seamless access solutions to secure buildings, people and property. We do this by collaborating with our customers and offering valued services that support their day-to-day responsibilities, including architectural and specification consulting, security and safety consulting, technical services, code compliance support, and training.



STRONG

The ND Series is designed to be the strongest cylindrical lock Schlage has ever built.

- Prevents entry and maintains egress against 3,100 in-lb abusive lever torque—the equivalent of over 690 lbs applied to the end of a 4-1/2" lever (2.6x BHMA requirements)
- Restricts entry against 1,600 lbs offset lever pull (8x BHMA requirements)
- Withstands attack against 100 vertical impacts[1] (20x BHMA requirements)
- Near zero droop and wobble after 16M cycles (16x BHMA requirements)
- Latch retraction with 200-lb preload for confident operation in warped and preloaded doors (4x BHMA requirements)

Note: Performance related to cylinder pull testing requirements is dependent on cylinder format and may not meet full Grade 1 requirements when an interchangeable core is used.

1. Vertical impact testing stopped after 100 blows with no sign of failure or stress.

SECURE

A strong lock is only part of the security equation—proper key and card access control is equally important.

- Everest 29™ cylinder with S123 keyway is provided standard which prohibits unauthorized key duplication at local retail stores and is patent protected until 2029
- Dealer and end user restricted, geographically exclusive Primus cylinder options for advanced key control
- Available compatibility with 10 different non-Schlage key systems
- The unique SL cylinder option is designed to accept the same Schlage A2 key system of SFIC cylinders, enabling one key system to span Conventional, FSIC and SFIC cylinder formats for better control
- Wired electrified and wireless electronic locks enable the use of electronic credentials for increased visibility and control over access
- Schlage smart credentials using MIFARE® DESFire® technology utilize encryption, mutual authentication and key diversification to ensure the highest levels of security



SMART

Smart means using innovation to make solutions more efficient, flexible, and easier to install and use.

- One platform, three solutions (mechanical, wired electrified, wireless electronic)—same look and feel throughout the building for a consistent user experience and lower cost of ownership
- Wired electrified lock has autodetecting 12/24V input, selectable fail safe/fail secure operation, and plug-in Request to Exit (RX) for installation and inventory flexibility
- Energy efficient design allows multiple locks on a single power supply with no “hot levers”
- Wireless electronic locks can be managed real-time by a wide variety of access control systems using the ENGAGE™ Gateway
- Wireless electronic locks provide the option to leverage existing network infrastructure to manage access and communicate updates
- Mobile enabled wireless locks are ready for the future with the ability to read Bluetooth® and NFC mobile credentials
- Shared door prep allows upgrade from ND mechanical lock to NDE wireless electronic with minor modifications

SCHLAGE®

More than just locks, Schlage delivers a complete portfolio and an infrastructure of support throughout the entire build and ownership process.

- Order entry, customer service, technical support, engineering and manufacturing are co-located in the same building in Colorado Springs, Colorado
- Comprehensive support from our sales offices includes consultations, masterkey development and training, industry and code training, specification writing, and product service
- Schlage products suite with other Allegion brands including Von Duprin® exit devices, LCN® door closers and Steelcraft® doors and frames
- A custom engineering department that can develop specialized functions, trim and finishes for unique applications
- Trusted brand for over 100 years

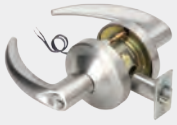
ND SERIES OFFERS A GRADE 1 SOLUTION FOR THE ENTIRE PROJECT

ND Mechanical



Suitable for all openings

ND Wired Electrified

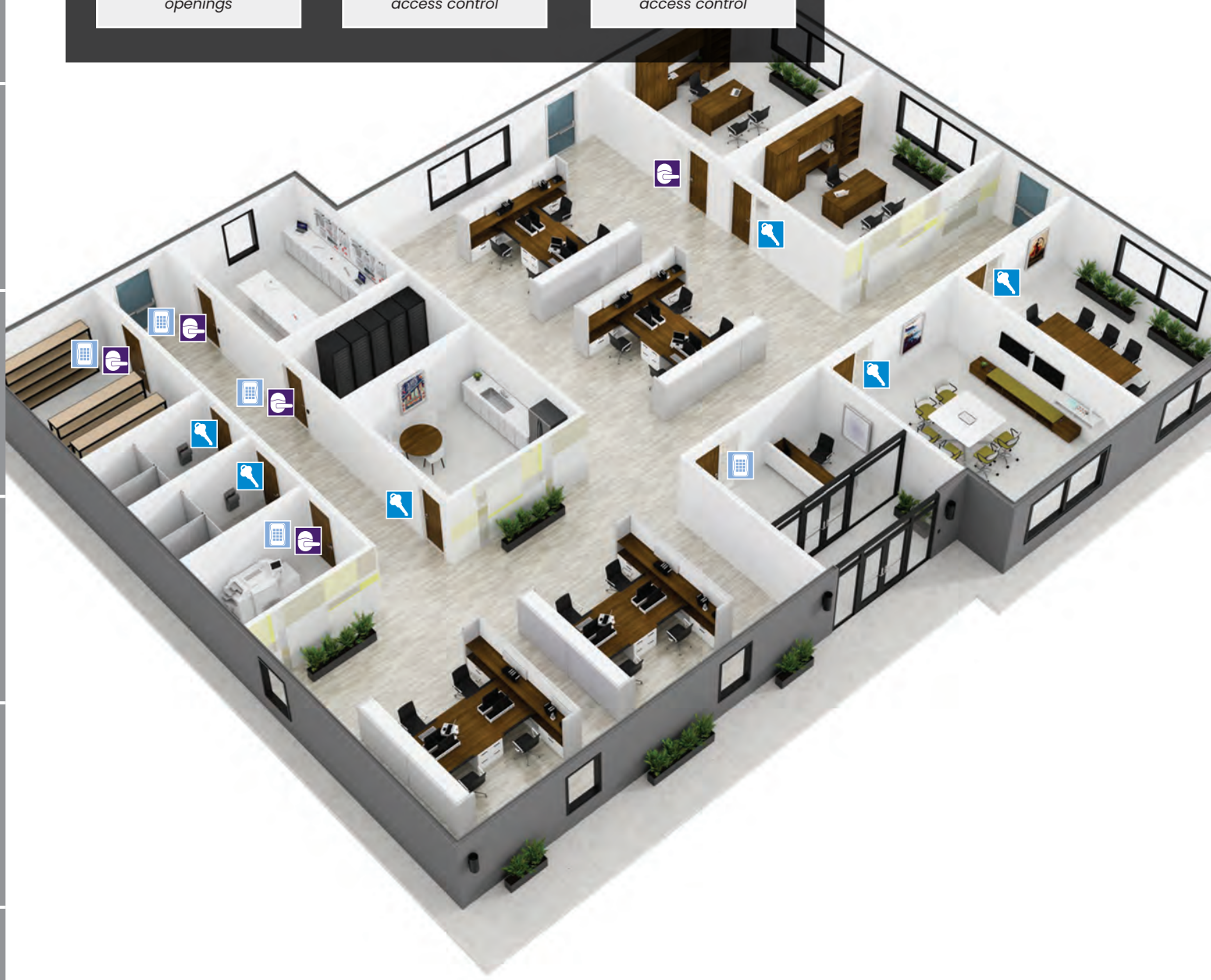


Ideal for high-traffic access control

NDE Wireless Electronic



Ideal for low-traffic access control



ND MECHANICAL



Applications

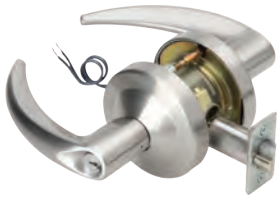
The ND Series' functional and trim offerings are the most expansive of the Schlage cylindrical lock portfolio. This extremely versatile lock is made to handle the abuses of heavy use in any commercial setting. Options include best-in-class lock status indication ideal for classroom security and ligature-resistant options for the healthcare market.

Because ND uses an ANSI door prep common across cylindrical locks, it is ideal for both new construction and retrofit upgrades.

Key Features

- Significantly exceeds ANSI/ BHMA A156.2 requirements for Grade 1 cylindrical locks
- 27 mechanical functions plus eight that feature Vandlgard® locked lever protection
- Nine lever designs, two rose designs, status indication and ligature-resistant trim options
- Nine standard finishes, plus an antimicrobial coating option
- Supports Conventional, FSIC, SL and SFIC cylinder formats plus high-security UL 437 options
- Multiple key systems available – open, patented, restricted, and geographically exclusive
- Support for 10 non-Schlage cores (see cylinder section)

ND WIRED ELECTRIFIED



Applications

Electrified locks complement mechanical ND Series where wired electronic access control solutions are desired. They can be applied as part of a network or independently with a remote access switch such as may be used for a reception area.

Electrified ND locks are ideal for high-traffic areas where line power ensures continuous operation. They are most easily incorporated into new construction where electrified door prep, conduit hinges, and wiring is planned for the building.

Key Features

All mechanical features plus:

- Combines mechanical strength with the convenience of electronic access control
- Auto-detects 12V or 24V DC
- Selectable EL/EU operation
- Three electrified functions
- Low 0.24 amp max current draw allows multiple locks on a single power supply
- Low 0.01 amp holding current eliminates "hot levers" in electrically locked applications
- Modular Request-to-Exit (RX) can be added at any time

NDE WIRELESS ELECTRONIC



Applications

NDE mobile enabled wireless locks are designed to affordably extend electronic access control deeper into the building beyond traditional perimeter and high security openings.

The NDE is ideal for both commercial new construction and retrofit. Facilities can benefit from the enhanced security, efficiency, and convenience of upgrading to electronic credentials.

Key Features

All mechanical features[1] plus:

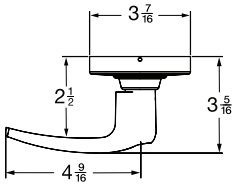
- Interior push button with indication for storeroom, office, privacy and apartment functionality
- Compatible with Bluetooth, NFC, smart, or proximity credentials
- Integrated credential reader, door position sensor, and request-to-exit (RX) switch
- Built-in Bluetooth® enables wireless configuration from smart phones/tablets
- Functions in offline or No-Tour mode or as a networked lock with either periodic check-ins or real-time management
- Up to 2 years of battery life

1. NDE wireless electronic is not available in 613 finish.

Lever Designs & Finishes

Athens (ATH)

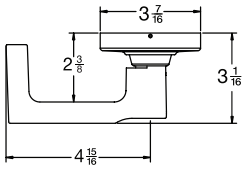




Cores *KIL, FSIC, SFIC, L-CO, L-SA, J-CO6, J-ME, J-SA, J-YA6*

Boardwalk (BRK)[1]

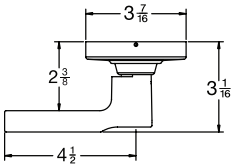




Cores *KIL, FSIC, SFIC*

Broadway (BRW)

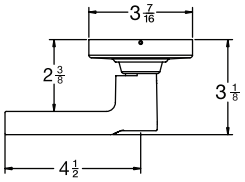




Cores *KIL, FSIC, SFIC*

Latitude (LAT)

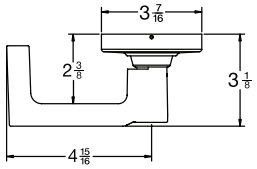




Cores *KIL, FSIC, SFIC*

Longitude (LON)[1]

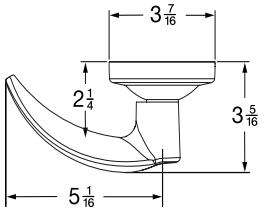




Cores *KIL, FSIC, SFIC*

Omega (OME)[1]

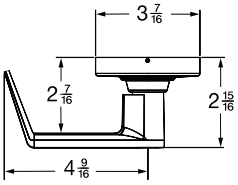




Cores *KIL, FSIC, SFIC*

Rhodes (RHO)[1]

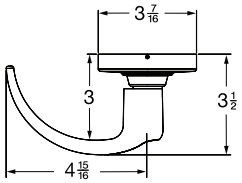




Cores *KIL, FSIC, SFIC, L-CO, L-SA, J-CO6, J-CO7, J-ME, J-SA, J-YA6, J-YA7*

Sparta (SPA)[1]

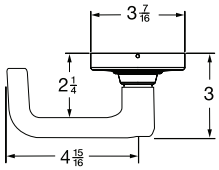




Cores *KIL, FSIC, SFIC, L-CO, L-SA, J-CO6, J-ME, J-SA, J-YA6*

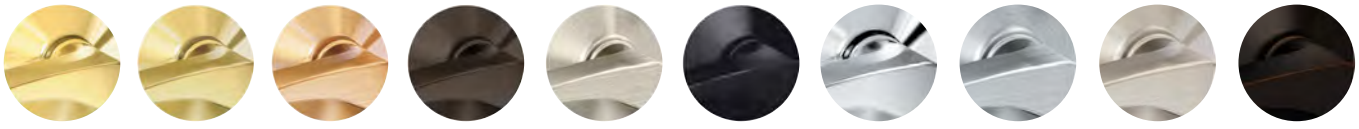
Tubular (TLR)[1]





Cores *KIL, FSIC, SFIC, L-CO, L-SA, J-CO6, J-ME, J-SA, J-YA6*

Finishes



605	606	612	613[2]	619	622	625	626/626AM	630[3]	643e
Bright Brass	Satin Brass	Satin Bronze	Oil Rubbed Bronze	Satin Nickel	Matte Black	Bright Chrome	Satin Chrome/ Antimicrobial	Satin Stainless Steel	Aged Bronze

1. Boardwalk, Longitude, Omega, Rhodes, Sparta, and Tubular levers comply with California state code for return within 1/2" of door face.
2. NDE wireless electronic locks not available in 613 and 630 finishes.
3. Available on HSLR trim only.

Lever & Finish Suiting

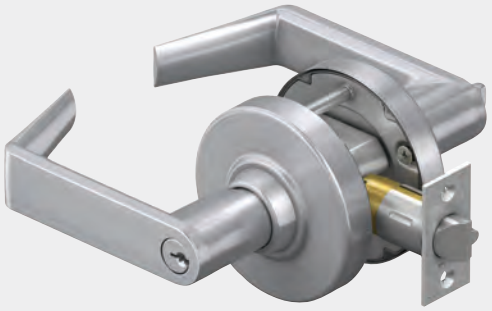
ND Series levers suite widely across mechanical and electronic solutions to provide design and finish options that can carry throughout your building, campus or business.

	Schlage Mechanical/ Electrified Locks			Schlage Locks Electronic			Von Duprin Exits	
	Cylindrical			Wireless		Wired	Exterior Trims	
Reference[1]	ND Series	ALX Series	PC Series	NDE[2]	AD Series[3] CO Series[3]	AD Series[3]	98/99[4]	33A/35A[5] 94/95[5]
Athens (07)	●	●	●	●	●	●	●	●
Boardwalk (M81)	●	●	●	●	●	●	●	●
Broadway (M52)	●	●	●	●	●	●	●	●
Latitude	●	●	●	●	●	●	●	●
Longitude	●	●	●	●	●	●	●	●
Omega / VD 16	●	●		●	●	●	●	●
Rhodes / VD 06	●	●	●	●	●	●	●	●
Sparta / VD 17	●	●	●	●	●	●	●	●
Tubular / VD 03	●	●	●	●	●	●	●	●

1. Von Duprin uses numerical references when available.
2. NDE is not available in 613 finish.
3. AD/CO Series are not available in 609, 613, 622, 629, or 630/630AM finishes.
4. 98/99 exit devices are not available in 609 or 629 finishes.
5. 94/95 exit devices are not available in 609, 619, 629, 630/630AM, or 643e finishes.

Perfect Suiting with ALX Series Grade 2 Locks

The ALX Series is nearly indiscernible from the ND Series on the outside. It's made to "perfectly suite" with ND providing a cost saving alternative on projects where Grade 2 locks can be utilized. Function options for ALX Series represent interior doors most appropriate for Grade 2 applications. Please see the reference chart on page 25 for a function availability comparison.



Schlage Locks



PC Series Cylindrical Locks / Grade 1

PC series offers a price sensitive alternative designed to meet grade one standards for use primarily within the multi-family market. These locks are offered in six finishes and eight of the most common functions.



AD & CO Series Electronic Locks / Grade 1

In addition to the NDE wireless electronic locks for entries where credential use is important, the AD and CO Series locks provide additional functional options for networked and standalone use.

Von Duprin Exit Devices



98/99 Exit Devices / Grade 1

The 98/99 Series is engineered, manufactured, and tested for superior performance. Designed for flexibility, these devices are configurable and upgradable to meet customer needs.



33A/35A Exit Devices / Grade 1

Offering the same innovative features as the 98/99 Series, the 33A/35A Series of exit devices is intended for narrow-stile doors.



94/95 Exit Devices / Grade 1

The 94/95 pushbar is recessed into the door to minimize the external profile, allowing more protection from abuse by reducing impact.

Accessibility & Life Safety

Door hardware should be as effective in helping people go about their lives as it is in securing their environments. The ND Series is designed with these requirements in mind.

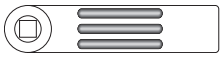
Accessibility

All Schlage ND levers[1] comply with the Americans with Disabilities Act (ADA), which requires that "Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum."

Tactile Warning for the Visually Impaired

Tactile warning is a special texture applied to the outside lever to alert the visually impaired to a potential hazard on the opposite side of the door (electrical room, a workshop or other hazardous area, etc). Tactile warning is typically applied to the outside lever only and is specified by an 8 prefix on the lever design.

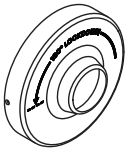
Milled



Milling pattern typically applied to the backside of an ND Series lever. Available on all lever styles except Omega.

Instruction Rose

Classroom security functions ND78 and ND98, when ordered in 626 finish, come standard with an interior instruction rose that clearly identifies key rotation to aid rapid lockdown.



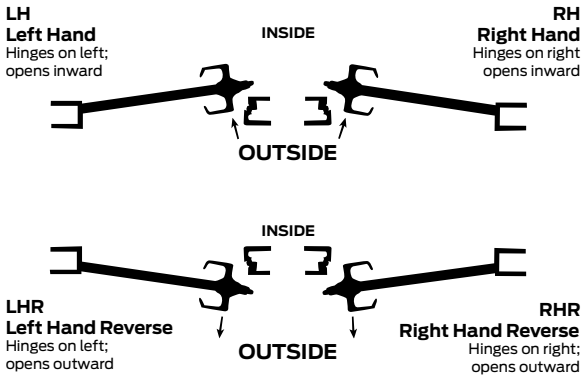
Life Safety

The Schlage ND is UL listed for use on 3-hour fire doors up to 4'0" x 10'0". Boardwalk, Longitude, Omega, Rhodes, Sparta and Tubular levers comply with the California State fire code for return to within 1/2" of the door face.

Additionally, the Schlage ND exceeds the BHMA warped door test by 4x. The BHMA standard requires that the latch be able to retract with a 50lb pre-load; the ND can retract the latch with a 200lb preload - providing more range to open the door in the event the opening becomes bound or otherwise compromised.

Door Handing

All ND Series locks except the ligature-resistant HSLR trim can be configured during installation to support any door handing. When determining handing for HSLR note that the lever will pivot toward the door frame instead of downward and specify accordingly.



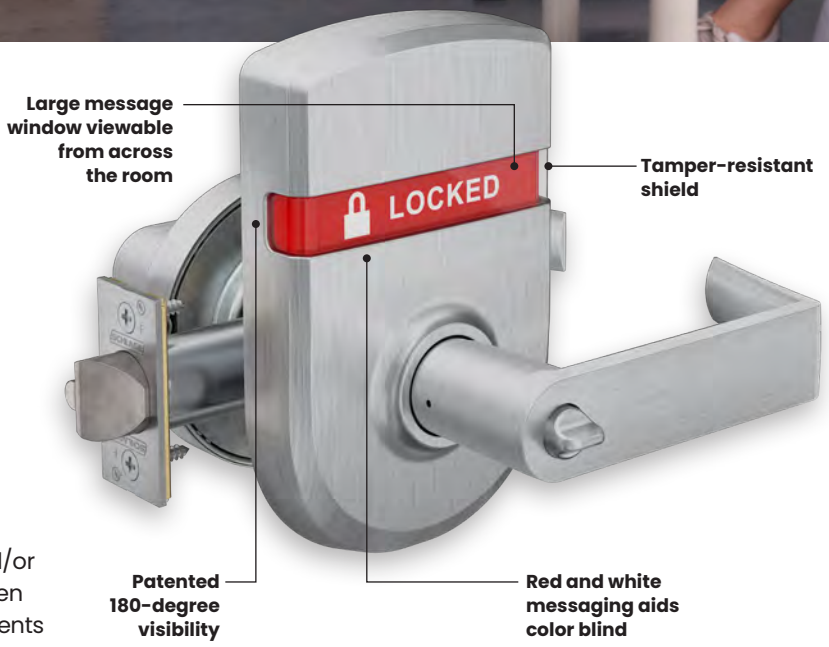
1. Functions utilizing a push/turn button in the lever to lock do not meet this standard.





Status Indication

The Schlage ND Series offers status indication unlike any other cylindrical lock. ND features an escutcheon style indicator that utilizes Schlage's patented 180-degree visibility to create the largest indication viewing window in the commercial lock market. Red and white messages available in multiple languages are designed to be highly visible and allow color blind individuals to read them easily at a distance on the basis of color alone.



Know It's Locked.™

Lock status indication is about assuring safety and/or privacy. A classroom door that is visibly locked when seen from any angle, even 30' away can help students and teachers feel confident and secure. In restaurant settings, it can reduce patron time spent away from the table. In healthcare, it can inform staff of a patient's location when out of bed and give the patient a greater sense of privacy. Whether the need is for privacy on a dressing room, mother's room, or restroom door–or more importantly, for security–to know it's locked when seconds count, status indication is a valuable feature available on eleven ND Series functions.

Common Applications

- Classrooms
- Study pods
- Rehearsal rooms
- Faculty offices
- Nurse's office
- Patient exam rooms
- Physician sleeping/ on call rooms
- Single-use restrooms
- Focus rooms in offices
- Lactation rooms
- Dressing rooms

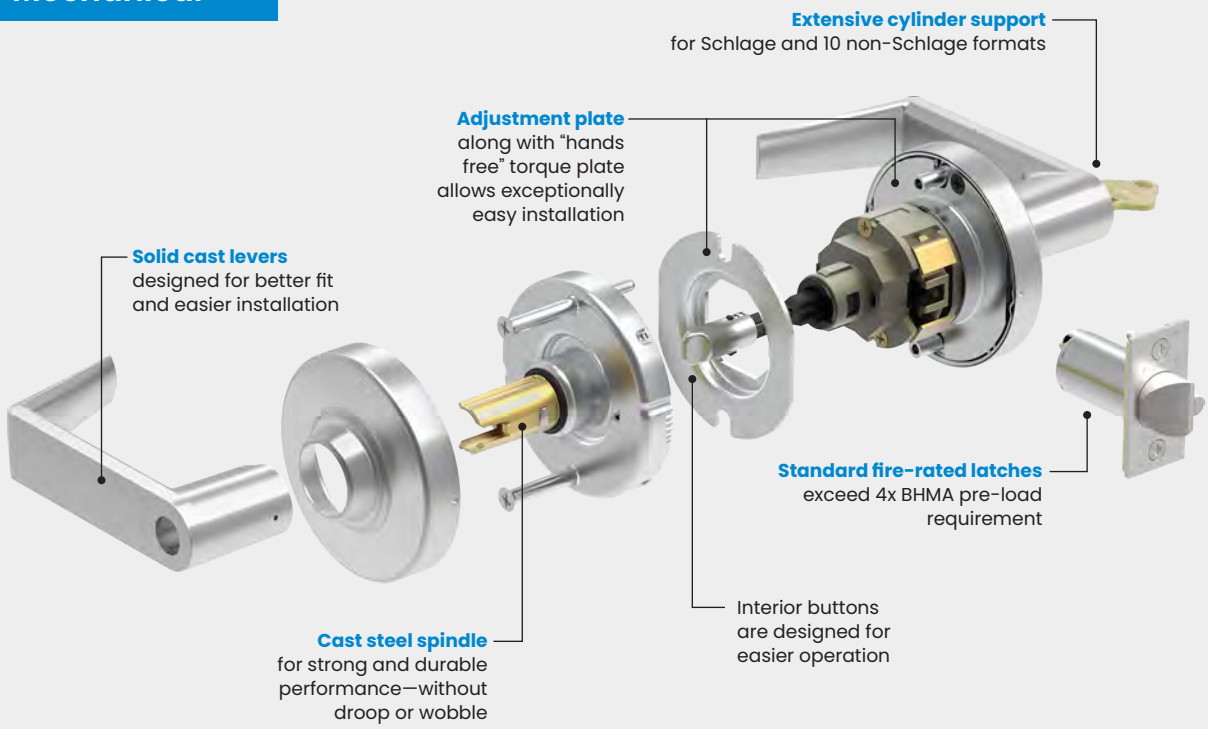
ND Series Mechanical Locks

The ND mechanical lock, along with being Schlage's best-selling cylindrical lock, is the foundation for both the wired electrified and NDE wireless electronic lock. Not only did Schlage invent the cylindrical lock, but we continue to make it better with capabilities that go beyond Grade 1. ND Series offers unparalleled strength, exceptional durability, and installation ease. All this is in addition to what you know and expect from Schlage.

It's smarter security you can trust.



ND Mechanical



Quality You Can See and Feel

Strength and durability are more than numbers, you can actually feel it in the lock — in the weight and movement of the lever and in the lasting beauty of the finish. Expect exceptional durability from ND Series.

- Tested to over 16 million cycles with near zero droop or wobble in the lever (16x the BHMA requirement)
- Latch retraction with 200 lb preload for confident operation in warped and preloaded doors (4x BHMA requirement)
- Prevents access even when subjected to torque loads up to 3,100 in-lbs (2.6x the BHMA standard)
- Withstands pry bar attacks of 1,600 lbs (8x BHMA requirement)
- Withstands 100 sledgehammer blows (20x BHMA requirement)

The Added Benefits of Layered Key System Security

A strong lock is only part of the security equation for mechanical locks–proper key security is equally important.

- Patented Everest 29™ cylinders prohibit unauthorized key duplication at local retail stores
- Dealer and end user restricted, geographically exclusive Primus cylinder options for advanced key control
- Available compatibility with 10 different non-Schlage key systems

Key Features

ND Series offers Schlage's widest array of finishes, styles and functions available in a cylindrical lock.

- 27 mechanical, cylindrical functions plus eight that feature Vandlgard® locked lever protection
- Nine standard finishes, plus an antimicrobial coating option
- Nine ADA compliant lever options
- Status indication and ligature-resistant trim options
- BAA compliant
- Locks are ANSI/BHMA Grade 1 certified
- Available with lead lining
- UL Listed 3-hour fire rated
- Perfectly suited to the ALX Series Grade 2 cylindrical locks
- Supports Conventional, FSIC, SL, and SFIC cylinder formats plus high-security UL 437 and competitive core options
- Multiple key system options include open, patented, restricted, and geographically exclusive

Complementing Mechanical Healthcare Trims

HSLR Series Ligature-Resistant Trim

High Security Ligature Resistant (HSLR) trim is especially recommended for high-risk applications. The patented crescent-style handle design has quickly become the standard for ligature resistance and accessibility and is recognized by the widely-accepted New York State Office of Mental Health (NYS-OMH) Patient Safety Standard.

- Optional trim built onto the chassis of the Grade 1 ND Series lock
- Provides the highest level of ligature-resistance to positively contribute to healing environments
- Recommended for low-, medium- or high-risk areas
- ADA compliant – "no pinch, no grasp"
- BAA compliant
- Locks are ANSI/BHMA Grade 1 certified
- UL Listed 3-hour fire rated
- Available on 27 mechanical and electrified ND functions
- HSLR trim is also available on the L Series mortise chassis



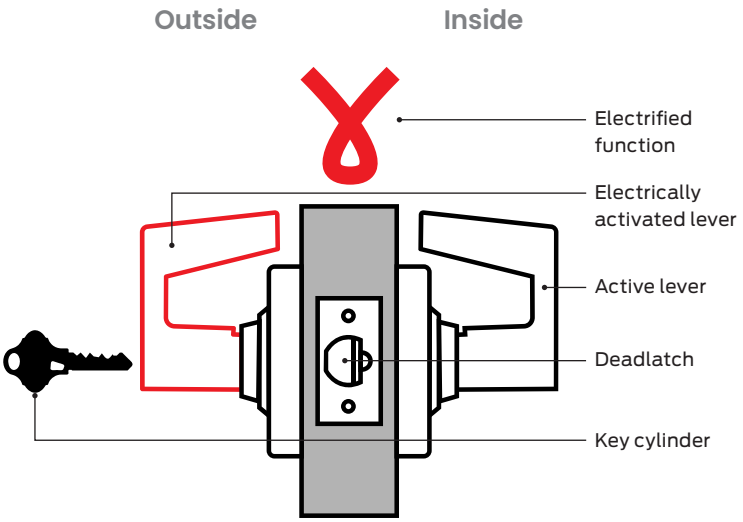
Material: *Heavy-wrought, reinforced stainless steel*

Finishes: *630 Satin Stainless Steel only*

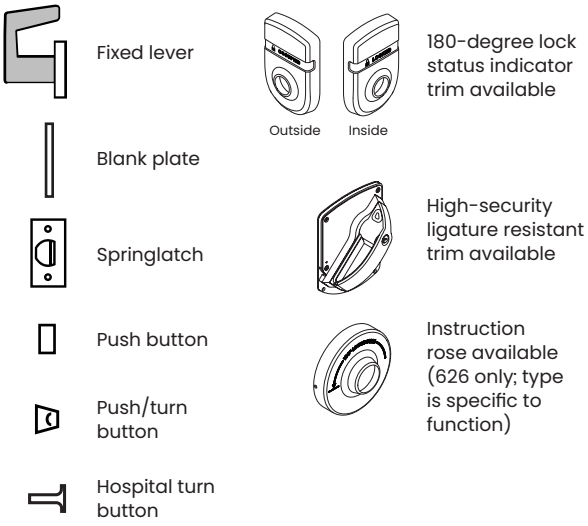
Size: *8.5" x 6" x 3"*



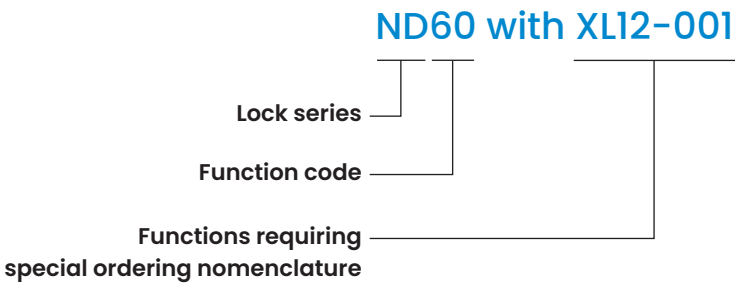
Legend

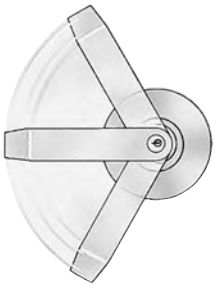


Key



Product Identification Guide





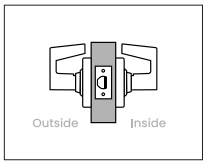
Vandlgard® Feature

All locking functions feature Vandlgard locked lever protection as a field configurable option. It allows the outside lever to rotate freely up and down when locked to limit the ability of vandals to apply excessive force to the chassis helping to prevent damage to internal components.

Non-Keyed Functions

Schlage **ANSI**
ND10 **F75**

Passage latch



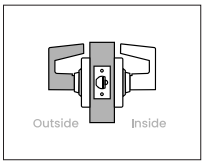


- Levers both sides; springlatch
- Latch retracted by lever from either side at all times
- Inside lever always free for immediate egress

To order configured with Request to Exit (RX), specify RX under special options.

Schlage **ANSI**
ND12 **F89**

Exit lock



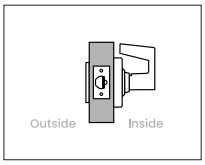


- Levers both sides; deadlatch
- Outside lever always fixed; latch retracted by inside lever
- Inside lever always free for immediate egress

To order configured with Request to Exit (RX), specify RX under special options.

Schlage **ANSI**
ND25 **-**

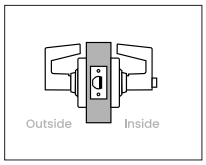
Exit lock with exterior blank plate



- Blank plate outside; lever inside; deadlatch
- Latch retracted by inside lever
- Inside lever always free for immediate egress

Schlage **ANSI**
ND30 **F77**

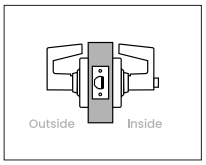
Patio lock



- Lever outside; push button in lever inside; springlatch
- In unlocked state latch is retracted by either lever
- Outside lever is made inoperative by pushing button on inside lever
- Rotating inside lever retracts latch and releases button unlocking outside lever; closing door also unlocks preventing lock-out
- Inside lever always free for immediate egress

Schlage **ANSI**
ND40 **F76**

Bath/bedroom privacy lock





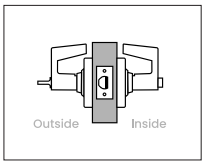
- Lever with emergency release recessed slot outside; push button in lever inside; springlatch
- In unlocked state latch is retracted by either lever
- Outside lever is made inoperative by pushing button on inside lever
- Rotating inside lever retracts latch and releases button unlocking outside lever; closing door also unlocks preventing lock-out
- Emergency unlock: an emergency key (sold separate) or small, flat screwdriver inserted in outside lever and turned releases button to unlock
- Inside lever always free for immediate egress

Note: Locks ordered with indicator trim fit 1-3/4" doors. Sold separate spacer kits allow application to doors 1-3/8" to 1-11/16".

To order an emergency key use part number 35-270.

Schlage **ANSI**
ND44 **-**

Hospital privacy lock



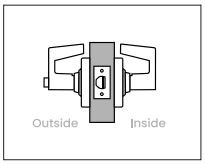


- Emergency turn in lever outside; push button in lever inside; springlatch
- In unlocked state latch is retracted by either lever
- Outside lever is made inoperative by pushing button on inside lever
- Rotating inside lever retracts latch and releases button unlocking outside lever; closing door also unlocks preventing lock-out
- Emergency unlock: rotating emergency turn in outside lever releases button to unlock
- Inside lever always free for immediate egress

Note: Locks ordered with indicator trim fit 1-3/4" doors. Sold separate spacer kits allow application to doors 1-3/8" to 1-11/16".

Non-Keyed Functions

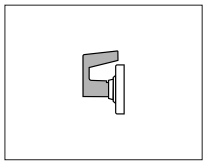
Schlage **ANSI**
ND45 **-**



Time out lock with Vandlgard®

- Spring-loaded push button in lever outside; lever inside; springlatch
- In unlocked state latch is retracted by either lever
- Caretaker side: pushing and holding button enables Vandlgard® feature; detention side lever will rotate without engaging latch
- Releasing manually held button enables inside lever to re-engage with latch and open the door

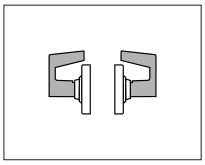
Schlage **ANSI**
ND170 **-**



Single dummy trim

- Fixed lever one side only; no latch or chassis
- Used for door pull or matching inactive trim

Schlage **ANSI**
ND172 **-**



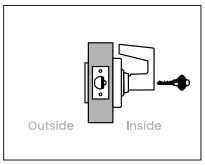
Double dummy trim

- Fixed levers-both sides; no latch or chassis
- Used for door pull or matching inactive trim

Note: Latch cover plates available. Order part number 47269199.

Keyed Functions

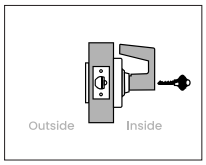
Schlage **ANSI**
ND25 x 70 **F113**



Classroom exit lock

- Blank plate outside; lever with cylinder inside; deadlatch
- In unlocked state latch is retracted by inside lever
- Outside always secure; inside lever is made inoperative by key inside
- Key inside retracts latch and unlocks inside lever

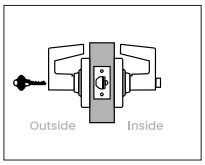
Schlage **ANSI**
ND25 x 80 **F112**



Storeroom exit lock

- Blank plate outside; lever with cylinder inside; deadlatch
- Outside always secure; inside lever is always fixed
- Key inside retracts latch but does not unlock lever

Schlage **ANSI**
ND50 **F82**



Entrance/office lock

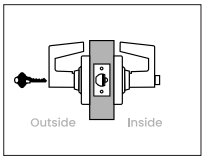


- Lever with key cylinder outside; push button in lever inside; deadlatch
- In unlocked state latch is retracted by either lever
- Outside lever is made inoperative by pushing button on inside lever; key outside does not lock
- Key outside or rotating inside lever retracts latch and releases button unlocking outside lever
- Inside lever always free for immediate egress

Note: Locks ordered with indicator trim fit 1-3/4" doors. Sold separate spacer kits allow application to doors 1-3/8" to 1-11/16". *Indicator trim can only be ordered as a single-sided option.*

Keyed Functions

Schlage **ANSI**
ND52 **–**



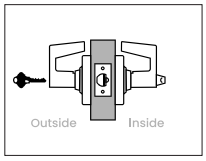
Keyed privacy lock



- Lever with key cylinder outside; push button in lever inside; deadlatch
- In unlocked state latch is retracted by either lever
- Outside lever is made inoperative by pushing button on inside lever; key outside does not lock
- Key outside or rotating inside lever retracts latch and releases button unlocking outside lever; closing door also unlocks preventing lock-out
- Inside lever always free for immediate egress

Note: Locks ordered with indicator trim fit 1-3/4" doors. Sold separate spacer kits allow application to doors 1-3/8" to 1-11/16".

Schlage **ANSI**
ND53 **F109**



Entrance lock

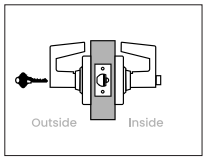


- Lever with key cylinder outside; push/turn button in lever inside; deadlatch
- In unlocked state latch is retracted by either lever
- Outside lever is made inoperative by pushing button or pushing and turning button on inside lever; key outside does not lock
- **Pushed button unlocking:** key outside or rotating inside lever retracts latch and releases button unlocking outside lever
  Pushed/turned button unlocking: key outside or rotating inside lever retracts latch but does not unlock outside lever; rotate inside button to start position to allow button release and unlocking by key or by rotating inside lever
- Inside lever always free for immediate egress

Caution: Egress without fully releasing the push/turn button can result in lock-out situations.

Note: Locks ordered with indicator trim fit 1-3/4" doors. Sold separate spacer kits allow application to doors 1-3/8" to 1-11/16". *Indicator trim can only be ordered as a single-sided option.*

Schlage **ANSI**
ND55 **–**



Entrance lock with automatic unlocking

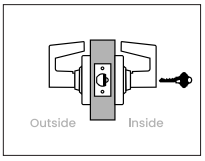


- Lever with key cylinder outside; push/turn button in lever inside; deadlatch
- In unlocked state latch is retracted by either lever
- Outside lever is made inoperative by pushing button or pushing and turning button on inside lever; key outside does not lock
- **Pushed button unlocking:** key outside or rotating inside lever retracts latch and releases button unlocking outside lever; closing door also unlocks preventing lock-out
  Pushed/turned button unlocking: key outside or rotating inside lever retracts latch but does not unlock outside lever; rotate inside button to start position to allow button release and unlocking by key or by rotating inside lever
- Inside lever always free for immediate egress

Caution: Egress without fully releasing the push/turn button can result in lock-out situations.

Note: Locks ordered with indicator trim fit 1-3/4" doors. Sold separate spacer kits allow application to doors 1-3/8" to 1-11/16".

Schlage **ANSI**
ND60 with XN12-001 **–**

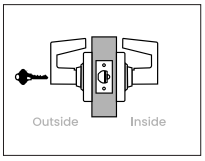


Vestibule lock with interior unlocking only

- Lever outside; lever with key cylinder inside; deadlatch
- In unlocked state latch is retracted by either lever
- Outside lever is locked or unlocked by key inside
- Inside lever always free for immediate egress

To order, specify function and note XN12-001 as a special option.

Schlage **ANSI**
ND70 **F84**

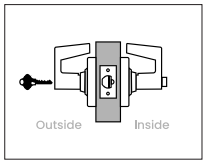


Classroom lock, exterior lockdown only



- Lever with key cylinder outside; lever inside; deadlatch
- In unlocked state latch is retracted by either lever
- Outside lever is locked or unlocked by key outside
- Inside lever always free for immediate egress

Schlage **ANSI**
ND73 **F90**



Corridor lock

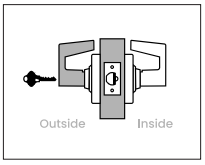


- Lever with key cylinder outside; push button in lever inside; deadlatch
- In unlocked state latch is retracted by either lever
- Outside lever is made inoperative by pushing button on inside lever or by key outside
- **When locked by pushed button:** rotating inside lever retracts latch and releases button unlocking outside lever; closing door also unlocks preventing lock-out
  When locked by key: rotating inside lever retracts latch but outside lever remains fixed until unlocked by key outside
- Inside lever always free for immediate egress

Note: Locks ordered with indicator trim fit 1-3/4" doors only. Sold separate spacer kits allow application to doors 1-3/8" to 1-11/16".

Keyed Functions

Schlage **ANSI**
ND80 **F86**



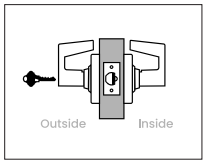
Storeroom lock



- Lever with key cylinder outside; lever inside; deadlatch
- Outside lever always fixed; latch retracted by inside lever
- Key in outside lever retracts latch only
- Inside lever always free for immediate egress

To order configured with Request to Exit (RX), specify RX under special options.

Schlage **ANSI**
ND81 **F86**



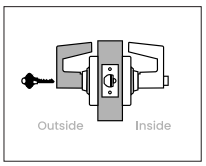
Accessible storeroom lock



- Lever with key cylinder outside; lever inside; deadlatch
- Outside lever is always fixed when key is not present; latch retracted by inside lever
- Key outside turned counter-clockwise retracts latch; 180-degree clockwise rotation of key allows outside lever to retract latch
- Inside lever always free for immediate egress

To order configured with Request to Exit (RX), specify RX under special options.

Schlage **ANSI**
ND85 **F93**



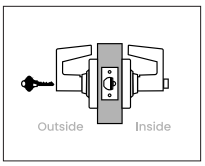
Faculty restroom lock

- Lever with conventional indicator cylinder outside; push button in lever inside; deadlatch
- Entrance by key only; outside lever always fixed; latch retracted by inside lever
- Push button on inside lever activates a locking pin that extends from the cylinder face to prohibit use of operating keys and indicate that the room is in use
- Turning inside lever or closing door releases the locking pin and push button to allow normal use of operating keys
- Emergency unlock: use of an emergency key (sold separate) is required to override the locking pin and unlock from the outside when push button is activated
- Inside lever always free for immediate egress

Note: Available with Conventional KIL indicator cylinder only. To order a spanner key to enable lockout feature use part number 35-251.

To order an emergency key use part number 35-102.

Schlage **ANSI**
ND91 **F82**



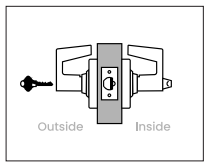
Vandlgard® entrance/office lock



- Lever with key cylinder outside; push button in lever inside; deadlatch
- In unlocked state latch is retracted by either lever
- Outside is made inoperative by pushing button on inside lever; key outside does not lock, Vandlgard® allows outside lever to rotate freely when locked
- Key outside or rotating inside lever retracts latch and releases button unlocking outside lever
- Inside lever always free for immediate egress

Note: Locks ordered with indicator trim fit 1-3/4" doors. Sold separate spacer kits allow application to doors 1-3/8" to 1-11/16".

Schlage **ANSI**
ND92 **F109**



Vandlgard® entrance lock

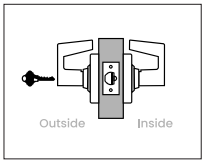


- Lever with key cylinder outside; push/turn button in lever inside; deadlatch
- In unlocked state latch is retracted by either lever
- Outside lever is made inoperative by pushing button or pushing and turning button on inside lever; key outside does not lock, Vandlgard® allows outside lever to rotate freely when locked
- **Pushed button unlocking:** key outside or rotating inside lever retracts latch and releases button unlocking outside lever **Pushed/turned button unlocking:** key outside or rotating inside lever retracts latch but does not unlock outside lever; rotate inside button to start position to allow button release and unlocking by key or by rotating inside lever
- Inside lever always free for immediate egress

Caution: Egress without fully releasing the push/turn button can result in lock-out situations.

Note: Locks ordered with indicator trim fit 1-3/4" doors. Sold separate spacer kits allow application to doors 1-3/8" to 1-11/16".

Schlage **ANSI**
ND94 **F84**



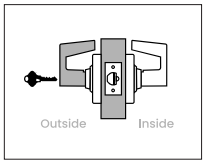
Vandlgard® classroom lock, exterior lockdown only



- Lever with key cylinder outside; lever inside; deadlatch
- In unlocked state latch is retracted by either lever
- Outside lever is locked or unlocked by key outside; Vandlgard® allows outside lever to rotate freely when locked
- Inside lever always free for immediate egress

Keyed Functions

Schlage **ANSI**
ND96 **F86**



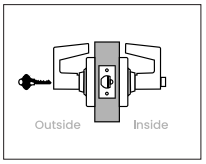
Vandlgard® storeroom lock



- Lever with key cylinder outside; lever inside; deadlatch
- Outside lever always inoperative; Vandlgard® allows outside lever to rotate freely when locked
- Key in outside lever retracts latch only
- Inside lever always free for immediate egress

To order configured with Request to Exit (RX), specify RX under special options.

Schlage **ANSI**
ND97 **F90**



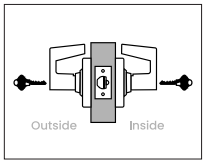
Vandlgard® corridor lock



- Lever with key cylinder outside; push button in lever inside; deadlatch
- In unlocked state latch is retracted by either lever
- Outside lever is made inoperative by pushing button on inside lever or by key outside; Vandlgard® allows outside lever to rotate freely when locked
- **When locked by pushed button:** rotating inside lever retracts latch and releases button unlocking outside lever; closing door also unlocks preventing lock-out
  When locked by key: rotating inside lever retracts latch but outside lever remains fixed until unlocked by key outside
- Inside lever always free for immediate egress

Keyed, Double Cylinder Functions

Schlage **ANSI**
ND60 **F88**



Vestibule lock

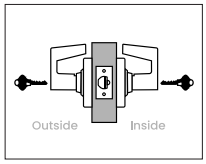


- Lever with key cylinder both sides; deadlatch
- In unlocked state latch is retracted by either lever
- Outside lever is made inoperative by key inside; key outside does not lock
- Key outside retracts latch but cannot unlock outside lever; only key inside unlocks
- Inside lever always free for immediate egress

Note: Available with optional instruction rose identifying key rotation direction for rapid lockdown. 626 finish only.

To order with instruction rose specify function and note XN12-035 as a special option.

Schlage **ANSI**
ND66 **F91**



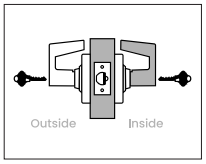
Store lock



- Lever with key cylinder both sides; deadlatch
- In unlocked state latch is retracted by either lever
- Key in either lever locks or unlocks both levers

Caution: Double cylinder locks on any door, in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

Schlage **ANSI**
ND70 x 80 **-**



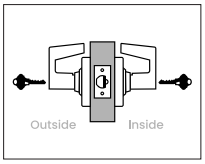
Classroom by storeroom lock

- Lever with key cylinder both sides; deadlatch
- In unlocked state inside lever is always fixed; latch retracted by outside lever
- Outside lever is locked or unlocked by key outside; key inside retracts latch but does not unlock either lever

Caution: Double cylinder locks on any door, in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only

Keyed, Double Cylinder Functions

Schlage **ANSI**
ND72 with XN12-002 **F80**



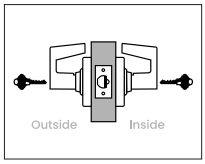
Communicating lock

- Lever with key cylinder both sides; deadlatch
- In unlocked state latch is retracted by either lever
- Key in either lever makes inoperative only that lever
- Key in either lever retracts the latch and unlocks only that lever

Caution: Double cylinder locks on any door, in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

To order, specify function and note XN12-002 as a special option.

Schlage **ANSI**
ND72 with XN12-003 **F80**



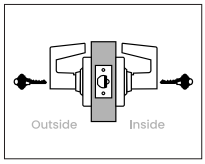
Vandlgard® communicating lock

- Lever with key cylinder both sides; deadlatch
- In unlocked state latch is retracted by either lever
- Key in either lever makes inoperative only that lever; Vandlgard® allows locked lever to rotate freely when locked
- Key in either lever retracts the latch and unlocks only that lever

Caution: Double cylinder locks on any door, in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

To order, specify function and note XN12-003 as a special option.

Schlage **ANSI**
ND78 **F110**



Classroom security lock (180-degree lockdown)

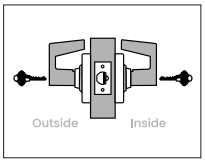


- Lever with key cylinder both sides; deadlatch
- In unlocked state latch is retracted by either lever
- Outside lever is made inoperative by rotating key in either lever 180 degrees counter-clockwise and returning to start position
- Unlock outside lever by rotating key 180 degrees clockwise in either lever and returning to start position
- Inside lever always free for immediate egress

Locks ordered in 626 finish come standard with instruction rose (47342586) identifying key rotation direction for rapid lockdown. Other finishes receive a standard rose.

Note: Locks ordered with indicator trim fit 1-3/4" doors. Sold separate spacer kits allow application to doors 1-3/8" to 1-11/16".

Schlage **ANSI**
ND82 **F87**



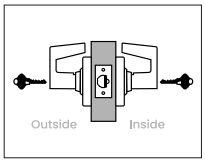
Institution lock



- Lever with key cylinder both sides; deadlatch
- Both levers are always fixed
- Key in either lever retracts latch only

Caution: Double cylinder locks on any door, in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

Schlage **ANSI**
ND93 **F88**



Vandlgard® vestibule lock

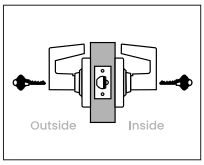


- Lever with key cylinder both sides; deadlatch
- In unlocked state latch is retracted by either lever
- Outside lever is made inoperative by key inside; key outside does not lock; Vandlgard® allows outside lever to rotate freely when locked
- Key outside retracts latch but cannot unlock outside lever; only key inside unlocks
- Inside lever always free for immediate egress

Note: Available with optional instruction rose identifying key rotation direction for rapid lockdown. 626 finish only.

To order with instruction rose specify function and note XN12-035 as a special option.

Schlage **ANSI**
ND98 **F110**



Vandlgard® classroom security lock (180-degree lockdown)



- Lever with key cylinder both sides; deadlatch
- In unlocked state latch is retracted by either lever
- Outside lever is made inoperative by rotating key in either lever 180 degrees counter-clockwise and returning to start position; Vandlgard® allows outside lever to rotate freely when locked
- Unlock outside lever by rotating key 180 degrees clockwise in either lever and returning to start position
- Inside lever always free for immediate egress

Locks ordered in 626 finish come standard with instruction rose (47342586) identifying key rotation direction for rapid lockdown. Other finishes receive a standard rose.

Note: Locks ordered with indicator trim fit 1-3/4" doors. Sold separate spacer kits allow application to doors 1-3/8" to 1-11/16".

ND Series Wired Electrified Locks

Many of the most advanced electronic access systems still rely on the strength and functionality of the mechanical lock hardware on the door. ND Series electrified locks feature Schlage's most robust cylindrical design built for performance, security and durability. It is a "beyond Grade 1" lock in terms of strength and can be used as part of an integrated system or as a standalone solution with a remote access switch or other device as the controller.





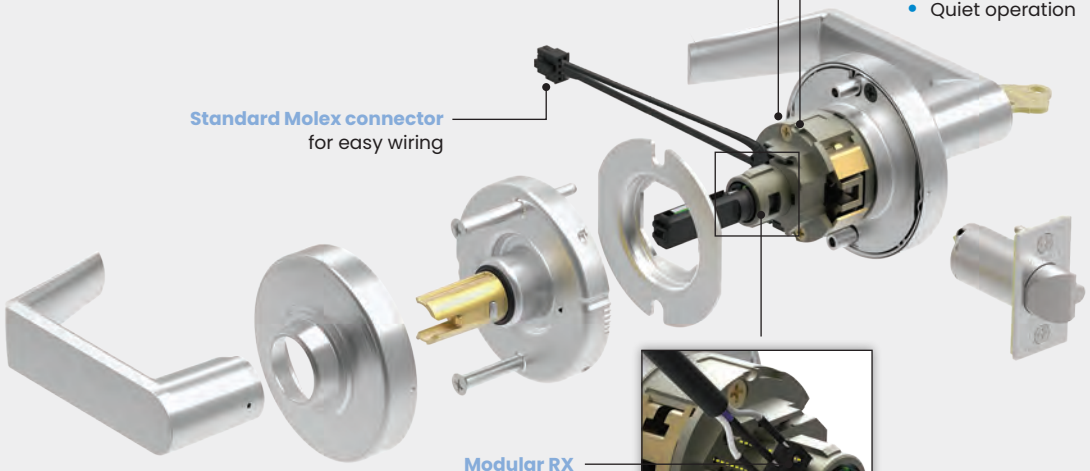
ND Wired Electrified

All mechanical features +

Efficient motor-driven design
- 0.23 amp max current draw for more locks per power supply
- 0.01 amp holding current eliminates "hot levers"
- Quiet operation

Autodetecting 12V or 24V DC input automatically adapts to input voltage for inventory and installation flexibility

Standard Molex connector for easy wiring



Modular RX Request to Exit (RX) features a plug-in design for inventory and installation flexibility

Image rotated 180˚

Switch-selectable EL/EU Change mode (electrically locked or unlocked) anytime via switch on chassis

Security You Can Trust

The ND wired electrified lock works with access control systems to provide advanced security for your building. Built on the robust ND Series lock structure, electrified ND is tested to over 4x BHMA standards just like its mechanical counterpart to ensure dependable operation. Within the ND Series strength and reliability are more than numbers, you can actually feel it in the lock — in the weight and movement of the lever and in the lasting beauty of the finish. Expect exceptional durability from ND Series.

Quiet Efficiency

Electrified ND quietly activates using a motor instead of a solenoid. It also offers unparalleled energy efficiency with a maximum current draw of 0.24 amp which allows more locks to run off a single power supply. The low 0.01 amp holding current eliminates any potential for hot levers.

Application Flexibility

- Electrified ND auto senses voltage to operate in 12V or 24V DC
- Operating mode (electrically locked or unlocked) can be changed via a switch on the chassis
- Request to Exit (RX) option can be configured or added with an upgrade kit
- The standard Allegion Connect Molex™ system simplifies installation

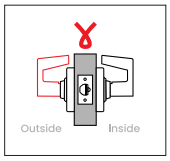
Key Features

ND Series offers Schlage's widest array of finishes, styles and functions available in a cylindrical lock.

- Six electrified, cylindrical functions
- Nine standard finishes, plus an antimicrobial coating option
- Nine ADA compliant lever options
- Auto senses 12V or 24V DC
- Ligature-resistant HSLR trim option
- BAA compliant
- Locks are ANSI/BHMA Grade 1 certified
- Available with lead lining and spacer rings for 1-3/8" doors
- UL Listed 3-hour fire rated
- Supports Conventional, FSIC, and SFIC cylinder formats plus high-security UL 437 and competitive core options
- Multiple key system options include open, patented, restricted, and geographically exclusive

Wired Electrified Functions

Schlage **ANSI**
ND12EL **-**



Exit lock, electrically locked outside lever (fail safe)

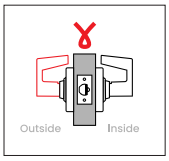


- Lever both sides; deadlatch
- Powered state: outside lever continuously locked (when in EL mode)
- When power is removed (via switch or power failure), in EL mode either lever will retract latch
- Inside lever always free for immediate egress

Note: Auto detects 12 or 24V DC. Chassis mounted switch allows field selectable EL/EU setting.

Ordering: Unless EL or EU is specified, order will default to an EU setting. Optional RX function can be ordered configured by specifying RX under special options or add later using kit part N123-062.

Schlage **ANSI**
ND12EU **-**



Exit lock, electrically unlocked outside lever (fail secure)

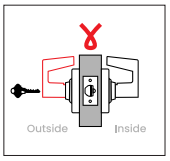


- Lever both sides; deadlatch
- Powered state: outside lever continuously unlocked (when in EU mode)
- When power is removed (via switch or power failure), in EU mode outside lever is locked
- Inside lever always free for immediate egress

Note: Auto detects 12 or 24V DC. Chassis mounted switch allows field selectable EL/EU setting.

To order configured with Request to Exit (RX), specify RX under special options.

Schlage **ANSI**
ND80EL **-**



Storeroom lock, electrically locked outside lever (fail safe)

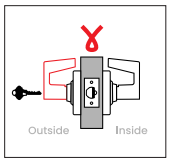


- Lever with key cylinder outside; lever inside; deadlatch
- Powered state: outside lever continuously locked (when in EL mode)
- When power is removed (via switch or power failure), in EL mode either lever will retract latch
- Key outside retracts latch but cannot change the normal locked or unlocked state of the outside lever
- Inside lever always free for immediate egress

Note: Auto detects 12 or 24V DC. Chassis mounted switch allows field selectable EL/EU setting.

Ordering: unless EL or EU is specified, order will default to an EU setting. Optional RX function can be ordered configured by specifying RX under special options or add later using kit part N123-062.

Schlage **ANSI**
ND80EU **-**



Storeroom lock, electrically unlocked outside lever (fail secure)

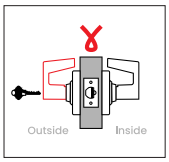


- Lever with key cylinder outside; lever inside; deadlatch
- Powered state: outside lever continuously unlocked (when in EU mode)
- When power is removed (via switch or power failure), in EU mode outside lever is locked
- Key outside retracts latch but cannot change the normal locked or unlocked state of the outside lever
- Inside lever always free for immediate egress

Note: Auto detects 12 or 24V DC. Chassis mounted switch allows field selectable EL/EU setting.

To order configured with Request to Exit (RX), specify RX under special options.

Schlage **ANSI**
ND96EL **-**



Vandlgard® storeroom lock, electrically locked outside lever (fail safe)

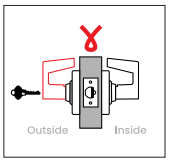


- Lever with key cylinder outside; lever inside; deadlatch
- Powered state: outside lever continuously locked (when in EL mode)
- Vandlgard® feature allows outside lever, when locked, to rotate without engaging latch
- When power is removed (via switch or power failure), in EL mode either lever will retract latch
- Key outside retracts latch but cannot change the normal locked or unlocked state of the outside lever
- Inside lever always free for immediate egress

Note: Auto detects 12 or 24V DC. Chassis mounted switch allows field selectable EL/EU setting.

Ordering: unless EL or EU is specified, order will default to an EU setting. Optional RX function can be ordered configured by specifying RX under special options or add later using kit part N123-062.

Schlage **ANSI**
ND96EU **-**



Vandlgard® storeroom lock, electrically unlocked outside lever (fail secure)



- Lever with key cylinder outside; lever inside; deadlatch
- Powered state: outside lever continuously unlocked (when in EU mode)
- When power is removed (via switch or power failure), in EU mode outside lever is locked
- Vandlgard® feature allows outside lever, when locked, to rotate without engaging latch
- Key outside retracts latch but cannot change the normal locked or unlocked state of the outside lever
- Inside lever always free for immediate egress

Note: Auto detects 12 or 24V DC. Chassis mounted switch allows field selectable EL/EU setting.

To order configured with Request to Exit (RX), specify RX under special options.

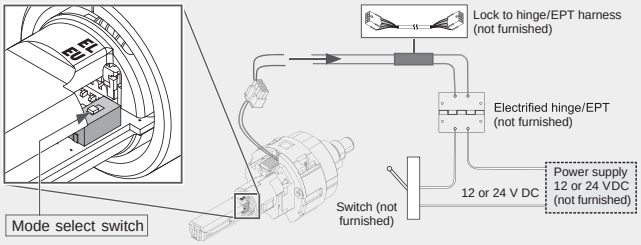
Electrical Requirements

- Input Voltage: auto-detects 12V to 24V DC
- Max current draw: 0.24 amp @ ambient (240mA)
- Holding current: 0.01 amp (10mA)
- Temperature range: 15°F – 120°F (-18°– 49°C)

Request to Exit (RX)

- Normally open, normally closed and common leads provided
- Electrical rating: 3A @ 125V AC / 2A @ 30V DC

Wiring Instructions



Quick View of ND Series Functional Offerings Across Related Products

ND Series and sister product, the ALX Series, "perfectly suite" to one another by sharing roses and levers. Function options for ALX Series represent interior doors most appropriate for Grade 2 applications.

Mechanical & Electrified

			Lock Series			ND Trim Options	
Function	**ANSI**		**ND**	**PC**	**ALX**	**Status Indication**	**Ligature Resistant HSLR**
Non-Keyed Functions							
10	F75	Passage latch	●	●	●		●
12	F89	Exit lock	●				●
25	–	Exit lock with exterior blank plate	●		●		
30	F77	Patio lock	●				
40	F76	Bath/bedroom privacy lock	●	●	●	●(outside)	●
44	–	Hospital privacy lock	●		●	●(outside)	●
45	–	Time out lock with Vandlgard®	●				
170	–	Single dummy trim	●	●	●		
172	–	Double dummy trim	●	●	●		
Keyed Functions							
25 x 70	F113	Classroom exit lock	●				
25 x 80	F112	Storeroom exit lock	●				
50	F82	Entrance/office lock	●	●	●	●(inside or outside)	●
52	–	Keyed privacy lock	●			●(outside)	
53	F109	Entrance lock	●	●	●	●(inside or outside)	●
55	–	Entrance lock with automatic unlocking	●			●(outside)	
60 with XN12-001	–	Vestibule lock with interior unlocking only	●				
70	F84	Classroom lock, exterior lockdown only	●	●	●		●
73	F90	Corridor lock	●				●
80	F86	Storeroom lock	●	●	●		●
81	F86	Accessible storeroom lock	●				●
85	F93	Faculty restroom lock	●				
91	F82	Vandlgard® entrance/office lock	●			●(inside)	●
92	F109	Vandlgard® entrance lock	●			●(inside)	●
94	F84	Vandlgard® classroom lock, exterior lockdown only	●				●
96	F86	Vandlgard® storeroom lock	●				●
97	F90	Vandlgard® corridor lock	●				●
Double cylinder functions							
60	F88	Vestibule lock	●				●
66	F91	Store lock	●				●
70 X 80	–	Classroom x storeroom lock	●				
72 with XN12-002	F80	Communicating lock	●				
72 with XN12-003	F80	Vandlgard® communicating lock	●				
78	F110	Classroom security lock (180-degree lockdown)	●			●(inside)	●
82	F87	Institution lock	●				●
93	F88	Vandlgard® vestibule lock	●				●
98	F110	Vandlgard® classroom security lock (180-degree lockdown)	●			●(inside)	●
Electrified functions							
12EL/EU	–	Exit lock, electrically locked/unlocked outside lever	●				●
80EL/EU	–	Storeroom lock, electrically locked/unlocked outside lever	●				●
96EL/EU	–	Vandlgard® storeroom lock, electrically locked/unlocked outside lever	●				●

Gray dots denote ALX functions with Vandlgard locked lever protection available as an option.

NDE Wireless Electronic Locks

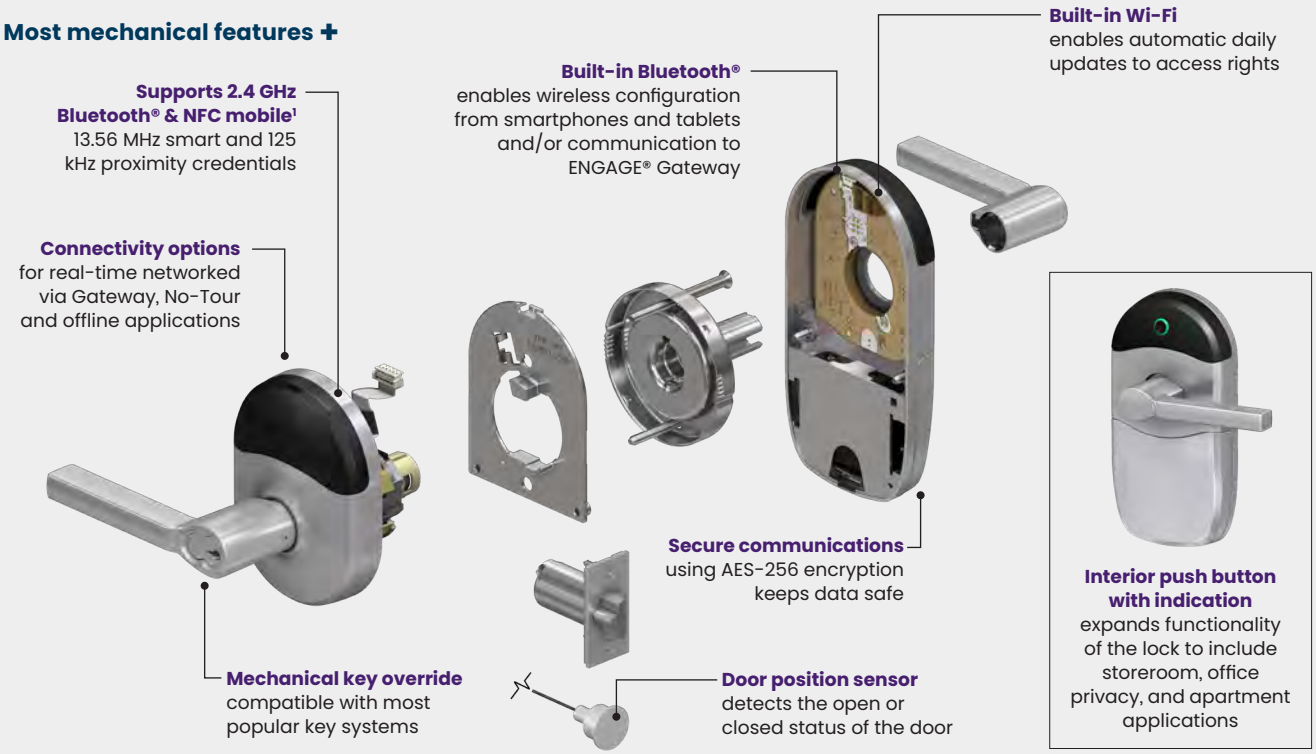
The Schlage NDE mobile enabled wireless cylindrical lock is designed to affordably extend electronic access control deeper into the building beyond traditional perimeter and high security openings. It also offers users the security and convenience of using a smart device to gain access.[1]

NDE is ideal for office and suite entries, conference rooms, common area doors, resident units and sensitive storage areas. It suites with all Schlage ND levers and keyways to provide attractive options to meet the requirements of nearly any environment.



1. Dependent on availability of compatible mobile credential.

NDE Wireless Electronic



Convenience You Can Trust

NDE wireless locks simplify installation by combining the lock, credential reader, door position sensor and request-to-exit switch all in one device, eliminating the need to install additional components or run wires to each opening.

Versatility in communications options means it can function in offline or No-Tour mode or as a networked lock with either periodic check-ins or real-time management.

Freedom of Choice

The open architecture design of NDE allows it to be managed by Allegion software or be integrated into popular physical access control systems through our PACS Alliance program. This enables customers to choose the system that best fits their requirements now and move to a different solution at any time.

Interoperability

Schlage NDE with Si option provides full support for HID® smart and NFC mobile credentials, providing interoperability and allowing customers to leverage existing HID credential investments but yet choose the right access control solution for their applications.

Key Features

- Interior push button with indication provides storeroom, office, privacy, and apartment functionality
- Standard multi-technology credential compatibility includes Schlage MIFARE®, Bluetooth® and NFC mobile[2], and proximity
  - Optional support for HID® smart and NFC mobile credentials
- Wireless configuration from connected smart devices
- Built-in Wi-Fi® enables automated daily updates sent directly from host software
- Networked real-time communication available with the ENGAGE Gateway and PACS provider solutions[3]
- Fits mechanical ND door prep with minor modifications
- Weather resistant design
- Up to 2 years of battery life

1. Dependent on PACS provider integrations and capabilities. Visit us.allegion.com/alliances for more information.
2. Use of mobile credential is dependent on availability of compatible mobile credential.
3. Integration with NDE mobile enabled wireless locks required for operation. For information on PACS providers and their capabilities, visit us.allegion.com/alliances.

Specifications

NDE Wireless Electronic	
Users	Up to 5,000[1]
Audits	Up to 2,000[1]
Credential verification time[2]	Smart and proximity: ≤ 1 second Mobile: mobile device dependent
Visual communications	LED (red, amber, green)
Audible communications	Audible indicator (field configurable)
Communication standards	• 2.4 GHz Wi-Fi® (IEEE 802.11b/g/n) • WPA2, WPA, WEP, 802.1x • Bluetooth® low energy (version 4.2) • Transport Layer Security (TLS) version 1.2 • Advanced Encryption Standard (AES), 256-bit
Gateway communication range	Up to 30' in typical building environments. A detailed site survey is recommended using the ENGAGE Test Kit (TKE). Reference ENGAGE™ Gateway Data Sheet for additional detail.
Wake-Up on Radio	Responds to command from host in less than 5 seconds when linked to ENGAGE Gateway (requires PACS provider system)
Data rate	54 Mbps
Connectivity options	• Bluetooth via mobile device (send updates at the lock) • Wi-Fi access point (automatic daily updates[8]) • No-Tour[6] • ENGAGE Gateway (real-time communication) - RS-485 to ACP or IP to host
Battery life[4]	Up to 2 years (using 4 AA batteries)
Operating temperature	Exterior: -31° to 151° F (-35° to 66° C) Exterior: -13° to 151° F (-25° to 66° C) (NDEBSi) Interior: 32° to 120° F (0° to 49° C) (battery)
Operating humidity	0 - 100% non-condensing
Mechanical	See page 38 for all mechanical specifications
Multi-Technology Reader Specifications	
Credential technologies	Proximity (125 kHz), Smart (13.56 MHz), Bluetooth (LE, 2.4 GHz), and Near Field Communication (NFC)
Standards	ISO standard 15693 and ISO 14443
Maximum read range	Proximity: up to 1.25" Smart: up to .75" Bluetooth Low Energy: up to 15' NFC: mobile device dependent
Proximity credential compatibility	Schlage®, ISONAS™, HID[5], GE/CASI ProxLite®, AWID®, and LenelProx®
Smart credential support[6]	Secure sector support: Schlage MIFARE Classic®, Schlage MIFARE Plus®, Schlage MIFARE® DESFire® CSN only support: HID iCLASS®, HID iCLASS SE®, MIFARE Classic/Plus/DESFire[7]
Mobile credential support[3]	Schlage Mobile Bluetooth® credential, integrated PACS/Proptech mobile credential with Bluetooth, Apple Wallet® NFC student ID and employee badge mobile credentials, Google Wallet™ NFC student ID and employee badge mobile credentials
Si Option for HID® credential support	Secure application area of HID iCLASS®, iCLASS SE®, Seos® and MIFARE® DESFire® EV1 smart credentials, iCLASS Standard Key and Elite Keys, HID NFC mobile credentials, all Schlage MIFARE and mobile credentials Does not support: Proximity, HID Seos Bluetooth mobile

1. Maximum capacity of lock. May vary by access control software.
2. Response time does not include latency time of host when linked with an ENGAGE Gateway or when using No-Tour.
3. Dependent on PACS /Proptech provider capabilities. Visit us.allegion.com/alliances for more information.
4. Assuming indoor application, default settings, 80 actuations, interior LED disabled and one Wi-Fi update per day.
5. Proximity bit lengths greater than 37 not supported.
6. With MT20W and smart credential (Schlage MIFARE 1K Byte or larger) or mobile credential. Consult your access control software provider for specific support.
7. Specify CE-5901-0402 for ISONAS credential parity.
8. Daily update will occur within 24 hours as scheduled by the host.

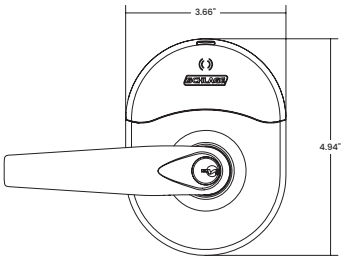
*For additional credential support information please reference the **Schlage Credential Compatibility Guide**.*

Available Status Signals

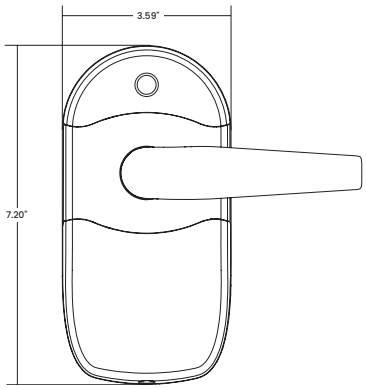
Consult your access control software provider for specific scope of support.

- Request-to-exit
- Door position
- Interior cover tamper
- Magnetic tamper
- Battery status
- Lock/unlock status
- Communication status

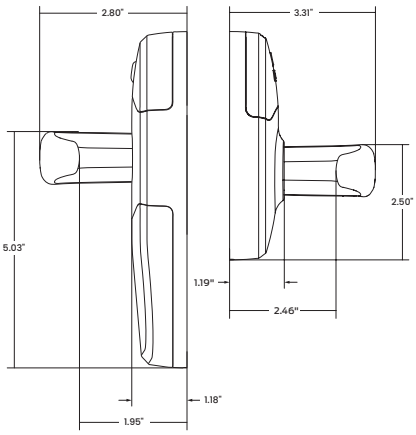
Exterior of the Lock



Interior of the Lock



Interior/Exterior - Profile



NDEB and NDEBSi

Interior push button lock design enables a range of functional selections via the ENGAGE Mobile App.

All four functions share these characteristics:

- Lockset is normally secure with outside lever disengaged
- Valid normal credential or key momentarily unlocks door (except Apartment function)
- Valid toggle credential may be used to change to a passage or secured state
- A mechanical key will retract the latch
- Inside lever always allows free egress
- Vandlgard allows outside lever to rotate freely while remaining locked

Storeroom/Classroom

- Interior push button on inside housing confirms state of the lock via LED indicator

Office

- Interior push button on inside housing can be used to select a passage or secured state and confirms state of the lock via LED indicator

Note: Meets the need for lockdown function for safety and security.

Privacy

- Interior push button on inside housing may be used to select a privacy status
- The interior push button will disable normal electronic access from the exterior and confirms state of the lock via LED indicator
- Opening the door or pressing the interior push button a second time on the inside housing deactivates the privacy status

Note: Requires a door position sensor.

Apartment

- Valid normal or toggle credential is used to change to a passage or secured state
- Interior push button on inside housing may be used to select a passage or secured state and confirms state of the lock via LED indicator
- Opening the door or pressing the interior push button a second time causes the lockset to toggle to passage
- While in passage mode, the lockset can only be secured while the door is closed by pressing the interior push button or using a normal credential on the exterior

Note: Requires a door position sensor



Ensuring Mechanical & Electronic Security Continuity

In buildings where electronic access control is used, true security can only be effective if your key system plan accounts for doors where credential use is present. Most often, credential access exists on common area doors and perimeter entrances where limited key distribution is desired. Many facilities also have high security areas where credential use is beneficial.

Credentials are like keys in that they come with varying degrees of duplication control. Any facility employing high security where both keys and credentials are in use, must ensure cohesive application of both. Because of this, the choice of credential should reflect the highest level of key system security in the building and vice versa.

Readers

Schlage's comprehensive portfolio of and wall mount readers are designed to provide enhanced levels of security, efficiency and convenience to any facility.



MTB11
Mullion

MTB15
Single gang

MTKB15
Keypad single gang



MT11
Mullion

MT15
Single gang

MTK15
Keypad single gang

MTM515
with magnetic stripe reader

MTMSK15
with magnetic stripe reader and keypad

Mobile Enabled Multi-Technology Readers:

- Compatible with Bluetooth® and NFC-open smartphones
- Supports a wide range of credential technologies including mobile Bluetooth and NFC, high-frequency smart and low-frequency proximity
- Eases transition from existing legacy system to secure smart technology or mobile solution
- Reader options available with keypad for high security applications
- OSDP, RS-485 and Wiegand support
- Reads proximity, Schlage MIFARE Classic®, Plus®, or DESFire® credentials

Multi-Technology Readers:

- Supports for both high-frequency smart and low-frequency proximity credentials
- Compatible with NFC-enabled mobile devices
- Enables migration from legacy platform to secure smart technology
- Reader options available with keypad for high security applications
- Wiegand and RS-485 support
- Reads proximity, Schlage MIFARE Classic®, Plus®, or DESFire® credentials



SM10
Mini-mullion

Smart (13.56 MHz) Technology Reader:

- Advanced contactless technology, more secure than magnetic stripe and proximity options
- Advanced data encryption secures against duplication
- Recommended for new systems
- Open platform, designed to work with a wide array of systems and applications beyond access control
- SM10 reader features a Wiegand or Clock and Data interface
- Reads proximity, Schlage MIFARE Classic®, Plus®, or DESFire® credentials



PR10
Mini-mullion

Proximity (125 kHz) Technology Reader:

- Basic open contactless technology; recommended for legacy systems only
- Encoded with a unique number that cannot be updated or changed
- PR10 is a Wiegand interface, single technology proximity reader

Credentials

With the latest in NFC and Bluetooth® mobile, as well as smart, multi-technology and proximity technologies, Schlage offers a credential solution for every budget and security strategy.



Mobile Credentials:

- Schlage offers both Bluetooth® and NFC mobile credentials which provide different user experiences
- Schlage Mobile Bluetooth® Credentials require the user to tap on a specific door in an app and are commonly used in small businesses or multifamily sites
- NFC credentials provide a frictionless experience through the Apple Wallet® or Google Wallet™ and are ideal for higher education or corporate settings
- Mobile credentials require software integration, please confirm support with your PACS or Proptech provider



Multi-Technology MIFARE® Credentials:

- Available with MIFARE Classic® and MIFARE® DESFire®
- Multi-technology options available to support transition from proximity or magnetic stripe to secure MIFARE® or MIFARE® DESFire®
- Compatible with Schlage and other industry manufacturers' readers and electronic locks
- Form factors include ISO and clamshell cards, fobs, PVC disks, and wristbands
- Available in multiple memory capacities



Proximity Credentials:

- 125 kHz proximity technology
- Available in ISO style cards with or without magnetic stripe, clamshell style cards, keyfobs or PVC adhesive disks

Schlage Credential Services provide unique advantages with programs designed to help businesses thrive and make doing business easier. Our services include CardTrax™, custom encryption keys, custom artwork and more.

Scan or click the link below to check out Credential Services

Power Supplies



Schlage power supplies are designed for speed and ease of installation upfront with the assurance post installation of the highest quality output in terms of even power flow to protect downstream devices.

Engineered with versatility and reliability in mind, they can be factory ordered to meet specific needs or configured in-field using a wide selection of option boards. The use of separate battery management ensures tight output power regulation to protect downstream devices. The series includes three models: PS902, PS904 and PS906. They vary by total amperage output capability, ranging from 2 to 6 amps.



Overtur™ Key System Management

A key system is a critical investment in the security of any facility or campus. Safeguarding its integrity requires more than the use of restricted key products and a well-designed master key plan—it takes meticulous tracking of key issuances and returns. While effective management is essential, it doesn't have to be time-consuming or complicated. Overtur™ Key System Management offers a smarter, more efficient solution for managing even the most complex systems with ease.

Getting Started Costs Nothing

Made for security professionals, the Overtur digital platform supports the design, construction, and long-term management of door security systems. Accessible via web or mobile app, it provides intuitive tools for creating, collaborating on, and maintaining key systems.

Learn more at www.OverturKey.com

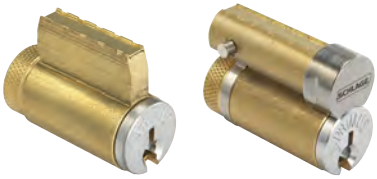
Subscription Options Simplify Key System Management

Paper-based or ad hoc tracking methods often lack the convenience of cloud access, making it easy to lose visibility—and costly should a master key go missing. Overtur Key System Management subscriptions, available through door hardware distributors, offer powerful user-friendly, digital tools for managing bitting, pinning and the tracking of keys and key rings. Features include on-demand bitting lists and pinning charts, next available change key information, customizable reports, and digital storage of key holder agreements.

Cylinders & Key Systems

A strong lock is only part of the security solution—proper key control is equally important. Schlage offers extensive options to meet the security needs of the specific project.

Cylinders





Conventional (KIL) & Full Size Interchangeable Core (FSIC) Cylinder Options[1]

- 6-pin large format keying (standard)
- 7-pin small format keying (A2 pinning) available in SL cylinders
- 6-pin available in Schlage Classic Obverse and Everest 29 S and T keyway families plus supported legacy keyways
- Primus security upgrades offer geographic exclusivity
- Primus UL 437 listed high-security cylinders are capable of withstanding extreme physical attack

1. Everest 29 S123 keyway is the default keyway on all Schlage locks unless specified otherwise.
2. Restricted keyway cores require authorization from the end user.

Small Format Interchangeable Core (SFIC) Cylinder Options[2]

- 7-pin small format keying (A2 pinning)
- Available in Schlage Everest 29 R and legacy Everest B restricted keyway families[2]

SL Format Cylinders

- Same A2 pinning style as SFIC cylinders but in Conventional and FSIC formats
- Enables an Everest 29 R or Everest B keyway facility to gain Primus XP program security

Key Systems

Everest 29 Keyway Families

- Patented through 2029
- Available restricted keyway families provide a higher level of administrative security
- Can be integrated into an existing legacy Everest key system
- Upgradeable to Primus XP and UL 437 levels of security

Classic Obverse Keyway Family

- Open keyway – keys are duplicated and available without ordering formalities
- Upgradeable to Primus RP and UL 437 levels of security

Legacy Keyway Families

- Patent expired keyway families include legacy Everest, Quad, Numbered and Reversed
- Everest and Quad are upgradeable to Primus XP and UL 437 cylinders to regain patent and key control protection for critical points of entry



Administrative Security

Primus® geographically exclusive side bit milling options

Schlage Everest 29™

Schlage Classic Obverse			
	End user exclusive nationwide	4N	9N
	End user exclusive within time zone/country	4Z	9Z
	End user exclusive within zip code	3G	9G
	End user controlled; non-exclusive	3U	9U
	Dealer exclusive within time zone/country	2	8
	Dealer exclusive within zip code	1+	7
	Authorized dealer only; non-exclusive	1	





End user controlled; non-exclusive

Authorized dealer only

No authorization



OPEN
Schlage Classic Obverse
FSIC and Conventional

- Duplicate anywhere



OPEN
Schlage Everest 29 S
FSIC and Conventional

- Patented design
- Check pin in cylinder



RESTRICTED
Schlage Everest 29 R[1]
SFIC, FSIC[2] and Conventional[2]
Schlage Everest 29 T
FSIC and Conventional

- Requires letter of authorization
- Patented design
- Check pin in cylinder

Primus RP RESTRICTED
Schlage Classic Obverse
FSIC and Conventional

- 5 levels of side bit milling exclusivity
- Patent protection to 2029
- Independent sidebar and finger pin locking mechanisms

Primus XP RESTRICTED
Schlage Everest 29 R
FSIC[2] and Conventional[2]
Schlage Everest 29 S or T
FSIC and Conventional

- 5 levels of side bit milling exclusivity
- Patent protection to 2029
- Independent sidebar and finger pin locking mechanisms

Primus UL 437 Option
Schlage Classic Obverse
Conventional
Schlage Everest 29 R
Conventional SL
Schlage Everest 29 S or T
Conventional

- Hardened steel drill pins
- Proven pick and drill resistant
- Withstands extreme physical attack

Physical Security

COMPARABLE ELECTRONIC SECURITY – Ensure your credential is a secure as your keyway

Proximity Credentials
- Low frequency, entry level proximity cards
- Easily duplicated

MIFARE Classic® Smart Credentials
- Legacy smart card technology
- Difficult to duplicate

MIFARE® DESFire® Smart Credentials
- Advanced data encryption makes duplication nearly impossible
- Most secure credentials available from Schlage

1. Limited dealer controlled programs available.
2. FSIC and Conventional in the form of SL cylinders that accept a 7-pin SFIC key.
3. UL 437 available on Primus XP SL cylinders in the conventional format only.

Primus Access Control & High Security Cylinders

The Primus program of access control and high security cylinders is available to add patented key control and varying degrees of geographical exclusivity to most Schlage 6- and 7-pin key systems, whether Everest, Everest 29, or Classic Obverse keyways. In addition to a standard pin tumbler mechanism, Primus cylinders incorporate a patented finger pin and sidebar design, providing a "dual-locking" cylinder that is virtually pick-proof. For added resistance to drilling and other physical attack, specify UL 437 listed high-security cylinders.

To upgrade an existing Schlage C open keyway system, a changeover to Classic Obverse Primus RP cylinders on critical points of entry is recommended. With it you gain patent protection against unauthorized key duplication to 2029 and Primus administrative and physical security levels. Everest 29 Primus XP cylinders are recommended for new key systems and for upgrading existing Everest legacy key systems.

Cylinder Options

When ordering a configured lock, specify cylinder type in the product ordering string as shown on page 37. The chart below shows part numbers when ordering Schlage cylinders and tailpieces separately.

Keyed Functions:

ND25 x 70
Classroom exit lock

ND25 x 80
Storeroom exit lock

ND50 (ND91 Vandlgard)
Entrance/office lock

ND52
Keyed privacy lock

ND53 (ND92 Vandlgard)
Entrance lock

ND55
Entrance lock with automatic unlocking

ND60 (ND93 Vandlgard)
Vestibule lock

ND60 with XN12-001
Vestibule lock with interior unlocking only

ND66
Store lock

ND70 (ND94 Vandlgard)
Classroom lock, exterior lockdown only

ND70 x 80
Classroom by storeroom lock

ND72 with XN12-002 (ND72 with XN12-003 Vandlgard)
Communicating lock

ND73 (ND97 Vandlgard)
Corridor lock

ND78 (ND98 Vandlgard)
Classroom security lock (180-degree lockdown)

ND80 (ND96 Vandlgard)
Storeroom lock

ND81
Accessible storeroom lock

ND82
Institution lock

ND85
Faculty restroom lock

ND80EL/EU (ND96EL/EU Vandlgard)
Storeroom lock, electrically locked/ unlocked outside lever

NDEB

NDEBSi

Conventional (KIK/KIL) Cylinders

Cylinder type	Sold separate part number	Pins	Cylinder mechanism
P, P6	23-065	5, 6	Pin and tumbler (P6 is default)
Z	91-018	7	SL cylinder (restricted Everest 29R or Everest B)
L	20-765	6	Primus
L	20-565	6	Primus UL 437 high security
L	20-765-RP	6	Primus RP Classic Obverse keyways
L	20-565-RP	6	Primus RP UL 437 high security
L	91-718-XP	7	Primus XP SL (restricted Everest 29R and Everest B keyways)
L	20-565-XP	6	Primus XP (restricted Everest 29S or T and Everest C or D keyways)
L	91-518-XP	6	Primus XP UL 437 high security
L-CO[1]	–	6	Lever is made to fit Corbin Russwin® CR2000-034 KIL cylinder
L-SA[1]	–	6	Lever is made to fit Sargent 6 and 10 line KIL cylinders

Interchangeable Cores

Cylinder type	Sold separate part number	Pins	Cylinder mechanism
R	23-030 23-031 (no logo)	6	FSIC pin and tumbler (default)
M	91-161 91-162 (no logo)	7	FSIC SL cylinder (restricted Everest 29R or Everest B)
M	91-861-XP 91-862-XP (no logo)	7	FSIC Primus SL (restricted Everest 29R and Everest B keyways)
J	20-740 20-741 (no logo)	6	FSIC Primus
J	20-740-XP 20-741-XP (no logo)	6	FSIC Primus XP
J-CO6[1]	–	6	Lever is made to fit Corbin Russwin® 8000 LFIC
J-CO7[2]	–	7	Lever is made to fit Corbin Russwin® 8000-7 LFIC
J-ME[1]	–	6	Lever is made to fit Medeco 32 Series FSIC
J-SA[1]	–	6	Lever is made to fit Sargent 6300 LFIC
J-YA6[1]	–	6	Lever is made to fit Yale 1210 or Medeco 31 FSIC
J-YA7[2]	–	7	Lever is made to fit Yale 1220 FSIC
T	23-030-ICX	6	FSIC refundable construction core – color coded
G	80-037	7	SFIC combinated (Everest 29R) (default SFIC)
H	80-035	7	SFIC refundable construction core – color coded

Specify keyway and plug face finish when ordering cylinders as parts (606, 622, 626, or 643e).

1. Available for Athens, Rhodes, Sparta and Tubular levers only.
2. Available for Rhodes levers only.

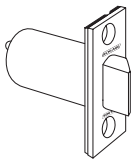
Latches & Strikes

Latches

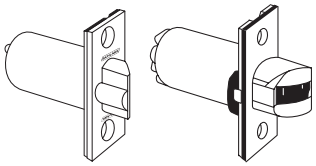
ND latches are adjustable for flat or bevel edged doors, and are finished to match the lock trim. All ND Series latches have 1/2" throw and 1" housings except the anti-friction fire door latch, which has a 3/4" throw. Please see the Schlage pricebook for more options including extended backset strikes (up to 5") and rabbited latch and strike kits.

	Part Number	Backset	Description
Springlatch	13-248	2-3/4"	Square corner, 1-1/8" x 2-1/4" (default springlatch)
	14-010	3-3/4"	Square corner, 1-1/8" x 2-1/4"
Deadlatch	14-047	2-3/8"	Square corner, 1-1/8" x 2-1/4"
	14-048	2-3/8"	Square corner, 1" x 2-1/4"
	13-247	2-3/4"	Square corner, 1-1/8" x 2-1/4" (default deadlatch)
	14-042	2-3/4"	Anti-friction fire door latch (3/4" throw)
	14-028	3-3/4"	Square corner, 1-1/8" x 2-1/4"

Springlatch



Deadlatch



3/4" throw anti-friction deadlatch for pairs of fire doors

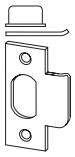
Strikes

The ND Series is available with both T-Strike and ANSI strikes in a variety of lip lengths to accommodate different door preps.

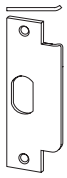
	Part Number	Available Lip Lengths[1]	Description
T-strike	10-013 xx	1-1/8" 1-1/2"	T-strike, square corner, with strike box, 1-1/8" x 2-3/4". For ND and wired ND only.
	10-016	1-1/8"	T-strike, square corner, with deep strike box, for fire door latch. 1-1/8" x 2-3/4". For ND and wired ND only.
	10-132 xx	1-1/8" 1-1/2"	T-strike, square corner, with strike box, DPS magnet, 1-1/8" x 2-3/4". For NDE only.
	10-133	1-1/8"	T-strike, square corner, with deep strike box, DPS magnet, for fire door latch. 1-1/8" x 2-3/4". For NDE only.
ANSI	10-025 xx	1-3/16" 1-3/8" 1-1/2"	ANSI, no box, 1-1/4" x 4-7/8" (1-3/16" lip is default strike). For ND and wired ND only.
	10-130 xx	1-3/16" 1-3/8" 1-1/2"	ANSI, no box, DPS magnets, 1-1/4" x 4-7/8" (1-3/16" lip is default strike). For NDE only.
	K510-066	–	Box for ANSI strike.

1. Specify lip length (xx) as LIP1-1/8 for 1-1/8", LIP1-1/2 for 1-1/2", etc.

T-strike
(10-013)
1-1/8" x 2-3/4" x 3/32"



ANSI strike - default
(10-025)
1-1/4" x 4-7/8" x 3/32"



ND Series Ordering Instructions

To order ND Series products, attribute values should be provided in the same sequence shown below. Each value should be separated by a period.

Example

Inside lever design different than outside

ND80	.	P6	.	8RO	.	626	.	RHO
2		3		4A		4C		5A

	Required for all lock orders		Outside style			Inside style						Door dimensions			Options										Keying		
Brand	Series + Function	Cylinder type (keyed functions only)	Outside lever design	Outside rose design	Outside finish	Inside lever design	Inside rose design	Inside finish	Handing (HSLR or Indication trims)	Latch	Strike	Door thickness	Extended	Strike lip length	Latch extension	Box for ANSI strike	Pack cylinders loose (PLC)	Trim options	Breakaway Rhodes lever	Special options	Screw option	Request to Exit (RX)	Buy American Act compliant	Keying code	Keyway	Pack keys independently
1	2	3	4A	4B	4C	5A	5B	5C	6	7	8	9A	9B	9C	10A	10B	10C	10D	10E	10F	10G	10H	10I	11A	11B	11C

Only required if specifying less rose.

Only required if specifying different than outside style.

Only required when deviating from the products default. Specify only the deviated attribute(s).

Only required when deviating from the product default. Specify only the deviated attribute(s).

Detail		
1	Brand	Specify SCH for Schlage (required only when specifying a product Less "LLL" any attribute).
2	Series + Function	Specify ND + function choice from list
3	Cylinder type (specify code for keyed functions only)	**Conventional cylinders** **P6** 6-pin cylinder (default) **P** 6-pin cylinder, keyed 5 **Z** Everest SL cylinder, 7-pin **L** Less Schlage cylinder **C** Less double cylinder **FSIC - Full size interchangeable core** **R** FSIC, 6-pin **T** FSIC – Construction Core **M** Everest SL - FSIC, 7-pin **J** Less Schlage FSIC **SFIC - Best® style, small format interchangeable cores** **G** SFIC 7-pin **H** Refundable Construction SFIC **BDC** Disposable Construction SFIC **B** Less SFIC Other options feature levers made to fit competitive cylinders (see page 34 for complete list).
4	Outside style	**4A:** input lever code **4B:** required only if specifying less rose **4C:** input ANSI finish code
5	Inside style	Specify only if different than outside design choices or if specifying a product Less (LLL) any attribute
6	Handing	When ordering HSLR or Indication trims, specify: **LH** Left Hand; **LHR** Left Hand Reverse; **RH** Right Hand; **RHR** Right Hand Reverse
7	Latch	Leave blank or specify part number if different from default latchbolt 13-247: 2-3/4" backset-with 1-1/8" x 2-1/4" square corner faceplate
8	Strike	Leave blank or specify part number if different from default strike 10-025: ANSI, no box, 1-1/4" x 4-7/8"
9	Door dimensions	Specify only attributes that deviate from these defaults: **9A:** 1-3/4" thickness **9B:** EE (Extended equally) **9C:** 1-3/16" lip
10	Options	Specify desired additional options: **10A:** 43-005 (5" backset extension) **10B:** K510-066 **10C:** PCL **10D:** Indicator message or instruction rose options – see price book **10E:** Breakaway Rhodes lever is dependent on type (closed, KIL, FSIC, or SFIC) - see price book **10F:** XN12-012 (standard trim chassis spacers) or XN12-307 (lead lining) **10G:** TORX **10H:** RX (functions ND10, ND12, ND80, ND81, and ND96) **10I:** BAA
11	Keying	Specify desired additional options: **11A:** Keyed Different (KD) **11B:** Specify only if different from default of Everest 29 S123 (Conventional and FSIC cylinders) or, if master keyed, Everest 29 S145 (Conventional and FSIC) and R125 (SFIC) **11C:** Specify only when requesting that keys be packed independently.

How to Order

NDE Wireless Electronic Lock Ordering Instructions

NDEB - P6 - SPA - 626 - LAT - XXX - XX-XXX - XXXXXXXX - XXX - S123

1	2	3	4	5	6	7	8	9	10
Series	Lever Cylinder	Outside: Lever Style	Outside: Finish	Inside (optional): Lever Style	Inside (optional): Finish	Backset & Latch	Strike	Dim	Additional Details

Selections correspond with the numbers above. See price book for specific configuration options.

Detail		
1	Series	Specify NDEB: Mobile enabled cylindrical lock with configurable functions Specify NDEBSi: Mobile enabled cylindrical lock with configurable functions that fully support the security application area of HID® credential types
2	Lever cylinder	Conventional P6 6-pin cylinder (default) Z Everest SL cylinder, 7 pin L Less cylinder FSIC - Full size interchangeable core R FSIC, 6-pin J Less FSIC T FSIC – Construction Core SFIC - Best® Style, Small format interchangeable core G SFIC 7-pin B Less SFIC H Refundable Construction SFIC BDC Disposable Construction SFIC Other options feature levers made to fit competitive cylinders (see page 34 for complete list).
3	Outside lever style	Input lever code: ATH (Athens), BRK (Boardwalk), BRW (Broadway), LAT (Latitude), LON (Longitude), OME (Omega), RHO (Rhodes), SPA (Sparta), TLR (Tubular), or tactile warning options
4	Outside finish	Input ANSI finish code: 605 (Bright Brass), 606 (Satin Brass), 612 (Satin Bronze), 619 (Satin Nickel), 622 (Matte Black), 625 (Bright Chrome), 626 (Satin Chrome), 626AM (626 with antimicrobial), 643e (Aged Bronze)
5	Inside lever style	Specify only if different than outside style
6	Inside finish	Specify only if different than outside finish
7	Backset & latch	Leave blank or specify part number if different from default latchbolt 13-247: 2-3/4" backset, deadlatch, square corner, 1-1/8" x 2-1/4"
8	Strike	Leave blank or specify part number if different from default strike 47267101: ANSI, no box, 1-1/4" x 4-7/8"
9	Dim (strike lip length)	Leave blank or specify part number if different from default 1-3/16" lip
10	Additional details (keying)	Specify only if different from these defaults: Keyed Different (KD); Everest 29 S123 (Conventional and FSIC cylinders) or, if master keyed, Everest 29 S145 (Conventional and FSIC) and R125 (SFIC)

Product Specifications

	ND Mechanical & ND Wired Electrified	NDE Wireless Electronic
Chassis		
Case material	Modular design of zinc and steel components plated for corrosion protection	
Door thickness	Standard: 1-5/8" (41 mm) to 2-1/8" (54 mm) Optional: 1-3/8" (35 mm) - 6" (152 mm) EE, EO, EI, ED configurations	Standard: 1-5/8" to 2" (41 mm to 51 mm)
Backset	Standard: 2-3/4" (70 mm) Optional: 2-3/8", 3-3/4", 5" (60, 92, 127 mm)	Standard: 2-3/4" (70 mm) Optional: 2-3/8" (60 mm)
Handing	Non-Handed	Right-handed from factory. Field-configurable without tools.
Trim		
Levers	Standard: Pressure cast zinc, plated to match product finish specification in nine designs - Athens (ATH), Boardwalk (BRK), Broadway (BRW), Latitude (LAT), Longitude (LON), Omega (OME), Rhodes (RHO), Sparta (SPA), and Tubular (TLR) Optional: Tactile feature available on all designs, specify 8AT, 8BK, 8BY, 8LT, 8LN, 8RO, 8SP, or 8TR	
Locked status indication trim	Cast zinc with high-density polycarbonate window	—
HSLR trim	High Security Ligature Resistant (HSLR) trim is heavy wrought, reinforced stainless steel in 630 Satin Stainless Steel finish	—
Roses/escutcheons	Wrought brass or zinc, plated to match product finish specification	Zinc, plated to match product finish specification
Finishes	Nine available: 605, 606, 612, 613, 619, 622, 625, 626, 643e (Note: NDE is not offered in 613); optional antimicrobial coating is available on 626 – order as 626AM	
Latches & Strikes		
Latch	Standard: 1/2" (12 mm) throw spring latch or deadlatch (Stainless Steel) Optional: 3/4" (19 mm) throw anti-friction deadlatch available for pairs of doors	
Strike	Standard: ANSI curved Lip: 1-1/4" x 4-7/8" (32 mm x 124 mm) with 1-3/16" (30 mm) lip length Optional: T Strike, ANSI strikes with alternative lip lengths, dust box options	
Cylinders & Key Systems		
Formats	Standard: 6-pin Conventional cylinder with two patented keys Optional: FSIC, SFIC, and 7-pin SL cylinder formats plus less cylinder options made to fit non-Schlage cylinders from Best, Corbin Russwin, Medeco, Sargent and Yale	
Keyways	Standard: 6-pin, patented Everest 29 S123 keyway Optional: Open, restricted, Primus®, master keying, and construction keying	
Wired Electrified		
Input voltage	Autodetecting 12-24V DC, +/- 10%	—
Operating mode	Fail Safe or Fail Secure via switch on chassis	—
Current draw	0.23 amp maximum; 0.01 amp holding	—
Request to exit	Modular - 3A @ 125V AC / 2A @ 30V DC	—
Wireless Electronic		
Input voltage	—	4 AA batteries
Operating mode	—	Selectable - secured, as-is, or passage
Communication	—	2.4 GHz Wi-Fi® (IEEE 802.11b/g/n) Bluetooth® low energy (version 4.2)
Request to exit	—	Integrated into chassis
Door position sensor	—	External sensor installed in door and frame
Tamper sensor	—	Integrated interior cover tamper
Warranty		
	10 years mechanical, 3 years wired electrified	1 year wireless electronic
Certifications		
ANSI/BHMA	All ND Series comply with A156.2-2011, Series 4000 Grade 1 cylindrical locks; Wired electrified complies with A156.25 (indoor); Wireless electronic complies with A156.25-2013 (locked outdoor) for electrified locking devices	
ICC	Complies with ICC A117.1 Accessible and Usable Buildings and Facilities	
UL/cUL	UL 10C and CAN/ULC-S104	UL 294; ULC 60839; UL 10C 3-hour
	All locks 3-hour A label single fire door 4'0" x 10'0"; pair doors 3-hour fire door 8'0" x 8'0" with 3/4" latch option; pair doors 90-minute fire 8'0" x 10'0" with 3/4" latch option	
CA Fire Code	All levers with a return to door of 1/2" (13 mm) or less comply (Rhodes, Sparta, Tubular, Omega, Longitude and Boardwalk)	
FL Building Code	Complies with Florida Building Code (ASTM E330, E1886, E1996) and Miami Dade (TAS 201, 202, 203) requirements for hurricanes	FL1592, FL10356, FL12400, FL14482
Federal	Meets FF-H-106C Series 161; BAA compliant, all functions	—
Other	—	ADA compliant, FCC Part 15, CSA C22.2 No. 205-M1983, Industry Canada (IC)

About Allegion

At Allegion (NYSE: ALLE), we design and manufacture innovative security and access solutions that help keep people safe where they live, learn, work and connect. We're pioneering safety with our strong legacy of brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Our comprehensive portfolio of hardware, software and electronic solutions is sold around the world and spans residential and commercial locks, door closer and exit devices, steel doors and frames, access control and workforce productivity systems.

For more, visit **www.allegion.com**

KRYPTONITE ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN

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006501, Rev. 12/25

ALLEGION™

SCHLAGE



L Series

Grade 1 Mortise Locks

Mechanical | Wired Electrified | Wireless Electronic | Multi-Point

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877-671-7011, Option 1
Support@allegion.com

Ordering
Allegion_Orders@allegion.com
eFax: 1-833-312-3669

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800-900-4734
Canada.CustomerService@allegion.com

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Canada.Orders.Service@allegion.com
eFax: 1-800-209-4734

Technical Product Support

877-671-7011, Option 2
Mechanical_Locks_TechProdSupport@allegion.com
Electronic_Lock_TechProdSupport@allegion.com
Readers_Credentials_Biometrics_TechProdSupport@allegion.com
Engage.Tech.Prod.Support@allegion.com

Online Support

Knowledge Center > kc.allegion.com
How To Videos > www.youtube.com/SchlageSecurity
or us.allegion.com/supportvideos
Code Support > idighardware.com

Master Key Support

Mechanical_Locks_TechProdSupport@allegion.com

Ordering
U.S. > Customer Service
Canada > Canada.Masterkey@allegion.com
International > Intl.SCH.SS@allegion.com

Restricted Account Support

KeyControlDepartment@allegion.com
Support.restrictedproduct@allegion.com > Sign In

Overtur™ Key System Support

Support.overtur.allegion.com > Submit a ticket



INNOVATION THAT WORKS FOR YOU

Designed for beauty, security, and flexibility, L Series features the most innovative and comprehensive list of mortise functional, design, and trim options Schlage has to offer. Able to withstand the rigors of daily use without fail even in the abusive environments of K-12, Higher Education, and Healthcare. These locks will stand the test of time and can serve the needs of all opening types: from mechanical and multi-point latching to electrified and electronic locks served by some of the most secure key and credential systems in the industry. You can use L Series as part of a common aesthetic. They are made to suite with other Allegion products to present a quality, complete door hardware solution and provide a consistent user experience throughout your building or campus. L Series does all this while lowering the total cost of ownership through maintenance ease, key system flexibility and beautiful finishes that are made to last.

A Legacy of Trust

Over a century ago, Walter Schlage invented the cylindrical lock. His was a simple solution to a problem hidden in plain sight, and from it he built a company that has since grown to become one of the most recognizable names in the security industry. Delivering on quality and building on the trust of our customers, Schlage continues a legacy of providing innovative locking hardware and access control solutions to suit all types of commercial, institutional and multifamily spaces. And, everything we do is backed by friendly, knowledgeable service and support.

Beyond the Brand

Schlage is part of the Allegion family of safety and security solutions featuring other pioneering brands like LCN® and Von Duprin®. Focusing on security around the door and in adjacent areas, we strive to be a trusted advisor to our customers, providing seamless access solutions to secure buildings, people and property. We do this by collaborating with our customers and offering valued services that support their day-to-day responsibilities, including architectural and specification consulting, security and safety consulting, technical services, code compliance support, and training.



STRONG

The Schlage L Series has long been the benchmark for heavy-duty mortise locks.

- Exceeds Security Grade 1 and Operational Grade 1 ratings
- Every Schlage lock undergoes intensive testing to determine its ANSI grade level:
  - Cycle tests
  - Resistance tests
  - Door impact tests
  - Warped door tests
  - Bolt strength tests
- Levers constructed of solid brass or solid stainless steel for a strong-yet-comfortable feel
- Whether the application calls for high abuse resistance or just operation over millions of cycles without degradation in performance, users can have confidence that L Series locks will last

SECURE

A strong lock is only part of the security equation—proper key and card access control are equally important.

- Everest 29™ cylinder with S123 keyway is provided standard which prohibits unauthorized key duplication at local retail stores; patent protected until 2029
- Dealer and end user restricted geographically exclusive Primus cylinder options for advanced key control
- The unique SL cylinder option is designed to accept the same Schlage A2 key system of SFIC cylinders, enabling one key system to span Conventional, FSIC and SFIC cylinder formats for better control
- Wired electrified and wireless electronic locks enable the use of electronic credentials for increased visibility and control over access
- Schlage smart credentials using MIFARE® DESFire® technology utilize encryption, mutual authentication and key diversification to ensure the highest levels of security



SMART

Smart means using innovation to make solutions more efficient, flexible, and easier to install and use.

- One platform, three solutions (mechanical, wired electrified, wireless electronic)—same look and feel throughout the building for a common user experience and lower cost of ownership
- Wired electrified lock has autodetecting 12/24V[1] input and selectable fail safe/fail secure operation
- Optional RX switch[2] monitors the inside lever to balance security with lever actuation sensitivity
- Energy efficient design allows multiple locks on a single power supply with no "hot levers"
- Wireless electronic locks can be managed with a third party access control system, or software solutions from Allegion
- Wireless electronic locks allow for offline, periodic or real-time control based on application needs
- Mobile enabled wireless locks are ready for the future with the ability to read Bluetooth and NFC mobile credentials

1. Motorized latch retraction functions use 24V DC input only.
2. See function details for availability.

SCHLAGE

More than just locks, Schlage delivers a complete portfolio and an infrastructure of support throughout the entire build and ownership process.

- Order entry, customer service, technical support, engineering and manufacturing are co-located in the same building in Colorado Springs, Colorado
- Comprehensive support from our sales offices includes consultations, masterkey development and training, industry and code training, specification writing, and product service
- Schlage products suite with other Allegion brands including Von Duprin® exit devices, LCN® door closers and Steelcraft® doors and frames
- A custom engineering department that can develop specialized functions, trim and finishes for unique applications
- Trusted brand for over 100 years

L MECHANICAL



Applications

Schlage mechanical mortise locks offer the most diverse functional and trim options of the Schlage brand. Built on a universal lock case design, several functions in the L mechanical group can be changed and adapted to the building needs over time.

As a commercial mortise lock L Series is inherently more robust and secure than other types of locks against break-in. It's ideal in any institutional, government or educational setting.

Key Features

- Exceeds ANSI/BHMA Grade 1 operational and security standards
- Single- and dual-sided visual indication options available for most functions
- Over 50 standard mechanical functions with custom functions also offered
- Available Vandlgard® and ligature-resistant features
- "The Original" universal lock case allows creation of eight common functions from a single lock body
- 12 finishes and 33 levers, two knobs, five roses and two escutcheon designs
- Supports Conventional, FSIC, SL and SFIC cylinder formats in standard and Primus® designs
- Multiple key systems available: open, patented, restricted, and geographically exclusive

L WIRED ELECTRIFIED



Applications

The wired electrified L Series is ideal for new construction and high traffic areas where hardwired power ensures continuous operation and where electrified door prep, hinges and wiring can easily be incorporated into the building.

The electrified L Series is regularly used as part of an access control system for high security areas, or independently in areas that require a remote access control for entry or accessibility purposes.

Key Features

All mechanical features[1] plus:

- Auto-detects 12/24 VDC[2]
- Selectable EL/EU
- 15 electrified functions include lever locking/unlocking and latch retraction options
- Available Vandlgard® and ligature-resistant features
- Optional monitoring features: request-to-exit, door position switch and latchbolt monitoring
- Deadbolt monitoring standard on all L949X functions
- Motor-driven activation eliminates "hot levers" and ensures smooth, quiet, and dependable operation
- Patent-pending feature on latch retraction functions detects binding conditions on the motor and adjusts as needed to overcome side load, static pressure and warped door conditions

LE WIRELESS ELECTRONIC



Applications

The Schlage LE mobile enabled wireless mortise lock is designed to affordably extend electronic access control deeper into the building beyond traditional perimeter and high security openings.

The LE is ideal for commercial real estate, K-12, higher education, assisted living, medical offices, or multi-family applications. Facilities can benefit from the enhanced security, efficiency, and convenience of upgrading to electronic credentials.

Key Features

All mechanical features[1] plus:

- Six functions with LED indicator, deadbolt, and interior push button options
- Compatible with Bluetooth, NFC, smart and proximity credentials from Schlage and other brands
- Sectional and escutcheon trim options
- 31 levers, 2 knobs and 9 finishes
- Integrated door position sensor (DPS) and request to exit (RX)
- Wireless configuration from smart phones/tablets
- Built-in Wi-Fi® enables automatic daily updates sent directly from host software
- Capable of networked real-time communication with the ENGAGE Gateway and software alliances
- Up to 2 years of battery life

1. Electrified and electronic locks are offered in fewer functions overall and do not utilize mechanical indicator trims.
2. Latch retraction functions utilize 24V DC power only.

L400 MECHANICAL



Applications

L400 Series locks are designed for use as primary locks where no latching is required, such as restrooms and doors to utility spaces.

These mortise deadbolt locks also offer optimum security when used as an auxiliary lock in other applications.

Key Features

- Six available functions
- 12 finishes
- 1" (25 mm) stainless steel throw deadbolt
- Deeper retainer groove in cylinder shell increases security against wrenching and pullout
- 6-pin Everest® 29 cylinder with patented keys standard
- Steel case and parts are corrosion resistant
- Supports Conventional, FSIC, SL and SFIC cylinder formats plus high-security UL 437 options
- Multiple key systems available: open, patented, restricted, and geographically exclusive

LM9200 MULTI-POINT



Applications

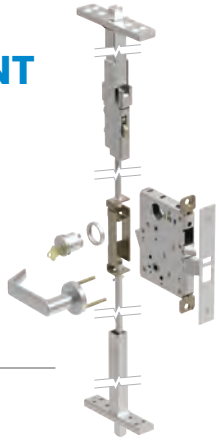
The Schlage LM9200 Series lock utilizes latches in the top and bottom of the door, rather than the side, allowing both leaves of a pair of doors to be active.

Compatible with wood or hollow metal doors, the LM9200 Series is ideal for conference rooms, corridors, office suites, elevator lobbies, and openings where flush bolts and coordinators are not desired.

Key Features

- Concealed vertical cables provide easier installation and reliable performance
- Compatible with sectional and escutcheon trim; does not require "backer plates" or metal wraps for fire protection
- Fire-rated for up to 60 minutes for wood door applications; 90-minute fire rating for hollow metal door applications
- 33 lever designs
- 13 functions (mechanical and electrified)
- Available without the bottom latch for single point latching

LM9300 MULTI-POINT



Applications

The LM9300 Series provides a three-point locking system designed for tornado, hurricane or high security applications, providing superior protection with familiar operation.

Latches at the top, side and bottom of the door protect against high wind speeds and 15-lb. projectile impacts up to 100 mph when paired with a Steelcraft Paladin tornado-resistant door.

Key Features

- All three latches engage when the door is shut and retract simply by rotating the lever
- Compatible with sectional and escutcheon trim
- 33 lever designs
- Six available functions
- Complies to ICC 500-2020, FEMA P-320 (2021), and FEMA P-361 (2021) for tornado shelters when paired with appropriate Steelcraft doors (LM9310 and LM9370 are not approved for use with our ICC 500-2020 solutions)
- Vertical rods ship pre-aligned and pre-installed with Steelcraft doors, enabling quick and simple installation
- Solution requires door and rod set sold through Steelcraft

L SERIES OFFERS A GRADE 1 SOLUTION FOR THE ENTIRE PROJECT

L Mechanical



Suitable for all openings

L Wired Electrified

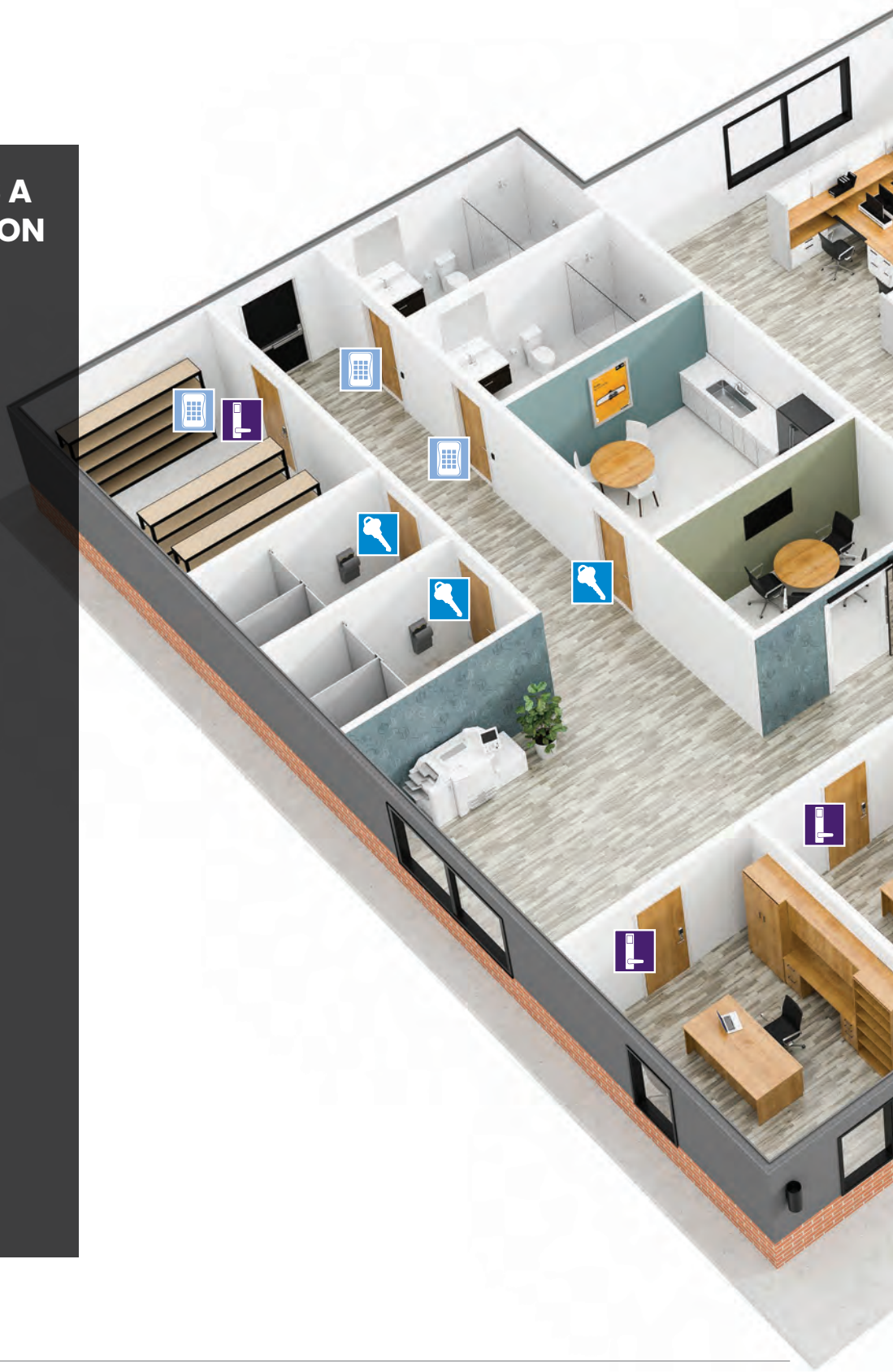


Ideal for high-traffic access control

LE Wireless Electronic



Ideal for access control

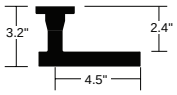




The M Collection

The M Collection is an entire lineup of decorative levers designed to maintain a custom high-style look on doors throughout any building—from the main entrance to the supply closet. The ability to suite M Collection levers across multiple platforms from Schlage and Von Duprin means consistent style and functionality—along with unrivaled security.

M51





851 - Knurled tactile warning[1]

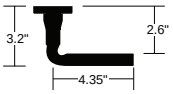
M52 (Broadway)





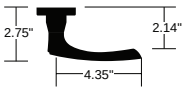
852 - Knurled tactile warning[1]

M53



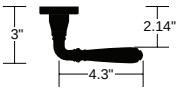


M54





M55



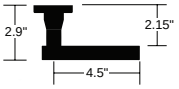


M56





M57[2]





M61





Handed

M62[2, 3]





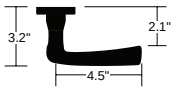
Handed

Images shown with Schlage L mortise 'A' rose; additional rose and escutcheon designs available.

1. Knurled tactile warning available on 609, 612, 613, 625, 626, 629, and 630 finishes only.
2. Not available on LE wireless electronic locks.
3. Available in 629, 630 and 630AM only.

The M Collection

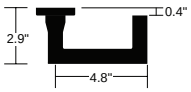
M63





Handed

M81 (Boardwalk)





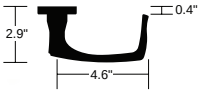
881 - Knurled tactile warning[1]

M82





M83



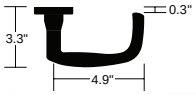


M84





M85





Handed

ME1

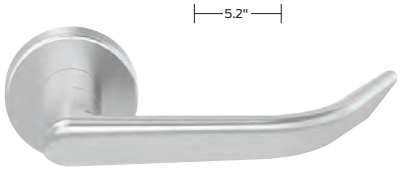




8ME1 - Milled tactile warning
Handed

ME2





8ME2 - Milled tactile warning
Handed

ME3





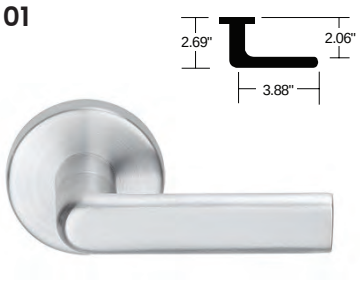
8ME3 - Milled tactile warning

Images shown with Schlage L mortise 'A' rose; additional rose and escutcheon designs available.
ME1, ME2 and ME3 ergonomic levers designed with Gensler as product design consultant.

The Standard Collection

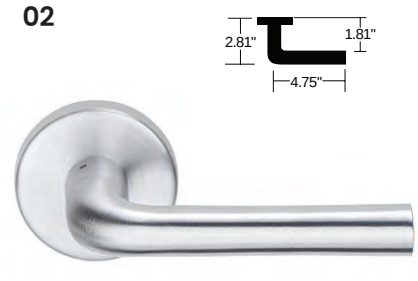
The Standard Collection levers can be paired with exit devices and locks from our trusted Schlage and Von Duprin brands. And, they are built to the same exacting standards. Our Standard Collection levers offer a more traditional style that is appropriate for use in a number of commercial applications.

01



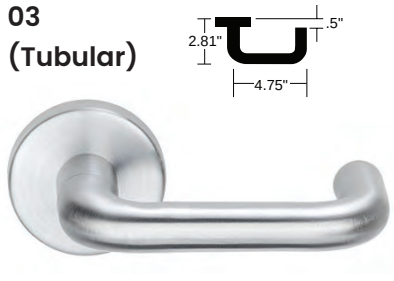
801 - Milled tactile warning

02



802 - Knurled tactile warning[1]

03 (Tubular)



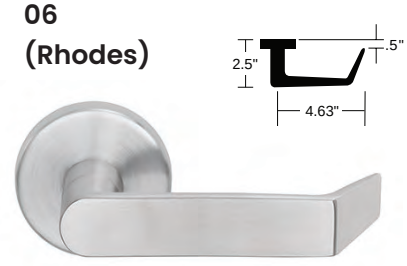
803 - Knurled tactile warning[1]

05



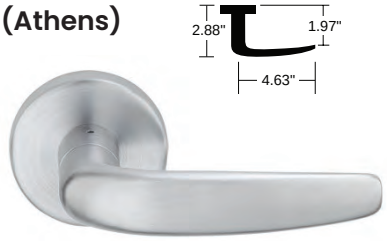
805 - Milled tactile warning

06 (Rhodes)



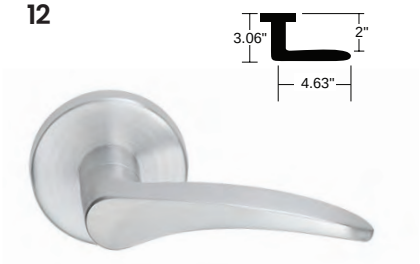
806 - Milled tactile warning

07 (Athens)



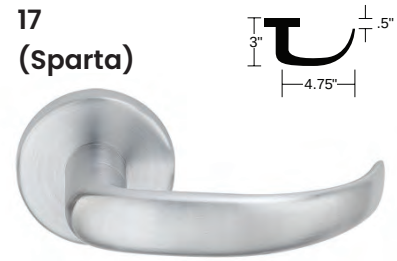
807 - Milled tactile warning

12



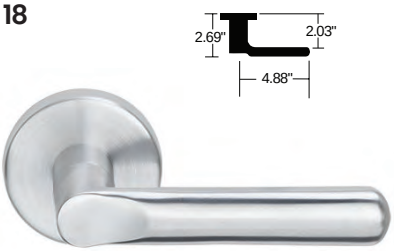
812 - Milled tactile warning
Handed

17 (Sparta)



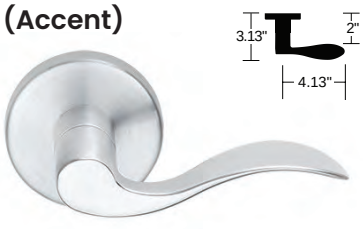
817 - Milled tactile warning

18



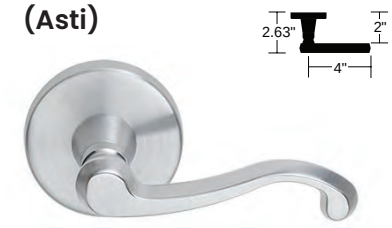
818 - Milled tactile warning

ACC (Accent)



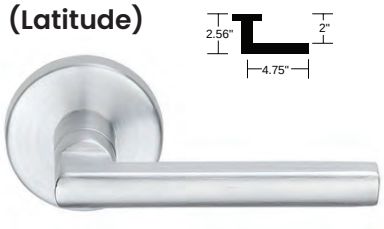
Handed

AST (Asti)



Handed

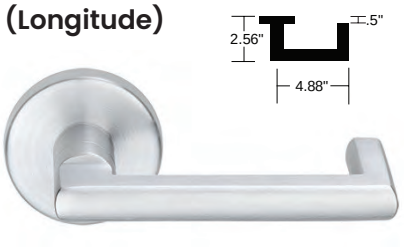
LAT (Latitude)



1. Knurled tactile warning available on 609, 612, 613, 625, 626, 629, and 630 finishes only.

The Standard Collection

LON (Longitude)

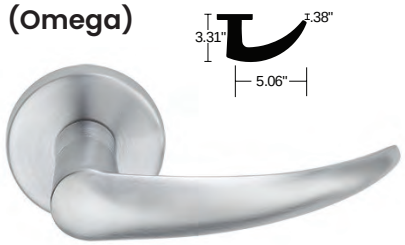


MER (Merano)

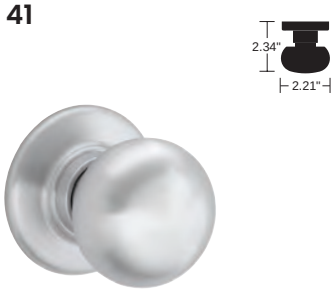


Handed

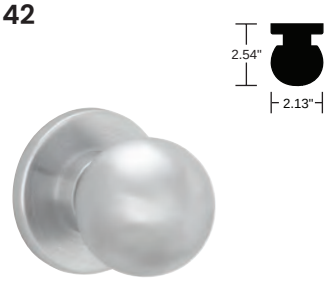
OME (Omega)



41



42



Levers shown with Schlage L Series mortise 'A' rose. Additional rose and escutcheon designs available. Knobs shown with rose that is unavailable in the L Series. See available A, B, and C rose options on page 14.

Finishes



605 Bright Brass

606 Satin Brass

609 Antique Brass

612[1] Satin Bronze

613[1] Oil Rubbed Bronze

619 Satin Nickel

622 Matte Black



625 Bright Chrome

626 Satin Chrome

626AM Satin Chrome Antimicrobial

629[2] Bright Stainless Steel

630[2] Satin Stainless Steel

630AM[2] Satin Stainless Steel Antimicrobial

643e Aged Bronze

1. Available on standard levers only, not available on Latitude, Longitude, Accent, Asti, or Merano.
2. Not available on Accent, Asti, or Merano.

Lever & Finish Suiting

L Series levers suite widely across mechanical and electronic solutions to provide design and finish options that can carry throughout your building, campus or business.

	Mechanical Locks			Electrified Locks	Electronic Locks		Exit Devices	
Series	**L Series**		**PT Series**	**L Series**	**LE Wireless**	**XE360™ Series Wireless**	**98/99 Series**	**33A/35A Series**
Type	**Mortise**	**Mortise Multi-Latch**	**Tubular**	**Mortise**	**Mortise**	**Mortise, Tubular, & Exit**	**Von Duprin Exit Exterior Trims**	
Standard Collection Levers								
01, 05, 12, 18	●	●		●	●[4]		●[7]	●[10]
02, 03 (Tubular), 06 (Rhodes), 07 (Athens)	●	●	●[5]	●	●[4]		●[7]	●[9]
17 (Sparta/Neptune)	●	●	●[5]	●	●[4]	●[6]	●[7]	●[9]
Accent, Asti (optional AVA rose), Merano (optional Merano rose)	●[1,2]	●[1,2]		●[1,2]	●[9]		●[7]	●[9]
Latitude, Longitude	●[1]	●[1]	●[5]	●[1]	●[9]	●[6]	●[7]	●[9]
Omega/ Von Duprin 16	●	●		●	●[4]		●[7]	●[9]
M Collection Levers								
M51, M53, M54, M55, M56, M61, M63, M82, M83, M84, M85, ME1, ME2, ME3	●[1]	●[1]		●[1]	●[9]		●[7]	●[9]
M52/Broadway	●[1]	●[1]	●[5]	●[1]	●[9]	●[6]	●[7]	●[9]
M81/Boardwalk	●[1]	●[1]		●[1]	●[9]		●[7]	●[9]
M57	●[3]	●[3]		●[3]			●[8]	●[8]
M62	●[8]	●[8]		●[8]			●[8]	●[8]
Trim								
A rose	●	●	●[5]	●	●[4]			
B rose	●	●		●	●[4]			
C rose	●[1]	●[1]	●[5]	●[1]	●[4]			
N escutcheon	●	●	●[5]	●				
L escutcheon	●	●		●				
Addison escutcheon					●[4]			
996L escutcheons (98/99 Series)							●[7]	
360L escutcheons (33A/35A Series)								●
940L escutcheons (94/95 Series)								●

Finish availability details: notations on exceptions and limitations

1. All finishes except 612 or 613
2. All finishes except 629 or 630/630AM
3. Available in 629, 630, and 630AM only
4. All finishes except 609, 613, 629 or 630/630AM
5. Available in 613, 619, 622, 625, 626, and 643e finishes only
6. Available in 619, 622, 625, 626, and 716 only
7. All finishes except 609, 629, or 643e
8. Available in 629 and 630 finishes only
9. All finishes except 609, 612, 613, 629, 630/630AM
10. All finishes except 609, 629, 630/630AM, or 643e

Schlage Locks



PT Series Tubular Locks / Grade 2

As a tubular lock, PT Series complements the L Series providing a grade 2 alternative for non-mortise interior doors where security is less of a concern. They are also ideal for multi-family settings providing an expanded lever offering on interior doors.



XE360™ Electronic Locks / Grade 1

Available in tubular, mortise, mortise deadbolt and exit trim, XE360™ devices are a perfect complement to the L series, providing a unified aesthetic in addition to intelligent features like wireless lock and unlock. Great for openings that need to utilize access control data.

Von Duprin Exit Devices



98/99 Exit Devices / Grade 1

The 98/99 Series is engineered, manufactured, and tested for superior performance. Designed for flexibility, these devices are configurable and upgradable to meet customer needs.



33A/35A Exit Devices / Grade 1

Offering the same innovative features as the 98/99 Series, the 33A/35A Series of exit devices is intended for narrow-stile doors.

Escutcheons



L full face
Specify by adding 'L' after lever design.

Material: Cold-forged brass or stainless steel

Finishes: Available in all L Series finishes.

Size: 7-15/16" x 1-3/4" x 7/16" (202 mm x 44 mm x 11 mm)



N full face
Specify by adding 'N' after lever design.

Material: Heavy-wrought, reinforced brass or stainless steel

Finishes: Available in all L Series finishes.

Size: 7-7/8" x 2-1/2" x 7/16" (200 mm x 64 mm x 11 mm)



L concealed
Specify by adding 'C' suffix to function and by adding 'L' after lever design.

Material: Cold-forged brass or stainless steel

Finishes: Available in all L Series finishes.

Size: 7-15/16" x 1-3/4" x 7/16" (202 mm x 44 mm x 11 mm)

Roses



A rose
Available for use on L Series knob and lever designs. Specify by adding 'A' after lever design.

Material: Cold-forged brass or stainless steel

Finishes: Available in all L Series finishes.

Size: 2-1/8" (54 mm) diameter

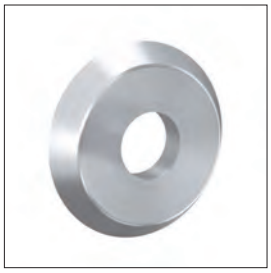


B rose
Available for use on L Series knob and lever designs. Specify by adding 'B' after lever design.

Material: Cold-forged brass or stainless steel

Finishes: Available in all L Series finishes.

Size: 2-9/16" (65 mm) diameter



C rose
Available for use on L Series knob and lever designs. Specify by adding 'C' after lever design.

Material: Cold-forged brass or stainless steel

Finishes: 605, 606, 609, 619, 622, 625, 626, 629, 630, 643e.

Size: 2-5/8" (66 mm) diameter



AVA rose
Available for use with Asti (AST) lever only. Specify as ASTAVA.

Material: Cold-forged brass or stainless steel

Finishes: 605, 606, 609, 619, 622, 625, 626, 643e.

Size: 2-5/8" (66 mm) diameter



MER rose
Available for use with Merano (MER) lever only. Specify as MERMER.

Material: Cold-forged brass or stainless steel

Finishes: 605, 606, 609, 619, 622, 625, 626, 643e.

Size: 2-5/8" (66 mm) diameter

Thumbturns | Turns



ADA thumbturn (standard)
09-544



Large ADA thumbturn
09-509 x L583-363

Optional thumbturn trim for all deadbolt functions except L9463 and L463.



Basic thumbturn
09-509



Cylinder thumbturn
09-90x

Optional thumbturn trim for all deadbolt functions except L9463 and L463.



Coin turn
L283-124

For lock functions L9044 and L9444 with rose trim.

Know It's Locked.™

Patented, 180-Degree, High-Visibility Lock Status Indicator Trims

Lock status indication is about assuring safety and/or privacy. A classroom door that is visibly locked when seen from any angle, even 30' away can help students and teachers feel confident and secure. In restaurant settings, it can reduce patron time spent away from the table. In health care, it can inform staff of a patient's location when out of bed and give the patient a greater sense of privacy. Whether the need is for privacy on dressing rooms, mother's lactation rooms, or restroom doors or, more importantly, for security—to know it's locked when seconds count, status indication is a valuable feature available on most L Series mortise functions.



MADE TO BE SEEN

Clear messaging that can be seen across the room and from any position in sight of the door means teachers can focus on calming and protecting students in an emergency. Schlage has designed indication trim allowing high visibility at a greater distance than other locks.

- Large main viewing windows are 2" x 0.6"
- Maximized message size
- Patented, 180-degree window for visibility from any angle
- High contrast, red and white color is easy-to-read for even the color blind
- Available in 34 functions (31 mechanical and three multi-latch)
- Most functions available as inside, outside, and dual (inside and outside) indication
- Available retrofit kits

Inside Trims



Thumbturn



Key cylinder

Outside Trims



Emergency key



Coin turn



Key cylinder

Available messages

	LOCKED	OCCUPIED	DO NOT DISTURB	
	UNLOCKED	VACANT		
Inside trim	IS-LOC	IS-OCC	IS-DND	IS-SYM
Outside trim	OS-LOC	OS-OCC	OS-DND	OS-SYM
Inside trim	IS-LOCFR	IS-OCCFR	–	–
Outside trim	OS-LOCFR	OS-OCCFR	–	–

Note: Spanish language options available via Special Product Process.



Chevron Indicator

Functions L9486, L9496, and L496 (sectional trim only) use the 09-611 chevron style indicator. Available in these messages: "OCCUPIED", "DO NOT DISTURB" or "LOCKED".



Application Versatility

With many available functions, in all the finishes and lever designs common to L Series locks, you can utilize indication for security, for privacy, and for convenience in many situations.

K-12

- Classroom and study room doors
- Adjoining room doors
- Lab room doors
- Administrative offices
- Faculty and nurse's office restroom doors
- Individual restroom and shower room doors
- Larger rooms like auditoriums, gyms, and lunchrooms using exit devices can include lock status indication with Von Duprin 98/99 Series exit devices

Higher Education

- Applications similar to K-12
- Study pods
- Rehearsal rooms
- Faculty offices

Commercial Real Estate

- Public restrooms
- Mother's lactation rooms
- Rooms requiring temporary closures due to cleaning or stocking

Healthcare

- Patient bathrooms
- Public restrooms
- Physician sleeping/on call rooms
- Radiology or other therapy rooms
- Dressing rooms

Retail

- Restaurant single use restrooms
- Dressing rooms

Complementing Healthcare Trims

HL6 Quiet Push/Pull Mortise Trim

The HL6 push/pull latches are ideal for healthcare applications, restrooms, commercial and institutional doors. The short throw angle allows door opening with an easy push or pull action.

- Vertical or horizontal mounting positions
- 14 mortise functions plus two electrified
- 8 finishes, including antimicrobial options
- Quiet operation designed for healing environments
- Optional engraving on handles
- Available with lead lining
- ASA strike available
- Also available in tubular latching only or privacy models
- Use on 1-3/4" doors only



Material: *Heavy-wrought, reinforced brass or stainless steel*

Finishes: *605, 606, 612, 613, 625, 626, 626AM, 629, 630, and 630AM*

Size: *2.44" x 5.38" x 2"*

HSLR Series Ligature-Resistant Trim

The High Security Ligature Resistant (HSLR) trim is especially recommended for high-risk patient applications. The patented crescent-style handle design has quickly become the standard for ligature resistance and accessibility and is recognized by the widely-accepted New York State Office of Mental Health (NYS-OMH) Patient Safety Standard.

- Provides the highest level of ligature-resistance to positively contribute to healing environments
- "Paperclip Protection" designation as determined by NYS-OMH testing
- Recommended for low-, medium- or high-risk areas
- 17 mortise functions plus five electrified (not available with Vandlgard feature)
- ADA compliant - "no pinch, no grasp"
- BAA compliant
- Locks are ANSI/BHMA Grade 1 certified
- UL Listed 3-hour
- Also available in cylindrical trim for the ND Series lock functions



Material: *Heavy-wrought, reinforced brass or stainless steel*

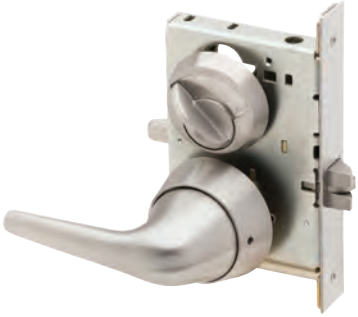
Finishes: *630 and 630AM*

Size: *13.17" x 6" x 2.27"*

Ligature-Resistant Solutions

Specifically designed with multiple safety facets including recessed trim, sloped surfaces and concealed fastening hardware to reduce the risk of injury or death due to ligature strangulation in hospitals, behavioral health facilities and detention centers

- Available with lever, knob, thumbturn and cylinder rings
- 22 mortise functions plus nine electrified (not available with Vandlgard feature)
- Available as a complete new lock assembly or as a conversion to an existing lock (available for SK1 and SL1 trim only)



SL1 lever



SK1 knob

Material: *Heavy-wrought, reinforced brass or stainless steel*

Finishes: *630 and 630AM*

Size: ***SL1*** *– 3.24" x 6.12" x 3.13"*
SK1 *– 3.19" x 2.3"*
Thumbturn *– 2.7" x 1.1"*



Accessibility & Life Safety

Door hardware should be as effective in helping people go about their lives as it is in securing their environments. Schlage L Series is designed with these requirements in mind.

Life Safety

The Schlage L is UL listed for use on 3-hour fire doors (except L9076 and L9077 functions). All levers with returns comply with the California State fire code for return to within 1/2" of the door face.

Barricade-Resistant Solutions

Key Override is an optional feature available on six mechanical and two electrified functions that allows a key (or emergency key) used on the outside to retract the deadbolt and/or latchbolt, overriding the inside thumbturn when it is being held in the locked position.

- Barricade-resistant
- Privacy and Lockdown functions
- Code-compliant

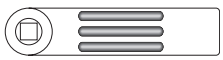
Lead Lined Solutions

Lead lined locks are intended for use in X-ray or other rooms with radiation concerns. Add option XL11-515 (L9000) or XL12-216 (L400) on order. Lead lined solutions must be ordered with a complete lock or lock case.

Tactile Warning for the Visually Impaired

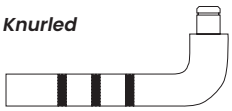
Tactile warning is a special knurled or milled surface used to alert the visually impaired to a potential hazard on the opposite side of the door (exit to street, a workshop or other hazardous area, etc.). Tactile warning is typically applied to the outside lever only and is specified by an 8 prefix on the lever design.

Milled



Milling pattern example available on backside of 01, 05, 06, 07, 12, 17, 18, ME1, ME2, and ME3 levers.

Knurled



Knurling pattern example available on 02, 03, M51, M52, and M81 levers.

Accessibility

All Schlage L levers comply with the Americans with Disabilities Act (ADA), which requires that “Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.” Hands free options for accessibility ease can be achieved using Motorized Latch Retraction lock functions coordinated with an auto operator and a wall-mounted activator.

L Series Mechanical Locks

The Schlage L Series mechanical lock is an industry-leading mortise solution. Designed for flexibility, the L Series mechanical lock is one of only two series in the Schlage lineup offered in ligature-resistant trims for healthcare settings. Other trims and options include the HL hospital latch and widely supported use of visual lock status indication.

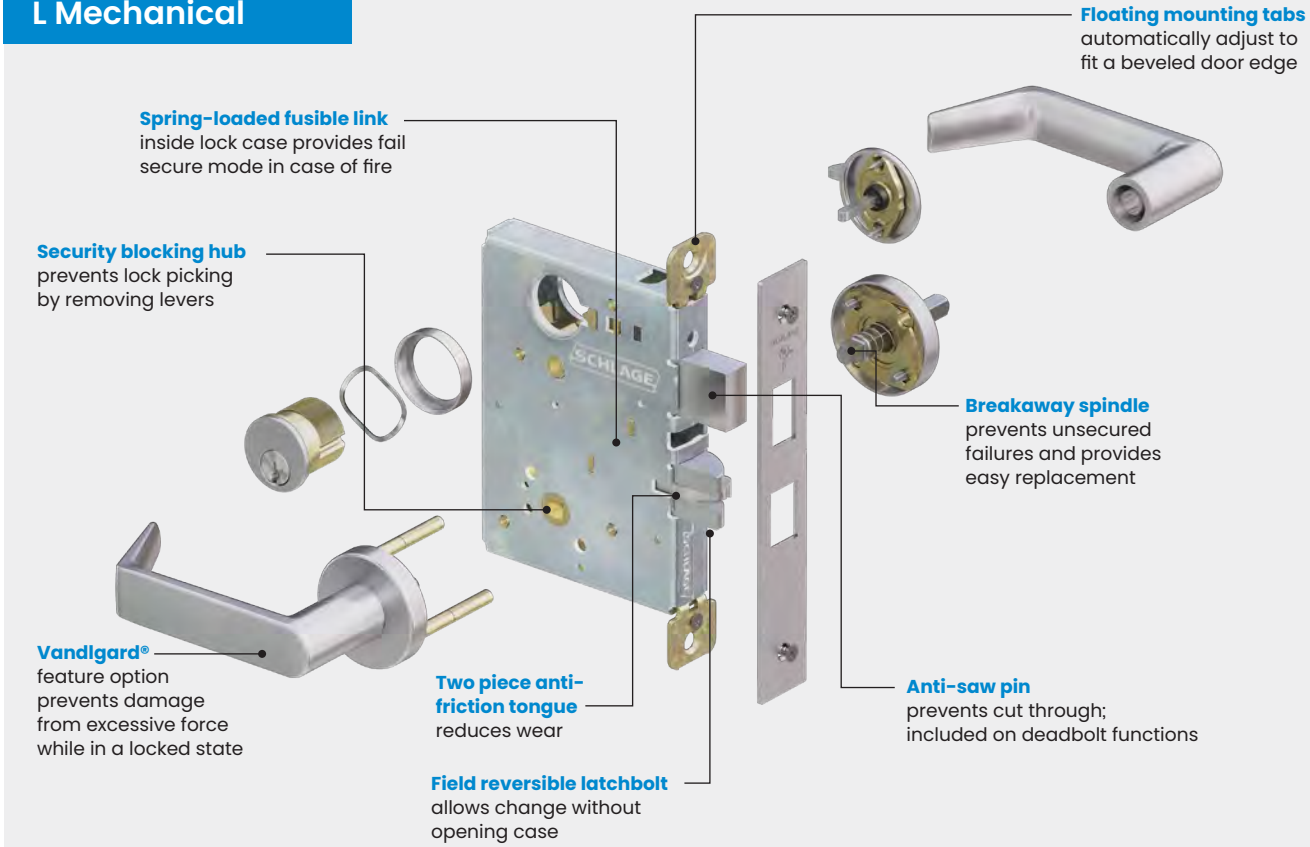
The L Series not only exceeds ANSI/BHMA Security Grade 1 and Operational Grade 1 standards, it also serves as the foundation for the Schlage L wired electrified, LE wireless electronic, and multi-point mortise locks.

33 levers and 12 finishes allow seamless suiting across other Allegion lock styles and exit trims to create truly beautiful environments.

Features

- Exceeds ANSI/BHMA Grade 1 operational and security standards
- Expansive list of configurations and options
- 52 mechanical functions meet the requirements of most applications
- Visual locked/unlocked status indicator options available on most functions
- 12 finishes paired with 33 levers, two knobs, five roses and two escutcheon designs to enhance any building style
- Levers constructed of solid brass or solid stainless steel for a strong-yet-comfortable feel made to endure the elements
- Supports Schlage Conventional, FSIC, SL and SFIC key cylinder formats plus a wide range of competitive cylinders
- Layered security key systems range from open and patented to restricted and geographically exclusive Primus options which include UL 437 high-security cylinders.

L Mechanical



Beauty, Brawn & Flexibility

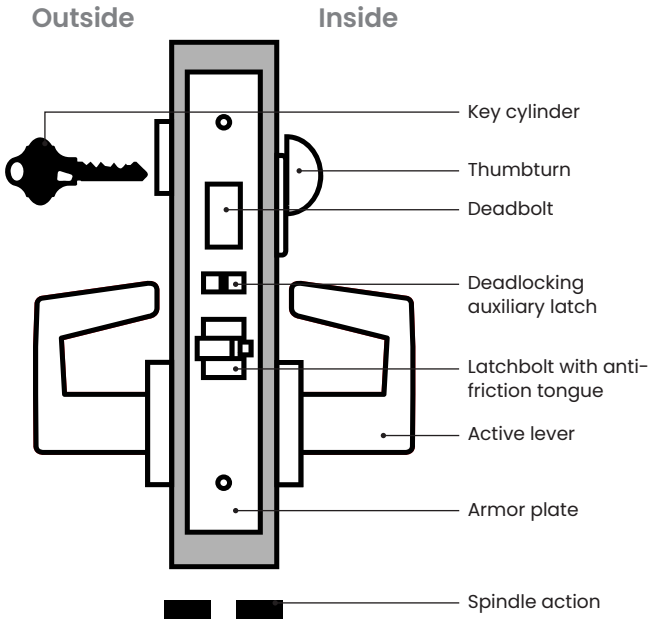
L Series mortise offers the greatest opportunity for customization to fit your needs. Featuring an extensive number of design choices, it's also the strongest, most secure mechanical lock in the Schlage portfolio.

- Several functions can be configured for visual indication trims, push/pull hospital latch or ligature-resistant trims
- Universal lock case design allows the L9050 function to be reconfigured into any of seven other functions
- 46 standard case mortise functions plus 6 small case mortise deadbolt functions
- 12 finishes plus two options for antimicrobial coating
- 33 ADA compliant lever options
- Available Vandlgard and/or key override feature options on several functions
- BAA compliant
- Locks are ANSI/BHMA Grade 1 certified
- Available with lead lining
- UL Listed 3-hour

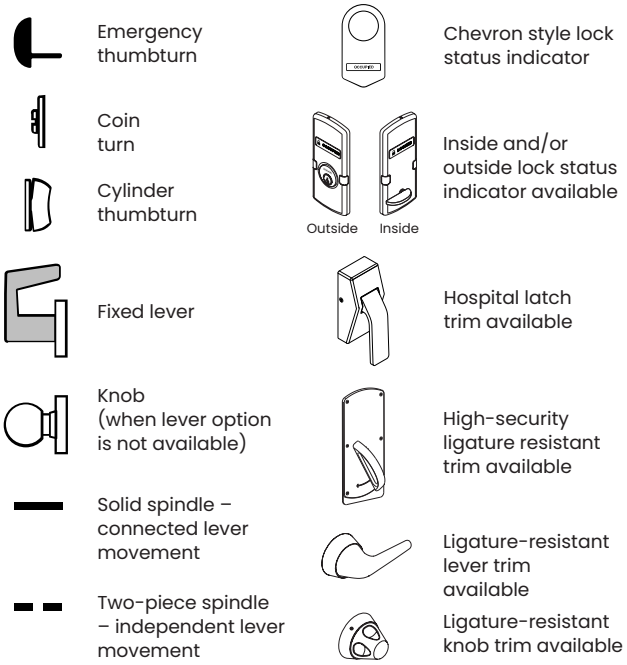


Mechanical Lock Functions

Legend



Key



Product Identification Guide

LV9460 with XL11-635

Lock series and function code
L = standard
LV = Vandlgard option
LM = multi-latch
LMV = multi-latch with Vandlgard

0 = no lock case (dummy trim)
9 = functions with lock case

0 = no deadbolt
1 = dummy trim
4 = with deadbolt

Function code

Functions requiring special ordering nomenclature

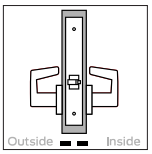


Vandlgard® feature helps protect the lock chassis from damage.

The Vandlgard optional feature available on many functions allows the outside lever to rotate freely down when in a locked state. This limits the ability of vandals to apply excessive force to the lever helping to prevent damage to internal components.

Non-Keyed Functions

Schlage **ANSI**
L9010 **F01**

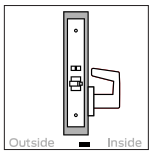


Passage latch



- Levers (or knobs) only-both sides; latchbolt only
- Latchbolt retracted by lever (or knob) from either side at all times
- Inside lever always free for immediate egress

Schlage **ANSI**
L9025 **F31**

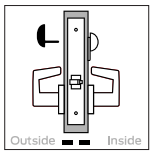


Exit or communicating lock

- No outside trim; lever (or knob) only-inside; latchbolt and deadlocking auxiliary latch
- Latchbolt retracted by lever (or knob) from inside only
- Inside lever always free for immediate egress

When ordering, specify door handing.

Schlage **ANSI**
L/LV9040 **F22**



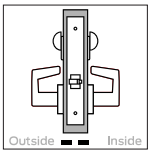
Bath/bedroom privacy lock



- Emergency thumbturn access outside; thumbturn inside; latchbolt only
- Latchbolt retracted by lever (or knob) from either side
- Outside lever is made inoperative by rotating inside thumbturn; Vandlgard® option allows outside lever to rotate freely down while locked
- To unlock from outside, remove access hole cover, insert emergency thumbturn (furnished) and rotate
- Rotating inside thumbturn unlocks outside lever; turning inside lever retracts latchbolt and unlocks outside lever; closing door also unlocks preventing lock-out
- Inside lever always free for immediate egress

Note: Hospital latch trim not available with Vandlgard option.

Schlage **ANSI**
L/LV9040 with XL11-446 **-**



Privacy with thumbturn both sides

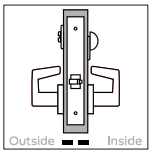


- Thumbturn both sides; latchbolt only
- Latchbolt retracted by lever (or knob) from either side
- Outside lever is made inoperative by rotating either thumbturn; Vandlgard® option allows outside lever to rotate freely down while locked
- Rotating either thumbturn unlocks outside lever
- Rotating inside lever retracts latchbolt and unlocks outside lever; closing door also unlocks
- Inside lever always free for immediate egress

Note: Available in rose or L escutcheon trim only.

To order, specify function and note XL11-446 as a special option.

Schlage **ANSI**
L/LV9044 **-**



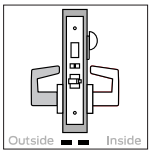
Privacy with coin turn outside



- Coin turn outside; thumbturn inside; latchbolt only
- Latchbolt retracted by lever (or knob) from either side
- Outside lever is made inoperative by rotating outside coin turn or inside thumbturn; Vandlgard® option allows outside lever to rotate freely down while locked
- Rotating outside coin turn unlocks outside lever
- Rotating inside thumbturn unlocks outside lever; turning inside lever retracts latchbolt and unlocks outside lever; closing door also unlocks preventing lock-out
- Inside lever always free for immediate egress

Note: Ligature-resistant trims not available with Vandlgard option.

Schlage **ANSI**
L9412 **-**

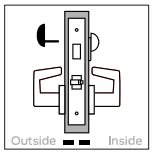


Exit lock with deadbolt

- Lever (or knob) only-outside; thumbturn inside with lever; deadbolt, latchbolt and deadlocking auxiliary latch
- Outside lever (or knob) always fixed; latchbolt retracted by inside lever
- Deadbolt thrown or retracted by rotating inside thumbturn
- Rotating inside lever retracts both deadbolt and latchbolt
- Inside lever always free for immediate egress

Non-Keyed Functions

Schlage **ANSI**
L/LV9440 **F19**

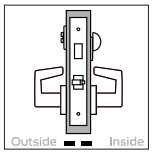


Privacy with deadbolt



- Emergency thumbturn access outside; thumbturn inside; deadbolt and latchbolt
- Latchbolt retracted by lever (or knob) from either side
- Outside lever is made inoperative when deadbolt is thrown by rotating inside thumbturn; Vandlgard® option allows outside lever to rotate freely down while locked
- To unlock from outside, remove access hole cover, insert emergency thumbturn (furnished) and rotate
- Rotating inside thumbturn unlocks outside lever; turning inside lever retracts both deadbolt and latchbolt and unlocks outside lever
- Inside lever always free for immediate egress

Schlage **ANSI**
L/LV9444 **-**



Privacy with deadbolt and coin turn outside

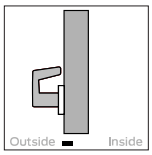


- Coin turn outside; thumbturn inside; deadbolt and latchbolt
- Latchbolt retracted by lever (or knob) from either side
- Outside lever is made inoperative when deadbolt is thrown by rotating inside thumbturn or outside coin turn; Vandlgard® option allows outside lever to rotate freely down while locked
- Rotating outside coin turn retracts deadbolt and unlocks outside lever
- Rotating inside thumbturn unlocks outside lever; turning inside lever retracts both deadbolt and latchbolt and unlocks outside lever
- Inside lever always free for immediate egress

Note: Ligature-resistant trims not available with Vandlgard option.

Non-Keyed Dummy Functions

Schlage **ANSI**
L0170 **-**



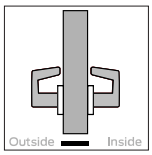
Half dummy trim

- Lever (or knob) only-one side; no armor front or mortise case
- Lever always fixed

Note: Do not use on hollow core wood doors. All metal door applications require reinforcement.

Ordering: Specify door handing. Additionally, when ordering with escutcheon trim, an inside escutcheon with through bolts will be provided.

Schlage **ANSI**
L0172 **-**

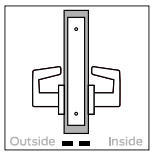


Full dummy trim

- Levers (or knobs) only-both sides; no armor front or mortise case
- Both levers always fixed

Note: All metal door applications require reinforcement.

Schlage **ANSI**
L9110 **-**



Full dummy trim with active levers

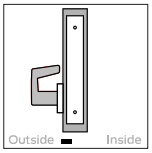
- Levers (or knobs) only-both sides; blank armor front without latchbolt
- Both levers always active

Note: Includes blank armor front and lock case.

May be ordered with optional XL11-743 armor front with cutout to receive deadbolt.

Non-Keyed Dummy Functions

Schlage **ANSI**
L9175 **-**



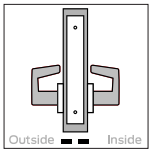
Half dummy trim with lock case

- Lever (or knob) only-one side; blank armor front without latchbolt
- Lever always fixed

Note: Includes blank armor front and lock case.

Door handing must be specified. May be ordered with optional XL11-743 armor front with cutout to receive deadbolt.

Schlage **ANSI**
L9176 **-**



Full dummy trim with lock case

- Levers (or knobs) only-both sides; blank armor front without latchbolt
- Both levers always fixed

Note: Includes blank armor front and lock case.

May be ordered with optional XL11-743 armor front with cutout to receive deadbolt.

Ordering: In a double-door application where dummy is used as the strike, order 10-091 armored front strike separately.

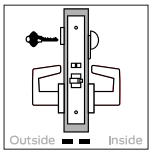
Single Cylinder Non-Deadbolt Functions

The L Series offers a multitude of functional options. But among them, the L9050 basic entrance/office function, is perhaps the most versatile in its ability to be transformed for other uses. With a few part changes this lock can be transformed into these functions:

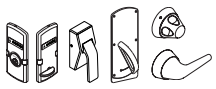
L9010 Passage latch
L9025 Exit or communicating lock
L9026 Exit lock with cylinder
L9060 Apartment entrance lock
L9070 Classroom lock, exterior lockdown only
L9071 Classroom security lock, interior/exterior lockdown
L9080 Storeroom lock

To learn more, reference the L Series Universal Transformation Guide.

Schlage **ANSI**
L/LV9050 **F04**



Entrance/office lock

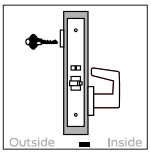


- Key cylinder outside; thumbturn inside; latchbolt and deadlocking auxiliary latch
- Latchbolt retracted by lever (or knob) from either side
- Outside lever is made inoperative by key outside or by turning inside thumbturn; Vandlgard® option allows both levers to rotate freely down while locked
- Key outside unlocks outside lever and retracts latchbolt
- Rotating inside thumbturn unlocks outside lever; turning inside lever retracts latchbolt but does not unlock
- Inside lever always free for immediate egress

Caution: Egress without fully rotating the thumbturn to vertical position can result in lock-out situations.

Note: Hospital latch and ligature-resistant trims not available with Vandlgard option.

Schlage **ANSI**
L9026 **-**



Exit lock with cylinder

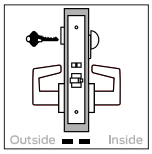
- Key cylinder only, no lever (or knob) outside; lever only-inside; latchbolt and deadlocking auxiliary latch
- Latchbolt retracted by lever from inside
- Key outside retracts latchbolt
- Inside lever always free for immediate egress

Note: Available in rose or L escutcheon trim only.

When ordering, specify door handing.

Single Cylinder Non-Deadbolt Functions

Schlage **ANSI**
L/LV9056 **-**
L/LV9056 with XL13-439 key override



Entrance/office lock with automatic unlocking

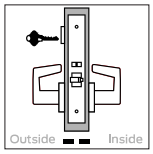


- Key cylinder outside; thumbturn inside; latchbolt and deadlocking auxiliary latch
- Latchbolt retracted by lever (or knob) from either side
- Outside lever is made inoperative by key outside or by turning inside thumbturn; Vandlgard® option allows outside lever to rotate freely down while locked
- Key outside unlocks outside lever and retracts latchbolt; XL13-439 option allows key to retract latchbolt overriding thumbturn if being held in locked position
- Rotating inside thumbturn unlocks outside lever; turning inside lever retracts latchbolt and unlocks outside lever; closing door also unlocks preventing lock-out
- Inside lever always free for immediate egress

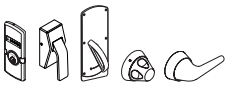
Note: Ligature-resistant trims not available with Vandlgard option.

To order with key override, specify function and note XL13-439 as a special option.

Schlage **ANSI**
L/LV9070 **F05**



Classroom lock, exterior lockdown only

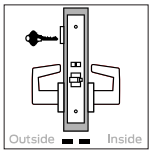


- Key cylinder outside with lever (or knob); lever only-inside; latchbolt and deadlocking auxiliary latch
- Latchbolt retracted by lever from either side
- Outside lever is made inoperative by key outside; Vandlgard® option allows outside lever to rotate freely down while locked
- Key outside unlocks outside lever and retracts latchbolt
- Inside lever always free for immediate egress

Note: Outside lever remains inoperative until unlocked by key.

Note: Hospital latch and ligature-resistant trims not available with Vandlgard option.

Schlage **ANSI**
L/LV9076 **F06**



Classroom holdback lock, exterior lockdown only



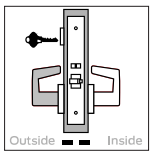
- Key cylinder outside with lever (or knob); lever only-inside; latchbolt and deadlocking auxiliary latch
- Latchbolt retracted by lever from either side
- Outside lever is made inoperative by key outside; Vandlgard® option allows outside lever to rotate freely down while locked
- Key outside unlocks outside lever and retracts latchbolt
- Rotate inside lever while turning key 360° to activate retracted latch holdback feature; to deactivate, reverse key rotation 360°
- Inside lever always free for immediate egress

Note: Outside lever remains inoperative until unlocked by key.

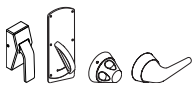
Note: Locks with holdback feature are not UL listed. Installation should be in accordance with existing codes only.

Note: Ligature-resistant trims not available with Vandlgard option.

Schlage **ANSI**
L/LV9080 **F07**



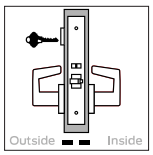
Storeroom lock



- Key cylinder outside with lever (or knob); lever only-inside; latchbolt and deadlocking auxiliary latch
- Outside lever always fixed; latchbolt retracted by inside lever; Vandlgard® option allows outside lever to rotate freely down while locked
- Key outside retracts latchbolt
- Inside lever always free for immediate egress

Note: Hospital latch and ligature-resistant trims not available with Vandlgard option.

Schlage **ANSI**
L/LV9081 **-**



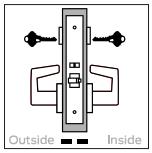
Accessible storeroom lock

- Key cylinder outside with lever (or knob); lever only-inside; latchbolt and deadlocking auxiliary latch
- Latchbolt retracted by lever from either side
- Outside lever is made inoperative by key outside; Vandlgard® option allows outside lever to rotate freely down while locked
- Key outside inserted and turned 280° unlocks allowing outside lever to retract latchbolt
- Inside lever always free for immediate egress

When ordering, specify door handing.

Double Cylinder Non-Deadbolt Functions

Schlage **ANSI**
L/LV9060 **F09**



Apartment entrance lock

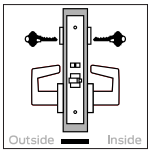


- Key cylinder both sides; latchbolt and deadlocking auxiliary latch
- Latchbolt retracted by lever (or knob) from either side
- Outside lever is made inoperative by key inside; Vandlgard® option allows outside lever to rotate freely down while locked
- Key outside retracts latchbolt but cannot lock or unlock outside lever
- Rotating inside lever retracts latchbolt; key inside retracts latchbolt and unlocks outside lever
- Inside lever always free for immediate egress

Note: Outside lever remains inoperative until unlocked by key inside.

Note: Hospital latch and ligature-resistant trims not available with Vandlgard option.

Schlage **ANSI**
L9066 **-**



Store lock

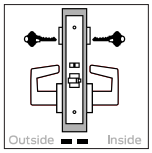


- Key cylinder both sides; latchbolt and deadlocking auxiliary latch
- Latchbolt retracted by lever (or knob) from either side
- Both levers are made inoperative by key from either side
- Key use on either side unlocks both levers and retracts latchbolt

Caution: Double cylinder locks on any door, in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

Note: Ligature-resistant trims not available with Vandlgard option.

Schlage **ANSI**
L/LV9071 **F32**



Classroom security lock, interior/exterior lockdown

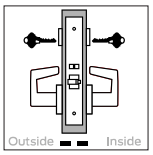


- Key cylinder both sides; latchbolt and deadlocking auxiliary latch
- Latchbolt retracted by lever (or knob) from either side
- Outside lever is made inoperative by key from either side; Vandlgard® option allows outside lever to rotate freely down while locked
- Rotating inside lever retracts latchbolt; key on either side unlocks outside lever and retracts latchbolt
- Inside lever always free for immediate egress

Note: Outside lever remains inoperative until unlocked by key.

Note: Ligature-resistant trims not available with Vandlgard option.

Schlage **ANSI**
L/LV9077 **-**



Classroom security holdback lock, interior/exterior lockdown



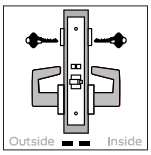
- Key cylinder both sides; latchbolt and deadlocking auxiliary latch
- Latchbolt retracted by lever (or knob) from either side
- Outside lever is made inoperative by key from either side; Vandlgard® option allows outside lever to rotate freely down while locked
- Key outside retracts latchbolt but cannot unlock outside lever
- Rotating inside lever retracts latchbolt; key inside retracts latchbolt and unlocks outside lever
- Rotate inside lever while turning key 360° to activate retracted latch holdback feature; to deactivate, reverse key rotation 360°
- Inside lever always free for immediate egress

Note: Outside lever remains inoperative until unlocked by key inside.

Note: Locks with holdback feature are not UL listed. Installation should be in accordance with existing codes only.

Note: Ligature-resistant trims not available with Vandlgard option.

Schlage **ANSI**
L/LV9082 **F30**



Institution lock



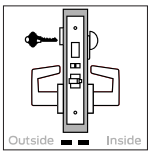
- Key cylinder both sides; latchbolt and deadlocking auxiliary latch
- Both levers (or knobs) always fixed; Vandlgard® option allows both levers to rotate freely down while locked
- Key on either side retracts latchbolt

Caution: Double cylinder locks on any door, in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

Note: Hospital latch and ligature-resistant trims not available with Vandlgard option.

Single Cylinder Deadbolt Functions

Schlage **ANSI**
L/LV9453 **F20**



Entrance/office lock with deadbolt

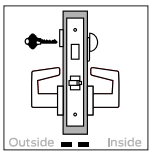


- Key cylinder outside; thumbturn inside; deadbolt, latchbolt and deadlocking auxiliary latch
- Latchbolt retracted by lever (or knob) from either side
- Outside lever is made inoperative when deadbolt is thrown by key outside; rotating thumbturn 20° locks outside lever only; rotating thumbturn 90° also throws deadbolt; Vandlgard® option allows outside lever to rotate freely down while locked
- Key outside retracts deadbolt and latchbolt, however, outside lever remains locked
- Rotating inside lever retracts deadbolt and latchbolt; outside lever unlocked when thumbturn is returned to vertical position
- Inside lever always free for immediate egress

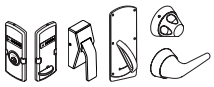
Caution: Egress without fully rotating the thumbturn to vertical position can result in lock-out situations.

Note: Hospital latch and ligature-resistant trims not available with Vandlgard option.

Schlage **ANSI**
L/LV9456 **F13**
L/LV9456 with XL13-439 key override



Corridor lock with deadbolt

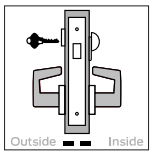


- Key cylinder outside; thumbturn inside; deadbolt and latchbolt
- Latchbolt retracted by lever (or knob) from either side
- Outside lever is made inoperative when deadbolt is thrown by key outside or by inside thumbturn; Vandlgard® option allows outside lever to rotate freely down while locked
- Key outside retracts deadbolt and unlocks outside lever; XL13-439 option allows key to retract deadbolt overriding thumbturn if being held in locked position
- Rotating inside lever retracts both deadbolt and latchbolt and unlocks outside lever
- Inside lever always free for immediate egress

Note: Hospital latch and ligature-resistant trims not available with Vandlgard option.

To order with key override, specify function and note XL13-439 as a special option.

Schlage **ANSI**
L9460 with XL11-635 **-**



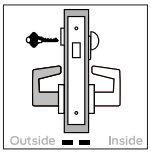
Cylinder x thumbturn deadbolt with fixed levers



- Key cylinder outside; thumbturn inside; deadbolt only
- Both levers (or knobs) always fixed
- Deadbolt thrown or retracted by key outside or by inside thumbturn

To order, specify function and note XL11-635 as a special option.

Schlage **ANSI**
L9460 with XL11-886 **-**



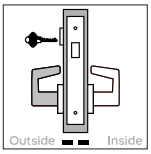
Cylinder x thumbturn deadbolt with inside active lever



- Key cylinder outside; thumbturn inside; deadbolt only
- Outside lever (or knob) always fixed; inside lever always active
- Deadbolt thrown or retracted by key outside or by inside thumbturn
- Rotating inside lever retracts deadbolt
- Inside lever always free for immediate egress

To order, specify function and note XL11-886 as a special option.

Schlage **ANSI**
L9464 with XL11-886 **-**



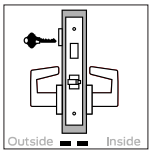
Single cylinder deadbolt with inside active lever



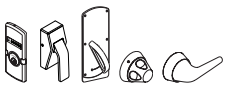
- Key cylinder outside with lever (or knob); lever only-inside; deadbolt only
- Outside lever always fixed; inside lever always active
- Deadbolt thrown or retracted by key outside
- Rotating inside lever retracts deadbolt
- Inside lever always free for immediate egress

To order, specify function and note XL11-886 as a special option.

Schlage **ANSI**
L9465 **-**



Closet/storeroom lock



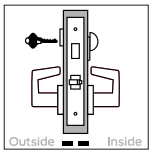
- Key cylinder outside with lever (or knob); lever only-inside; deadbolt and latchbolt
- Latchbolt retracted by lever from either side at all times
- Deadbolt thrown or retracted by key outside

Caution: Deadbolt locks with outside key retraction only can result in situations where occupants can be locked in.

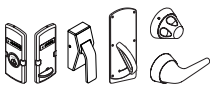
Note: Hospital latch and ligature-resistant trims not available with Vandlgard option.

Single Cylinder Deadbolt Functions

Schlage **ANSI**
L9473 **F21**



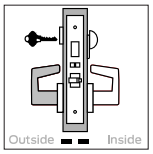
Dormitory/ bedroom lock



- Key cylinder outside; thumbturn inside; deadbolt and latchbolt
- Latchbolt retracted by lever (or knob) from either side at all times
- Deadbolt thrown or retracted by key outside or by inside thumbturn

Note: Hospital latch and ligature-resistant trims not available with Vandlgard option.

Schlage **ANSI**
L/LV9480 **-**
L/LV9480 with XL13-439 key override



Storeroom lock with deadbolt

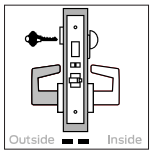


- Key cylinder outside; thumbturn inside; deadbolt, latchbolt and deadlocking auxiliary latch
- Outside lever (or knob) always fixed; latchbolt retracted by inside lever; Vandlgard® option allows outside lever to rotate freely down while locked
- Deadbolt thrown or retracted by key outside or by inside thumbturn
- Key outside retracts deadbolt and latchbolt, however, outside lever remains locked; XL13-439 option allows key to retract deadbolt and latchbolt overriding thumbturn if being held in locked position
- Rotating inside lever retracts both deadbolt and latchbolt
- Inside lever always free for immediate egress

Note: Ligature-resistant trims not available with Vandlgard option.

To order with key override, specify function and note XL13-439 as a special option.

Schlage **ANSI**
L/LV9485 **-**
L/LV9485 with XL13-439 key override



Faculty/hotel restroom lock with deadbolt



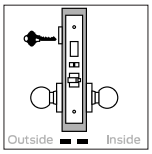
- Key cylinder outside; thumbturn inside; deadbolt, latchbolt and deadlocking auxiliary latch
- Outside lever (or knob) always fixed; latchbolt retracted by inside lever; Vandlgard® option allows outside lever to rotate freely down while locked
- Deadbolt thrown or retracted by rotating inside thumbturn
- Key outside retracts latchbolt but does not retract deadbolt unless using an emergency key (sold separately)
- Optional XL13-439 allows emergency key to retract deadbolt and latchbolt overriding thumbturn if being held in locked position
- Rotating inside lever retracts both deadbolt and latchbolt
- Inside lever always free for immediate egress

Note: Not available in SFIC or Everest SL formats.

Note: Hospital latch and ligature-resistant trims not available with Vandlgard option.

To order with key override, specify function and note XL13-439 as a special option.

Schlage **ANSI**
L9485 with XL11-557 **-**



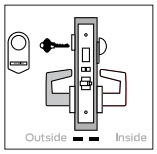
Prison function lock

- Key cylinder outside with knob; knob only-inside; deadbolt, latchbolt and deadlocking auxiliary latch
- Outside knob always free spinning; latchbolt retracted by inside knob
- Inside knob is made inoperative (fixed) when deadbolt is thrown by guard key outside
- Guard key outside retracts deadbolt and unlocks inside knob; in unlocked state use of prisoner's key outside retracts latchbolt only

Note: Available with knobs in rose or L escutcheon trim only. Tamper-resistant Torx screws standard.

To order, specify function and note XL11-557 as a special option.

Schlage **ANSI**
L/LV9486 **-**
L/LV9486 with XL13-439 key override



Faculty/hotel restroom lock with chevron indicator



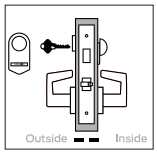
- Key cylinder outside; thumbturn inside; deadbolt, latchbolt and deadlocking auxiliary latch
- Outside lever (or knob) always fixed; latchbolt retracted by inside lever; Vandlgard® option allows outside lever to rotate freely down while locked
- Deadbolt thrown or retracted by rotating inside thumbturn, when thrown-indicator message changes from blank to "DO NOT DISTURB"
- Key outside retracts latchbolt but does not retract deadbolt unless using an emergency key (sold separately)
- Optional XL13-439 allows emergency key to retract deadbolt and latchbolt overriding thumbturn if being held in locked position
- Rotating inside lever retracts both deadbolt and latchbolt
- Inside lever always free for immediate egress

Note: Not available in SFIC or Everest SL formats. Hospital latch trim not available with Vandlgard option.

To order with key override, specify function and note XL13-439 as a special option.

Available with A, B or C roses only; to order chevron indicator with "OCCUPIED" message specify L583-375.

Schlage **ANSI**
L/LV9496 **-**
L/LV9496 with XL13-439 key override



Corridor lock with chevron indicator

- Key cylinder outside; thumbturn inside; deadbolt and latchbolt
- Latchbolt retracted by lever (or knob) from either side
- Outside lever is made inoperative when deadbolt is thrown by key outside or by inside thumbturn, when thrown-indicator message changes from blank to "OCCUPIED"; Vandlgard® option allows outside lever to rotate freely down while locked
- Key outside retracts deadbolt and unlocks outside lever; XL13-439 option allows key to retract deadbolt overriding thumbturn if being held in locked position
- Rotating inside lever retracts both deadbolt and latchbolt and unlocks outside lever
- Inside lever always free for immediate egress

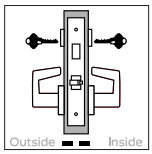
Note: Available in rose trim only.

To order with key override, specify function and note XL13-439 as a special option.

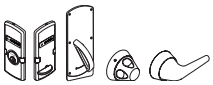
Adds chevron style occupancy indicator (09-611) to sectional trim lock with A or B roses only.

Double Cylinder Deadbolt Functions

Schlage **ANSI**
L/LV9457 **F33**



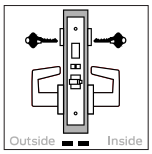
Classroom security lock with deadbolt



- Key cylinder both sides; deadbolt and latchbolt
- Latchbolt retracted by lever (or knob) from either side
- Outside lever is made inoperative when deadbolt is thrown by key from either side; Vandlgard® option allows outside lever to rotate freely down while locked
- Key either side retracts both latchbolt and deadbolt and unlocks outside lever
- Rotating inside lever retracts both deadbolt and latchbolt and unlocks outside lever
- Inside lever always free for immediate egress

Note: Ligature-resistant trims not available with Vandlgard option.

Schlage **ANSI**
L/LV9458 **F34**



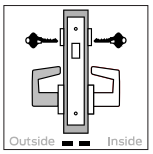
Classroom security lock with deadbolt and auxiliary latch



- Key cylinder both sides; deadbolt, latchbolt and deadlocking auxiliary latch
- Latchbolt retracted by lever (or knob) from either side
- Outside lever is made inoperative when deadbolt is thrown by key from either side; Vandlgard® option allows outside lever to rotate freely down while locked
- Key either side retracts both latchbolt and deadbolt and unlocks outside lever
- Rotating inside lever retracts both deadbolt and latchbolt and unlocks outside lever
- Inside lever always free for immediate egress

Note: Ligature-resistant trims not available with Vandlgard option.

Schlage **ANSI**
L9462 with XL11-886 **-**



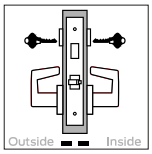
Double cylinder deadbolt with active inside lever



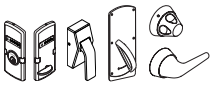
- Key cylinder both sides; deadbolt only
- Outside lever (or knob) always fixed; inside lever always active
- Deadbolt thrown or retracted by key from either side
- Rotating inside lever retracts deadbolt
- Inside lever always free for immediate egress

To order, specify function and note XL11-886 as a special option.

Schlage **ANSI**
L9466 **F14**



Utility room/ storeroom lock

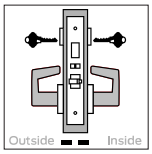


- Key cylinder both sides; deadbolt and latchbolt
- Latchbolt retracted by lever (or knob) from either side
- Deadbolt thrown or retracted by key from either side

Caution: Double cylinder locks on any door, in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

Note: Hospital latch and ligature-resistant trims not available with Vandlgard option.

Schlage **ANSI**
L/LV9482 **-**



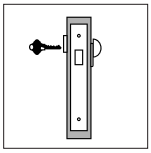
Institution lock with deadbolt

- Key cylinder both sides; deadbolt, latchbolt and deadlocking auxiliary latch
- Both levers always fixed; Vandlgard® option allows both levers to rotate freely down while locked
- Deadbolt thrown or retracted by key from either side
- Key on either side retracts both deadbolt and latchbolt

Caution: Double cylinder locks on any door, in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

Mortise Deadbolt Functions

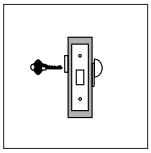
Schlage **ANSI**
L9460 **F17**



Cylinder x thumbturn mortise deadbolt



Schlage **ANSI**
L460 **E06071**



Cylinder x thumbturn small case mortise deadbolt

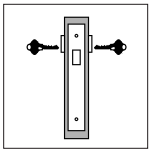


- Key cylinder only, no lever (or knob) outside; thumbturn only, no lever inside; deadbolt only
- Deadbolt thrown or retracted by key outside or by inside thumbturn

Note: L9000 mortise deadbolts available in L escutcheon or sectional trim only.

Note: L400 small case not available with escutcheon trim.

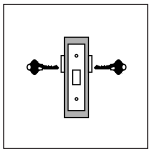
Schlage **ANSI**
L9462 **F16**



Double cylinder mortise deadbolt



Schlage **ANSI**
L462 **E06061**



Double cylinder small case mortise deadbolt



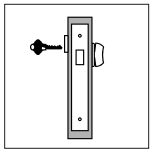
- Key cylinder both sides, no levers (or knobs); deadbolt only
- Deadbolt thrown or retracted by key from either side

Caution: Double cylinder locks on any door, in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

Note: L9000 mortise deadbolts available in L escutcheon or sectional trim only.

Note: L400 small case not available with escutcheon trim.

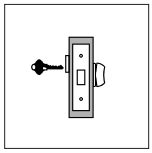
Schlage **ANSI**
L9463 **F29**



Cylinder x cylinder thumbturn mortise deadbolt



Schlage **ANSI**
L463 **E06091**



Cylinder x cylinder thumbturn small case mortise deadbolt

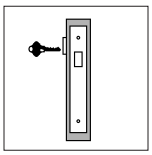


- Key cylinder only, no lever (or knob) outside; cylinder thumbturn only, no lever inside; deadbolt only
- Deadbolt thrown or retracted by key outside
- Rotating inside thumbturn retracts deadbolt but cannot project it

Note: L9000 mortise deadbolts available in L escutcheon or sectional trim only.

Note: L400 small case not available with escutcheon trim.

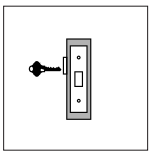
Schlage **ANSI**
L9464 **F18**



Cylinder only mortise deadbolt



Schlage **ANSI**
L464 **E06081**



Cylinder only small case mortise deadbolt

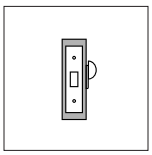


- Key cylinder only, no lever (or knob) outside; no interior trim; deadbolt only
- Deadbolt thrown or retracted by key

Note: L9000 mortise deadbolts available in L escutcheon or sectional trim only.

Note: L400 small case not available with escutcheon trim.

Schlage **ANSI**
L480 **-**



Thumbturn only small case mortise deadbolt

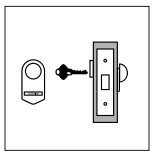


- No outside trim; thumbturn only, no lever inside; deadbolt only
- Deadbolt thrown or retracted by rotating inside thumbturn

Note: When ordered with indicator, the indicator is applied to the thumbturn side.

Note: L400 small case not available with escutcheon trim.

Schlage **ANSI**
L496 **-**



Cylinder x thumbturn small case mortise deadbolt with chevron indicator

- Key cylinder only, no lever (or knob) outside; thumbturn only, no lever inside; deadbolt only
- Deadbolt thrown or retracted by key outside or by inside thumbturn, when thrown-indicator message changes from blank to "OCCUPIED"

L Series Wired Electrified Locks



Electrified locks offer a powerful blend of mechanical reliability and electronic control—making them a smart, scalable solution for modern access control needs. The Schlage® L Series includes electrified functions that build on this strength, delivering robust Grade 1 security in a fire-rated lock with the added benefits of independent remote operation or full access control integration. Most functions are built for lever control — electrically managing the locking or unlocking of one or both levers. Motorized latch retraction options are offered with or without lever control. All are built to be efficient, quiet, and long lasting for exceptional performance under even the most challenging conditions

Universal Features for functions with lever control

- User selectable fail safe/fail secure—changing mode between EL and EU is as simple as flipping a switch on the lock case
- Low holding current on lever—0.1 amp produces minimal heat, eliminating "hot levers" in electrically locking applications and allows reliable operation even in poorly ventilated wood doors
- Optional Request to exit (RX) switch monitors the inside lever with enhanced detection level that balances security with lever sensitivity
- Modular RX design — RX can be added on at a later time without opening the lock case

L Wired Electrified

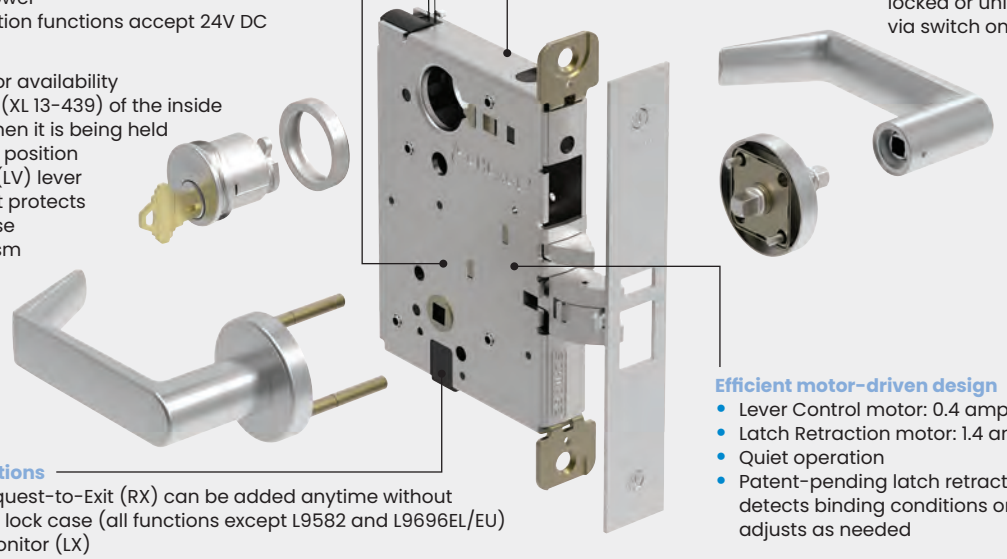
All mechanical features +

Standard Molex® connector
- Simplifies connection
- Includes additional 6" wire harness extension for traditional hard terminations

Input voltage
- Lever Control only functions accept 12V or 24V DC power
- Latch Retraction functions accept 24V DC

Added options
See functions for availability
- Key override (XL 13-439) of the inside them turn when it is being held in the locked position
- VandIgard® (LV) lever engagement protects against abuse and vandalism

Switch-selectable EL/EU
Change mode (electrically locked or unlocked) anytime via switch on lock case



Efficient motor-driven design
- Lever Control motor: 0.4 amp max draw (24V)
- Latch Retraction motor: 1.4 amps max draw
- Quiet operation
- Patent-pending latch retraction feature detects binding conditions on the motor and adjusts as needed

Monitoring options
- Modular Request-to-Exit (RX) can be added anytime without opening the lock case (all functions except L9582 and L9696EL/EU)
- Latchbolt Monitor (LX)

Lever Control only functions:
- Door Position Sensor (DPS) (non-deadbolt functions)
- Deadbolt Monitor (DM) is standard for deadbolt functions

L/LV9092EL/EU shown.

Choosing Lever Control and/or Latch Retraction

Lever control—electrically managing the locked or unlocked state of one or both levers—is a versatile solution for doors requiring remote release, timed access, or credentialed entry. These locks are ideal for controlled access points while maintaining egress where needed.

In contrast, **latch retraction** directly retracts the latch bolt, enabling hands-free operation. This is commonly used with automatic door openers, such as those used in accessible restrooms. Some functions provide only latch retraction for simple push/pull access, while others combine it with lever control.

When selecting between these options, it's important to consider building codes and safety requirements—particularly whether **fail safe** or **fail secure** operation is appropriate for the application.

Fail Safe vs. Fail Secure

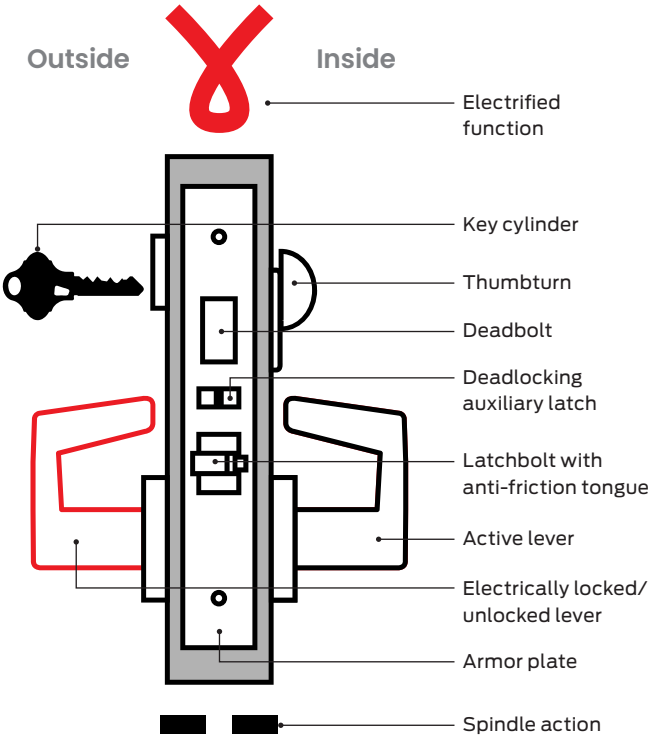
Electromechanical locks with lever control typically operate in one of two ways. Some manage only the outside lever, allowing free egress at all times. Others control both levers and should not be used where free exit is required. Schlage L Series electrified locks include a chassis switch that allows field selection between fail safe and fail secure modes.

Fail Secure (Electrically Unlocked - EU): Remains locked on the secure side(s) when power is lost or removed. Power must be applied to unlock and allow lever rotation. This mode is ideal for securing areas during a power outage.

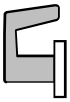
Fail Safe (Electrically Locked - EL): Locked when powered and unlocked when power is lost or removed. Commonly used on stairwell doors to allow re-entry during fire alarms or power failures. These locks always permit exit into the stairwell, except at the discharge door, which may be locked from the outside. Other applications can include areas requiring emergency access during outages or fire events.

Wired Electrified Lock Functions

Legend



Key


Fixed lever


Motorized latch retraction function

Solid spindle – connected lever movement

Two-piece spindle – independent lever movement


Hospital latch trim available


High-security ligature resistant trim available


Ligature-resistant lever trim available


Ligature-resistant knob trim available

Available electrified options include:

RX	Request to Exit
LX	Latch bolt monitor
DPS	Door Position Switch
DM	Deadbolt monitor (DM)

Product identification guide

LV9492EL with XL13-439

Lock series and function code
L = standard
LV = Vandlgard® option
LM = multi-latch
LMV = multi-latch with Vandlgard

0 = no lock case (dummy trim)
9 = functions with lock case

0 = no deadbolt
4 = with deadbolt
5 = with motorized latch retraction
6 = with motorized latch retraction and lever control

Function code

Electrified functions
EL = electrically locked
EU = electrically unlocked

Functions requiring special ordering nomenclature

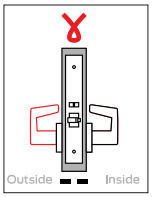


Vandlgard® feature helps protect the lock chassis from damage.

The Vandlgard optional feature available on many functions allows the outside lever to rotate freely down when in a locked state. This limits the ability of vandals to apply excessive force to the lever helping to prevent damage to internal components.

Non-Keyed Electrified Functions

Schlage **ANSI**
L/LV9090EL/EU **-**



Electrically locking/ unlocking outside lever, no cylinder



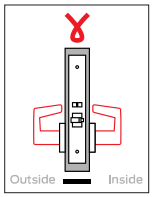
- Levers (or knobs) only both sides; latchbolt and deadlocking auxiliary latch
- Powered state: outside lever continuously locked (EL mode) or unlocked (EU mode); Vandlgard® option allows outside lever to rotate freely down while locked
- When power is removed (or power fails): in EL mode either lever will retract latchbolt; in EU mode outside lever is locked
- Inside lever always free for immediate egress

Note: Auto detects 12 or 24V DC.

Note: Ligature-resistant trims not available with Vandlgard option.

Ordering: Case-mounted switch allows field selectable EL/EU setting however, when ordering, please specify EL or EU.

Schlage **ANSI**
L/LV9091EL/EU **-**



Electrically locking/ unlocking both levers, no cylinder



- Levers (or knobs) only both sides; latchbolt and deadlocking auxiliary latch
- Powered state: both levers continuously locked (EL mode) or unlocked (EU mode); Vandlgard® option allows both levers to rotate freely down while locked
- When power is removed (or power fails): in EL mode either lever will retract latchbolt; in EU mode both levers are locked

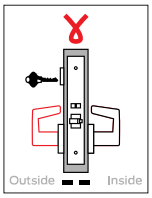
Note: Auto detects 12 or 24V DC.

Note: Ligature-resistant trims not available with Vandlgard option.

Ordering: Case-mounted switch allows field selectable EL/EU setting however, when ordering, please specify EL or EU.

Keyed Non-Deadbolt Electrified Functions

Schlage **ANSI**
L/LV9092EL/EU **-**



Electrically locking/ unlocking outside lever, outside cylinder



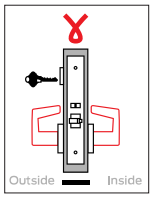
- Key cylinder outside with lever (or knob); lever only-inside; latchbolt and deadlocking auxiliary latch
- Powered state: outside lever continuously locked (EL mode) or unlocked (EU mode); Vandlgard® option allows outside lever to rotate freely down while locked
- Key outside retracts latchbolt but cannot change the normal locked or unlocked state of outside lever
- When power is removed (or power fails): in EL mode either lever will retract latchbolt; in EU mode outside lever is locked
- Inside lever always free for immediate egress

Note: Auto detects 12 or 24V DC.

Note: Hospital latch and ligature-resistant trims not available with Vandlgard option.

Ordering: Case-mounted switch allows field selectable EL/EU setting however, when ordering, please specify EL or EU.

Schlage **ANSI**
L/LV9093EL/EU **-**



Electrically locking/ unlocking both levers, outside cylinder



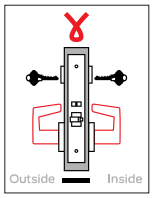
- Key cylinder outside with lever (or knob); lever only-inside; latchbolt and deadlocking auxiliary latch
- Powered state: both levers continuously locked (EL mode) or unlocked (EU mode); Vandlgard® option allows both levers to rotate freely down while locked
- Key outside retracts latchbolt but cannot change the normal locked or unlocked state of either lever
- When power is removed (or power fails): in EL mode either lever will retract latchbolt; in EU mode both levers are locked

Note: Auto detects 12 or 24V DC.

Note: Ligature-resistant trims not available with Vandlgard option.

Ordering: Case-mounted switch allows field selectable EL/EU setting however, when ordering, please specify EL or EU.

Schlage **ANSI**
L/LV9095EL/EU **-**



Electrically locking/ unlocking both levers, double cylinder



- Key cylinder both sides; latchbolt and deadlocking auxiliary latch
- Powered state: both levers (or knobs) continuously locked (EL mode) or unlocked (EU mode); Vandlgard® option allows both levers to rotate freely down while locked
- Key on either side retracts latchbolt but cannot change the normal locked or unlocked state of levers
- When power is removed (or power fails): in EL mode either lever will retract latchbolt; in EU mode both levers are locked

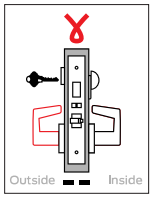
Note: Auto detects 12 or 24V DC.

Note: Hospital latch and ligature-resistant trims not available with Vandlgard option.

Ordering: Case-mounted switch allows field selectable EL/EU setting however, when ordering, please specify EL or EU.

Keyed Deadbolt Electrified Functions

Schlage **ANSI**
L/LV9492EL/EU -
L/LV9492EL/EU with XL13-439 key override



Electrically locking/unlocking outside lever, outside cylinder, inside thumbturn with deadbolt



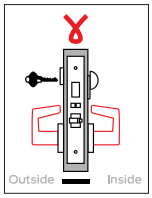
- Key cylinder outside; thumbturn inside; deadbolt, latchbolt and deadlocking auxiliary latch
- Powered state: outside lever (or knob) continuously locked (EL mode) or unlocked (EU mode); Vandlgard® option allows outside lever to rotate freely down while locked
- Deadbolt thrown or retracted by key outside or by inside thumbturn; XL13-439 option allows key to retract deadbolt overriding thumbturn if being held in locked position
- When power is removed (or power fails): in EL mode either lever will retract latchbolt; in EU mode outside lever is locked; deadbolt projection is independent of electrically locked or unlocked state of outside lever
- Rotating inside lever retracts both deadbolt and latchbolt
- Inside lever always free for immediate egress

Note: Auto detects 12 or 24V DC; supplied deadbolt monitor allows option to prevent ingress with card use when deadbolt is thrown.

Note: Ligature-resistant trims not available with Vandlgard option.

Ordering: Case-mounted switch allows field selectable EL/EU setting however, when ordering, please specify EL or EU. To order with key override, specify function and note XL13-439 as a special option.

Schlage **ANSI**
L/LV9493EL/EU -
L/LV9493EL/EU with XL13-439 key override



Electrically locking/unlocking both levers, outside cylinder, inside thumbturn with deadbolt



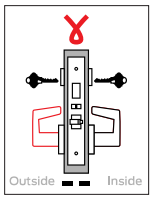
- Key cylinder outside; thumbturn inside; deadbolt, latchbolt and deadlocking auxiliary latch
- Powered state: both levers (or knobs) continuously locked (EL mode) or unlocked (EU mode); Vandlgard® option allows both levers to rotate freely down while locked
- Deadbolt thrown or retracted by key outside or by inside thumbturn; XL13-439 option allows key to retract deadbolt overriding thumbturn if being held in locked position
- When power is removed (or power fails): in EL mode either lever will retract latchbolt; in EU mode both levers are locked; deadbolt projection is independent of electrically locked or unlocked state of either lever
- When unlocked, rotating inside lever retracts both deadbolt and latchbolt

Note: Auto detects 12 or 24V DC; supplied deadbolt monitor allows option to prevent ingress with card use when deadbolt is thrown.

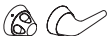
Note: Ligature-resistant trims not available with Vandlgard option.

Ordering: Case-mounted switch allows field selectable EL/EU setting however, when ordering, please specify EL or EU. To order with key override, specify function and note XL13-439 as a special option.

Schlage **ANSI**
L/LV9494EL/EU -



Electrically locking/unlocking outside lever, double cylinder with deadbolt



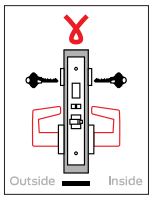
- Key cylinder both sides; deadbolt, latchbolt and deadlocking auxiliary latch
- Powered state: outside lever (or knob) continuously locked (EL mode) or unlocked (EU mode); Vandlgard® option allows outside lever to rotate freely down while locked
- Deadbolt thrown or retracted by key from either side
- When power is removed (or power fails): in EL mode either lever will retract latchbolt; in EU mode outside lever is locked; deadbolt projection is independent of electrically locked or unlocked state of outside lever
- Rotating inside lever retracts both deadbolt and latchbolt
- Inside lever always free for immediate egress

Note: Auto detects 12 or 24V DC; supplied deadbolt monitor allows option to prevent ingress with card use when deadbolt is thrown.

Note: Ligature-resistant trims not available with Vandlgard option.

Ordering: Case-mounted switch allows field selectable EL/EU setting however, when ordering, please specify EL or EU.

Schlage **ANSI**
L/LV9495EL/EU -



Electrically locking/unlocking both levers, double cylinder with deadbolt



- Key cylinder both sides; deadbolt, latchbolt and deadlocking auxiliary latch
- Powered state: both levers (or knobs) continuously locked (EL mode) or unlocked (EU mode); Vandlgard® option allows both levers to rotate freely down while locked
- Deadbolt thrown or retracted by key from either side
- When power is removed (or power fails): in EL mode either lever will retract latchbolt; in EU mode both levers are locked; deadbolt projection is independent of electrically locked or unlocked state of either lever
- When unlocked, rotating inside lever retracts both deadbolt and latchbolt

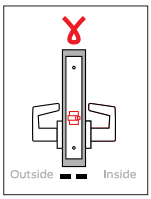
Note: Auto detects 12 or 24V DC; supplied deadbolt monitor allows option to prevent ingress with card use when deadbolt is thrown.

Note: Ligature-resistant trims not available with Vandlgard option.

Ordering: Case-mounted switch allows field selectable EL/EU setting however, when ordering, please specify EL or EU.

Motorized Latch Retraction Functions

Schlage **ANSI**
L9510 **-**

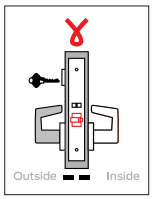


Passage latch with motorized latch retraction

- Lever only both sides; latchbolt only
- Extended latchbolt is retracted by lever from either side at all times
- Powered state: latchbolt is retracted
- When power is removed latchbolt extends
- Inside lever always free for immediate egress

Note: 24V DC only. Available options include Request to Exit (RX) or Latchbolt Monitor (LX).

Schlage **ANSI**
L9580 **-**

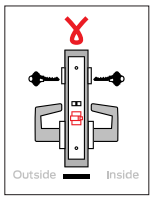


Storeroom lock with motorized latch retraction

- Key cylinder outside with lever; lever only-inside; latchbolt and deadlocking auxiliary latch
- Outside lever always fixed; extended latchbolt is retracted by inside lever
- Key outside retracts latchbolt
- Powered state: latchbolt is retracted
- When power is removed latchbolt extends
- Inside lever always free for immediate egress

Note: 24V DC only. Available options include Request to Exit (RX) or Latchbolt Monitor (LX).

Schlage **ANSI**
L9582 **-**



Institution lock with motorized latch retraction

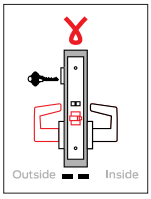
- Key cylinder and lever both sides; latchbolt and deadlocking auxiliary latch
- Both levers always fixed
- Key on either side retracts latchbolt
- Powered state: latchbolt is retracted
- When power is removed latchbolt extends

Caution: Double cylinder locks on any door, in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

Note: 24V DC only. Available Latchbolt Monitor (LX) option.

Motorized Latch Retraction Functions With Lever Control

Schlage **ANSI**
L9692EL/EU **-**



Electrically locking/ unlocking outside lever, outside cylinder with motorized latch retraction

- Key cylinder outside with lever; lever only-inside; latchbolt and deadlocking auxiliary latch

Lever control

- Powered state: outside lever continuously locked (EL mode) or unlocked (EU mode)
- When power for lever is removed (or power fails): in EL mode either lever will retract latchbolt; in EU mode outside lever is locked

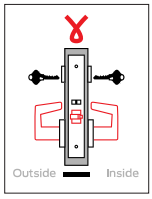
Independent latchbolt control

- Powered state: latchbolt is retracted
- When power is removed latchbolt extends
- Key outside retracts latchbolt but cannot change the normal locked or unlocked state of outside lever
- Inside lever always free for immediate egress

Note: 24V DC only. Available options include Request to Exit (RX) or Latchbolt Monitor (LX).

Ordering: Case-mounted switch allows field selectable EL/EU setting however, when ordering, please specify EL or EU.

Schlage **ANSI**
L9695EL/EU **-**



Electrically locking/ unlocking both levers double cylinder with motorized latch retraction

- Key cylinder and lever both sides; latchbolt and deadlocking auxiliary latch

Lever control

- Powered state: both levers continuously locked (EL mode) or unlocked (EU mode)
- When power for levers is removed (or power fails): in EL mode either lever will retract latchbolt; in EU mode both levers are locked

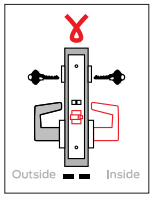
Independent latchbolt control

- Powered state: latchbolt is retracted
- When power is removed latchbolt extends
- Key either side retracts latchbolt but cannot change the normal locked or unlocked state of either lever

Note: 24V DC only. Available options include Request to Exit (RX) or Latchbolt Monitor (LX).

Ordering: Case-mounted switch allows field selectable EL/EU setting however, when ordering, please specify EL or EU.

Schlage **ANSI**
L9696EL/EU **-**



Electrically locking/ unlocking inside lever double cylinder with motorized latch retraction

- Key cylinder and lever both sides; latchbolt and deadlocking auxiliary latch

Lever control

- Powered state: inside lever continuously locked (EL mode) or inside lever unlocked (EU mode); outside lever always fixed
- When power for lever is removed (or power fails): in EL mode inside lever will retract latchbolt; in EU mode inside lever is locked; outside lever always fixed

Independent latchbolt control

- Powered state: latchbolt is retracted
- When power is removed latchbolt extends
- Key either side retracts latchbolt but cannot change the normal locked or unlocked state of either lever

Note: 24V DC only. Available Latchbolt Monitor (LX) option.

Ordering: Case-mounted switch allows field selectable EL/EU setting however, when ordering, please specify EL or EU.

LE Mobile Enabled Wireless Electronic Locks

The Schlage LE mobile enabled wireless mortise lock is designed to affordably extend electronic access control deeper into the building beyond traditional perimeter and high security openings. It offers enhanced security, intelligence, and the convenience of upgrading to smart and mobile credentials[1].

LE wireless locks simplify installation by combining the lock, credential reader, door position sensor and request-to-exit switch into one unit. Installation requires only minor modifications to existing mechanical mortise prep with no wires to run to the lock or additional components necessary.

Schlage offers organizations the freedom to use the access control software of their choice to manage their system. Select an Allegion solution or one of our third party physical access control software (PACS) alliances to meet application requirements.

- Ideal for office and suite entries, conference rooms, common area doors, resident units, and sensitive storage areas with a mortise door prep
- Multi-technology credential compatibility includes Schlage MIFARE®, Bluetooth® and NFC mobile[1], and proximity
- Optional support for HID® iCLASS®, iCLASS SE®, Seos® and NFC mobile credentials
- Wireless configuration from connected smartphones and tablets
- Built-in Wi-Fi® enables automated daily updates sent directly from host software
- Networked real-time communication available with the ENGAGE Gateway and PACS provider solutions
- Weather-resistant design





1. Dependent on availability of compatible mobile credential.

LE Wireless Electronic

Most mechanical features +

Compatible with 2.4 GHz Bluetooth® and NFC mobile*
13.56 MHz smart and
125 kHz proximity credentials

Connectivity options
for real-time networked via gateway, No-Tour and offline applications

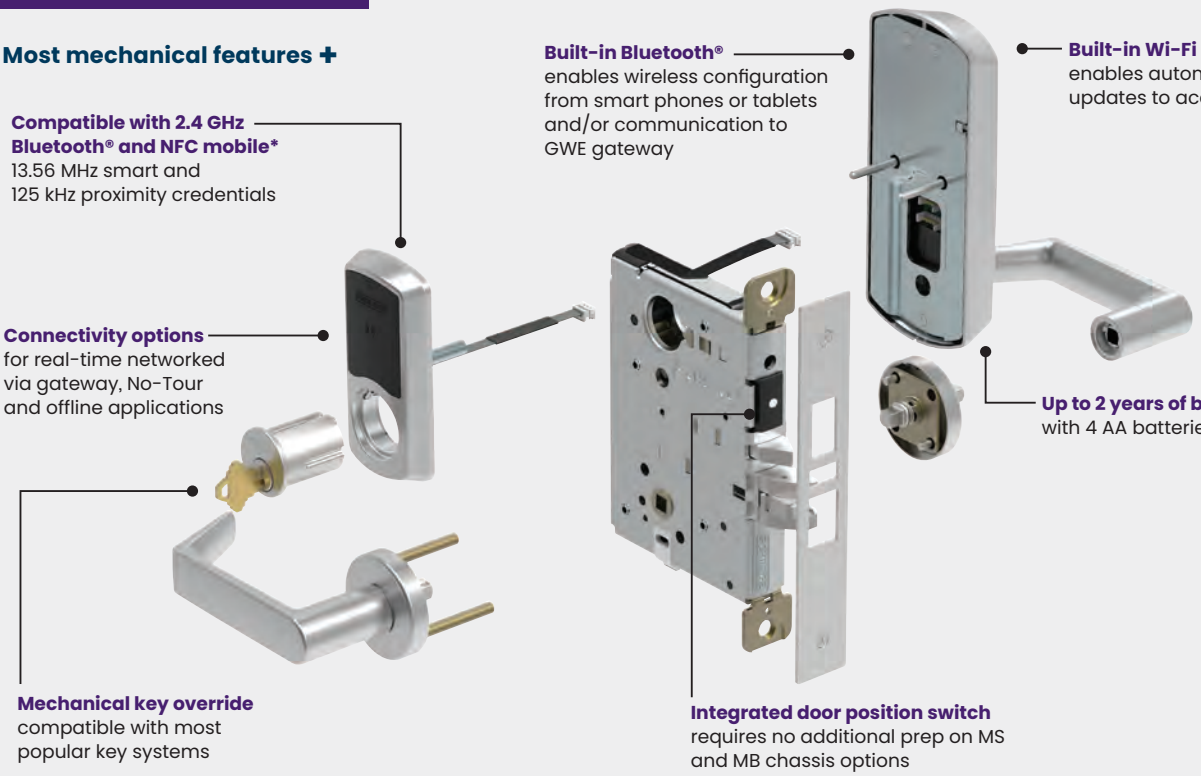
Mechanical key override
compatible with most popular key systems

Built-in Bluetooth®
enables wireless configuration from smart phones or tablets and/or communication to GWE gateway

Built-in Wi-Fi
enables automatic updates to access rights

Up to 2 years of battery life
with 4 AA batteries

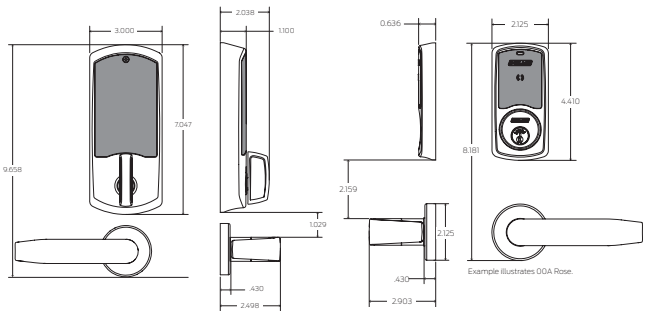
Integrated door position switch
requires no additional prep on MS and MB chassis options



*Dependent on availability of compatible mobile credential

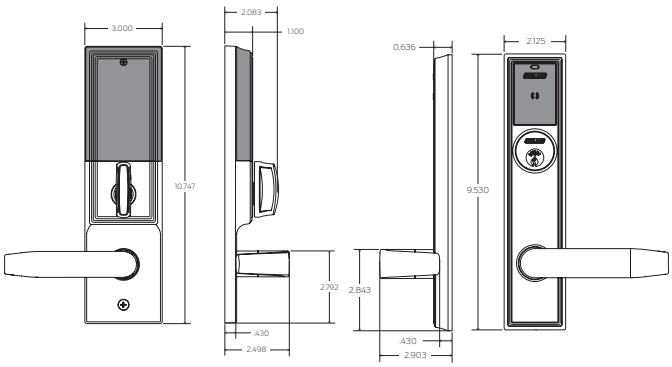
Greenwich





Addison





Available Status Signals

- Request to Exit
- Door position
- Interior cover tamper[1]
- Battery level
- Lock/unlock status[2]
- Communication status[1]
- Deadbolt position status (MD only)[1]
- Interior push button status (MB only)[1]

Standard Multi-Technology Specifications	
Credential technologies	Proximity (125 kHz) Smart (13.56 MHz) Bluetooth Low Energy (LE) (2.4 GHz) Near Field Communication (NFC)
Standards	ISO standard 15693 and ISO 14443
Maximum read range	Proximity: up to 1.25" Smart: up to .75" Bluetooth Low Energy: up to 15' NFC: mobile device dependent

1. Consult your access control software provider for specific scope of support.
2. Software indicates lock/unlock status based on sequence of events.



Use the ENGAGE mobile app to commission and connect devices to your access control system of choice

Download on the App Store

ANDROID APP ON Google play



LEMS
LED Indicator

Storeroom
- Lockset is normally secure
- Inside lever always free for immediate egress
- A valid normal credential or mechanical key will momentarily unlock the door
- Valid toggle credential on the exterior may be used to change to a passage or secured status

LEMB
Interior Push Button and LED

Office
- Lockset is normally secure
- Inside lever is always free for immediate egress
- Valid normal credential or key momentarily unlocks door
- Interior push button on inside escutcheon may be used to select a passage or secured state and confirms state of the lock via LED indicator
- Valid toggle credential may be used to change to a passage or secured state
- Meets need for lockdown function for safety and security

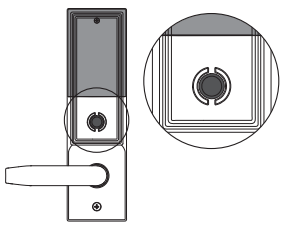
Privacy
- Lockset is normally secure
- Valid normal credential or key momentarily unlocks door
- Inside lever is always free for immediate egress
- Interior push button on inside escutcheon may be used to select a privacy status
- Interior push button will disable normal electronic access from the exterior
- Opening the door or pressing the interior push button a second time on the inside housing deactivates the privacy status
- Mechanical key will always retract the latch
- Door position sensor required for function

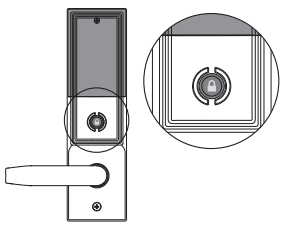
Apartment
- Lockset is normally secure
- Inside lever always free for immediate egress
- Valid normal or toggle credential is used to change to a passage or secured state
- Interior push button on inside escutcheon may be used to select a passage or secured status
- Opening the door or pressing the interior push button causes the lockset to toggle to passage
- While in passage mode, the lockset can only be secured while the door is closed by pressing the interior push button or using a normal credential on the exterior
- Mechanical key will retract the latch
- Door position sensor required for function

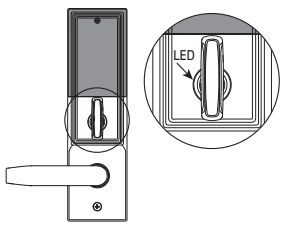
LEMD
Deadbolt with LED

Privacy
- Lockset is normally secure
- Valid normal credential or key momentarily unlocks door
- Valid toggle credential may be used to change to a passage or secured state
- Inside lever always free for immediate egress
- The thumbturn on inside housing may be used to select a privacy status
- The thumbturn will disable normal electronic access from the exterior and confirms state of the lock via LED indicator
- Opening the door or retracting deadbolt deactivates the privacy status
- Mechanical key will always retract the latch
- Door position sensor required for function

Apartment
- Lockset is normally secure
- Inside lever always free for immediate egress
- Opening the door or retracting the deadbolt causes the lockset to toggle to passage
- Valid normal or toggle credential is used to change to a passage or secured state
- Thumbturn on inside housing may be used to select a passage or secured state and confirms state of the lock via LED indicator
- While in passage mode, the lockset can only be secured while the door is closed by extending the deadbolt from inside or using a normal credential on the exterior reader
- Normal electronic access from the exterior is always allowed
- Mechanical key will retract the latch
- Door position sensor required for function







LM9200 Multi-Point Locks

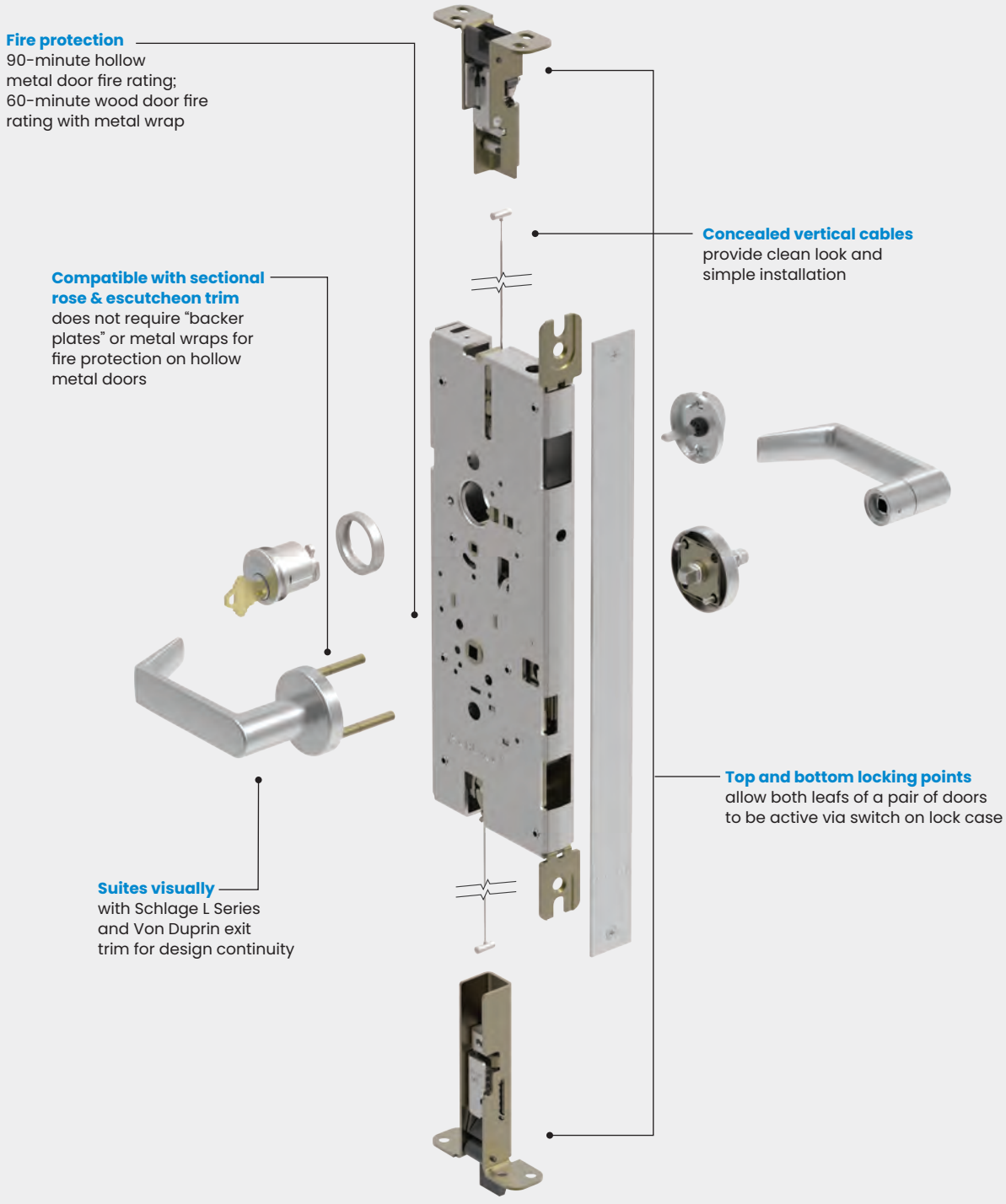
The Schlage LM9200 lock utilizes latches in the top and bottom of the door, rather than the side, on single or double sets of doors. Compatible with wood or hollow metal doors, the LM9200 is also available without the bottom latch for single point latching.

The LM9200 can easily integrate into any application and suite with other Schlage locks and Von Duprin exit devices.

Some applications include:

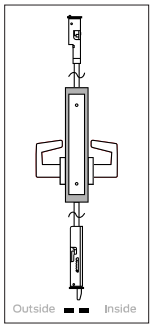
- Pair of conference room doors
- Pair of fire rated corridor doors
- Pair of office suite doors
- Pair of elevator lobby doors
- Pair of doors where flush bolts and a coordinator are not desired

LM9200 Multi-Point



Mechanical Functions

Schlage **ANSI**
LM9210 **-**

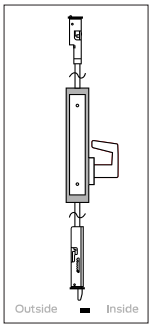


2-point passage latch

- Levers only-both sides; 2-point latch
- Latchbolts retracted by lever from either side at all times
- Inside lever always free for immediate egress

When ordering, specify door handing.

Schlage **ANSI**
LM9225 **-**



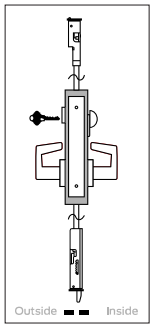
2-point exit lock

- No outside trim; lever only-inside; 2-point latch
- Latchbolts retracted by lever from inside only
- Inside lever always free for immediate egress

Note: Available in rose trim only.

When ordering, specify door handing.

Schlage **ANSI**
LM9250 **-**



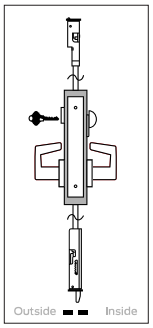
2-point entrance/ office lock

- Key cylinder outside; thumbturn inside; 2-point latch
- Latchbolts retracted by lever from either side
- Outside lever is made inoperative by key outside or by turning inside thumbturn
- Key outside unlocks and enables outside lever to retract both latches
- Rotating inside lever retracts latchbolts; outside lever unlocked when thumbturn is returned to vertical position
- Inside lever always free for immediate egress

Caution: Outside lever remains inoperative until thumbturn is returned to vertical or unlocked by key.

When ordering, specify door handing.

Schlage **ANSI**
LM9256 **-**

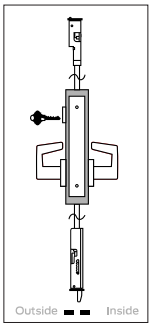


2-point entrance/ office lock with automatic unlocking

- Key cylinder outside; thumbturn inside; 2-point latch
- Latchbolts retracted by lever from either side
- Outside lever is made inoperative by key outside or by turning inside thumbturn
- Key outside unlocks and enables outside lever to retract both latches
- Rotating inside thumbturn unlocks outside lever; turning inside lever retracts latchbolts and unlocks outside lever
- Inside lever always free for immediate egress

When ordering, specify door handing.

Schlage **ANSI**
LM9270 **-**



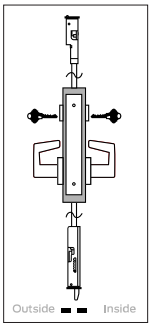
2-point classroom lock, exterior lockdown only

- Key cylinder outside with lever; lever only-inside; 2-point latch
- Latchbolts retracted by lever from either side
- Outside lever is made inoperative by key outside
- Key outside unlocks and enables outside lever to retract both latches
- Inside lever always free for immediate egress

Note: Outside lever remains inoperative until unlocked by key.

When ordering, specify door handing.

Schlage **ANSI**
LM9271 **-**



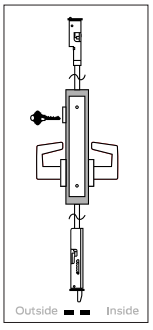
2-point classroom security lock, interior/exterior lockdown

- Key cylinder both sides; 2-point latch
- Latchbolts retracted by lever from either side
- Outside lever is made inoperative by key from either side
- Key on either side unlocks and enables outside lever to retract both latches
- Inside lever always free for immediate egress

Note: Outside lever remains inoperative until unlocked by key.

When ordering, specify door handing.

Schlage **ANSI**
LM9280 **-**



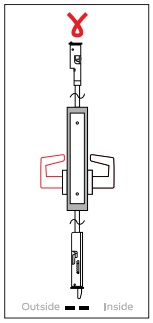
2-point storeroom lock

- Key cylinder outside with lever; lever only-inside; 2-point latch
- Outside lever normally locked; latchbolts retracted by inside lever
- Key outside inserted and turned 280° unlocks, allowing outside lever to retract latches; removal of key returns door to locked state
- Inside lever always free for immediate egress

When ordering, specify door handing.

Electrified Functions

Schlage **ANSI**
LM9290EL/EU **-**



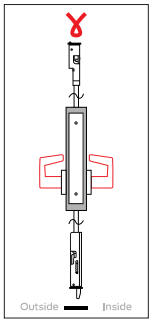
Electrically locking/ unlocking outside lever, no cylinder 2-point lock

- Levers only-both sides; 2-point latch
- Powered state: outside lever continuously locked (EL mode) or unlocked (EU mode)
- When power is removed (or power fails): in EL mode either lever will retract latchbolts; in EU mode outside lever is locked
- Inside lever always free for immediate egress

Note: Auto detects 12 or 24V DC.

Ordering: Specify door handing. Additionally, case-mounted switch allows field selectable EL/EU setting however, when ordering, please specify EL or EU.

Schlage **ANSI**
LM9291EL/EU **-**



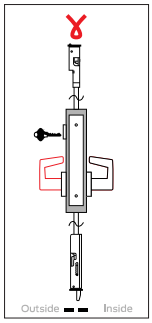
Electrically locking/ unlocking both levers, no cylinder 2-point lock

- Levers only-both sides; 2-point latch
- Powered state: both levers continuously locked (EL mode) or unlocked (EU mode)
- When power is removed (or power fails): in EL mode either lever will retract latchbolts; in EU mode both levers are locked

Note: Auto detects 12 or 24V DC.

Ordering: Specify door handing. Additionally, case-mounted switch allows field selectable EL/EU setting however, when ordering, please specify EL or EU.

Schlage **ANSI**
LM9292EL/EU **-**



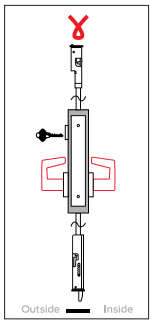
Electrically locking/unlocking outside lever, outside cylinder 2-point lock

- Key cylinder outside with lever; lever only-inside; 2-point latch
- Powered state: outside lever continuously locked (EL mode) or unlocked (EU mode)
- When locked, key outside enables outside lever to retract both latches but cannot change the normal locked or unlocked state of outside lever
- When power is removed (or power fails): in EL mode either lever will retract latchbolts; in EU mode outside lever is locked
- Inside lever always free for immediate egress

Note: Auto detects 12 or 24V DC.

Ordering: Specify door handing. Additionally, case-mounted switch allows field selectable EL/EU setting however, when ordering, please specify EL or EU.

Schlage **ANSI**
LM9293EL/EU **-**



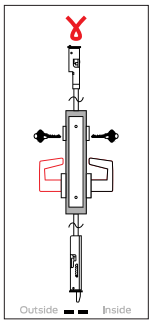
Electrically locking/unlocking both levers, outside cylinder 2-point lock

- Key cylinder outside with lever; lever only-inside; 2-point latch
- Powered state: both levers continuously locked (EL mode) or unlocked (EU mode)
- When locked, key outside enables outside lever to retract both latches but cannot change the normal locked or unlocked state of outside lever
- When power is removed (or power fails): in EL mode either lever will retract latchbolts; in EU mode both levers are locked

Note: Auto detects 12 or 24V DC.

Ordering: Specify door handing. Additionally, case-mounted switch allows field selectable EL/EU setting however, when ordering, please specify EL or EU.

Schlage **ANSI**
LM9294EL/EU **-**



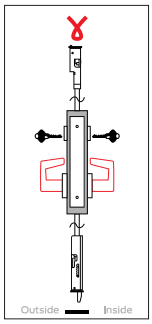
Electrically locking/ unlocking outside lever, double cylinder 2-point lock

- Key cylinder both sides; 2-point latch
- Powered state: outside lever continuously locked (EL mode) or unlocked (EU mode)
- When locked, key on either side enables either lever to retract both latches but cannot change the normal locked or unlocked state of outside lever
- When power is removed (or power fails): in EL mode either lever will retract latchbolts; in EU mode outside lever is locked
- Inside lever always free for immediate egress

Note: Auto detects 12 or 24V DC.

Ordering: Specify door handing. Additionally, case-mounted switch allows field selectable EL/EU setting however, when ordering, please specify EL or EU.

Schlage **ANSI**
LM9295EL/EU **-**



Electrically locking/ unlocking both levers, double cylinder 2-point lock

- Key cylinder both sides; 2-point latch
- Powered state: both levers continuously locked (EL mode) or unlocked (EU mode)
- When locked, key on either side enables either lever to retract both latches but cannot change the normal locked or unlocked state of either lever
- When power is removed (or power fails): in EL mode either lever will retract latchbolts; in EU mode both levers are locked

Note: Auto detects 12 or 24V DC.

Ordering: Specify door handing. Additionally, case-mounted switch allows field selectable EL/EU setting however, when ordering, please specify EL or EU.

LM9300 Multi-Point Locks

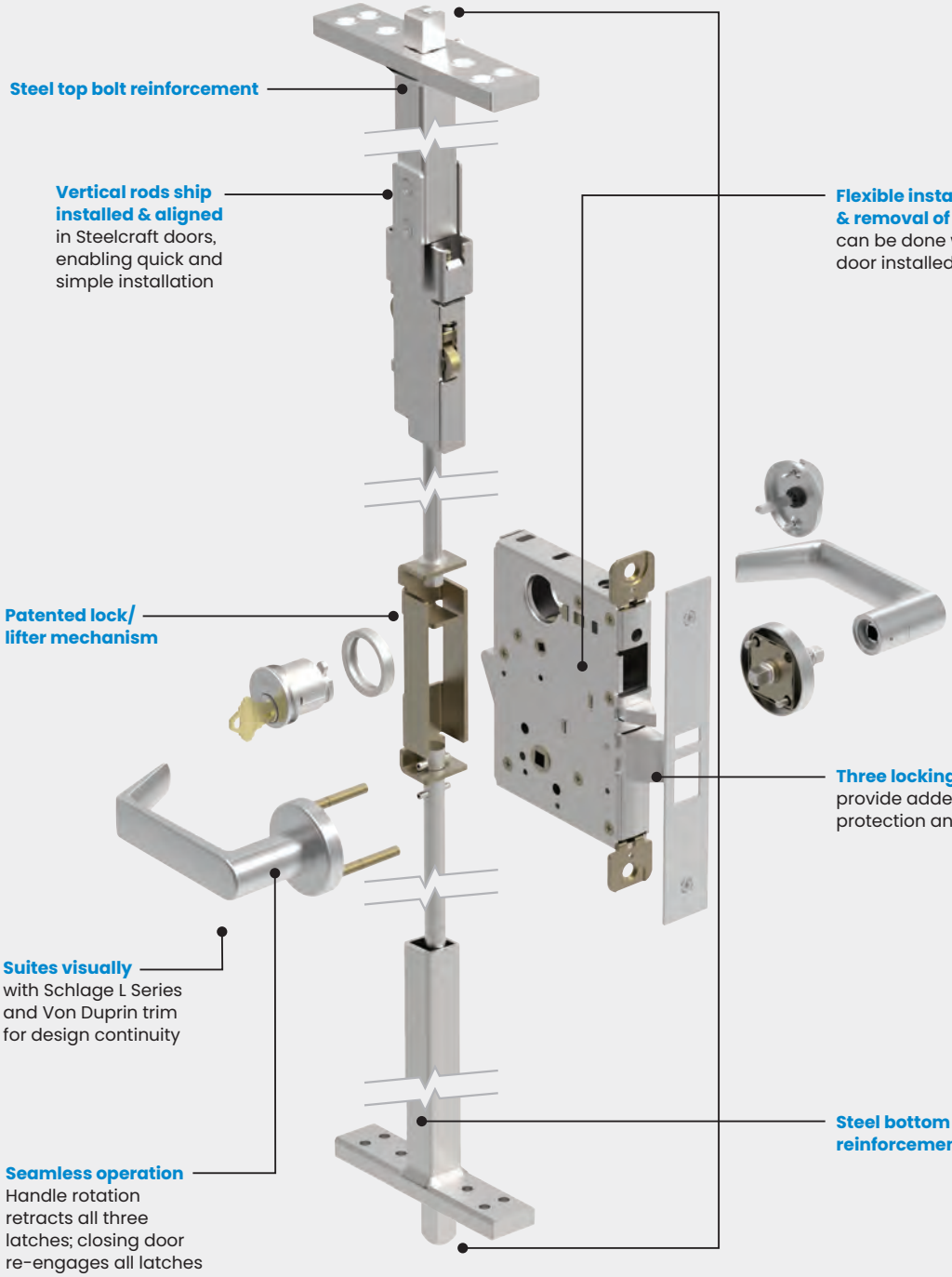
The LM9300 is part of a three-point locking system designed for tornado, hurricane or high security applications. Latches at the top, side and bottom of the door provide protection from high wind speeds and 15-lb. projectile impacts up to 100 mph when paired with a Steelcraft Paladin tornado-resistant door.

All three latches engage when the door is shut and retract simply by rotating the lever, providing superior protection with familiar operation. Available in six functions and with 33 lever designs, the LM9300 can easily integrate into any application and suite with other Schlage locks, as well as Von Duprin exit devices.

Features

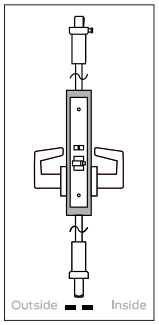
- Tornado configuration is certified by Intertek and labeled showing compliance to ICC 500-2020, FEMA P-320 (2021), and FEMA P-361 (2021) as required by the International Building Code and Florida Building Code Enhanced Protection Area (EHPA) standards when paired with appropriate Steelcraft doors
- Hurricane configuration complies with Florida Building Code Enhanced Protection Area (EHPA) standard when paired with Steelcraft Hurricane doors
- For high security applications, pair with Steelcraft steel-reinforced or honeycombed doors
- Also available for storm shutter configurations

LM9300 Multi-Point



Mechanical Functions

Schlage **ANSI**
LM9310 **-**

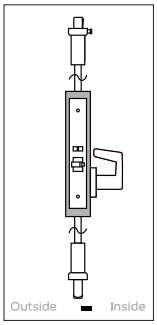


3-point passage latch

- Levers (or knobs) only-both sides; 3-point latch and deadlocking auxiliary latch
- Latchbolts retracted by lever from either side at all times
- Inside lever always free for immediate egress

Note: Requires door and rod set sold through Steelcraft.
When ordering, specify door handing.

Schlage **ANSI**
LM9325 **-**

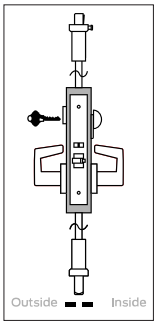


3-point exit lock

- No outside trim; lever (or knob) only-inside; 3-point latch and deadlocking auxiliary latch
- Latchbolts retracted by lever from inside only
- Inside lever always free for immediate egress

Note: Requires door and rod set sold through Steelcraft.
When ordering, specify door handing.

Schlage **ANSI**
LM/LMV9350 **-**



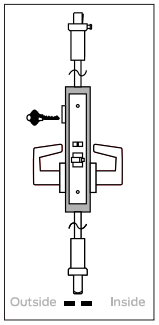
3-point entrance/ office lock



- Key cylinder outside; thumbturn inside; 3-point latch and deadlocking auxiliary latch
- Latchbolts retracted by lever (or knob) from either side
- Outside lever is made inoperative by key outside or by turning inside thumbturn; Vandlgard® option allows outside lever to rotate freely down while locked
- Key outside unlocks and enables outside lever to retract all three latches
- Rotating inside lever retracts latchbolts; outside lever unlocked when thumbturn is returned to vertical position
- Inside lever always free for immediate egress

Caution: Outside lever remains inoperative until thumbturn is returned to vertical or unlocked by key.
Note: Requires door and rod set sold through Steelcraft.
When ordering, specify door handing.

Schlage **ANSI**
LM/LMV9370 **-**



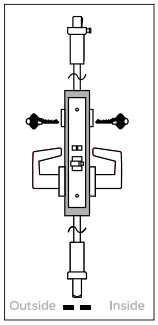
3-point classroom lock, exterior lockdown only



- Key cylinder outside with lever (or knob); lever only-inside; 3-point latch and deadlocking auxiliary latch
- Latchbolts retracted by lever from either side
- Outside lever is made inoperative by key outside; Vandlgard® option allows outside lever to rotate freely down while locked
- Key outside unlocks and enables outside lever to retract all three latches
- Inside lever always free for immediate egress

Note: Outside lever remains inoperative until unlocked by key.
Note: Requires door and rod set sold through Steelcraft.
When ordering, specify door handing.

Schlage **ANSI**
LM/LMV9371 **-**



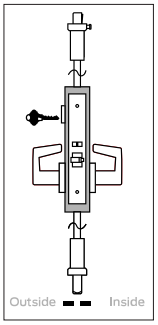
3-point classroom security lock, interior/ exterior lockdown



- Key cylinder both sides; 3-point latch and deadlocking auxiliary latch
- Latchbolts retracted by lever (or knob) from either side
- Outside lever is made inoperative by key either side; Vandlgard® option allows outside lever to rotate freely down while locked
- Key on either side unlocks and enables outside lever to retract all three latches
- Inside lever always free for immediate egress

Note: Outside lever remains inoperative until unlocked by key.
Note: Requires door and rod set sold through Steelcraft.
When ordering, specify door handing.

Schlage **ANSI**
LM/LMV9380 **-**



3-point storeroom lock

- Key cylinder outside with lever (or knob); lever only-inside; 3-point latch and deadlocking auxiliary latch
- Outside lever normally locked; latchbolts retracted by inside lever; Vandlgard® option allows outside lever to rotate freely down while locked
- Key outside inserted and turned 280° unlocks, allowing outside lever to retract latches; removal of key returns door to locked state
- Inside lever always free for immediate egress

Note: Requires door and rod set sold through Steelcraft.
When ordering, specify door handing.



Ensuring Mechanical & Electronic Security Continuity

In buildings where electronic access control is used, true security can only be effective if your key system plan accounts for doors where credential use is present. Most often, credential access exists on common area doors and perimeter entrances where limited key distribution is desired. Many facilities also have high security areas where credential use is beneficial.

Credentials are like keys in that they come with varying degrees of duplication control. Any facility employing high security where both keys and credentials are in use must ensure cohesive application of both. Because of this, the choice of credential should reflect the highest level of key system security in the building and vice versa.

Readers

Schlage's comprehensive portfolio of and wall mount readers are designed to provide enhanced levels of security, efficiency and convenience to any facility.



MTB11
Mullion

MTB15
Single gang

MTKB15
Keypad single gang



MT11
Mullion

MT15
Single gang

MTK15
Keypad single gang

MTM515
with magnetic stripe reader

MTMSK15
with magnetic stripe reader and keypad

Mobile Enabled Multi-Technology Readers:

- Compatible with Bluetooth® and NFC-open smartphones
- Supports a wide range of credential technologies including mobile Bluetooth and NFC, high-frequency smart and low-frequency proximity
- Eases transition from existing legacy system to secure smart technology or mobile solution
- Reader options available with keypad for high security applications
- OSDP, RS-485 and Wiegand support
- Reads proximity, Schlage MIFARE Classic®, Plus®, or DESFire® credentials

Multi-Technology Readers:

- Supports for both high-frequency smart and low-frequency proximity credentials
- Compatible with NFC-enabled mobile devices
- Enables migration from legacy platform to secure smart technology
- Reader options available with keypad for high security applications
- Wiegand and RS-485 support
- Reads proximity, Schlage MIFARE Classic®, Plus®, or DESFire® credentials



SM10
Mini-mullion

Smart (13.56 MHz) Technology Reader:

- Advanced contactless technology, more secure than magnetic stripe and proximity options
- Advanced data encryption secures against duplication
- Recommended for new systems
- Open platform, designed to work with a wide array of systems and applications beyond access control
- SM10 reader features a Wiegand or Clock and Data interface
- Reads proximity, Schlage MIFARE Classic®, Plus®, or DESFire® credentials



PR10
Mini-mullion

Proximity (125 kHz) Technology Reader:

- Basic open contactless technology; recommended for legacy systems only
- Encoded with a unique number that cannot be updated or changed
- PR10 is a Wiegand interface, single technology proximity reader

Credentials

With the latest in NFC and Bluetooth® mobile, as well as smart, multi-technology and proximity technologies, Schlage offers a credential solution for every budget and security strategy.



Mobile Credentials:

- Schlage offers both Bluetooth® and NFC mobile credentials which provide different user experiences
- Schlage Mobile Bluetooth® Credentials require the user to tap on a specific door in an app and are commonly used in small businesses or multifamily sites
- NFC credentials provide a frictionless experience through the Apple Wallet® or Google Wallet™ and are ideal for higher education or corporate settings
- Mobile credentials require software integration, please confirm support with your PACS or Proptech provider



Multi-Technology MIFARE® Credentials:

- Available with MIFARE Classic® and MIFARE® DESFire®
- Multi-technology options available to support transition from proximity or magnetic stripe to secure MIFARE® or MIFARE® DESFire®
- Compatible with Schlage and other industry manufacturers' readers and electronic locks
- Form factors include ISO and clamshell cards, fobs, PVC disks, and wristbands
- Available in multiple memory capacities



Proximity Credentials:

- 125 kHz proximity technology
- Available in ISO style cards with or without a magnetic stripe, clamshell style cards, keyfobs or PVC adhesive disks

Schlage Credential Services provide unique advantages with programs designed to help businesses thrive and make doing business easier. Our services include CardTrax™, custom encryption keys, custom artwork and more.

Scan or click the link below to check out Credential Services

Power Supplies



Schlage power supplies are designed for speed and ease of installation upfront with the assurance post installation of the highest quality output in terms of even power flow to protect downstream devices.

Engineered with versatility and reliability in mind, they can be factory ordered to meet specific needs or configured in-field using a wide selection of option boards. The use of separate battery management ensures tight output power regulation to protect downstream devices. The series includes three models: PS902, PS904 and PS906. They vary by total amperage output capability, ranging from 2 to 6 amps.



Overtur™ Key System Management

A key system is a critical investment in the security of any facility or campus. Safeguarding its integrity requires more than the use of restricted key products and a well-designed master key plan—it takes meticulous tracking of key issuances and returns. While effective management is essential, it doesn't have to be time-consuming or complicated. Overtur™ Key System Management offers a smarter, more efficient solution for managing even the most complex systems with ease.

Getting Started Costs Nothing

Made for security professionals, the Overtur digital platform supports the design, construction, and long-term management of door security systems. Accessible via web or mobile app, it provides intuitive tools for creating, collaborating on, and maintaining key systems.

Learn more at www.OverturKey.com

Subscription Options Simplify Key System Management

Paper-based or ad hoc tracking methods often lack the convenience of cloud access, making it easy to lose visibility—and costly should a master key go missing. Overtur Key System Management subscriptions, available through door hardware distributors, offer powerful user-friendly, digital tools for managing bitting, pinning and the tracking of keys and key rings. Features include on-demand bitting lists and pinning charts, next available change key information, customizable reports, and digital storage of key holder agreements.

Cylinders & Key Systems

A strong lock is only part of the security solution—proper levels of key system security is equally important. Schlage offers extensive options to meet the needs of each opening and enables a cost-saving layered approach to key system security.

Cylinders



Conventional Mortise Cylinder Options[1]

- 6-pin length (default)
- 7-pin length in SL cylinder
- Available in Schlage Classic and Everest 29™ open and restricted keyways
- Primus® level security features and geographic exclusivity options
- Primus UL 437 listed high security cylinder options
- Faculty restroom function available



Full Size Interchangeable Core (FSIC) Options[1]

- 6-pin length (default)
- 7-pin length in SL cylinder
- Available in Schlage Classic and Everest 29 open and restricted keyways
- Interchangeable core compatible with conventional cylinder key systems
- Primus level security features and geographic exclusivity options



Small Format Interchangeable Core (SFIC) Options[1]

- 7-pin combinated Everest 29 R restricted keyways[2]
- SFIC Everest 29 R keyway can be matched in SL versions of Conventional and FSIC cylinder formats

Key Systems

Classic Obverse Keyway

- Open keyway—keys are duplicated and available without ordering formalities
- Upgradeable to Primus RP and UL 437 levels of security

Everest 29

- Patented through 2029
- Available restricted keyway families provide a higher level of administrative security
- Can be integrated to an existing Everest B, C, or D key system
- Upgradeable to Primus XP and UL 437 levels of security

Cylinder Mechanism Options

Primus Cylinders

- Independent, dual locking mechanisms
- Unique side bit milling on key makes unauthorized duplication highly enforceable
- Allows creation of geographically exclusive keys in thousands of available combinations
- Provides patent protection to 2029 when applied to Schlage Classic Obverse keyway family
- Primus XP cylinders are compatible to all Everest and Everest 29 keyways

Everest 29 SL

- Available in Conventional and FSIC cylinder formats
- Pinned on an A2 system compatible with the Schlage Everest B and Everest 29 R keyways
- Allows sites with multiple Schlage key systems to unify under one system offered in Conventional, FSIC and SFIC formats
- Enables Primus level upgrades on SFIC keyways



1. Plug faces available in 606, 613 (simulated), 626, and 643e (simulated).
2. Restricted keyway cores require authorization from the end user.

Administrative Security

Primus® geographically exclusive side bit milling options

Schlage Everest 29™

Schlage Classic Obverse			
	End user exclusive nationwide	4N	9N
	End user exclusive within time zone/country	4Z	9Z
	End user exclusive within zip code	3G	9G
	End user controlled; non-exclusive	3U	9U
	Dealer exclusive within time zone/country	2	8
	Dealer exclusive within zip code	1+	7
	Authorized dealer only; non-exclusive	1	





End user controlled; non-exclusive

Authorized dealer only

No authorization



OPEN
Schlage Classic Obverse
FSIC and Conventional

- Duplicate anywhere



OPEN
Schlage Everest 29 S
FSIC and Conventional

- Patented design
- Check pin in cylinder



RESTRICTED
Schlage Everest 29 R[1]
SFIC, FSIC[2] and Conventional[2]
Schlage Everest 29 T
FSIC and Conventional

- Requires letter of authorization
- Patented design
- Check pin in cylinder

Primus RP RESTRICTED
Schlage Classic Obverse
FSIC and Conventional

- 5 levels of side bit milling exclusivity
- Patent protection to 2029
- Independent sidebar and finger pin locking mechanisms

Primus XP RESTRICTED
Schlage Everest 29 R
FSIC[2] and Conventional[2]
Schlage Everest 29 S or T
FSIC and Conventional

- 5 levels of side bit milling exclusivity
- Patent protection to 2029
- Independent sidebar and finger pin locking mechanisms

Primus UL 437 Option
Schlage Classic Obverse
Conventional
Schlage Everest 29 R
Conventional SL
Schlage Everest 29 S or T
Conventional

- Hardened steel drill pins
- Proven pick and drill resistant
- Withstands extreme physical attack

Physical Security

COMPARABLE ELECTRONIC SECURITY – Ensure your credential is a secure as your keyway

Proximity Credentials
- Low frequency, entry level proximity cards
- Easily duplicated

MIFARE Classic® Smart Credentials
- Legacy smart card technology
- Difficult to duplicate

MIFARE® DESFire® Smart Credentials
- Advanced data encryption makes duplication nearly impossible
- Most secure credentials available from Schlage

1. Limited dealer controlled programs available.
2. FSIC and Conventional in the form of SL cylinders that accept a 7-pin SFIC key.
3. UL 437 available on Primus XP SL cylinders in the conventional format only.

Primus Access Control & High Security Cylinders

The Primus program of access control and high security cylinders is available to add patented key control and varying degrees of geographical exclusivity to most Schlage 6- and 7-pin key systems, whether Everest, Everest 29, or Classic Obverse keyways. In addition to a standard pin tumbler mechanism, Primus cylinders incorporate a patented finger pin and sidebar design, providing a "dual-locking" cylinder that is virtually pick-proof. For added resistance to drilling and other physical attack, specify UL 437 listed high-security cylinders.

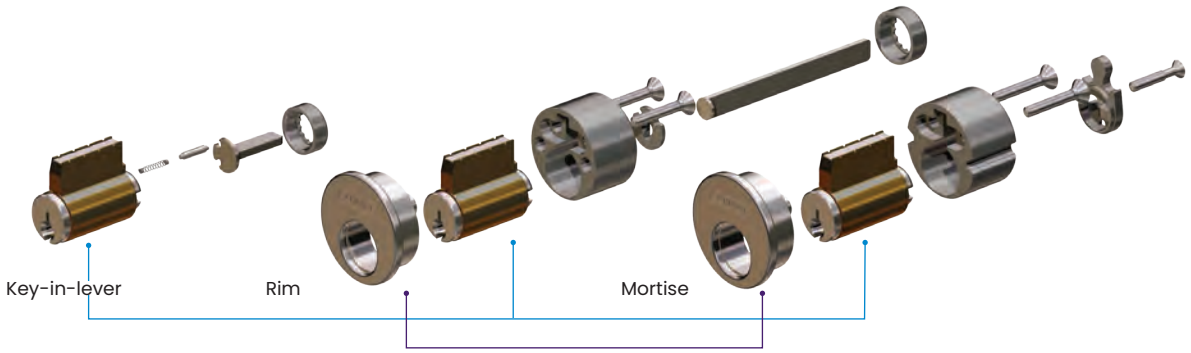
To upgrade an existing Schlage C open keyway system, a changeover to Classic Obverse Primus RP cylinders on critical points of entry is recommended. With it you gain patent protection against unauthorized key duplication to 2029 and Primus administrative and physical security levels. Everest 29 Primus XP cylinders are recommended for new key systems and for upgrading existing Everest legacy key systems.

Modular, Conventional Cylinder System Uses

Schlage Conventional cylinders offer versatility through modular design. These full-size cylinders can be applied to any Schlage key-in-lever (KIL), rim or mortise need. For the locksmith or facility manager inventory costs are reduced while gaining a flexible, easy-to-manage key system solution.

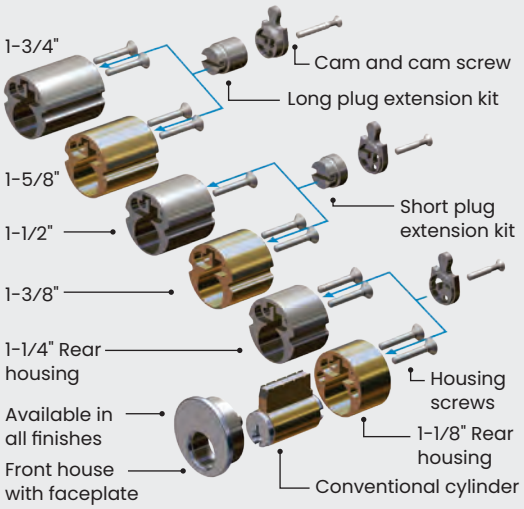
Features:

- Modular system design is compatible with all Schlage conventional cylinders including 7-pin SL options
- Just six mortise housing lengths and one rim housing support a single front housing faceplate design
- Supports all Classic, Everest, and Everest 29 keyway families
- Rear mortise cylinder housing sizes range from 1-1/8" to 1-3/4"
- 12 mortise housing face finishes match all available L Series options



Parts

Modular cylinders use fewer parts because the cylinder and a small number of screws, cams and plug extensions can be universally applied. The majority of parts are simply the rear housings in various lengths and finishes.

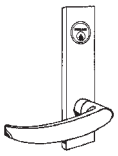


Mortise & Rim Front Housing Finish Options

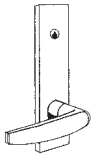


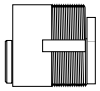
605 Bright Brass	606 Satin Brass	609 Antique Brass	612 Satin Bronze	613 Oil Rubbed Bronze	619 Satin Nickel	622 Matte Black	625 Bright Chrome	626 Satin Chrome	629 Bright Stainless Steel	630 Satin Stainless Steel	643e Aged Bronze

Mortise Cylinders for Schlage L Series

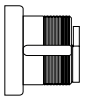

L & N Escutcheons


Cylinder only


L escutcheon


Concealed body cylinder


Sectional trim


Compression ring & spring

L Series Mortise Locksets

Design	Function	Standard pin & tumbler	SL cylinder[1]	Legacy Primus Primus RP Primus XP	Primus XP SL cylinder[1]	UL 437 Legacy Primus Primus RP Primus XP	Primus XP lockout	Primus XP UL 437 lockout
L & N Escutcheons (cylinder only)	All except below	30-021	91-063	20-793 20-793-RP 20-793-XP	91-760-XP	20-593 20-593-RP 20-593-XP	N/A	N/A
	L9060P outside	26-021	91-059	20-701 20-701-RP 20-701-XP	91-754-XP	20-501 20-501-RP 20-501-XP	20-715-XP	20-515-XP
	L9485, L9486 Faculty restroom	30-022[2]	N/A	N/A	N/A	N/A	N/A	N/A
	LM9280, LM/LMV9380 storeroom	30-019	91-130 (1-1/8") Requires Handing	N/A	N/A	N/A	N/A	N/A
L escutcheon with concealed body cylinder	All except below	30-004	N/A	20-789 20-789-RP 20-789-XP	N/A	20-589 20-589-RP 20-589-XP	N/A	N/A
	L9060P outside	26-023	N/A	24-767 24-767-RP 24-767-XP	N/A	24-567 24-567-RP 24-567-XP	N/A	N/A
	L9485, L9486 Faculty restroom	30-005[2]	N/A	N/A	N/A	N/A	N/A	N/A
Sectional trim (cylinder with compression ring & spring)	All except below	30-001	91-062	20-787 20-787-RP 20-787-XP	91-757-XP	20-587 20-587-RP 20-587-XP	20-715-XP	20-515-XP
	L9060P outside	20-001	91-051	20-700 20-700-RP 20-700-XP	91-751-XP	20-500 20-500-RP 20-500-XP	20-715-XP	20-515-XP
	L9485, L9486 Faculty restroom	30-002[2]	N/A	N/A	N/A	N/A	N/A	N/A
	LM9280, LM/LMV9380 storeroom	30-000[4]	91-129 (1-1/8")	N/A	N/A	N/A	N/A	N/A

Notes:

1. For restricted Everest 29 R and Everest B only.
2. Specify door hand for faculty restroom cylinders.
3. Discard compression ring for Lockout cylinders with escutcheon trim.
4. Includes the L/LV9081 Accessible Storeroom function.

Finishes: 605, 606, 611, 612, 613, 619, 622, 625, 626, 629 and 630. Concealed cylinders available in 606, 622, 626 and 643e only. Plug faces available in 606, 622, 626 and 643e only.

6-pin Everest 29 S123 keyway standard for stock cylinders; S145 standard for new masterkeyed systems.

Standard cylinder lengths: sectionals (rose) trim = 1-1/8" (29 mm), escutcheon trim = 1-1/4" (32 mm).

Optional cylinder lengths are in 1/8" (4 mm) increments ranging from 1-1/8" to 1-3/4" (29 mm to 44 mm).

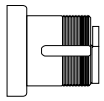
FSIC Mortise Cylinders

Schlage full size interchangeable core (IC) cylinders allow immediate rekeying at the door. Simply use the special control key to replace the core in seconds. Full size IC cylinders can be integrated into any existing 5- or 6-pin Schlage key system with no adverse effects on keying capacity.





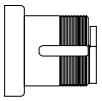
L & N escutcheons (cylinders with compression ring)



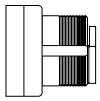
Compression ring & spring



Sectional trim (cylinder with compression ring, spring and 3/8" blocking ring)



Compression ring and spring



With blocking ring

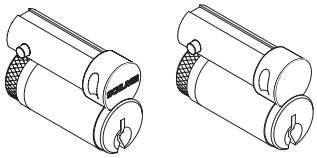
FSIC Cylinders for Schlage L Series Mortise Locks

Design	Function	Core mechanism				
		Standard pin & tumbler	SL cylinder[1]	Legacy Primus / Primus RP / Primus XP	Primus XP SL cylinder[1]	Housing less core
L & N escutcheons (cylinders with compression ring)	All except below	30-008	91-163	20-798 20-798-RP 20-798-XP	91-863-XP	30-007
	L9060 outside	30-030	91-165	20-782 20-782-RP 20-782-XP	91-865-XP	30-032 + 36-083
	L9485, L9486 faculty restroom	30-010[2]	N/A	N/A	N/A	N/A
	L/LV9081, LM9280, LM/LMV9380	26-101[2]	N/A	N/A	N/A	26-102
Sectional trim (cylinder with compression ring, spring and 3/8" blocking ring). L9060 requires 1/2" blocking ring.	All except below	30-138	91-169	20-776 20-776-RP 20-776-XP	91-869-XP	30-137
	L9060 outside	30-030 + 36-082-050[3]	91-165 + 36-082-050[3]	20-783 20-783-RP 20-783-XP	91-865-XP + 36-082-050[3]	30-032 + 36-083 + 36-082-050[3]
	L9485, L9486 faculty restroom	30-140[2]	N/A	N/A	N/A	N/A
	L/LV9081, LM9280, LM/LMV9380	26-101[2] + 36-082-037[4]	N/A	N/A	N/A	26-102 + 36-082-037[4]

1. For restricted Everest 29 R and Everest B only.
2. Specify hand of door.
3. L9060 requires a 1/2" blocking ring (part 36-082-050).
4. LM9280, LM/LMV9380 and L/LV9081 require a 3/8" blocking ring (part 36-082-037).

FSIC, Core Only, Cylinders

Number	Pins	Cylinder mechanism
23-030	6	Standard pin and tumbler (23-031 less logo)
91-161	7	SL cylinder (restricted Everest 29 R and Everest B only) (91-162 less logo)
20-740	6	Legacy Primus (20-741 less logo)
20-740-RP	6	Primus RP (Classic keyways only) (20-741-RP less logo)
20-740-XP	6	Primus XP (20-741-XP less logo)
91-861-XP	7	SL cylinder (restricted Everest 29 R and Everest B only) (91-862-XP less logo)
30-120	6	Faculty restroom standard pin and tumbler (specify hand) (30-121 less logo)



Finishes: 606, 622, 626 and 643e only.

Standard keyway: 6-pin Everest 29 S123 for stock, S145 for new master key systems.

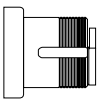
SFIC Mortise Cylinders

The L Series lockset can be ordered to accept small format interchangeable cores (SFIC) compatible with manufacturers such as Falcon, Arrow and Best; cams are easily changeable.





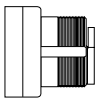
L & N escutcheons (cylinders with compression ring)



Compression ring & spring



Sectional trim (cylinder with compression ring, spring and 1/4" blocking ring)



With blocking ring

SFIC Cylinders for Schlage L Series Mortise Locks

Design	Function	Core mechanism			
		Everest 29R restricted (G7 suffix)	**Keyed construction (H suffix)**	**Disposable construction (BDC suffix)**	**Housing less core (B suffix)**
L & N escutcheons (cylinders with compression ring and spring)	All except L9060 outside	80-308	80-138	80-115	80-108[1]
	L9060 outside	80-304	80-134	80-112	80-104[1]
	LM9280, LM/LMV9380, L/LV9081	26-106	26-107	27-105	26-104[1]
Sectional trim (cylinder with compression ring, spring and 1/4" blocking ring)	All except L9060 outside	80-301	80-131	80-109	80-101[1]
	L9060 outside	80-304 + 36-082-050[1]	80-134 + 36-082-050	80-112 + 36-082-050	80-104 + 36-082-050[1]
	LM9280, LM/LMV9380, L/LV9081	26-104 + 36-082-025[2]	26-107 + 36-082-025[2]	27-105 + 36-082-025[2]	26-104 + 36-082-025[1, 2]

Note: Housings are available in 605, 606, 609, 612, 613, 619, 625, and 626 finish. Cores furnished 606 and 626 only. All cylinders are 1-3/8" long.

1. L9060 requires a 1/2" blocking ring (part 36-082-050).
2. L/LV9081, LM9280, LM/LMV9380 require a 1/4" blocking ring (part 36-082-025).

Small Format Core Only

Number	Mechanism
80-036	7-pin Everest 29 R family restricted keyway core uncombinated
80-037	7-pin Everest 29 R family restricted keyway core combinated (available factory master keyed only)
80-043	6-pin best keyway core, uncombinated
80-033	7-pin best keyway core, uncombinated



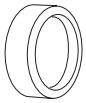
Notes

1. Available in 606, 613, 622, and 626 finish only. 80-043 and 80-033 available in 606 and 626 only.
2. Suffix keyway, e.g. 80-036 B235, 80-043 AB, etc.
3. Proper authorization required for Everest 29 cores. Order control keys separately.
4. 80-043 and 80-033 available in Best A, D, E, F, G, H, J, K, L and M keyways. Suffix "B" to keyway letter, e.g. AB, DB, etc.

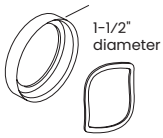
Blocking & Compression Rings



36-079
Blocking ring. Specify finish and dimension. Not to be used with 36-083.



36-082
Blocking ring. Specify finish and dimension. Use with 36-083.



36-083
Compression ring and spring. Specify finish and dimension.



L538-195
Compression spring.

Blocking Ring Dimensions

Ring length	Dimension
1/8"	012
3/16"	018
1/4"	025
5/16"	031
3/8"	037
7/16"	043
1/2"	050

FSIC Core Blocking Ring Requirements

Function	Trim	Door thickness			
		1-3/8"	1-3/4"	2"	2-1/4"
		Dimension			
L9050, L9056, L9070, L9076, L9080, L9092EL/EU, L9453, L9456, L9460 with XL11-886 or XL11-635, L9464 with XL11-886, L9465, L9473, L9480	Rose	050	037	025	025
	Escutcheon	025	012	N/A	N/A
L9485 with XL11-557	Rose	—	037	025	025
	Escutcheon	—	012	N/A	N/A
L9486, L9496	Rose	012	N/A	N/A	N/A
	Escutcheon	025	012	N/A	N/A
L9060, L9071, L9077, L9082, L9457, L9462 with XL11-886, L9466, L9482	Rose	—	050	043	031
	Escutcheon	025	012	N/A	N/A
L460, L464, L496, L9460, L9464	Rose trim	050	037	025	025
L462, L463, L9462, L9463	Rose trim	—	050	043	031

SFIC Blocking Ring Requirements

Function	Trim	Door thickness			
		1-3/8"	1-3/4"	2"	2-1/4"
		Dimension			
L9050, L9056, L9070, L9076, L9080, L9092EL/EU, L9453, L9456, L9460 with XL11-886 or XL11-635, L9464 with XL11-886, L9465, L9473, L9480	Rose	037	025	012	N/A
	Escutcheon	N/A	N/A	N/A	N/A
L9060, L9071, L9077, L9082, L9095EL/EU, L9457, L9462 with XL11-886, L9464, L9466, L9482	Rose	—	050	037	025
	Escutcheon	018	N/A	N/A	N/A
L9496	Rose	025	012	N/A	N/A
	Escutcheon	N/A	N/A	N/A	N/A
L460, L464, L496, L9460, L9464	Rose trim	037	025	012	N/A
L462, L463, L9462, L9463	Rose trim	—	050	037	025

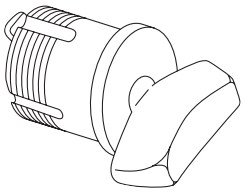
Parts

These cylinders are for L463 and L9463 classroom function deadlocks. They are handed. They have a rotational stop in one direction to prevent locking from the inside, but allow unlocking. Cylinders are field-reversible by changing the position of the rotational stop. All cylinders furnished with L583-254 cam.

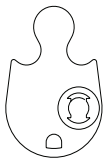
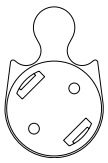
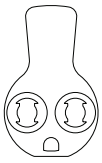
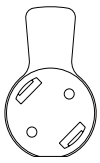
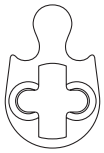
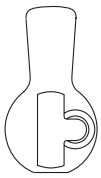
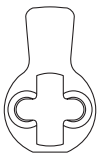
Classroom Thumbturn Cylinders

Number	Collar(s)
09-900	None
09-904	Compression ring and spring
09-905	For 1-3/4" doors: compression ring, spring and 1/8" blocking ring

Specify hand of door and finish. 1-1/8" length standard.
09-900 and 09-905 also available in 1/8" increments up to 1-3/4".



Mortise Cylinder Cams

	Schlage L Series functions (except L9060 outside)			**Von Duprin and other straight cam applications** (including Schlage L9060 outside)		
Current modular cylinder cams	 **L583-474** For cylinder lengths: 1-1/8", 1-3/8", 1-5/8" **L583-475** For cylinder lengths: 1-1/4", 1-1/2", 1-3/4"	 **L583-800** For SL cylinder length: 1-1/8" **L583-801** For SL cylinder length: 1-1/4"	 **L583-255** All IC	 **L583-476** For cylinder lengths: 1-1/8", 1-3/8", 1-5/8" **L583-477** For cylinder lengths: 1-1/4", 1-1/2", 1-3/4"	 **L583-802** For SL cylinder length: 1-1/8" **L583-803** For SL cylinder length: 1-1/4"	 **K510-680** All IC
Legacy cams	 **L583-153** Everest and Primus*	 **L583-254** Classic keyways*		 **B502-948** Everest and Primus*	 **B502-191** Classic keyways*	

* For cylinders made prior to August 2010

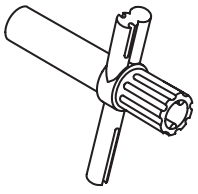
Cam Screws

B502-942	Everest and Primus (non-IC)
B502-468	Classic Conventional (non-IC)
L583-333	All full-size interchangeable core
B520-484	All small format interchangeable core
B520-690	All 1-1/8" and 1-1/4" modular cylinders



IC Installation Tool

This tool is used to install and remove mortise cylinder housings and test mortise cylinder cam action for both small format and full-size interchangeable core cylinders. Its other ends are designed to install the driver and retainer for full-size IC in Schlage key-in-knob/lever locksets.



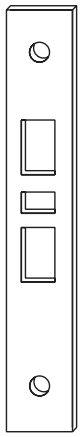
M504-413

Parts

L Series armored fronts are produced from brass or stainless steel material, finished to match lock trim and furnished complete with screws. Numbers for ordering separately or with locks are listed below. Armored fronts are specified in latch column of order form.

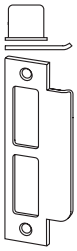
Armored Fronts		
Square corner		For locks with these configurations:
1-1/4" (32mm) width	1-1/16" (27mm) width	
09-662	09-668	Latch only
09-663	09-669	Latch x auxiliary latch
09-664	09-670	Latch x deadbolt
09-665	09-671	Deadbolt only
09-666	09-672	Latch x auxiliary latch x deadbolt
09-661	09-667	Blank (no holes)
09-713	–	Latch x auxiliary latch, non-UL (holdback functions L/LV9076 and L/LV9077)
09-717	–	Deadbolt only, small mortise case

Note: For 1-3/8" (35mm) doors, 1-1/16" (27mm) front should be specified. See price book for complete list.
For L9090, L9091, L9092, L9093, L9095 models with DPS, use armor 09-666 (1-1/4" wide) or 09-670 (1-1/16" wide).

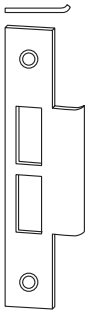


Standard square corner
1-1/4" (32 mm) width

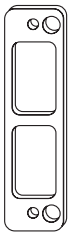
All L Series strikes are produced from brass or stainless steel material, finished to match lock trim, and furnished complete with screws. Numbers for ordering separately or with locks are listed below.



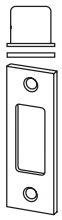
10-072
Standard for L9000
1-1/4" x 4-7/8" x 1-3/16" lip
32 mm x 124 mm x 30 mm



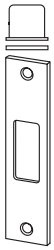
10-091
Armored front strike
1-3/4" x 8" x 1-3/16" lip
32 mm x 203 mm x 30 mm



37-015
Wood frame reinforcer



10-079
Standard for L400
1-1/8" x 3-1/2"
32 mm x 89 mm



10-078
Optional for L400
1-1/4" x 4-7/8"
32 mm x 124 mm

Strikes		
Number	Lip length	Description
10-072	1-3/16" (30mm)	L9000 standard
	7/8" (22mm), 1" (25mm), 1-1/2" (38mm), 1-3/4" (44mm), 2" (51mm)	L9000 optional
10-073	No lip	L9460 Series deadlocks; deadbolt strike, standard
10-075	No lip	1/2" (13mm) rabbeted (use with 1-1/16" (27mm) armor)
10-078	No lip	1-1/4" x 4-7/8" with box, L400 optional
10-079	No lip	1-1/8" x 3-1/2" with box, L400 standard
10-091*	1-3/16" (30mm)	Armored front strike, no box
K510-053	–	Strike box for 10-079
K10-066	–	Strike box, all except 10-079

*Specify hand of inactive leaf.

How to Order

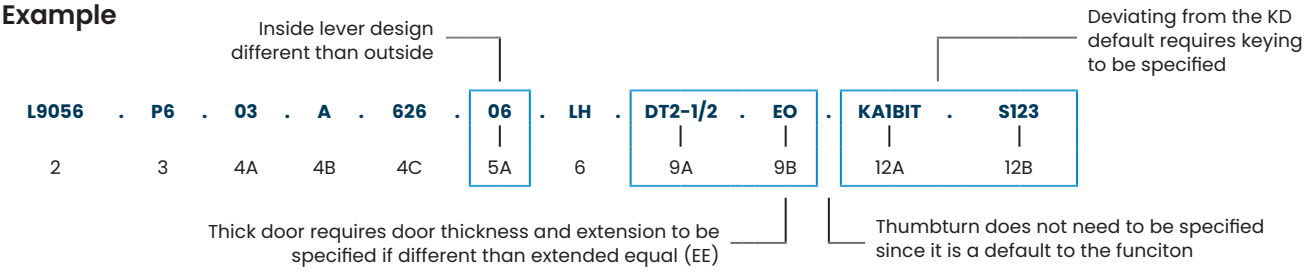
L Series Ordering Instructions

To order Schlage products, descriptive data should be in the same sequence as shown:

	Required for all lock orders																										
			Outside style			Inside style						Door dimensions			Lock monitoring				Options						Keying		
Brand	Series + Function	Cylinder type (keyed funcitons only)	Outside lever/knob design	Outside rose/escutcheon	Outside finish	Inside lever/knob design	Inside rose/escutcheon	Inside finish	Handing	Armor front	Strike	Door thickness	Extended	Strike lip length	Request to Exit (RX)	Latchbolt monitor (LX)	Door position sensor (DPS)	Deadbolt monitor (DM)	Indicator	Basic or large ADA thumbturn	Screw option	Lead lining	Special options (X numbers)	Buy American Act compliant	Keying code	Keyway	Pack keys independently
1	2	3	4A	4B	4C	5A	5B	5C	6	7	8	9A	9B	9C	10A	10B	10C	10D	11A	11B	11C	11D	11E	11F	12A	12B	12C

Detail		
1	Brand	Required only when specifying a product Less (LLL) any attribute.
2	Series + Function	L (default) or LV (Vandlgard if available) + function choice from list
3	Cylinder type	For keyed functions only: **Conventional** **P6** 6-pin cylinder (default) **P** 6-pin cylinder, keyed 5 **Z** Everest SL cylinder, 7-pin **L** Less cylinder **C** Concealed mortise, 6-pin/ keyed 5 **C6** Concealed mortise, 6-pin **W** Less concealed mortise cylinder **FSIC - Full size interchangeable core** **R** FSIC, 6-pin **T** FSIC – Construction Core **M** Everest SL - FSIC, 7-pin **J** Less FSIC **F** FSIC, 6-pin less Schlage logo **T** Refundable Construction FSIC **SFIC - Small format interchangeable core** **G** SFIC 7-pin **H** Refundable Construction SFIC **BDC** Disposable Construction SFIC **B** Less SFIC
4	Outside style	**4A:** input lever or knob code; **4B:** input rose or escutcheon code; **4C:** input ANSI finish code
5	Inside style	Specify only if different than outside style
6	Handing	Add only when handing must be specified (Lever designs: 12, Accent, Asti, Merano, M61, M62, M63, and M85)
7	Armor front	Specify only attributes that deviate from these defaults: L/LV9000: 1-1/4" x 8"; L400: 1-1/4" x 5-9/16"
8	Strike	Specify only attributes that deviate from these defaults: L/LV9000: 1-1/4" x 4-7/8" square corner, 1-3/16" lip, box; or L400: 1-1/8" x 3-5/8" square corner, box
9	Door dimensions	Specify only attributes that deviate from these defaults: **9A:** 1-3/4" thickness; **9B:** Extended equally (EE); **9C:** 1-3/16" lip
10	Lock monitoring	Available only on specific functions. Note that some EL/EU functions are available with one or more monitor options. L9492, 9493, 9494, 9495 come standard with deadbolt monitor (DM).
11	Options	**11A/11B:** input part number; **11C:** specify TORX; **11D:** L/LV9000 specify XL11-515, L400 specify XL12-216; **11E:** special options include unlisted functional options, latchbolt insert and deadbolt only armor front. Specify by part number. **11F:** Specify BAA.
12	Keying	**12A:** specify only if different from default of Keyed Different (KD); **12B:** specify only if different from default of Everest 29 S123 (Conventional and FSIC cylinders) or, if master keyed, Everest 29 S145 (Conventional and FSIC) and R125 (SFIC)

Example



LE Wireless Electronic Lock Ordering Instructions

LEB - MS - GRW - P6 - 07 - 626 - 00A - 17 - 612 - 00A - LH - 10-136 - 134 - S123

				Outside			Inside (optional)							
Series	Chassis/ function	Style	Cylinder Type	Lever Style	Finish	Rose (GRW only)	Lever Style	Finish	Rose (GRW only)	Handing	Strike Lip	Door Thickness	Key System	Additional Options
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Selections correspond with the numbers above. See price book for specific configuration options.

Detail		
1	Series	Specify **LEB** (mobile enabled wireless lock); **LEBSi** (mobile enabled wireless lock with HID® credential support)
2	Chassis	Specify **MS** (mortise with LED indicator); **MB** (mortise with interior push button and LED); **MD** (mortise deadbolt with LED)
3	Style	Specify **GRW** for Greenwich sectional; **ADD** for Addison escutcheon
4	Cylinder type	**Conventional** **P6** 6-pin cylinder (default) **Z** Everest SL cylinder, 7 pin **L** Less cylinder **FSIC - Full size interchangeable core** **R** FSIC, 6-pin **J** Less FSIC **T** FSIC – Construction Core **SFIC - Best® Style, Small format interchangeable core** **G** SFIC 7-pin **B** Less SFIC **H** Refundable Construction SFIC **BDC** Disposable Construction SFIC
5	Outside lever style	Input lever or knob code
6	Outside finish	Input ANSI finish code
7	Outside rose	Specify for Greenwich sectional only; input rose code
8	Inside lever style	Specify only if different than outside style
9	Inside finish	Specify only if different than outside finish
10	Inside rose	Specify only if different than outside rose
11	Handing	Add only when handing must be specified (Lever designs: 12, Accent, Asti, Merano, M61, M62, M63, & M85)
12	Strike plate/lip length	Specify only attributes that deviate from these defaults: 1-1/4" x 4-7/8" Square corner, 1-3/16" lip
13	Door thickness	Specify only attributes that deviate from these defaults: 1-3/4" thickness; Extended equally (EE)
14	Keyway	Specify only if different from these defaults: Keyed Different (KD); Everest 29 S123 (Conventional and FSIC cylinders) or, if master keyed, Everest 29 S145 (Conventional and FSIC) and R125 (SFIC)
15	Additional options	

Mechanical Product Specifications

	L Mechanical & L Wired Electrified	LM9200	LM9300
Chassis			
Case material	Cold Rolled Steel (CRS) with zinc dichromate plating		
Case size	**L9000 Series**: 4-7/16" x 6-1/16" x 1" (113 mm x 154 mm x 25 mm) **L400 Series:** 4-7/16" x 3-5/8" x 1" (113 mm x 92 mm x 25 mm)	4-7/16" x 12-19/32" X 1" (113 mm x 320 mm x 25 mm)	4-7/16" x 6-1/16" x 1" (113 mm x 154 mm x 25 mm)
Spacing	Knob or lever to cylinder: 3-7/8" (98 mm); knob or lever to thumbturn hub: 2-11/16" (68 mm)		
Door thickness	Standard: 1-3/4" (44 mm) Optional: 1-3/8" (35 mm) Over 1-3/4" specify door thickness and position in door EE, EI, EO, ED	Standard: 1-3/4" (44 mm) Over 1-3/4" specify door thickness and position in door EE, EI, EO, ED	Standard: 1-3/4" (44 mm)
Backset	2-3/4" (70 mm) only		
Handing	**L9000 Series:** Field-reversible **L400 Series:** Non-handed	Handed to order, field reversible	Handed to order, not field reversible
Trim			
Levers/knobs	33 lever designs (see pages 10-13): Forged brass and cast stainless steel Two knob designs (see page 13): Heavy-duty wrought brass or stainless steel (not available for LM9200) Tactile warning applied to outside lever; available on 01, 02, 03, 05, 06, 07, 12, 17, 18, M51, M52, M81, ME1, ME2, ME3 lever designs		
Health care trims	Ligature resistant lever (SL1) and knob (SK1) High Security Ligature Resistant (HSLR) trim HL6 hospital latch	—	—
Roses/ escutcheons	**L escutcheons:** 7-15/16" x 1-3/4" x 7/16" (202 mm x 44 mm x 11 mm); cold-forged brass and stainless steel **N escutcheons:** 7-7/8" x 2-1/2" x 7/16" (200 mm x 64 mm x 11 mm); heavy-wrought, reinforced brass and stainless steel **Roses:** A, B, C: wrought brass and stainless steel; AVA and MER: forged brass		
Finishes	14 available: 605, 606, 609, 612, 613, 619, 622, 625, 626, 626AM, 629, 630, 630AM, 643e		
Combinations	Combinations of available levers and/or knobs allowed. Roses cannot be combined with escutcheons.		
Latches, Armors & Strikes			
Armor	**L9000 Series** Standard: 1-1/4" x 8" x 7/32" (32 mm x 203 mm x 6 mm) Optional: 1-1/16" x 8" x 7/32" (27 mm x 203 mm x 6 mm) **L400 Series** 1-1/4" x 5-9/16" x 7/32" (32 mm x 141 mm x 6 mm)	1-1/4" x 15-55/64" x 7/32" (32 mm x 403 mm x 6 mm)	Standard: 1-1/4" x 8" x 7/32" (32 mm x 203 mm x 6 mm) Optional: 1-1/16" x 8" x 7/32" (27 mm x 203 mm x 6 mm)
Latch	3/4" (19 mm) throw stainless steel latch with anti-friction tongue	Top and bottom via concealed vertical cable	3/4" (19 mm) throw stainless steel latches, top and bottom latches via concealed vertical rod
Deadbolt	1" (25 mm) throw stainless steel deadbolt	—	—
Strike	**L9000 Series** Standard: ANSI curved lip strike 1-1/4" x 4-7/8" (32 mm x 124 mm) x 1-3/16" (30 mm) lip length with dust box Optional: Extended lip strike options (7/8", 1", 1-1/2", 1-3/4", 2") **L400 Series** Standard: 1-1/8" x 3-1/2" (29 mm x 89 mm) with dust box Optional: 1-1/4" x 4-7/8" (32 mm x 124 mm) with dust box	Standard strike only	Standard: ANSI curved lip strike 1-1/4" x 4-7/8" (32 mm x 124 mm) x 1-3/16" (30 mm) lip length with dust box Optional: Extended lip strike options (7/8", 1", 1-1/2", 1-3/4", 2")
Cylinders & Key Systems			
Formats	6-pin Conventional mortise cylinder (standard); also available in concealed mortise cylinder, FSIC, SFIC and 7-pin SL cylinder formats plus less cylinder options; two nickel silver cut keys per lock; compatible with competitor cylinders and cams that support the L9000 Series		
Keyways	Patented Everest 29 S123 (standard); also available in open, restricted, and Primus security levels with available master keying and construction keying		
Wired Electrified			
Input voltage	12V or 24V DC (24V DC only on motorized latch retraction functions)	12V or 24V DC	—
Operating mode	Fail Safe or Fail Secure via switch on chassis (except L9510, L9580, and L9582)	Fail Safe or Fail Secure via switch on chassis	—

Mechanical Product Specifications

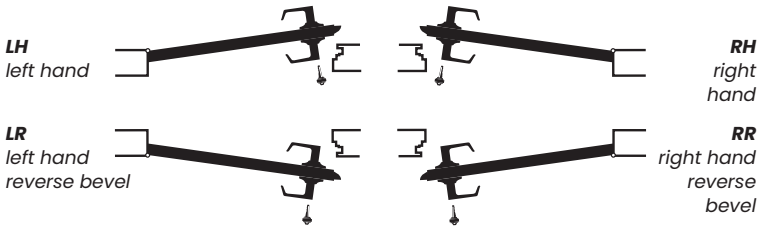
	L Mechanical & L Wired Electrified	LM9200	LM9300
Peak current	12V operating voltage: 1 amp (not applicable to latch retraction functions) 24V operating voltage: 0.4 amp lever control; 1.4 amp latch retraction Holding current: 0.1 amp lever control; 0.1 amp latch retraction		
Request to exit	Modular option on L909X, L949X, L9510, L9580, L9692, and L9695 electrified functions (when ordering or added in field) Available for mechanical functions: L9010/25/26/50/56/70/71/80 and L9453/56/58/65/66/80/85/96 Rating: 3A @ 125V AC/2A @ 30V DC	—	—
Latch bolt monitor	Available on all electrified functions and L9010/25/26/50/56/70/71/80/82 and L9453/56/65/66/80/85/96 mechanical functions	—	—
Door position sensor	Internal available on L909x electrified and L9010/25/26/80/82 mechanical functions; external available on all functions	—	—
Deadbolt monitor	Standard on L949x electrified and available on L9453/56/57/58/80/85/96 mechanical functions	—	—
Warranty			
	10-year limited mechanical and 3-year limited electromechanical	3-year limited mechanical and 1-year limited electromechanical	3-year limited mechanical
Certifications			
ANSI/BHMA	**L/LV9000:** ANSI/BHMA A156.13-2017 Series 1000, Grade 1 Operational and Security With FSIC Interchangeable Core Cylinders: Grade 1 Operational, Grade 2 Security With SFIC Interchangeable Core Cylinders: Grade 1 Operational, Grade 3 Security **L400:** ANSI/BHMA A156.36-2010, Grade 1	ANSI/BHMA A156.37-2014 Grade 1 Operational and Security With FSIC Interchangeable Core Cylinders: Grade 1 Operational, Grade 2 Security With SFIC Interchangeable Core Cylinders: Grade 1 Operational, Grade 3 Security	ANSI/BHMA A156.37-2014 Grade 1 Operational and Security With FSIC Interchangeable Core Cylinders: Grade 1 Operational, Grade 2 Security With SFIC Interchangeable Core Cylinders: Grade 1 Operational, Grade 3 Security
ICC	Complies with ICC A117.1 Accessible and Usable Buildings and Facilities	—	Certified by Intertek and labeled showing compliance to ICC 500-2020, FEMA P-320 (2021), and FEMA P-361 (2021) as required by the International Building Code and Florida Building Code Enhanced Protection Area (EHPA) standard when paired with appropriate Steelcraft doors (all except LM9310 and LM9370 functions)
UL/cUL	**L/LV9000 Series:** UL 10C and CAN/ULC-S104 3-hour fire door (except L9076 and L9077) Electrified functions are UL/ULC listed 3-hour for single-point locking applications UL 437 Listed when using UL 437 Primus cylinder **L400 Series:** L400 UL Listed Auxiliary Lock for 3-hour fire door UL 437 Listed when using UL 437 Primus cylinder	UL 10C and CAN/ULC-S104 90-minute maximum Fire Listing - pairs only UL 437 Listed when using UL 437 Primus cylinder **Hollow metal door applications:** available UL listed for 90-minute fire door with two point latch, one point latch, or double egress with astragal. **Wood door applications:** available UL listed for 60-minute fire door with two point latch or 20-minute fire door with top latch only. (Does not meet Canada UL 20-minute wood door requirement)	UL 10C and CAN/ULC-S104 3-hour fire door UL 437 Listed when using UL 437 Primus cylinder
UL 294	UL 294 Access Control Performance Levels: Destructive Attack - level I; Line Security - level I; Standby Power - level I; Endurance - level IV (with DM or LX, Endurance - level I) ULC-S319 Class III (L909X and L949X functions only)	—	—
CA Fire Code	All levers with a return to door of 1/2" (13 mm) or less comply (Formerly Title 19, California State Fire Marshal Standard)		
Building codes	Miami-Dade NOA and Florida Building Commission Listings Texas Department of Insurance (TDI) for impact and non-impact applications	—	Florida Building Commission Listing for impact rated assemblies
Federal	BAA compliant, all functions		

Wireless Electronic Product Specifications

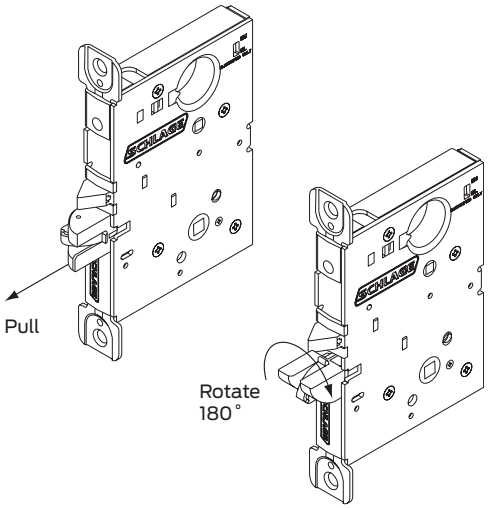
	LE Wireless Electronic	
Chassis		
Case material	CRS with zinc dichromate plating	
Case size	4-7/16" x 6-1/16" x 1" (113 mm x 154 mm x 25 mm)	
Spacing	Knob or lever to cylinder, 3-7/8" (98 mm); knob or lever to thumbturn hub, 2-11/16" (68 mm)	
Door thickness	Standard: 1-3/4" (44 mm) Optional: Up to 2-1/4" (57 mm)	SFIC limited to 2" max
Handing	Handed to order, field reversible	
Trim		
Levers/knobs	31 lever designs (see pages 10-13): Forged brass and cast stainless steel Two knob designs (see page 13): Heavy-duty wrought brass or stainless steel	Tactile warning applied to outside lever; available on 01, 02, 03, 05, 06, 07, 12, 17, 18, M51, M52, M81, ME1, ME2, ME3 lever designs
Roses/escutcheons	Addison escutcheon Greenwich sectional with rose: A, B, C, AVA, MER	Roses: A, B, C can be wrought brass and stainless steel; AVA and MER are forged brass
Finishes	Nine available: 605, 606, 612, 619, 622, 625, 626, 626AM, 643e	
Latches		
Backset	2-3/4" (70 mm) only	
Armor	1-1/4" x 8" x 7/32" (32 mm x 203 mm x 6 mm)	
Bolt	1" (25 mm) throw stainless steel deadbolt	3/4" (19 mm) throw stainless steel latch with anti-friction tongue
Strike	Standard: ANSI curved lip strike 1-1/4" x 4-7/8" (32 mm x 124 mm) x 1-3/16" (30 mm) lip to center with dust box	Optional: Extended lip strike options (1-1/2", 1-3/4")
Cylinders and key systems		
Formats	Standard: Pin and tumbler mechanism in the patented Schlage Everest 29 S123 keyway (6-pin); two nickel silver cut keys per lock	Additional keying options available: Conventional and interchangeable cores; master and grand master keying; compatible with competitor cylinders and cams that support the L9000 Series
Wireless Electronic		
Input voltage	4 AA batteries	
Functions	LEBMS: Storeroom LEBMB (selectable): Office, Privacy, Apartment	LEBMD (selectable): Privacy, Apartment
Communication	2.4 GHz Wi-Fi® (IEEE 802.11b/g/n) WPA2, WPA, WEP, 802.1x Bluetooth® Low Energy (version 4.2)	Transport Layer Security (TLS) version 1.2 Advanced Encryption Standard (AES), 256-bit
Request to Exit	Integrated into chassis	
Door position sensor	Integrated in chassis for LEMS and LEMB, separate from chassis for LEMD	
Tamper sensor	Integrated interior cover tamper	
Operating temperature	Exterior: -31° to 151°F (-35° to 66°C) Exterior: -13° to 151°F (-25° to 66°C) (LEBSi) Interior: 32° to 120°F (0° to 49°C) (battery)	
Operating humidity	0–100% non-condensing	
Warranty		
	1 year wireless electronic	
Certifications		
ANSI/BHMA	ANSI/BHMA A156.25-2013 (indoor/locked outdoor) ANSI/BHMA A156.13-2017 Series 1000, Grade 1 Operational and Security	With FSIC interchangeable core cylinders: Grade 2 Security With SFIC interchangeable core cylinders: Grade 3 Security
ICC	Complies with ICC A117.1 Accessible and Usable Buildings and Facilities, IC RSS-210	
UL/cUL	UL 10C and CAN/ULC-S104 3-hour Fire Listed All locks listed for A label single doors, 4' x 10' and pairs 8' x 10' Letter F and UL symbol on latch front indicate listing	Electrified functions are UL/ULC Listed for single-point locking applications UL 437 Listed when using UL 437 Primus cylinder UL 294 UL ULC 60839
CA Fire Code	All levers with a return to door of 1/2" (13 mm) or less comply	(Formerly Title 19, California State Fire Marshal Standard)
FL Building Code	Florida Building Commission Listings (FL1592, FL3905, FL4613, FL10356, FL12400, FL14482)	

Lock Handing

One of the revolutionary features of the L Series mortise lock is that handing can be done by the distributor or installer quickly and easily without opening the lock case.

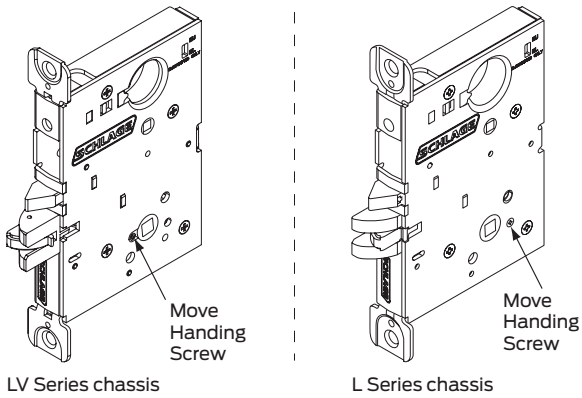


The hand is determined by the direction the door swings when viewed from the exterior or corridor side of the door.



Two simple steps allow you to change the handing of any L Series lock:

1. With the lock case removed from the door, pull the latchbolt away from the lockcase and rotate 180°.
2. Remove the lock handing screw from one side of the chassis and install it on the opposite side. The lock handing screw should always be on the interior side of the door.

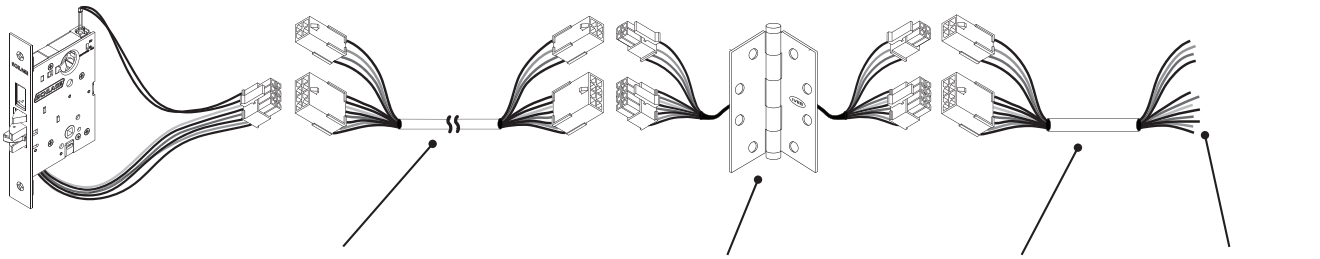


Electrified Lock Installation

The L Series electrified locks are powered by DC power only. All electrified locks are supplied with Allegion Connect Molex style connectors as well as an extended length Molex to traditional terminal wiring harness.

Allegion Connect

This factory-installed Molex connector system utilizes quick-connect harnesses and hinges for a quick and easy way to connect power sources; all the way from your power supply to electrified door hardware. Alternately, the connector can be cut off and the lock installed with traditional wire splicing methods. Note that the Allegion Connect harnesses and hinges are sold separately.



About Allegion

At Allegion (NYSE: ALLE), we design and manufacture innovative security and access solutions that help keep people safe where they live, learn, work and connect. We're pioneering safety with our strong legacy of brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Our comprehensive portfolio of hardware, software and electronic solutions is sold around the world and spans residential and commercial locks, door closer and exit devices, steel doors and frames, access control and workforce productivity systems.

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