ND Series
Grade 1 cylindrical locks

Mechanical
Wired electrified
Wireless electronic
The Schlage® ND Series cylindrical locks

Walter Schlage invented the cylindrical lock in 1920. Since then, Schlage Lock Company has consistently delivered innovation and continuous improvement. In that tradition, we are extremely proud to introduce the redesigned ND Series cylindrical lock.

Most manufacturers' approach to locks ends with simply meeting industry standards like Grade 1. With the Schlage ND, Grade 1 is just the beginning.

Performance beyond Grade 1
The Schlage ND family significantly exceeds BHMA Grade 1 requirements for cycle, lever torque, hammer blow, lever pull and other tests. This means confidence that the lock will last—whether the application calls for high abuse resistance or just operation over millions of cycles—without any degradation in performance.

Comprehensive offering for every opening
Mechanical, wired electrified and wireless electronic solutions allow a common aesthetic and consistent user experience throughout the building while lowering the total cost of ownership.

World-class design
A proven, easy to install product with extensive function, keying, trim and finish capabilities that work in nearly any applications.
The Schlage ND is extremely versatile and is regularly used in healthcare, education, government, office, retail and other commercial applications.

With 31 mechanical functions, the ND's range spans from the simple (non-locking passage) to complex (double-cylinder security) to specialized (school time-out lock).

Because the ND uses an ANSI 161 door prep, commonly used across cylindrical locks, it is ideal for both new construction and retrofit applications.

Applications

Wired electrified locks complement the mechanical offering and are typically incorporated into a wired access control system or used independently with a remote access switch (e.g. switch behind a receptionist desk).

The electrified ND is ideally used in:
- high traffic areas, where line power ensures continuous operation
- new construction, where electrified door prep, hinges and wiring can easily be incorporated into the building

NDE wireless lock applications include:
- retrofit applications where electronic credentials can be used for improved visibility and control
- new construction to expand the scope of access control to interior openings
- low to medium traffic areas, where battery power delivers long life

Key features

- Significantly exceeds ANSI/BHMA A156.2 requirements for Grade 1 cylindrical locks
- 31 mechanical functions (see adjacent columns for wired electrified and electronic options)
- Five lever designs, two rose designs
- 10 available finishes
- Supports standard, SFIC and FSIC cylinder formats
- Multiple key systems available – open, patented, restricted, geographic exclusive, UL437
- Support for 10 non-Schlage cores (see cylinder section)

Key features

- All mechanical features plus:
  - auto-detecting 12-24VDC input
  - selectable EL/EU operation
  - low 0.23 amp max current draw that allows multiple locks on a single power supply
  - low 0.010 amp holding current that eliminates “hot levers” in electrically locked applications
  - modular Request to Exit (RX) that can be added at any time
  - inventory friendly—one lock supports 12-24V, EL or EU, with or without RX
  - six electrified functions for application flexibility

Key features

- All mechanical features plus:
  - Fits standard ANSI 161L mechanical door prep
  - Installs in minutes with only a Phillips screwdriver
  - Integrated card reader, door position sensor and Request to Exit (RX) switch
  - Built-in Bluetooth® enables wireless configuration from smartphones and tablets
  - Built-in Wi-Fi enables automatic updates to access rights
  - Capable of networked real-time communication
  - Up to 2 years of battery life (4 AA)

1 NDE wireless electronic lock available in 3 lever designs, 1 rose design, and 9 finishes only
2 Requires ENGAGE™ Gateway and alliance access control software
From mechanical to wired electrified to wireless electronic the ND Series offers a grade 1 solution for the entire project.
The ND Series has been redesigned to make it the strongest cylindrical lock Schlage has ever built.

- No access with minimum 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)
- No access with minimum 1,600 lbs offset lever pull for protection against pry bar attacks (8x BHMA requirements)
- No access with minimum 100 vertical impacts for protection against sledgehammer attacks (20x BHMA requirements)
- Near zero droop and wobble after 16M cycles (16x BHMA requirements), without the use of set screws or O-rings
- Latch retraction with 200lb preload for confident operation in warped and preloaded doors (4x BHMA requirements)

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

- Standard Everest 29™ key system prohibits unauthorized duplication at local stores and is patent protected until 2029
- Available restricted and geographic exclusive keyways for advanced key control
- Available compatibility with 10 different non-Schlage key systems
- New SL cylinder allows SFIC keyways in standard cylinders, providing multiple new keying solutions including geographically exclusive SFIC
- Wired electrified and wireless electronic locks enable the use of electronic credentials for increased visibility and control over access
- aptiQ® smart cards with MiFare® DESFire® EV1 technology utilize encryption, mutual authentication and key diversification to ensure the highest levels of security

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1 Beyond grade 1 performance for ND locks with Schlage cylinders only (standard, FSIC & SFIC). Performance with non-Schlage cylinders will exceed BHMA grade 1 requirements but may be less than the performance of products with Schlage cylinders.

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

Smart means using innovation to make your project 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 input, selectable EL/EU 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 with ENGAGE™ can be managed with an access control system or with convenient ENGAGE web and mobile applications.
- Wireless electronic locks provide the option to leverage existing network infrastructure for offline or real-time applications
- Can upgrade from ND mechanical lock to NDE wireless electronic with only a screwdriver

Schlage is more than locks. It’s the complete infrastructure of support throughout the entire build and ownership process.

- Order entry, customer service, technical support, engineering and manufacturing co-located in the same building in Colorado Springs, Colorado
- Comprehensive support from our sales offices including 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
- Custom engineering department can develop specialized functions, trim and finishes for unique applications
- Trusted partner for nearly 100 years
A detailed look...

**ND mechanical**

- **New adjustment plate**
  - along with “hands free” torque plate for exceptionally easy installation

- **New cast steel spindle**
  - for strong and durable performance
  - without droop or wobble

- **New standard latches**
  - exceed 4x BHMA pre-load requirement

- **New interior buttons**
  - for easier operation

**Expanded cylinder support**
- for Schlage and 10 non-Schlage formats

**Key features**
- New levers for better fit and easier installation

**Specifications**
- Standard Molex connector for easy wiring

**ND wired electrified**

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

- **Efficient motor-driven design**
  - 0.230 amp max current draw for more locks per power supply
  - 0.010 amp holding current eliminates “hot levers”
  - Quiet operation

- **Modular RX**
  - Request to Exit (RX) module can be “plugged in” for inventory and installation flexibility

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

**All mechanical features +**

- **Expanded cylinder support**
  - for Schlage and 10 non-Schlage formats

- **Efficient motor-driven design**
  - 0.230 amp max current draw for more locks per power supply
  - 0.010 amp holding current eliminates “hot levers”
  - Quiet operation

- **Modular RX**
  - Request to Exit (RX) module can be “plugged in” for inventory and installation flexibility

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

All mechanical features +

- Integrated multi-technology reader reads both 125 kHz proximity and 13.56 MHz smart credentials
- Built-in Bluetooth enables wireless configuration from smart phones and tablets
- Built-in Wi-Fi enables automatic updates to access rights
- Fits standard ANSI 161L prep - installs in minutes with only a Phillips screwdriver
- Mechanical key override compatible with most popular key systems
- Integrated door position sensor requires no additional prep
- Up to 2 years of battery life with 4 AA batteries
- Image rotated 180°
Designs and finishes

Lever designs and finishes

Athens (ATH)²

Sparta (SPA)¹²

Rhodes (RHO)¹²

Tubular (TLR)¹²

Omega (OME)

All levers comply with the Americans with Disabilities Act (ADA).

1 Rhodes, Sparta, Tubular and Omega levers comply with California State code for return within ½” of door face.

2 All levers except Omega can support cylinders from other manufacturers, see cylinder section page 24 for details.

Finish options

<table>
<thead>
<tr>
<th>Color</th>
<th>Bright brass</th>
<th>Satin brass</th>
<th>Satin bronze</th>
<th>Oil rubbed bronze</th>
<th>Satin nickel</th>
<th>Matte black</th>
<th>Bright chrome</th>
<th>Satin chrome</th>
<th>Aged bronze</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSI/BHMA number</td>
<td>605</td>
<td>606</td>
<td>612</td>
<td>613</td>
<td>619</td>
<td>622</td>
<td>625</td>
<td>626/626AM</td>
<td>643e</td>
</tr>
<tr>
<td>Mechanical</td>
<td>■</td>
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<td>■</td>
<td>■</td>
<td>■</td>
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<td>■</td>
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<td>■</td>
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<tr>
<td>Wired electrified</td>
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<td>Wireless electronic</td>
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</tr>
</tbody>
</table>

Product information and specifications contained in this catalog are subject to change without notice. Please consult the factory.
Accessibility and life safety

Door hardware should be as effective in helping people go about their lives as it is in securing their environments. The Schlage ND is designed with this requirement in mind.

### Accessibility
All Schlage ND 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.”

### 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 (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**
- **Knurled**

<table>
<thead>
<tr>
<th>Order as follows:</th>
<th>Order as follows:</th>
</tr>
</thead>
<tbody>
<tr>
<td>8AT for Athens</td>
<td>8TR for Tubular</td>
</tr>
<tr>
<td>8RO for Rhodes</td>
<td></td>
</tr>
<tr>
<td>8SP for Sparta</td>
<td></td>
</tr>
</tbody>
</table>

### Life safety
The Schlage ND is UL listed for use on 3-hour fire doors up to 4'0" x 10'0". The Rhodes, Sparta, Tubular and Omega 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.

### Classroom security indicator rose
Schlage ND classroom security functions come standard with an indicator rose that clearly identify key rotation direction for rapid lockdown. For ND mechanical classroom security function only.

### Door handing
The ND lock family can be configured during installation to support any door handing. As a result, it is not necessary to specify handing during the ordering process.

- **LH** Left hand
- **RH** Right hand
- **LHR** Left hand reverse
- **RHR** Right hand reverse
ND Series mechanical lock

The ND mechanical lock, along with being Schlage's best selling mechanical 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 and are pleased to announce the following updates for Spring 2017:

- Unparalleled strength - the lock prevents access even when subjected to torque loads up to 3,100 in-lbs (2.6x BHMA¹), withstands pry bar attacks of 1,600 lbs (8x BHMA requirements¹), and withstands 100 hammer blows (20x BHMA requirements¹,²)
- Exceptional durability - cycle tested to over 16M cycles (16x BHMA requirements¹) with near zero droop or wobble - without the use of set screws or O-rings
- Improved feel - improved strength and durability are more than numbers, you can actually feel it in the lock
- Improved installation - installation is even easier than before (and without any set screws or O-rings)

All this is in addition to what you know and expect with the Schlage ND: 31 mechanical functions (plus wired electrified and wireless electronic) to meet the needs of any application; five lever designs that suite with other Schlage locks and Von Duprin exit devices; simple installation and renowned sales, customer, and technical support.

¹ Beyond grade 1 performance for ND locks with Schlage cylinders only (standard, FSIC & SPIC). Performance with non-Schlage cylinders will exceed BHMA grade 1 requirements but may be less than the performance of products with Schlage cylinders.

² Vertical impact testing stopped after 100 blows with no sign of failure or stress.
### ND Series mechanical lock

#### Keyless function list

<table>
<thead>
<tr>
<th>Legend</th>
<th>Schlage</th>
<th>ANSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outside</td>
<td>Inside</td>
<td></td>
</tr>
<tr>
<td>Deadlatch</td>
<td>Pushbutton</td>
<td></td>
</tr>
<tr>
<td>Key</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Springlatch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blank plate</td>
<td>Turn/push button</td>
<td></td>
</tr>
</tbody>
</table>

#### Schlage ANSI Schlage ANSI Schlage ANSI Schlage ANSI

| ND10S | F75 |
| ND12D | F89 |

#### Passage latch
- Both levers always unlocked.

#### Exit lock
- Outside lever always fixed.
- Inside lever always free for immediate egress.

#### Outsideinside Outsideinside Outsideinside Outsideinside

<table>
<thead>
<tr>
<th>Available with RX</th>
<th>Available with RX</th>
</tr>
</thead>
</table>

#### Schlage ANSI Schlage ANSI Schlage ANSI Schlage ANSI

| ND25D | ND40S | F76 |
| ND44S | ND170 | - |

#### Exit lock
- Blank plate outside.
- Inside lever always free for immediate egress.

#### Bath/bedroom privacy lock
- Push-button locking.
- Unlocked from outside with a small screwdriver.
- Turn inside lever or close door to release button.
- Inside lever always free for immediate egress.

#### Hospital privacy lock
- Push-button locking.
- Unlocked from outside by turning emergency turn-button.
- Turn inside lever or close door to release button.
- Inside lever always free for immediate egress.

#### Single dummy trim
- Dummy trim for one side of door.
- Used for door pull or as matching inactive trim.
### Schlage ANSI Schlage ANSI Schlage ANSI Schlage ANSI
### ND50PD F82 Entrance/office lock
- Push-button locking.
- Push-button locks outside lever until it is unlocked with key or by turning inside lever.
- Inside lever always free for immediate egress.

### ND53PD F109 Entrance lock
- Turn/push-button locking:
  - Pushing and turning the button locks the outside lever, requiring use of a key until the button is manually unlocked.
  - Push-button locking:
    - Pushing button locks outside lever until unlocked by key or by turning the inside lever.
    - Inside lever always free for immediate egress.

### ND60PD F88 Vestibule lock
- Latch retracted by key from outside when outside lever is locked by key in inside lever.
- Inside lever always free for immediate egress.

### ND66PD F91 Store lock†
- Key in either lever locks or unlocks both levers.

### ND70PD F84 Classroom lock
- Outside lever locked and unlocked by key.
- Inside lever always free for immediate egress.

### ND73PD F90 Corridor lock
- Locked or unlocked by key from outside.
- Push-button locking from inside.
- Turn inside lever or close door to release button.
- When outside lever is locked by key it can only be unlocked by key.
- Inside lever always free for immediate egress.

### ND75PD Classroom security lock
- Key in either lever locks or unlocks outside lever.
- Inside lever always free for immediate egress.

### ND80PD F86 Storeroom lock
- Outside lever is fixed.
- Entrance by key only.
- Inside lever always free for immediate egress.

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**Available with RX**
### ND Series mechanical lock

#### Keyed function list

<table>
<thead>
<tr>
<th>Schlage</th>
<th>ANSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>ND82PD</td>
<td>F87</td>
</tr>
</tbody>
</table>

**Institution lock†**
- Both levers always fixed.
- Entrance by key in either lever.

<table>
<thead>
<tr>
<th>Schlage</th>
<th>ANSI</th>
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<tbody>
<tr>
<td>ND85PD</td>
<td></td>
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</table>

**Faculty restroom lock**
- Outside lever is fixed.
- Entrance by key only.
- Visual occupancy indicator, allowing only emergency key to operate.
- Turn inside lever or close door to unlock.
- Rotation of inside spinner-button enables lock-out feature.
- Inside lever always free for immediate egress.
- Not available with interchangeable core cylinders.

Electrified locks can be found in the electrified section of the catalog (page 19).
Vandlgard™ trim is specifically designed for highly abusive environments. The outside lever rotates freely up and down when locked, limiting the ability of vandals to apply excessive force to the chassis.

<table>
<thead>
<tr>
<th>Schlage</th>
<th>ANSI</th>
<th>ND93PD</th>
<th>F88</th>
<th>Vestibule lock</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td>• Latch retracted by key from</td>
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<td>outside when outside lever is</td>
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<td>disengaged by key in inside</td>
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<td>lever.</td>
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<td></td>
<td>• Vandlgard allows outside</td>
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<td></td>
<td>spindle to disengage from</td>
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<td>latch when locked.</td>
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<td>• Inside lever always free for</td>
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<td>immediate egress.</td>
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<table>
<thead>
<tr>
<th>Schlage</th>
<th>ANSI</th>
<th>ND94PD</th>
<th>F84</th>
<th>Classroom lock</th>
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<tbody>
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<td>• Outside lever disengaged</td>
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<td>and unlocked by key.</td>
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<td>spindle to disengage from</td>
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<td>latch when locked.</td>
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<td>• Inside lever always free for</td>
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<td>immediate egress.</td>
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</table>

<table>
<thead>
<tr>
<th>Schlage</th>
<th>ANSI</th>
<th>ND95PD</th>
<th>F86</th>
<th>Classroom security lock</th>
</tr>
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<tbody>
<tr>
<td></td>
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<td></td>
<td>• Key in either lever locks or</td>
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<td>unlocks outside lever.</td>
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<td>• Vandlgard allows outside</td>
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<td></td>
<td></td>
<td>spindle to disengage from</td>
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<td>latch when locked.</td>
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<td></td>
<td>• Inside lever always free for</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>immediate egress.</td>
</tr>
</tbody>
</table>

Available with RX
ND Series other special functions

ND30D
Patio lock
Push button locking. Turning inside lever or closing door releases button, preventing a lock-out. Inside lever always free for immediate egress. Specify per XN12-007.

ND25 x 80PD
Storeroom exit lock
Blank plate outside. Key in fixed inside lever retracts latch. Specify per XN12-005.

ND25 x 70PD
Classroom exit lock
Blank plate outside. Key locks or unlocks inside lever. Specify per XN12-004.

ND60PD
Vestibule with closed outside lever
Same as ND60 except outside lever is closed. Inside lever always free for immediate egress. Specify per XN12-001.

ND70 x 80PD
Classroom by storeroom lock
Key locks and unlocks outside lever. Key in fixed inside lever retracts latch. Specify per XN12-006.

ND72PD
Communicating lock
Key in either lever locks and unlocks respective lever. Specify per XN12-002.

ND72PD
Vandlgard communicating lock
Communicating, ND72, lock with Vandlgard. Key in either lever locks and unlocks own lever. Both inside and outside levers are clutching. Specify per XN12-003.

Electrified locks can be found in the electrified section of the brochure (page 18).
ND Series wired electrified locks

The ND wired electrified lock complements the ND mechanical lock by working with access control systems to provide advanced security in high traffic areas. Because the electrified ND uses a motor instead of a solenoid, it offers unparalleled energy efficiency and flexibility in wired electrified applications.

More ECO. A maximum current draw of 0.23 amps not only saves energy, but by allowing more locks to run off a single power supply it saves money as well. The low 0.010 amp holding current eliminates any potential for hot levers in electrically locking applications or in electrically unlocking applications where the door is left open for long periods of time.

More FLEX. The electrified ND has flexibility for any application—it automatically operates from 12 to 24VDC, and the operating mode (electrically locked or unlocked) can be changed by simply toggling a switch on the chassis. Request to Exit (RX) can even be added with a simple upgrade kit.

The electrified ND has a number of other features and benefits. Incredibly quiet operation. Tested to over 4x BHMA standards. The electrified ND also comes standard with the Allegion connect Molex™ connector system (may be cut off and installed using traditional splicing methods if desired).
ND Series wired electrified lock

Function list

Keyless
Schlage
ND12ELD
ND12EUD

Keyless electrified exit
• Outside lever continuously locked (EL) or unlocked (EU) by 12-24V DC.
• EL is fail safe (power fail unlocks outside lever).
• EU is fail secure (power fail locks outside lever).
• Inside lever always free for immediate egress.

Keyed
Schlage
ND80ELPD
ND80EUPD

Electrified storeroom
• Outside lever continuously locked (EL) or unlocked (EU) by 12-24V DC.
• EL is fail safe (power fail unlocks outside lever).
• EU is fail secure (power fail locks outside lever).
• Inside lever always free for immediate egress.

Keyed Vandlgard
Schlage
ND96ELPD
ND96EUPD

Electrified storeroom with Vandlgard
• Adds Vandlgard to ND80EL/EU.
• Vandlgard allows outside spindle to disengage from latch when locked, limiting the ability of vandals to apply excessive force to the chassis. See page 16 for more details.

Outside Inside
Electrified Electrified Available with RX
Available with RX

Electrical requirements
• Input voltage: auto-detects 10.8-26.8VDC
• Max current draw: 0.230 amp (230mA)
• Holding current: 0.010 amp (10mA)
• Temperature range: 32°F-120°F (0°-49°C)

Request to Exit (RX)
• Normally open, normally closed and common leads provided
• Electrical rating: 2A, 30VDC max
• Order (with lock): specify RX in option field
• Order (retrofit): p/n N123-062

Wiring instructions

Maximum Total Wire Length

<table>
<thead>
<tr>
<th>AWG</th>
<th>12 V</th>
<th>16 V</th>
<th>18 V</th>
<th>20 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>500' (152 m)</td>
<td>300' (91 m)</td>
<td>200' (61 m)</td>
<td>100' (30 m)</td>
</tr>
<tr>
<td>24</td>
<td>Up to 1000' (304 m)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Either lock wire may be attached to either power supply terminal (+ or -).
NDE wireless electronic locks

NDE wireless locks simplify installation by combining the lock, credential reader, door position sensor and Request to Exit (RX) into a single integrated design. NDE shares the same standard cylindrical door prep as the ND lock and installs in minutes with only a Philips screwdriver.

Built-in Bluetooth enables NDE wireless locks to connect directly to smart phones and tablets—no need for a proprietary handheld device for set-up and configuration.

Built-in Wi-Fi enables NDE to connect directly to an existing Wi-Fi network for automatic updates to access rights and configuration.

With the ENGAGE cloud-based web and mobile apps, it’s easy to configure lock settings, manage access rights, and view audits and alerts from anywhere. Updates can be sent any time at the lock with the ENGAGE mobile app and occur automatically overnight when NDE is configured to connect to a Wi-Fi network.

NDE wireless locks can also be connected to the ENGAGE Gateway for real-time networked communication with software from one of our software alliance members.
NDE wireless electronic locks

Function

Schlage ANSI
NDE80PD F86
Lock with Vandlgard
- Can be used for perimeter doors, suite entrances, offices, and sensitive storage spaces.
- Lockset is normally secure with outside lever disengaged.
- Valid credential or key momentarily unlocks door.
- Valid credential may be used to change to a passage or secured state.
- Lock schedule may be implemented to put the lock in a passage or secured state.
- Inside lever always allows free egress.

Included status monitors
- Request to Exit
- Door position
- Interior cover tamper
- Magnetic tamper
- Battery status
- Lock/unlock status
- Communication status

Product specifications

Wireless lock specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Users</td>
<td>Up to 5,000¹</td>
</tr>
<tr>
<td>Audits</td>
<td>Up to 2,000²</td>
</tr>
<tr>
<td>Credential verification time</td>
<td>≤ 1 second ³</td>
</tr>
<tr>
<td>Visual communications</td>
<td>LED (red, amber, green)</td>
</tr>
<tr>
<td>Audible communications</td>
<td>Audible indicator (field configurable)</td>
</tr>
<tr>
<td>Communication range</td>
<td>Up to 100 ft.</td>
</tr>
<tr>
<td>Wake-Up on Radio</td>
<td>Responds to command from host in less than 5 seconds when linked to ENGAGE Gateway (requires alliance partner software)</td>
</tr>
<tr>
<td>Battery life</td>
<td>Up to 2 yrs with 4 AA batteries ⁴</td>
</tr>
<tr>
<td>Operating temperature (extérieur)</td>
<td>-31°F to 151°F (-35°F to 66°C)</td>
</tr>
<tr>
<td>Operating temperature (intérieur)</td>
<td>32°F to 120°F (0°F to 49°C) (battery)</td>
</tr>
<tr>
<td>Operating humidity</td>
<td>0 - 100% non-condensing</td>
</tr>
<tr>
<td>Certifications</td>
<td>ANSI/BHMA A156.25-2013 (Indoor/Outdoor), ANSI/BHMA A156.2-2011, Series 4000, Grade 1, UL 294, UL 10C, CSA C22.2 No. 205-M1983, FCC Part 15, IC RSS-210, ADA, RoHS, ICC ANSI A117.1</td>
</tr>
</tbody>
</table>

Multi-technology reader specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>125 kHz proximity and 13.56 MHz smart credential</td>
</tr>
<tr>
<td>Standards</td>
<td>ISO standard 15693 and ISO 14443</td>
</tr>
<tr>
<td>Maximum read range</td>
<td>Up to 1.25” on 125 kHz proximity, up to 0.75” on 13.56 MHz smart credential</td>
</tr>
</tbody>
</table>

¹ Maximum database storage capacity of lock. Can vary upon access control software database capacity when paired with an ENGAGE Gateway RS-485 to ACP
² Maximum audit storage capacity of lock. Can vary upon access control software audit storage capacity when paired with an ENGAGE Gateway RS-485 to ACP
³ Response time does not include latency time of host when linked to an ENGAGE Gateway
⁴ Assuming indoor application, 13.56 MHz CSN credential, 100 actuations and one Wi-Fi update per day
⁵ Consult your access control software provider for specific scope of support
⁶ Software indicates lock/unlock status based on sequence of events

ENGAGE cloud-based web and mobile applications

ENGAGE cloud-based web and mobile apps make it easy to configure lock settings, manage access rights and view audits and alerts from anywhere.

Download on the App Store  Android App on Google Play
Cylinders and 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

- **Standard cylinders - options**
  - 6-pin conventional (standard)
  - Primus® XP high security
  - Primus XP UL437 Listed high security
  - Hotel cylinder (for use in faculty restroom function)

- **Full size interchangeable cores - options**
  - Conventional core
  - Primus XP high security core

- **Small format interchangeable cores - options**
  - 7-pin combined or uncombined Everest 29™ R family restricted keyways
  - 6 or 7-pin uncombined Falcon®/Best® keyways
  - Disposable plastic construction core

---

1. Available in 606 and 626 finish only; Everest 29 S123 keyway standard.
2. Available 606, 613 (simulated), and 626 finish only.
3. Restricted keyway cores require authorization from the end user.
4. Best Cores are available in A, D, E, F, G, H, J, K, L, and M keyways. To avoid confusion with existing Schlage keyways, specify SFIC open keyways with a ‘B’ suffix, e.g. “AB.” Must be ordered separately from lock, not available factory keyed.

### Key systems

#### Classic keyway

- Popular design found in many existing products
- Non-restricted keyway—keys are duplicated and available without any ordering formalities

#### Everest 29

- Patented through 2029
- Key duplication is restricted providing a higher level of security for the cylinder
- Can be integrated to an existing Everest B, C, or D system
- Ability to add Primus XP or UL437 for additional security

#### Primus XP

- High security, dual locking cylinder
- Unique side bit milling on key makes unauthorized duplication highly enforceable
- Allows creation of geographically exclusive keys in a thousand available combinations
- Can be used to upgrade an Everest 29 or Classic system to a high-security cylinder

#### Everest 29 SL

- A high security conventional (KIL) cylinder pinned on an A2 system compatible with the Schlage Everest B and Everest 29 R keyways
- Users can expand existing Everest B and Everest 29 R key systems
- Allows for Primus XP in the SFIC keyways
Readers and credentials

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

**Proximity (125 kHz) technology:**
- Basic open contactless technology; recommended for legacy systems only
- Encoded with a unique number that cannot be updated or changed

**Smart (13.56 MHz) technology:**
- 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

**Multi-technology options that provide flexibility:**
- All multi-technology credentials and readers feature aptiQ technology with either magnetic stripe or proximity
- Enables migration from legacy platform to secure smart technology
- Reader options available with keypad for +PIN for high security applications

**Credentials**
Options include clamshell or ISO cards, keyfobs, wristbands and mobile.

**Readers**
Single-technology proximity (PR) and smart (SM) readers available in a mini mullion design. Multi-technology (MT) options include mullion, single gang and single gang with keypad (K).

**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.
Lock options

Latches

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

<table>
<thead>
<tr>
<th>Part number</th>
<th>Backset</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Springlatch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13-248</td>
<td>2 3/4&quot;</td>
<td>Square corner, 1 1/8&quot; x 2 1/4&quot; (default springlatch)</td>
</tr>
<tr>
<td>14-010</td>
<td>3 3/4&quot;</td>
<td>Square corner, 1 1/8&quot; x 2 1/4&quot;</td>
</tr>
<tr>
<td>Deadlatch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14-047</td>
<td>2 1/4&quot;</td>
<td>Square corner, 1 1/8&quot; x 2 1/4&quot;</td>
</tr>
<tr>
<td>14-048</td>
<td>2 1/4&quot;</td>
<td>Square corner, 1&quot; x 2 1/4&quot;</td>
</tr>
<tr>
<td>13-247</td>
<td>2 1/4&quot;</td>
<td>Square corner, 1 1/8&quot; x 2 1/4&quot; (default deadlatch)</td>
</tr>
<tr>
<td>14-042</td>
<td>2 1/4&quot;</td>
<td>Anti-friction fire door latch (3/4&quot; throw)</td>
</tr>
<tr>
<td>14-028</td>
<td>3 3/4&quot;</td>
<td>Square corner, 1 1/8&quot; x 2 1/4&quot;</td>
</tr>
</tbody>
</table>

Strikes

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

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-strike</td>
<td>T-strike, square corner, with strike box, 1 1/8&quot; x 2 1/4&quot;. Specify lip length (xx) as 1/8&quot; or 1/4&quot;. For ND and wired ND only.</td>
</tr>
<tr>
<td>10-013 xx</td>
<td></td>
</tr>
<tr>
<td>10-016</td>
<td>T-strike, square corner, with deep strike box, for fire door latch. 1 1/8&quot; x 2 1/4&quot; w/ 1/8&quot;&quot; lip. For ND and wired ND only.</td>
</tr>
<tr>
<td>10-132 xx</td>
<td>T-strike, square corner, with strike box, DPS magnet, 1 1/8&quot; x 2 1/4&quot;. Specify lip length (xx) as 1/8&quot; or 1/4&quot;. For NDE only.</td>
</tr>
<tr>
<td>10-133 xx</td>
<td>T-strike, square corner, with deep strike box, DPS magnet, for fire door latch. 1 1/8&quot; x 2 1/4&quot; w/ 1/8&quot;&quot; lip. For NDE only.</td>
</tr>
<tr>
<td>ANSI</td>
<td>ANSI, no box, 1 1/8&quot; x 4 1/4&quot;. Specify lip length (xx) as 1/8&quot;, 1/4&quot;, or 1/2&quot; (1/8&quot; lip is default strike). For ND and wired ND only.</td>
</tr>
<tr>
<td>10-025 xx</td>
<td></td>
</tr>
<tr>
<td>K510-066</td>
<td>Box for ANSI strike.</td>
</tr>
<tr>
<td>10-130 xx</td>
<td>ANSI, no box, DPS magnets, 1 1/8&quot; x 4 1/4&quot;. Specify lip length (xx) as 1/8&quot;, 1/4&quot;, or 1/2&quot; (1/8&quot; lip is default strike). For NDE only.</td>
</tr>
</tbody>
</table>

Non-Schlage cylinders

The ND lock can accommodate cylinders from a variety of manufacturers, provided it is specified when ordering the lock.

<table>
<thead>
<tr>
<th>Cylinder type</th>
<th>Cylinder code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sargent KIL1</td>
<td>L-SAR</td>
</tr>
<tr>
<td>Sargent FSIC1</td>
<td>J-SAR</td>
</tr>
<tr>
<td>CR KIL1</td>
<td>L-CO6</td>
</tr>
<tr>
<td>CR FSIC1</td>
<td>J-CO6</td>
</tr>
<tr>
<td>CR FSIC 7-pin</td>
<td>J-CO7</td>
</tr>
<tr>
<td>Yale FSIC1</td>
<td>J-YA6</td>
</tr>
<tr>
<td>Yale FSIC 7-pin</td>
<td>J-YA7</td>
</tr>
<tr>
<td>Medeco 31</td>
<td>J-YA6</td>
</tr>
<tr>
<td>Medeco 32</td>
<td>J-MED</td>
</tr>
<tr>
<td>Best</td>
<td>see SFIC cylinder instructions page 25</td>
</tr>
</tbody>
</table>

1 Available in ATH, OME, RHO, SPA lever designs only
2 CR and Yale FSIC 7-pin available RHO only
## Ordering instructions

### Example

<table>
<thead>
<tr>
<th>Function + cylinder</th>
<th>Outside</th>
<th>Inside</th>
<th>Door</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Function</td>
<td>Lever</td>
<td>Finish</td>
</tr>
<tr>
<td>Mechanical</td>
<td>ND53PD</td>
<td>ATH</td>
<td>626</td>
</tr>
<tr>
<td>Wired electrified</td>
<td>ND80EUL</td>
<td>RHO</td>
<td>605</td>
</tr>
<tr>
<td>Wireless electronic</td>
<td>NDE80BD</td>
<td>SPA</td>
<td>619</td>
</tr>
</tbody>
</table>

### Detail

<table>
<thead>
<tr>
<th>Function</th>
<th>Mechanical:</th>
<th>Wired electrified:</th>
<th>Wireless electronic:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>See pages 12-17</td>
<td>See pages 18-19</td>
<td>NDE80; see pages 20-21</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cylinder</th>
<th>Standard:</th>
<th>Full size Interchangeable (FSIC):</th>
<th>Small format Interchangeable:</th>
</tr>
</thead>
<tbody>
<tr>
<td>P (Patented Everest 29)</td>
<td>R (FSIC, Patented Everest29)</td>
<td>GD (SFIC, Patented Everest 29)</td>
<td></td>
</tr>
<tr>
<td>L (less cylinder)</td>
<td>J (FSIC, less core)</td>
<td>BD (SFIC, less core)</td>
<td></td>
</tr>
<tr>
<td>C (less double cylinder)</td>
<td>T (FSIC, Construction Core)</td>
<td>BDC (SFIC, disposable core)</td>
<td></td>
</tr>
<tr>
<td>Z (Everest SL)</td>
<td></td>
<td>HD (SFIC, construction core)</td>
<td></td>
</tr>
</tbody>
</table>

For non-Schlage cylinders please see page 24

### Outside lever

- Mechanical: ATH (Athens), RHO (Rhodes), SPA (Sparta), TLR (Tubular), OME (Omega)
- Wired electrified: ATH (Athens), RHO (Rhodes), SPA (Sparta), TLR (Tubular), OME (Omega)
- Wireless electronic: ATH (Athens), RHO (Rhodes), SPA (Sparta)

Note: Specify tactile as: 8AT (Athens), 8RO (Rhodes), 8SP (Sparta), 8TR (Tubular)

### Outside finish

- 605 Bright brass (US3)
- 606 Satin brass (US4)
- 612 Satin bronze (US10)
- 613 Oil rubbed bronze (US10B)
- 619 Satin nickel (US15)
- 622 Matte black (US19)
- 626 Satin chrome (US26D)
- 626AM Satin chrome anti-microbial
- 625 Bright chrome (US26)
- 643e Aged bronze (US11)

1 Not available NDE wireless electronic

### Inside lever

Specify only if different from outside lever. Same options as outside lever.

### Inside finish

Specify only if different from outside finish. Same options as outside finish.

### Latch

Specify only if different from standard latch; see page 24 for options.

### Strike

Specify only if different from standard strike; see page 24 for options.

### Door thickness

Specify only if outside standard door range (1 1/8"-2 1/4"). Extended door thickness not available NDE wireless electronic.

### Extension

Specify only for doors 2 1/4" or greater.

Example: EE = Extended Equally, EI = Extended Inside, EO = Extended Outside, ED = Extended Differently

### Dimension

Specify only for non-standard strike lip length.

### Options

Specify any additional requirements or options. Example: KA = Keyed Alike, KD = Keyed Different, 0bit, etc.
### Product specifications

<table>
<thead>
<tr>
<th>Chassis Material</th>
<th>Modular design of zinc and steel components plated for corrosion protection</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ND mechanical and ND wired electrified</strong></td>
<td></td>
</tr>
</tbody>
</table>
| Door thickness   | Standard: 1 5⁄8" to 2 1⁄8"  
Optional: 1 5⁄8" - 6" EE, EO, EI, ED configurations |
| Trim             | Non-Handed  
Default to Right Hand, configurable without tools |
| Levers           | Standard: 5 designs, pressure cast zinc, plated to match product finish specification  
Optional: Tactile feature - Athens (ATH), Rhodes (RHO), Sparta (SPA), Tubular (TLR) |
| Roses            | Wrought brass, or zinc, plated to match product finish specification |
| Finishes         | 10 available (605, 606, 612, 613, 619, 622, 625, 626, 626AM, 643e)  
9 available (605, 606, 612, 619, 622, 625, 626, 626AM, 643e) |
| Latches Backset  | Standard: 2 1⁄4"  
Optional: 2 1⁄4", 3 1⁄4", 7 1⁄4" |
| Faceplate        | Standard: 1 1⁄4" x 2 1⁄4"  
Optional: 1" x 2 1⁄4" for 2 3⁄8" backset doors |
| Bolt             | Standard: 1⁄2" throw via Oil Impregnated Stainless Steel  
Optional: 3⁄4" throw anti-friction bolt available for pairs of doors |
| Strike           | Standard: ANSI Curved Lip: 1 1⁄4" x 4 1⁄4" x 1 1⁄4"  
Optional: T Strike, ANSI strikes with alternative lip lengths, dust box options |
| Keying Formats   | Standard: 3 Schlage (KIL or FSIC or SFIC)  
Optional: 10 Non-Schlage including cylinders from Best, Corbin Russwin, Medeco, Sargent and Yale |
| Access security  | Standard: 6-Pin Patented Everest 29  
Optional: Open, Restricted, Primus, master keying, construction keying |

### Wired electrified

<table>
<thead>
<tr>
<th>Wired electrified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage</td>
</tr>
<tr>
<td>Operating mode</td>
</tr>
<tr>
<td>Current draw</td>
</tr>
<tr>
<td>Request to Exit</td>
</tr>
</tbody>
</table>

### Wireless electronic

<table>
<thead>
<tr>
<th>Wireless electronic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage</td>
</tr>
<tr>
<td>Operating mode</td>
</tr>
</tbody>
</table>
| Communication       | 2.4 GHz Wi-Fi (IEEE 802.11b/g)  
Bluetooth low energy (version 4.0) |
| Request to Exit     | Integrated into chassis |
| Door position sensor| Integrated magnetometer with strike and magnet assembly. Includes magnetic tamper alert. |
| Tamper sensor       | Integrated interior cover tamper |

### Warranty

<table>
<thead>
<tr>
<th>Mechanical</th>
<th>10 years mechanical, 1 year wired electrified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wired electrified</td>
<td>1 year wireless electronic</td>
</tr>
</tbody>
</table>

### Certifications

| ANSI/BHMA          | All ND Series comply with A156.2 performance requirements for grade 1 cylindrical locks.  
Wired electrified complies with A156.25 (indoor/outdoor) requirements for electrified locking devices |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC</td>
<td>Complies with ICC A117.1 Accessible and Usable Buildings and Facilities</td>
</tr>
<tr>
<td>UL/cUL</td>
<td>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 1⁄4&quot; latch option; pair doors 90 minute fire 8’0” x 10’0” with 1⁄4&quot; latch option</td>
</tr>
<tr>
<td>CA Fire Code</td>
<td>All levers with a return to door of 1⁄4” (64 mm) or less comply (Rhodes, Sparta, Tubular and Omega)</td>
</tr>
</tbody>
</table>
and Miami Dade (TAS 201, 202, 203) requirements for hurricanes |
| Federal            | Meets FF-H-106C Series 161  
UL294, CSA C22.2 No. 205-M1983, FCC Part 15,  
IC RSS-210, RoHS |
General specifications - applies to mechanical, wired electrified & NDE wireless electronic

1. Provide Schlage ND Series cylindrical locks conforming to the following standards and requirements:
   a. ANSI/BHMA A156.2 Series 4000, Grade 1
   b. UL10C for 4’0” x 10’0” 3-hour firedoor
   c. Florida Building Code (ASTM E330, E1886, E1996) and Miami Dade (TAS 201, 202, 203) requirements for hurricanes

2. Provide cylindrical locks exceeding the ANSI/BHMA A156.2 Grade 1 performance standards for strength, security and durability in the categories below:
   a. Abusive locked lever torque – minimum 3,100 inch-pounds without gaining access
   b. Offset lever pull – minimum 1,600 foot pounds without gaining access
   c. Vertical lever impact – minimum 100 impacts without gaining access
   d. Cycle life – minimum 16 million cycles
      1) With no visible lever sag
      2) Without the use of performance aids (i.e. – set screws, spacers, etc.)

3. Provide locksets with solid cast levers and wrought roses on both sides. (ND mechanical, ND wired electrified)
   a. Lever design: Rhodes; Athens, Sparta, Tubular or Omega
   b. Rose design: Rhodes (used with Rhodes, Athens, Sparta, and Tubular levers) or Omega (used with Omega lever)
   c. OPTION (where required by Authority Having Jurisdiction)
      - Provide tactile warning (knurling) on levers on exterior (secure side) of doors serving rooms or areas considered to be hazardous.
   d. OPTION - Provide break away Rhodes levers for an additional level of security

4. Provide locksets with solid cast levers and cast escutcheons on both sides (NDE wireless electrified)
   a. Lever design: Rhodes; Athens or Sparta
   b. OPTION (where required by Authority Having Jurisdiction)
      - Provide tactile warning (knurling) on levers on exterior (secure side) of doors serving rooms or areas considered to be hazardous.
   c. OPTION - Provide break away Rhodes levers for an additional level of security

5. Provide locksets with solid steel anti-rotation through bolts and posts to control excessive lever rotation

6. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.

7. OPTION/Standard NDE wireless electrified – Provide Vandlgard/Free-Wheeling levers with vandal resistant technology for use at heavy traffic or abusive applications.

8. OPTION - Provide cylindrical locks with an inside indicator feature on a 626 finish for the Rhodes and Omega roses that provides clear direction for users to safely and quickly secure the room
   a. ND75 and ND95 – Standard
   b. ND60 and ND93 – OPTION

9. Provide locksets with standard latches featuring a 2 1/8” (70 mm) backset and a 1/8” latch throw capable of UL listing of 3 hours on a 4.0 x 10.0 opening. Provide proper latch throw for UL listing at pairs.

10. Provide standard ASA strikes unless extended lip strikes are required to protect trim.

11. OPTION ND mechanical – Provide reconfigurable lockset chassis that allows lock function to be changed to over twenty other common functions by swapping easily accessible parts

Add for ND wired electrified

12. Provide wired electrified options as scheduled in the hardware sets.
   a. 12 through 24V DC operating capability, autodetecting
   b. Selectable EL (Fail Safe)/EU (Fail Secure) operating mode via switch on chassis
   c. 0.230A (230mA) maximum current draw
   d. 0.010A (10mA) holding current
   e. Modular / “plug in” Request to Exit switch

Add for NDE wireless electronic

12. Provide lockset with additional standard compliance:
   a. Listed, UL 294 - standard of Safety for Access Control System Units
   b. Compliant with ANSI/BHMA A156.25 Grade 1 Operation and Security
   c. Certified to FCC Part 15

13. Provide credential reader module in the following configuration, as indicated in the door hardware sets. Multi-technology contactless reader shall be NFC-Compatible, including NFC Peer to Peer compatibility, and read access control data from both 125 kHz and 13.56MHz contactless smart cards.

14. Provide lockset with the following switches/monitors standard:
   a. Door Position Sensor (DPS)
   b. Interior cover tamper guard
   c. Request to Exit (RX) switch

15. Provide locksets with the following features
   a. Ability to communicate unit’s communication status
   b. Visual tri-colored LED indicator that indicates activation, operational systems status, system error conditions and low power conditions
   c. Audible feedback that can be enabled or disabled
   d. Tamper resistant torx screw on inside escutcheon

16. Provide lockset with open architecture characteristics capable of handling new and existing access control software and credential reading technology

17. Provide lockset powered by four AA batteries
   a. Provide locksets able to communicate battery status and battery voltage level by means of application on mobile device at the door or remotely via integrated software

1 Beyond grade 1 performance for ND locks with Schlage cylinders only (standard, FSIC & SFIC). Performance with non-Schlage cylinders will exceed BHMA grade 1 requirements but may be less than the performance of products with Schlage cylinders.
About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries.

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