RESIDENTIAL UNIT GUIDELINES

The Bedrock Residential Unit Guidelines for Design Professionals

Version 2.0
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SPEC SHEETS
RESIDENTIAL UNITS

The following features and finishes are guidelines for the design of Bedrock residential units, in new construction, adaptive reuse and capital expenditure projects. Designer’s selections should be based on design intent and aesthetics specific to the project.

GENERAL

1. Where hard lid ceilings are installed, the height is to be a minimum of 9’-0”. Where dropped ceilings are required (bulkheads/soffits or in areas such as foyers, closets, kitchens, dining rooms, bathrooms, laundry rooms and hallways), the ceiling height may be less than 9’-0” but more than 7’-8”.

2. Interior walls are to be primed and painted with two coats of Sherwin Williams designer white, quality latex paint in flat or egg-shell finish. Bathroom(s), and all woodwork and trim are to be painted with durable white egg-shell paint. Paints should have low levels of volatile organic compounds (VOCs).

3. Maximum of one accent color per unit. Location of accent walls to be approved by Owner.

4. When finishing ceilings and walls, use a Level 4 drywall and paint finish throughout.

5. Thermally broken double pane windows with increased air space are to be used for enhanced sound and thermal performance. Windows should be sealed, glazed and operable with aluminum window frames.

6. Window sills are to be finished in solid surface (granite, quartz, marble), where required. Window sill thickness shall be 1cm or as thin as possible. Example.

7. White window roller shades with solar screen fabric and 1% opacity to be used unless privacy may be an issue (bedrooms and bathrooms), then default to solid blackout roller shades. Example.

8. Interior doors are to be 80” hollow core (manufacturer’s standard size) complete with lever hardware and privacy sets on bedroom(s) and bathroom(s). Finish per designer’s selection.

9. Hollow core swing door(s) with lever hardware and dummy sets are to be used in closet/storage areas (finish specifications per designer’s selection).

10. Closet doors may be bypass or bi-fold doors where space is a concern. Preference for finger pull on bypass doors.

11. Coat and bedroom closets require a shelf with heavy duty rod (not wire system) mounted to accommodate standard hanger dimensions.
12. The wood trim package should be paint grade and include minimum size requirements of approximate 5.5” baseboards with approximate 3” casings.

13. Shoe molding to be provided where flooring inconsistencies occur or where applicable for historic design.

14. Carpet is not to be installed in residential units. Flooring throughout the residential units chosen per designer’s selection.

15. Plumbing fixture and hardware finishes to be consistent throughout the unit.

16. Plumbing fixture manufacturer to be consistent throughout unit, if possible.

17. Pex lines to be used for water supply within walls. Copper to be used where supply line is visible outside of wall.

18. Finishes of electrical fixtures to be consistent throughout the unit.

19. Grilles, registers and diffusers to be factory finished in designer white paint specified to match surrounding wall.

20. Bathroom doors shall not open towards toilet (vanity or wall should be visible when door open). See below for what **NOT TO DO:**
FOYER

1. An 84” solid core door with security peep hole, lever hardware and wifi lock system to be used at entry (see Technology/Security for wifi lock and hardware specification).

2. Door shall have a peephole viewer.

3. Door shall have a deadbolt lock or throw latch for additional unit security.

4. Door closer to be installed on unit entry door to provide soft close. Example.

5. Unit numbering to be mounted on adjacent wall (not on door). Design to be approved by Bedrock Architecture Team.

6. Provide non-wood, solid threshold between floor materials at unit entry.

KITCHEN

1. Kitchen cabinetry to follow the below guidelines:
   a. Designer to provide design intent; Millworker/supplier to provide shop drawings for Bedrock and designer review/approval.

2. Where refrigerator located next to a full wall, account for a 4” gap to allow for >90° door swing and refrigerator drawers to pull out. Designer to confirm refrigerator opening clearances.
   a. Millwork panel to be added between refrigerator and cabinet.

3. Cabinets to be centered on wall so end fillers are equal in width. Example: Attachment 1 – Cabinet Shop Drawings

4. Refrigerator door to swing open to working space.

5. Include at least one bank of [three to four] drawers at a minimum 15” width (21” preferred).

6. Cabinets complete with hardware per designer’s selection. Cabinet pulls to be a minimum length of 4”. Example.
   a. Bottom of upper cabinets not to exceed 20” above finished countertop and no less than 18”. In units with ceilings higher than 10’, the upper cabinets should be mounted at 20” above countertops.

b. Upper cabinets to be extended height, where possible (36” – 42”).

c. Interior and underside of cabinet box finish should be consistent with drawer interiors.

d. Consistent finish of exterior and interior cabinet doors.
e. Interior screw covers or caps to match interior of cabinets.

f. Rubber bumpers to be installed on cabinet doors and drawers. Cabinet drawers to also have soft close.

g. Preference for full-extension on cabinet drawers.

7. Microwaves should be mounted over the range in standard units. Microwaves should be under the counter in ADA units.

8. Ceiling light fixture to be centered over sink.

9. No under-cabinet lighting to be installed unless approved by Bedrock. Where under-cabinet lighting is specified, cabinets to conceal light fixtures.

10. Solid surface countertop to be 2cm with square edge. Countertop to be 3cm where slide-in range installed. Example.

11. Sink to be installed adjacent to backsplash and at least 24" from any drywall returns.

12. Finished countertop height to be 36” in standard units.

13. Island or peninsula to be installed where counterspace is limited. Avoid locating kitchen sink in island. Provide minimum 10” overhang on island countertop for seating. Provide one outlet with USB port.

14. Full height, solid-surface, non-permeable backsplash, per designer’s recommendation. Provide bullnose tile where exposed tile edges occur. Avoid Schluter strip where possible.

15. If Schluter strip is required, preference for Rondeck Schluter strip, which mimics bullnose. Example.

16. Grout to be earth tone/gray in color per designer’s selection (no white or black grout). Grout lines to be maximum of 1/8”.

17. Caulk should be used between countertop and backsplash. Color to match grout.

18. Stainless steel under-mount single sink per designer’s recommendation. Sink to have a minimum depth of 9”. Minimum length to be 23” and maximum length to be 30”. Sink to be under mount with sufficient drainage slope (no 90°edges in sink basin). See Attachment 2 – ELKAY sink.

19. Single lever kitchen faucet, with pull-down spray per designer’s recommendation. Example.
20. Garbage disposal to fit plumbing and cabinet specs with wall switch. Air switch to be installed when disposal is located in an island. When located in an island, include electrical connections per fixture/design specifications.

21. At least one outlet should include USB ports above counter (wall locations per Bedrock and designer).

22. If refrigerators include ice-makers then there should be a water shutoff and pan included at freezer wall.

<table>
<thead>
<tr>
<th>Standard Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
</tr>
<tr>
<td>----------------------------------------------------</td>
</tr>
<tr>
<td>Refrigerator (30” 18 cu-ft)</td>
</tr>
<tr>
<td>Electric Range (4.8 cu-ft)</td>
</tr>
<tr>
<td>OTR Microwave w/Recirculation Kit (1.7 cu-ft)</td>
</tr>
<tr>
<td>Dishwasher</td>
</tr>
<tr>
<td>Washer (500 Series - Stacked)</td>
</tr>
<tr>
<td>Dryer (500 Series - Stacked)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ADA Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
</tr>
<tr>
<td>----------------------------------------------------</td>
</tr>
<tr>
<td>Refrigerator (30” 18 cu-ft)</td>
</tr>
<tr>
<td>Electric Range (34”)</td>
</tr>
<tr>
<td>Range Hood (30” w/FIT System)</td>
</tr>
<tr>
<td>Microwave (1.7 cu-ft)</td>
</tr>
<tr>
<td>Dishwasher (Stainless Steel)</td>
</tr>
<tr>
<td>Washer (500 Series - Side-by-Side)</td>
</tr>
<tr>
<td>Dryer (500 Series - Side-by-Side)</td>
</tr>
</tbody>
</table>

LIVING & DINING AREAS

1. Surface-mounted fixture to be installed in living area. Track lighting to use suspension kit when not surface-mounted.
2. Provide three-way switches for flexible lighting controls between connected kitchen/dining areas.

3. Surface-mounted fixture to be installed in dining area.

4. At least one outlet in living area should include USB ports (wall locations per Bedrock and designer).

**LIBRARY/DEN/STUDY/OFFICE**

1. Surface mounted light fixture to be installed.

2. At least one outlet should include USB ports (wall location to be per Bedrock and designer).

**MASTER BEDROOM**

1. Minimum room dimensions of 10’x10’, must be able to accommodate a queen-sized bed while maintaining door openings.

2. Switched outlet(s) to be located per Bedrock and designer.

3. Outlets located on headboard wall should include USB ports.

**MASTER BATHROOM/ENSUITE**

1. Wall-mounted mirror should be centered on sink and should account for outlet locations; dimensions per designer.

2. A pure white cultured stone countertop mounted at 34”-36” in standard units with integrated basin and minimum 3” backsplash is preferred. If tile wainscoting approved, large-format tile is to be specified.

3. Single lever sink faucet is required. [Example](#).

4. Designer to confirm the length of faucet over sink basin.

5. Units with one bathroom shall have an acrylic alcove tub. In units with two or more bathrooms, one bathroom shall have a walk-in shower and one bathroom should have an acrylic tub.

6. The outside of shower doors should accommodate a towel rack. Door pulls per designer’s selection.

7. Shower stalls to have glass shower door in lieu of rod and curtain.

8. Tub to have fix-mounted shower curtain rod.

9. Soap and shampoo storage in shower and bath tubs required; preference is for two corner shelves (12” minimum height between shelves). Height to be...
determined by designer and coordinated with grout lines. Example: Attachment 3 – Corner Shelf

10. Provide blocking 15”-18” above finish shower floor for shaving ledge. Design team to propose specification.

11. Shower width of at least 32” preferred.

12. Shower head to be mounted at minimum of 7’-0” from finished shower or tub base and a maximum of 7’-4” from finished shower or tub base. Shower head to have a minimum 1.75 GPM (gallons per minute) flow rate. Example.

13. Shower door swing to accommodate showerhead and trim.

14. Solid surface tiles in tub/shower area to underside of ceiling. Tiles to be bullnose (no schluter strip). Example.

15. Grout to be earth tone/gray in color per designer’s selection (no white or black grout). Grout lines to be maximum of 1/8”.

16. Caulk should be used between vanity countertop and backsplash. Color to match grout.

17. Floor mounted single-piece comfort height toilet with elongated bowl and soft-close seat.

18. White bathroom fixtures should be used throughout (tub/sink/toilet).

19. Designer to confirm the length of faucet over sink basin.

20. Sconces to be mounted above or on sides of vanity, per designer’s recommendation.

21. Wall-mounted light fixture to be installed above vanities in bathroom(s) and powder room.

22. Ceiling light(s) to be installed in bathroom.

23. USB outlet to be installed on master bathroom/ensuite vanity.

24. Solid surface/tile floor per designer’s recommendation, with tile base. Example.

2ND/3RD BEDROOM

1. Switched outlets (wall location per Bedrock and designer).

2. Outlets on headboard wall should include USB ports.
2\textsuperscript{ND}/3\textsuperscript{RD} BATHROOM

1. Vanity mirror in clear finish with recessed medicine cabinet is preferred. 
   Example.

2. Medicine cabinet should be centered on sink and dimensioned to fit the width 
   of the vanity. Wall-mounted mirror may be installed in lieu of medicine cabinet 
   where sufficient storage is provided.

3. Pure white cultured stone countertop with integrated basin and minimum 3” 
   backsplash is preferred.

4. 60” acrylic tub with single lever faucet to be used per designer’s 
   recommendation. Minimum tub height should be 14”.

5. Soap and shampoo storage in shower and bath tubs required; preference is 
   for two corner shelves (minimum height between shelves of 12”). Example: 
   Attachment 3 – Corner Shelf

6. Shower head to be mounted at minimum of 7’-0” from finished floor and a 
   maximum of 7’-4” from finished floor. Example.

7. Solid surface bullnose tiles in tub/shower area to be installed in underside of 
   ceiling.

8. If tile wainscoting approved, large-format tile is to be specified.

9. Grout to be earth tone/gray in color per designer’s selection (no white or black 
   grout). Grout lines to be maximum of 1/8”.

10. Floor mounted single-piece comfort height toilet with elongated bowl 
    preferred. Toilet seat to have soft-close.

11. White bathroom fixtures to be used throughout (tub/sink/toilet).

12. Designer to confirm the length of faucet over sink basin.

13. Sconces to be mounted above or on sides of vanity, per designer’s 
    recommendation.

14. Ceiling light fixtures to be installed in bathroom. A fixture to be centered on 
    vanity.

15. Wall mounted light fixture to be installed above vanities in bathroom(s) and 
    powder room.

16. Solid surface/tile floor per designer’s recommendation, with tile base. 
    Example.
POWDER ROOM

1. Vanity mirror to be installed per designer’s recommendation.
2. Sconces to be mounted above or on sides of vanity, per designer’s recommendation.
3. White bathroom fixtures to be used throughout.
4. Solid surface/tile floor per designer’s recommendation, with tile base. Example.
5. Pure white cultured stone countertop with integrated basin and minimum 3” backsplash is preferred.

LAUNDRY ROOM/CLOSET

1. Vented applications: 27” white unit(s). Appliances to be Energy Star® rated.

<table>
<thead>
<tr>
<th>Standard Appliance Examples</th>
<th>ADA Appliance Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stacked W/D: Whirlpool 3.5</td>
<td>Washer: Whirlpool Compact Front Load</td>
</tr>
<tr>
<td>Stacked Vented W/D</td>
<td>Dryer: Whirlpool Front Load</td>
</tr>
</tbody>
</table>

2. Ventless applications: 24” front-loading stacked washer and dryer combination unit, white in color to be installed and ready for use. Washer to be Energy Star® rated.
3. Standard outlet heights for Bosch 500 Series. Example: Attachment 4 - WD Outlet Heights

<table>
<thead>
<tr>
<th>Standard Appliance Examples</th>
<th>ADA Appliance Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Washer: Bosch 24&quot; Compact</td>
<td>Washer: Bosch 24&quot; Compact</td>
</tr>
<tr>
<td>Dryer: Bosch 24&quot; Compact</td>
<td>Dryer: Bosch 24&quot; Compact</td>
</tr>
</tbody>
</table>

4. Heavy-duty wiring and receptacle for dryer required.
5. When ventless W/D Installed in closet, engineer to maximize air intake with overhead grille (size to be calculated by engineer).
6. Shelving to be installed as space permits.
TERRACES/BALCONIES
1. Balcony and terrace access via vinyl sliding patio or swing door(s) per designer’s recommendation.
2. All operable openings, including windows and Juliette balconies, should have inside screens unless dictated otherwise by historic requirements.
3. Balcony and terrace areas to have one exterior grade electrical receptacle.
4. Railings, lighting and flooring finish per designer’s selection.
5. Concrete slab floor to receive non-slip traffic coating.

LIGHTING & ELECTRICAL
1. Units will have individual electric service, separately metered.
2. LED lights to be used throughout.
3. White Decora series receptacles and switches to be used throughout. Example.
4. Ceiling light fixtures to be installed in foyer, hallway(s), kitchen, bathroom and library/den/study.
5. Ceiling light fixture to be installed in living room, as required.
6. Capped ceiling junction box to be installed in dining room.
7. Lighting color temperatures to fall within 3,000k and 3,700k.
   ○ Designer to provide a light level study for each space.
8. Living, kitchen, bedrooms, and den/office/study to receive wall outlets with USB ports (wall locations per Bedrock and designer).
9. Electrical/media panel shall be factory finished in designer white paint specified to match surrounding wall.
   ○ Preference for media panels to be located in closets.

TECHNOLOGY/SECURITY
1. Commend intercom systems permit guests to communicate with residents from the building entrance(s) and should be installed in residential buildings.
2. Hardwire locks and complimentary door hardware to be used. Example: Attachment 5– Sargent Catalogue and Selection Template
PRODUCT SPECIFICATIONS

Elkay Crosstown® Stainless Steel 25-1/2" x 18-1/2" x 9", Single Bowl Undermount Sink. Sink is manufactured from 18 gauge 304 Stainless Steel with a Polished Satin finish, Rear Right drain placement, and Sound Guard.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Type</td>
<td>Undermount</td>
</tr>
<tr>
<td>Material</td>
<td>304 Stainless Steel</td>
</tr>
<tr>
<td>Finish</td>
<td>Polished Satin</td>
</tr>
<tr>
<td>Gauge</td>
<td>18</td>
</tr>
<tr>
<td>Sound Deadening</td>
<td>Sound Guard</td>
</tr>
<tr>
<td>Number of Bowls</td>
<td>1</td>
</tr>
<tr>
<td>Sink Dimensions</td>
<td>25-1/2&quot; x 18-1/2&quot; x 9&quot;</td>
</tr>
<tr>
<td>Bowl 1 Dimensions</td>
<td>24&quot; x 17&quot; x 9&quot;</td>
</tr>
<tr>
<td>Drain Size</td>
<td>3-1/2&quot; (89mm)</td>
</tr>
<tr>
<td>Drain Location</td>
<td>Rear Right</td>
</tr>
<tr>
<td>Minimum Cabinet Size</td>
<td>30&quot;</td>
</tr>
<tr>
<td>Template Included</td>
<td>Yes</td>
</tr>
<tr>
<td>Cutout Template #</td>
<td>1000001380</td>
</tr>
</tbody>
</table>

Installation Profile:

1/8" OVERHANG

- Countertop
- Mounting Clip
- Sink
- Fastener (not furnished)
- Silicone Caulk (not furnished)

Designed to affix to the underside of any solid surface countertop.

OPTIONAL ACCESSORIES

- Bottom Grid: CTXBG2215
- Drain: LKDD, LK35
- Hardware: LKUCLIP8
- Sinkmate: LKSMHSL

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers’ offerings, be certain these features are not overlooked.
CORIAN® FLOATING CORNER SHELF

1” thick Rounded Front
FCS-R

1” thick Clipped Front
FCS-C

Featuring slotted back with 4 stainless steel pins included

OPTIONS: Add soap grooves to shelf

Sizes:
8” x 8” x 1” thick
7” x 7” x 1” thick
5” x 5” x 1” thick

TOP NOTCH PRODUCTS, INC.
Toll Free: 866.752.0329
Fax: 724.475.4008
topnotchproducts@windstream.net
www.corianproducts.com
ATTACHMENT 4
Side-by-Side Washer/Dryer
Centered behind each unit
32" to top of outlet

Top of Dryer Outlet: 60"

Top of Washer Outlet: 48"

Top of Stacked Washer/Dryer: 67"
ATTACHMENT 5
IN Series
IN120 WiFi & IN220 PoE

Intelligent IP-Enabled Access Control

Available through Authorized Channel Partners only.

Contact your local ASSA ABLOY Door Security Solutions sales consultant for details.
IN Series
Intelligent IP-Enabled Access Control

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IN Series FM7300 Series Multi-Point Locks 14
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Overview
The SARGENT IN Series brings you the next generation of IP-enabled access control in a sleek, minimalist design. With both WiFi and Power over Ethernet options, you can leverage your IT infrastructure to deliver advanced access control to more locations, with the flexibility and security of HID® multiCLASS SE® technology.

About ASSA ABLOY’s Authorized Channel Partner and Certified Integrator Programs
The SARGENT IN120 and IN220 are part of a stream of new ASSA ABLOY products that integrate with a facility’s access control system. These exciting new technology-rich products require an increase in knowledge to ensure the correct selection and implementation in various environments.

To aid our customers in this area, ASSA ABLOY has created two programs that provide the necessary training to sell, order, install and service our technology products, including Aperio wireless, Integrated Wiegand, IP-enabled and self-configurable intelligent components:

- The Authorized Channel Partner (ACP) program is open to resellers, who sell ASSA ABLOY’s technology products to certified integrators and help with product selection based on the application.
- The Certified Integrator (CI) program provides hands-on training for security systems integrators and network administrators.

Not only does this training familiarize certified integrator candidates with product features and applications, it also gives them valuable experience installing, commissioning and troubleshooting the products in a real-world environment.

For more information on the qualifications for becoming an ACP or CI, contact your local ASSA ABLOY Door Security Solutions sales consultant.
# IN Series
## Intelligent IP-Enabled Access Control

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>BENEFITS</th>
<th>IN120 WiFi Lock</th>
<th>IN220 PoE Lock</th>
</tr>
</thead>
<tbody>
<tr>
<td>Utilizes IEEE 802.3af PoE-enabled network infrastructure for both power and data</td>
<td>Streamlines the installation process, reducing costs</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Eliminates the need for any proprietary equipment</td>
<td>✓</td>
<td></td>
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<tr>
<td></td>
<td>Enables real-time communication</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Utilizes IEEE 802.11 WiFi infrastructure</td>
<td>Significantly reduces installation costs</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Eliminates the need for any proprietary equipment</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ideal for hard-to-wire locations</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Field-upgradable 802.11b/g/n radio</td>
<td>Interoperability with other WiFi equipment</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Future proof for constantly evolving WiFi standards</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>multiCLASS SE® Technology from HID Global®</td>
<td>Provides heightened security</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Supports:  - Multiple credential types  - HID Mobile Access® powered by Seos®, for iOS® and Android™ devices”</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Field selectable communication frequency</td>
<td>Allows you to balance security requirements with battery life</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Reduced energy consumption and product sustainability measures</td>
<td>Uses significantly less power consumption in standby mode than traditional access control</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Leverages existing network infrastructure</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Streamlined system architecture provides improved reliability and reduces materials</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Customizable feature set</td>
<td>Select only the features you need</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Easily add features as your requirements grow</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Intelligence built into lock for local decision making*</td>
<td>Lock operates regardless of network status</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Supports up to 2,400/10,000 users**</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Provides a 10,000 event transaction history/audit trail</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Privacy button</td>
<td>Enables shelter in place/local lockdown</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Offers privacy capabilities for applications such as restrooms</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Integrated ANSI/BHMA Grade 1 hardware, available in cylindrical lock, mortise lock, exit device, and multi-point lock configurations</td>
<td>Flexibility to support various openings</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Assurance of high quality SARGENT hardware</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Superior aesthetics</td>
<td>Blends into any environment seamlessly</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Designed to meet the requirements of designers and architects</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Available with a wide range of finishes and decorative levers</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Suites with other IN Series locks, regardless of technology</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

* Requires backup power for IN220

** Contact your access control system manufacturer for more information
 Credential Support:
Featuring HID® multiCLASS SE® technology, IN Series IP-enabled locks support the following credentials:
- 2.4 GHz credentials:
  - Secure Identity Object™ (SIO) on Mobile IDs (Bluetooth Smart)
- 13.56 MHz credentials:
  - iCLASS®
  - iCLASS SE® (SIO-enabled)
  - iCLASS® Seos®
  - SIO on MIFARE® Classic
  - SIO on MIFARE DESfire® EV1
  - MIFARE Classic
  - DESFire EV1
  - NFC-enabled mobile phones
- 125 kHz credentials:
  - HID Prox®

Technical Specifications
IN120
- Compatible with 802.11b/g/n wireless networks
IN220
- Conforms to IEEE 802.3af Class 1 standard, requiring less than 3.84 watts

Security:
- AES 128-bit encryption (IN120, IN220)
- IN120 supports current WiFi network security standards, including:
  - WEP, WPA and WPA2
  - 802.1x
- For specific security information, please contact your local ASSA ABLOY Door Security Solutions sales representative or call 800-810-Wire.

Software:
- Works with ASSA ABLOY IP-Enabled Access Control Partner software, allowing simple integration into existing or new systems
- Software Development Kits (SDK) and support available to integrate into other third party access control systems.
  Email: OEMSupport_Group@assaabloy.com for assistance.

Environmental Specifications:
- Operating temperature: -13°F (-25°C) to 151°F (66°C)
- Humidity: < 85% non-condensing
- Storage temperature: -22°F (-30°C) to 176°F (80°C)

EAC Regulatory Compliance:
- UL294 6th Edition (not applicable to FM7300)
- CAN/ULC S319 (not applicable to FM7300)
- BHMA A156.25 (not applicable to FM7300)

IN120 Battery Life

*Battery life data was calculated using Duracell batteries.
IN Series
Intelligent IP-Enabled Access Control

PoE (Power Over Ethernet) System Configuration

Electronic Access Control System

Ethernet

PoE-Enabled Ethernet

PoE-compatible Ethernet Hinge

Network cable through raceway

WiFi System Configuration

Electronic Access Control System

Internal Building Network

WiFi Access Point (IEEE 802.11b/g/n)
IN Series
Intelligent IP-Enabled Access Control

7900 Series Mortise Locks

Mechanical Features
- Certified to ANSI/BHMA A156.13 Series 1000 Grade 1
- UL/ULC Listed for fire doors*
- Motor driven 7900 Series Mortise Lock
- 3/4" projection stainless steel latchbolt, one-piece construction
- Steel deadbolt assembly with 13 gauge hardened steel insert, 1" (25mm) projection

For 1-3/4" (44mm) thick door standard. Consult factory for additional thicknesses
- Stainless steel non-handed deadlocking latch
- Not available with SC- or SE- options
- Handing easily field reversible without disassembling lock body
- Lever trim through-bolted for increased security and durability

Shipping Weight: Approx. 11 lbs.

IN Series Mortise Lock Functions
- Key outside always retracts latch
- Lever outside rigid except when valid credential presented
- Lever inside always retracts latch and deadbolt (if present)
- Guardbolt deadlocks latch
- Key override available with #41 cylinder supplied
- Low battery (for IN120), request-to-exit (REX) and tamper signaling standard
- EcoFlex™ technology offers improved battery life for IN120 mortise locks

52-5373 Door Position Switch (DPS)
Supplied with IN Series mortise locks
- SPST concealed switch (2-wire)
- 3/8" Diameter for wood door
- 3/4" Diameter for metal door
- Metal door adapter included

Note: The DPS is installed right above the lock faceplate and connects directly into the lock’s electronics

* Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.
## IN Series
Intelligent IP-Enabled Access Control

Select from the following options to order IN Series mortise locks:

### Technology
- 120 WiFi
- 220 PoE

### Function
- 7976 Key override and deadbolt
- 7978 Key override and no deadbolt
- 7977 Deadbolt and no key override
- 7979 No deadbolt and no key override

### Credentials
- **IP**
  - HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESfire® EV1 SE, HID Prox®, NFC-enabled mobile phones
- **BIP**
  - HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESfire® EV1 SE, HID Prox®, NFC-enabled mobile phones, Bluetooth Smart-enabled mobile phones
- **IPS**
  - All credentials supported by the IP option plus MIFARE Classic and DESfire EV1
- **CP**
  - FeliCa, HID Prox®, NFC-enabled mobile phones
- **BPS**
  - All credentials supported by the BIP option plus MIFARE Classic and DESfire EV1
- **BCP**
  - FeliCa, HID Prox®, NFC-enabled mobile phones, Bluetooth Smart-enabled mobile phones

### Reader
- **B** Black reader, black trim
- **W** White reader, white trim
- **MB** Black reader, metal trim
- **MW** White reader, metal trim

**Note:** Metal trim for the reader is supplied in the finish specified in the order string. It is not available in stainless steel (32/32D), but will be plated to match.

### Rose

![Rose Options]

**Note:** Suites with reader

### Lever
The levers shown here are some of our most popular styles from the Studio Collection. To see the complete range of available levers, please refer to pages 19-21.

- **MD**
- **MJ**
- **MI**
- **ND**
- **NJ**
- **MW**

### Finish
- 03 Bright brass (ANSI 605)
- 04 Satin brass (ANSI 606)
- 09 Bright bronze (ANSI 611)
- 10 Satin bronze, clear powder (ANSI 612)
- 10B Oxidized satin bronze oil rubbed (ANSI 613)
- 10BE Dark oxidized satin bronze — equivalent
- 10BL Oxidized satin bronze, clear powder coat
- 14 Bright nickel, clear coated (ANSI 618)
- 15 Satin nickel, clear coated (ANSI 619)
- 20D Dark statutory bronze, clear powder coat
- 26 Bright chrome (ANSI 625)
- 26D Satin chrome (ANSI 626)
- 32 Bright stainless steel (ANSI 629)*
- 32D Satin stainless steel (ANSI 630)*

### Handing
- **LH** Left hand
- **LHR** Left hand reverse
- **RH** Right hand
- **RHR** Right hand reverse

### Build Your Order String

<table>
<thead>
<tr>
<th>Technology</th>
<th>Function</th>
<th>Credentials</th>
<th>Reader</th>
<th>Rose</th>
<th>Lever</th>
<th>Finish</th>
<th>Handing</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN</td>
<td>7</td>
<td>9</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For additional cylinder and/or mechanical options, please refer to pages 20-23. Add the desired options to the beginning of your order string.

¹ 1KA square cylinder collar and 130KA square backplate automatically supplied with E2, E3 and E4 roses.
² Lever returns within ½” (13 mm) of door face.
³ Gramercy levers are customized. See page 18 for ordering information.
IN Series
Intelligent IP-Enabled Access Control

8200 Series Mortise Locks

**Mechanical Features**
- Certified to ANSI/BHMA A156.13 Series 1000 Operational Grade 1 and Security Grade 1
- UL/ULC Listed for fire doors*
- FCC certified
- Windstorm and Florida Building Code information is listed on page 16
- Motor driven 8200 Series Mortise Lock
- 3/4" stainless steel, anti-friction reversible latch
- Shipping Weight: Approx. 11 lbs.

**IN Series Mortise Lock Functions**
- Key outside always retracts latch
- Lever outside rigid except when valid credential presented
- Lever inside always retracts latch and deadbolt (if present)
- Guardbolt deadlocks latch
- Key override available with #41 cylinder supplied
- Low battery (for IN120), request-to-exit (REX), latch, guardbolt and tamper signaling standard

*Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

The IN120/IN220 8200 mortise lock with deadbolt is required for escape return functionality (a residential requirement in Canada). No other IN120/IN220 locks will support this requirement.
IN Series
Intelligent IP-Enabled Access Control

Select from the following options to order IN Series mortise locks:

<table>
<thead>
<tr>
<th>Technology</th>
<th>Function</th>
<th>Credentials</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 WiFi</td>
<td>82276 Key override and deadbolt*</td>
<td>BIP HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID MIFARE® SE, HID DESfire® EV1 SE, HID Prox®, NFC-enabled mobile phones</td>
</tr>
<tr>
<td>220 PoE</td>
<td>82278 Key override and no deadbolt</td>
<td>IPS All credentials supported by the IP option plus MIFARE Classic and DESfire EV1</td>
</tr>
<tr>
<td></td>
<td>82277 Deadbolt and no key override*</td>
<td>BIP All credentials supported by the BIP option plus MIFARE Classic and DESfire EV1</td>
</tr>
<tr>
<td></td>
<td>82279 No deadbolt and no key override</td>
<td>CP FeliCa, HID Prox®, NFC-enabled mobile phones</td>
</tr>
</tbody>
</table>

* Deadbolt required for escape return functionality (a residential requirement in Canada)

<table>
<thead>
<tr>
<th>Reader</th>
<th>Rose</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>LN</td>
</tr>
<tr>
<td>W</td>
<td>O</td>
</tr>
<tr>
<td>MB</td>
<td>E21</td>
</tr>
<tr>
<td>MW</td>
<td>E31</td>
</tr>
</tbody>
</table>

*Note: Metal trim for the reader is supplied in the finish specified in the order string. It is not available in stainless steel (32/32D), but will be plated to match.

Lever

The levers shown here are some of our most popular styles from the Studio Collection. To see the complete range of available levers, please refer to pages 19-21.

<table>
<thead>
<tr>
<th>Finish</th>
<th>Handing</th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td>LH</td>
</tr>
<tr>
<td>04</td>
<td>LHR</td>
</tr>
<tr>
<td>09</td>
<td>RH</td>
</tr>
<tr>
<td>10</td>
<td>RHR</td>
</tr>
</tbody>
</table>

Finish options:
- Bright brass (ANSI 605)
- Bright nickel, clear coated (ANSI 618)
- Satin brass (ANSI 606)
- Satin nickel, clear coated (ANSI 619)
- Satin bronze, clear powder (ANSI 612)
- Dark statuary bronze, clear powder coat (ANSI 619)
- Oxidized satin bronze oil rubbed (ANSI 613)
- Bright chrome (ANSI 625)
- Dark oxidized satin bronze — equivalent (ANSI 613)
- Satin chrome (ANSI 626)
- Oxidized satin bronze, clear powder coat (ANSI 613)
- Bright stainless steel (ANSI 629)*
- Satin stainless steel (ANSI 630)*

Build Your Order String

<table>
<thead>
<tr>
<th>Technology Function</th>
<th>Credentials</th>
<th>Reader</th>
<th>Rose</th>
<th>Lever</th>
<th>Finish</th>
<th>Handing</th>
<th>Opening Height (Inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN</td>
<td>8 2 2 7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For additional cylinder and/or mechanical options, please refer to pages 20-23. Add the desired options to the beginning of your order string.

¹1KA square cylinder collar and 130KA square backplate automatically supplied with E2, E3 and E4 roses.
²Lever returns within ½” (13 mm) of door face.
³Gramercy levers are customized. See page 18 for ordering information.
IN Series
Intelligent IP-Enabled Access Control

10 Line Cylindrical Locks

**Mechanical Features**
- Certified ANSI/BHMA A156.2 Series 4000 Grade 1
- UL/ULC Listed for fire doors*
- Motor driven cylindrical lock
- Latch Stainless Steel, 1/2” (13mm) throw
- 2-3/4” (70mm) backset standard
- For 1-3/4” (44mm) thick door standard. Consult factory for other thicknesses
- Handing easily field reversible without disassembling lock body
- Heavy duty lever spring return
- Steel mounting studs
- Not available with 10-UL-, 82-, 83-, 84- options

Shipping Weight: Approx. 9 lbs.

**IN Series Cylindrical Lock Functions**
- Key outside always retracts latch
- Lever outside rigid except when valid credential presented
- Lever inside always retracts latch
- Guardbolt deadlocks latch
- Key override standard with #C10-1 cylinder supplied
- Low battery (for IN120), request-to-exit (REX) and tamper signaling standard
- Door Position Switch (DPS, P/N 52-5373) supplied

**52-5373 Door Position Switch (DPS)**
Supplied with IN220 cylindrical locks
- SPST concealed switch (2-wire)
- 3/8” Diameter for wood door
- 3/4” Diameter for metal door
- Metal door adapter included

*Note: The DPS is installed right above the lock faceplate and connects directly into the lock’s electronics

**IN120/220 10 Line cylindrical locks are UL Certified and Listed as part of an approved assembly** to the following certifications and standards:
- UL Listed per ANSI/SDI-BHMA A250.13
- ANSI/ASTM E330-2002
- ANSI/ASTM E1886-2005
- ASTM E1996-2009
- Testing Application Standard (TAS) 201-1994
- Testing Application Standard (TAS) 202-1994
- Testing Application Standard (TAS) 203-1994
- UL Certification Directory ZHLL R21744
- Windstorm-rated Assemblies
- Listed on Florida Building Code Website: FL6728-R1
- Listed on Florida Building Code Website: FL4351-R1

1To meet assembly requirements, use in conjunction with doors from ASSA ABLOY Group brands CECO and CURRIES.
2Published in the “Florida Building Code”

*Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.
## IN Series

Intelligent IP-Enabled Access Control

Select from the following options to order IN Series cylindrical locks:

### Technology

<table>
<thead>
<tr>
<th>Code</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>120</td>
<td>WiFi</td>
</tr>
<tr>
<td>220</td>
<td>PoE</td>
</tr>
</tbody>
</table>

### Function

<table>
<thead>
<tr>
<th>Code</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>10G77</td>
<td>Key override</td>
</tr>
</tbody>
</table>

### Credentials

<table>
<thead>
<tr>
<th>Type</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP</td>
<td>HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos®, HID MIFARE® SE, HID DESFire® EV1 SE, HID Prox®, NFC-enabled mobile phones</td>
</tr>
<tr>
<td>IPS</td>
<td>All credentials supported by the IP option plus MIFARE Classic and DESFire EV1</td>
</tr>
<tr>
<td>CP</td>
<td>FeliCa, HID Prox®, NFC-enabled mobile phones</td>
</tr>
<tr>
<td>BIP</td>
<td>HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos®, HID MIFARE® SE, HID DESFire® EV1 SE, HID Prox®, NFC-enabled mobile phones, Bluetooth Smart-enabled mobile phones</td>
</tr>
<tr>
<td>BIPS</td>
<td>All credentials supported by the BIP option plus MIFARE Classic and DESFire EV1</td>
</tr>
<tr>
<td>BCP</td>
<td>FeliCa, HID Prox®, NFC-enabled mobile phones, Bluetooth Smart-enabled mobile phones</td>
</tr>
</tbody>
</table>

### Reader

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Black reader, black trim</td>
</tr>
<tr>
<td>W</td>
<td>White reader, white trim</td>
</tr>
<tr>
<td>MB</td>
<td>Black reader, metal trim</td>
</tr>
<tr>
<td>MW</td>
<td>White reader, metal trim</td>
</tr>
</tbody>
</table>

Note: Metal trim is supplied in the finish specified in the order string.

### Rose

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>Rose</td>
</tr>
</tbody>
</table>

### Lever

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>B</td>
</tr>
<tr>
<td>J</td>
<td>J*</td>
</tr>
<tr>
<td>L</td>
<td>L*</td>
</tr>
<tr>
<td>P</td>
<td>P*</td>
</tr>
</tbody>
</table>

### Finish

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td>Bright brass (ANSI 605)</td>
</tr>
<tr>
<td>04</td>
<td>Satin brass (ANSI 606)</td>
</tr>
<tr>
<td>09</td>
<td>Bright bronze (ANSI 611)</td>
</tr>
<tr>
<td>10</td>
<td>Satin bronze, clear powder (ANSI 612)</td>
</tr>
<tr>
<td>10B</td>
<td>Oxidized satin bronze oil rubbed (ANSI 613)</td>
</tr>
<tr>
<td>10BE</td>
<td>Dark oxidized satin bronze — equivalent</td>
</tr>
<tr>
<td>10BL</td>
<td>Oxidized satin bronze, clear powder coat</td>
</tr>
<tr>
<td>14</td>
<td>Bright nickel, clear coated (ANSI 618)</td>
</tr>
<tr>
<td>15</td>
<td>Satin nickel, clear coated (ANSI 619)</td>
</tr>
<tr>
<td>20D</td>
<td>Dark statuary bronze, clear powder coat</td>
</tr>
<tr>
<td>26</td>
<td>Bright chrome (ANSI 625)</td>
</tr>
<tr>
<td>26D</td>
<td>Satin chrome (ANSI 626)</td>
</tr>
</tbody>
</table>

### Handing

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LH</td>
<td>Left hand</td>
</tr>
<tr>
<td>LHR</td>
<td>Left hand reverse</td>
</tr>
<tr>
<td>RH</td>
<td>Right hand</td>
</tr>
<tr>
<td>RHR</td>
<td>Right hand reverse</td>
</tr>
</tbody>
</table>

### Build Your Order String

<table>
<thead>
<tr>
<th>Technology Function</th>
<th>Credentials</th>
<th>Reader</th>
<th>Rose</th>
<th>Lever</th>
<th>Finish</th>
<th>Handing</th>
<th>Opening Height (Inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN</td>
<td>1 0 G 7 7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For additional cylinder and/or mechanical options, please refer to pages 20-23. Add the desired options to the beginning of your order string.

* Lever returns within ½" (13 mm) of door face
IN Series
Intelligent IP-Enabled Access Control

80 Series Exit Devices

Mechanical Features

- Certified ANSI/BHMA A156.3 Grade 1
- Latch 3/4" (19mm) throw (8800: stainless steel, 8900: anti-friction brass)
- Cylinder requirements: 8800 Series uses a #34 Rim Cylinder; 8900 Series uses a #46 Mortise Cylinder (1-3/4"

Shipping Weight: Approx. 11 lbs.

IN Series Exit Device Functions

- Lever outside rigid except when in passage mode or valid user code entered
- Always allows free egress
- Request-to-Exit (REX): monitors rail position
- Low battery (for IN120), tamper signaling standard
- Door position switch (DPS, part #52-5373) supplied

* Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.
IN Series
Intelligent IP-Enabled Access Control

Select from the following options to order IN Series exit devices:

<table>
<thead>
<tr>
<th>Technology</th>
<th>Function</th>
<th>Credentials</th>
<th>Reader</th>
<th>Rail Size</th>
<th>ET Trim</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 WiFi</td>
<td>8977</td>
<td>HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESfire® EV1 SE, HID Prox®, NFC-enabled mobile phones</td>
<td>B</td>
<td>E: 24 - 32*</td>
<td>700 Series ET Trim</td>
</tr>
<tr>
<td>220 PoE</td>
<td>8978</td>
<td>All credentials supported by the IP option plus MIFARE Classic and DESfire EV1</td>
<td>BIP</td>
<td>F: 33 - 36*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8877</td>
<td>FeliCa, HID Prox®, NFC-enabled mobile phones</td>
<td>BIPS</td>
<td>J: 37 - 42*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8878</td>
<td>IPS All credentials supported by the IP option plus MIFARE Classic and DESfire EV1</td>
<td>BCP</td>
<td>G: 43 - 48*</td>
<td></td>
</tr>
</tbody>
</table>

**Reader**
- B Black reader, black trim
- W White reader, white trim
- MB Black reader, metal trim
- MW White reader, metal trim

**Rail Size**
- E: 24 - 32*
- F: 33 - 36*
- J: 37 - 42*
- G: 43 - 48*

**ET Trim**
- ET 700 Series ET Trim

**Finish**
- 03 Bright brass (ANSI 605)
- 04 Satin brass (ANSI 606)
- 09 Bright bronze (ANSI 611)
- 10 Satin bronze, clear powder coat (ANSI 612)
- 10B Oxidized satin bronze oil rubbed (ANSI 613)
- 10BE Dark oxidized satin bronze — equivalent
- 10BL Oxidized satin bronze, clear powder coat
- 14 Bright nickel, clear coated (ANSI 618)
- 15 Satin nickel, clear coated (ANSI 619)
- 20D Dark statutory bronze, clear powder coat
- 26 Bright chrome (ANSI 625)
- 26D Satin chrome (ANSI 626)
- 32 Bright stainless steel (ANSI 629)*
- 32D Satin stainless steel (ANSI 630)*

**Lever**
The levers shown here are some of our most popular styles from the Studio Collection. To see the complete range of available levers, please refer to pages 19-21.

<table>
<thead>
<tr>
<th>Handing</th>
<th>Door Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHR</td>
<td>Specify in inches</td>
</tr>
<tr>
<td>RHR</td>
<td>* Exit Devices ordered in 32 or 32D will have the ET trim and lever supplied in 26 or 26D; for nickel finished ET trim, specify 14 or 15 finish and the exit will be supplied in 32 or 32D accordingly.</td>
</tr>
</tbody>
</table>

**Build Your Order String**

For additional cylinder and/or mechanical options, please refer to pages 20-23. Add the desired options to the beginning of your order string.

1 Lever returns within ½" (13 mm) of door face.
2 Gramercy levers are customized. See page 18 for ordering information.
IN Series
Intelligent IP-Enabled Access Control

FM7300 Series Multi-Point Locks

Mechanical Features

- Certified to ANSI/BHMA A156.37 Series 1000 Operational Grade 1 and Security Grade 1
- Motor driven 8200 Series Mortise Lock
- 1-3/4" thick door only; fully integrated – FM7300 is part of a complete ASSA ABLOY windstorm solution utilizing Ceco StormPro® 361 and Curries StormPro® 361 doors and frames and McKinney® StormPro® hinges
- Stainless steel non-handed deadlocking latch

Shipping Weight: Approx. 11 lbs.

IN Series Multi-Point Lock Functions

- Lever outside rigid except when valid credential presented
- Lever inside always retracts latch and deadbolt
- Guardbolt deadlocks latch
- Low battery (for IN120), latch, guardbolt and tamper signaling standard

* Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

<table>
<thead>
<tr>
<th>MOUNTING</th>
<th>Supplied fasteners are for metal doors with through-bolts for trim</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAND</td>
<td>Handed; specify RHR, LHR, RH or LH</td>
</tr>
<tr>
<td>TOP BOLT</td>
<td>Adjustable stainless steel 3/4&quot; square bolt with 11/16&quot; engagement; 5/16&quot; steel reinforcement plate</td>
</tr>
<tr>
<td>BOTTOM BOLT</td>
<td>Adjustable stainless steel 3/4&quot; square bolt with 5/8&quot; engagement; 1/4&quot; steel reinforcement plate</td>
</tr>
<tr>
<td>CENTER BOLTS</td>
<td>Latchbolt is stainless steel with 3/4&quot; projection. One piece, anti-friction reversible catch. Deadbolt is one piece hardened stainless steel with 1&quot; projection</td>
</tr>
<tr>
<td>LOCK FRONT</td>
<td>1/8&quot; steel mortise front reinforced with 13/64&quot; thick lock edge stiffener</td>
</tr>
<tr>
<td>CENTER BOLT STRIKE</td>
<td>1/4&quot; thick stainless steel</td>
</tr>
<tr>
<td>BACKSET</td>
<td>2-3/4&quot; standard</td>
</tr>
<tr>
<td>DOOR THICKNESS</td>
<td>1-3/4&quot; standard</td>
</tr>
<tr>
<td>DOOR HEIGHT</td>
<td>7'0&quot; - 8'0&quot;</td>
</tr>
<tr>
<td>MAXIMUM OPENING</td>
<td>Single door 4'0&quot; x 8'0&quot; and double doors 8'0&quot; x 8'0&quot;</td>
</tr>
</tbody>
</table>
IN Series
Intelligent IP-Enabled Access Control

Select from the following options to order IN Series multi-point locks:

<table>
<thead>
<tr>
<th>Technology</th>
<th>Function</th>
<th>Credentials</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 WiFi</td>
<td>73277</td>
<td>Deadbolt, no key override</td>
</tr>
<tr>
<td>220 PoE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

BIP  HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS Seos™, HID MIFARE® SE, HID DESfire® EV1 SE, HID Prox®, NFC-enabled mobile phones, Bluetooth Smart-enabled mobile phones
BIPS All credentials supported by the BIP option plus MIFARE Classic and DESfire EV1
CP FeliCa, HID Prox®, NFC-enabled mobile phones
IPS All credentials supported by the IP option plus MIFARE Classic and DESfire EV1
IPS All credentials supported by the IP option plus MIFARE Classic and DESfire EV1

Reader
B Black reader, black trim
W White reader, white trim
MB Black reader, metal trim
MW White reader, metal trim

Note: Metal trim for the reader is supplied in the finish specified in the order string. It is not available in stainless steel (32/32D), but will be plated to match.

Rose
LN 2-1/16" (52.39mm)
O 2-3/4" (69.85mm)
E2 2-3/4" (69.85mm)
E3 2-11/16" (68.26mm)
E4 2-11/16" (68.26mm)

Suites with reader

Lever
The levers shown here are some of our most popular styles from the Studio Collection. To see the complete range of available levers, please refer to pages 19-21.

MD MJ MI
ND² NJ² MW²

Finish
03 Bright brass (ANSI 605)
04 Satin brass (ANSI 606)
09 Bright bronze (ANSI 611)
10 Satin bronze, clear powder (ANSI 612)
10B Oxidized satin bronze oil rubbed (ANSI 613)
10BE Dark oxidized satin bronze — equivalent
10BL Oxidized satin bronze, clear powder coat
14 Bright nickel, clear coated (ANSI 618)
15 Satin nickel, clear coated (ANSI 619)
20D Dark statutory bronze, clear powder coat
26 Bright chrome (ANSI 625)
26D Satin chrome (ANSI 626)
32 Bright stainless steel (ANSI 629)*
32D Satin stainless steel (ANSI 630)*

Handing
LH Left hand
LHR Left hand reverse
RH Right hand
RHR Right hand reverse

Build Your Order String

<table>
<thead>
<tr>
<th>Technology</th>
<th>Function</th>
<th>Credentials</th>
<th>Reader</th>
<th>Rose</th>
<th>Lever</th>
<th>Finish</th>
<th>Handing</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN</td>
<td>FM 7 3 2 7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For additional mechanical options please refer to pages 20-23. Add the desired options to the beginning of your order string.

¹1KA square cylinder collar and 130KA square backplate automatically supplied with E2, E3 and E4 roses.
²Lever returns within ½" (13 mm) of door face.
³Gramercy levers are customized. See page 18 for ordering information.
IN Series
Intelligent IP-Enabled Access Control

Hard Power Option (91-) for IN120

The Hard Power option (91-) is recommended for high traffic doors or openings that require online behavior. Hard powering an IN120 allows the lock to operate in an always connected mode. The IN120 allows hard powering via an input of 12 to 24V DC and draws 200mA at 12V DC in always connected mode. SARGENT offers a range of power supplies suitable for this application.

12VDC & 24VDC Power Supplies

- UL Class 2 Listed filtered and regulated supply
- Four 12V models and four 24V models available
- Integral battery charging capability keeps sealed lead acid gel/cell at full charge in case of line voltage failure (737-battery sold separately)
- Fused line voltage input with one, four, or eight DC outputs (depending on model)

Each circuit can be individually turned on and off via a slide switch; the power status of each is shown by an LED
In the event of a DC short, the problem is confined to the zone of difficulty
Fire alarm interface standard

ElectroLynx® hinges and harnesses required for hard-powered IN120 applications are available through McKINNEY.

52-4824 IN120 Adapter Cable

- Included with 91- prefix option IN120 units
- Compatible with ElectroLynx® system

Allows for hard powering (91-) of IN120 (required for certain monitoring features)

PoE Hinges for IN220

The following are required system components ordered through McKINNEY. Please note that one electrified hinge, one door harness assembly and one frame harness assembly are required for each PoE opening.

McKinney ElectroLynx®

PoE Door & Frame Harnesses

<table>
<thead>
<tr>
<th>Door Width</th>
<th>Cable Length</th>
<th>Wood Door</th>
<th>Hollow Metal Door</th>
</tr>
</thead>
<tbody>
<tr>
<td>28&quot; to 31&quot;</td>
<td>36&quot;</td>
<td>PoE-C300RJ</td>
<td>PoE-C300PRJ</td>
</tr>
<tr>
<td>32&quot; to 36&quot;</td>
<td>42&quot;</td>
<td>PoE-C306RJ</td>
<td>PoE-C306PRJ</td>
</tr>
<tr>
<td>37&quot; to 42&quot;</td>
<td>48&quot;</td>
<td>PoE-C400RJ</td>
<td>PoE-C400PRJ</td>
</tr>
<tr>
<td>43&quot; to 48&quot;</td>
<td>54&quot;</td>
<td>PoE-C406RJ</td>
<td>PoE-C406PRJ</td>
</tr>
</tbody>
</table>

All are Cat5e, 26 AWG, Shielded, Stranded, 100 Ohm

*See the McKINNEY catalog for additional finishes and hinge types

The PoE door & frame harnesses can accommodate a variety of new (with raceway) and retrofit applications.

Patent pending and/or patent www.assaabloydss.com/patents
IN Series
Intelligent IP-Enabled Access Control

IN220 PoE System Architecture

Supplied by CI
- B-Splice Crimp Connector
- Ceiling: RJ45-M

Supplied by End User
- PoE Switch
- Patch Cable: Patch Panel to PoE Switch
- Patch Panel: Drain Wire Terminated on Rack
- Approved Software

Certified Integrator (CI) supplies and terminates: the B-Splice connector and the male RJ45 connector from harness to end user provided facility cable.

B-Splice Crimp Connector
- Cable: Cat 5e or higher, 24 AWG

To building or electrical ground
- RJ45-F Jack

24AWG: Stranded, 100ohm Drain Wire for Earth Ground in 15' Frame Harness

Frame-Side Harness Assembly (15' length)

Cable drain wire, concealed in shrink tubing

PoE Lock
- Cable: Cat 5e, 26 AWG stranded, 100ohm, RJ45-M

Ground
- Ring Terminal Secured to Lock Mounting Plate

Wiring to TIA/EIA 568-B Standard

Approved Software

Certified Integrator (CI) supplies and terminates: the B-Splice connector and the male RJ45 connector from harness to end user provided facility cable.
IN Series
Intelligent IP-Enabled Access Control

Accessories and Software

Cover Plate Kits

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>79-5000 32D</td>
<td>Mortise lock, IN120/IN220-7976 (key override, with deadbolt), 32D finish</td>
</tr>
<tr>
<td>79-5001 32D</td>
<td>Mortise lock, IN120/IN220-7977 (no key override, with deadbolt), 32D finish</td>
</tr>
<tr>
<td>79-5002 32D</td>
<td>Mortise lock, IN120/IN220-7978 (key override, no deadbolt), 32D finish</td>
</tr>
<tr>
<td>79-5003 32D</td>
<td>Mortise lock, IN120/IN220-7979 (no key override, no deadbolt), 32D finish</td>
</tr>
<tr>
<td>10-5008 32D</td>
<td>Cylindrical lock, IN120/IN220-10G77 (with key override), 32D finish</td>
</tr>
</tbody>
</table>

WFCD1 Network and Lock Configuration Tool Kit*

- Contains:
  - LCT software
  - Serial adapter cable (P/N 52-3956)
  - Users’ manual (on CD)
  - Quick start guide
  - Configuration cards (to configure iCLASS Only Locks)
  - USB cable (P/N 52-1635)
- Required to configure network settings of IN220 locks

DHTA Power over Ethernet (PoE) Cable and Data Hinge Test Adapter for IN220

- Developed for troubleshooting SARGENT PoE locks, the ASSA ABLOY PoE cable and data hinge test adapter verifies your PoE installation in the field. Sold as a kit containing two test adapters, it allows you to verify proper wiring from the door frame to the PoE data hinge and lock, or test the frame, hinge or door cables independently. This test tool helps answer the question “Is the problem in the lock or in the wiring to the lock?” and will save you troubleshooting time.

- The DHTA works in conjunction with the following products or their equivalent, provided by others:
  - BK Precision model 231A
  - FLUKE DTX 1800 CableAnalyzer™
  - Two (2) Category 5e patch cables, each (10) feet in length

* The Network and Lock Configuration CD Tool Kit (WFCD1) is required to set up IN120 and IN220 locks. Only one is required per system. Lock Management Tool or a compatible system is also required.
IN Series
Intelligent IP-Enabled Access Control

Lock Management Tool

Lock Management Tool™ (LMT) allows programming, interrogation and overall management of ASSA ABLOY PoE locks from a centralized location for up to 50 doors. The application facilitates communication from a computer to the locks via IEEE 802.11af PoE infrastructure. The LMT program allows an administrator to establish multiple user types, time zones, holidays, user groups, auto-unlock periods and to obtain transaction history from all locks connected to the system.

LMT consists of a server based installation (a small workstation will be sufficient) with most of the daily administration and configuration being done through a web browser. A local client on the server can be used for more complex configuration tasks.

Features:
- Password protected database
- User database size based on local hardware configuration
- Allows for creation of user groups
- Easy to follow data entry
- Real-time clock with date and time
- Sixteen different time zones
- Holiday support
- Auto-unlock schedule with or without “first in” unlock
- Allows viewing of system wide events and history (total number of events based on local hardware configuration) – includes event type, date, time, user ID and name
- Configurable for all major HID® Prox 125 kHz or iCLASS® 13.56 MHz card formats
- Scheduler utility to establish lock communication at pre-defined intervals
- User manual included
- Browser-based user interface
- Simple drag-and-drop configurations
- Basic alarm monitoring
- Operating System:
  - Windows XP 32bit, Server 2003 32bit, Vista 32/64bit, Win7 32/64bit, or Server 2008/2008R2

Note: IP address must be assigned by authorized network administrator and PC must utilize a static IP address

Requirements:
- Hardware:
  - Memory: 2 GB minimum, 4 GB+ recommended
  - Storage: 20 GB free hard disk space
  - Processor: Dual Core/(min Pentium IV w/HT) @ 2GHz (or equivalent) or faster
  - Screen: 800 x 600 required; 1024 x 768 Recommended
  - Network Card required
  - CD-ROM required
  - RS232 Serial Port (DB9)

ASSA ABLOY, the global leader in door opening solutions
IN Series
Intelligent IP-Enabled Access Control

WFCD2 Lock Management Tool (LMT) 25 Door License
- Lock Management Tool™ allows programming, interrogation and overall management from a centralized location of up to 25 doors
- License is included and is obtained at time of installation
- Download from IntelligentOpenings.com

WFCD3 Lock Management Tool (LMT) 50 Door License
- Lock Management Tool™ allows programming, interrogation and overall management from a centralized location of up to 50 doors
- License is included and is obtained at time of installation
- Download from IntelligentOpenings.com

Integration Tools for ASSA ABLOY Locks
ASSA ABLOY electronic access control locks integrate with a range of industry-leading access control systems. For more information on which systems support our IP-enabled locks, please contact your local ASSA ABLOY Door Security Solutions office, www.assaabloydss.com. To learn more about how to integrate these and other ASSA ABLOY products with your system, please call 800-810-WIRE.
IN Series
Intelligent IP-Enabled Access Control

Standard Levers (7900 Mortise Locks)

- All levers meet ADA national code requirements
- Lever designs BJ, BL and BP have lever returns within 1/2" (13mm) of door face

Levers BB, BL, BJ & BP are only available with the O rose

<table>
<thead>
<tr>
<th>BB</th>
<th>BJ</th>
<th>BL</th>
<th>BP</th>
</tr>
</thead>
<tbody>
<tr>
<td>![BB Image]</td>
<td>![BJ Image]</td>
<td>![BL Image]</td>
<td>![BP Image]</td>
</tr>
</tbody>
</table>

Standard Levers (8200 Mortise Locks, 80 Series Exit Devices, and FM7300 Series Multi-Point Locks)

- All levers meet ADA compliance for national codes
- Solid forged or cast
- Lever designs J, L and P have lever returns within 1/2" (13mm) or less of door face and meet California State Reference Fire Code
- All lever height (+/- 1/16") measurements represent total distance from door face

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>![A Image]</td>
<td>![B Image]</td>
<td>![E Image]</td>
<td>![F Image]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J</th>
<th>L</th>
<th>P</th>
<th>W</th>
</tr>
</thead>
</table>

Standard lever options are only available with O roses.
IN Series
Intelligent IP-Enabled Access Control

Standard Levers (10 Line Cylindrical Locks)
- All levers meet ADA compliance for national codes
- Solid forged or cast
- Lever designs C, J, L and P have lever returns within 1/2” (13mm) or less of door face and meet California State Reference Fire Code
- All lever height (+/- 1/16”) measurements represent total distance from door face

B

J

L

P

The Coastal Series (Mortise Locks, Cylindrical Locks - Gulfport and Yarmouth only, or Exit Devices, and FM7300 Series Multi-Point Locks)
- All levers meet ADA compliance for national codes
- Not available with CO and TO roses
- Levers are solid cast brass
- Finishes available — 3, 4, 9, 10, 10B, 10BE, 10BL, 14, 15, 20D, 26, 26D
- All lever height (+/- 1/16”) measurements represent total distance from door face

G - Gulfport™ (Handed)

R - Rockport™

S - Sanibel™ (Handed)

Y - Yarmouth™ (Handed)
Studio Collection trim is available in a broad array of designs and finishes. It allows for uniformity throughout a facility using the 8200, R8200 and 7900 Series Mortise Locks, Access Control Products, 80 Series Exits Devices, DL, RDL Series Tubular Locks, and FM7300 Series Multi-Point Locks.

All levers meet ADA compliance for national codes. Visit the online Decorative Hardware Product Selector at selector.sargentlock.com to mix and match styles and finishes.

**Wooster Square Series**

- H001
- H002²
- H003
- H004
- H005²
- H006²

**Aventura Series**

- MB
- ME
- MF
- NF
- MG
- MI
- MW²

**Gramercy Series³**

- RCM
- RAL
- REM
- RAM
- RAS
- RAW
- RAG
- RGM

**Centro Series**

- MC¹
- MD
- MJ
- MP
- ND²
- NJ²

**Odéon Series (Handed Levers)**

- MN
- MH
- MK
- MS
- MU
- MV
- MX²
- NS²
- NU²

**Rialto Series (MZ Lever is Handed)**

- MO
- MZ²

**Notting Hill Series (Handed Levers)**

- MA¹
- MQ
- MT
- MM
- MY²

**Grant Park Series**

- H007
- H008
- H009
- H010
- H011

---

1 Contact factory for current lead times
2 Lever returns within 1/2" (13mm) of door face
3 Gramercy levers are customized. See page 18 for ordering information

**Note:** H003 - H006 contains white or black polycarbonate insert.
**IN Series**
Intelligent IP-Enabled Access Control

### Available Finishes

**03 Polished Brass**

**04 Satin Brass**

**09 Polished Bronze**

**10 Satin Bronze**

**10B Oxidized Bronze**

**10BE Dark Oxidized Satin Bronze — equivalent**

**10BL Oxidized Satin Bronze**

**20D Statuary Dark Bronze**

**14 Polished Nickel**

**15 Satin Nickel**

**26 Polished Chrome**

**26D Satin Chrome**

**32 Polished Stainless Steel**

**32D Satin Stainless Steel**

---

### Standard Roses

- **L**
  - 3/16" (8mm)

- **O**
  - 2-1/4" (57mm)

- **E** (Handed)
  - 3-1/16" (78mm)

- **LN**
  - 2" (51mm)

### Coastal Series Roses

- **TR Traditional Rose** (Dual radii edge)
  - 2-3/16" (56mm)

- **CR Contemporary Rose** (Beveled edge)
  - 2-3/16" (56mm)

---

**IN Series**
Intelligent IP-Enabled Access Control

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Intelligent IP-Enabled Access Control

**Available Finishes**

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Intelligent IP-Enabled Access Control

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**32D Satin Stainless Steel**
IN Series
Intelligent IP-Enabled Access Control

Studio Collection Trim

Roses (7900, 8200, and FM7300 Series Multi-Point Locks)

<table>
<thead>
<tr>
<th>Finish</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td>Polished Brass</td>
</tr>
<tr>
<td>04</td>
<td>Satin Brass</td>
</tr>
<tr>
<td>09</td>
<td>Polished Bronze</td>
</tr>
<tr>
<td>10</td>
<td>Satin Bronze</td>
</tr>
<tr>
<td>10B</td>
<td>Oxidized Bronze</td>
</tr>
<tr>
<td>10BE</td>
<td>Dark Oxidized Satin Bronze — equivalent</td>
</tr>
<tr>
<td>10BL</td>
<td>Oxidized Satin Bronze</td>
</tr>
<tr>
<td>20D</td>
<td>Statuary Dark Bronze</td>
</tr>
<tr>
<td>14</td>
<td>Polished Nickel</td>
</tr>
<tr>
<td>15</td>
<td>Satin Nickel</td>
</tr>
<tr>
<td>26</td>
<td>Polished Chrome</td>
</tr>
<tr>
<td>26D</td>
<td>Satin Chrome</td>
</tr>
<tr>
<td>32</td>
<td>Polished Stainless Steel</td>
</tr>
<tr>
<td>32D</td>
<td>Satin Stainless Steel</td>
</tr>
</tbody>
</table>

Available Finishes

Thumbturns (7900, 8200, and FM7300 Series Multi-Point Locks)

Thumbturn backplate will match rose design chosen. Specify T1, T2 or T3 as a prefix option for decorative turns.

<table>
<thead>
<tr>
<th>Finish</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td>Polished Brass</td>
</tr>
<tr>
<td>04</td>
<td>Satin Brass</td>
</tr>
<tr>
<td>09</td>
<td>Polished Bronze</td>
</tr>
<tr>
<td>10</td>
<td>Satin Bronze</td>
</tr>
<tr>
<td>10B</td>
<td>Oxidized Bronze</td>
</tr>
<tr>
<td>10BE</td>
<td>Dark Oxidized Satin Bronze — equivalent</td>
</tr>
<tr>
<td>10BL</td>
<td>Oxidized Satin Bronze</td>
</tr>
<tr>
<td>20D</td>
<td>Statuary Dark Bronze</td>
</tr>
<tr>
<td>14</td>
<td>Polished Nickel</td>
</tr>
<tr>
<td>15</td>
<td>Satin Nickel</td>
</tr>
<tr>
<td>26</td>
<td>Polished Chrome</td>
</tr>
<tr>
<td>26D</td>
<td>Satin Chrome</td>
</tr>
<tr>
<td>32</td>
<td>Polished Stainless Steel</td>
</tr>
<tr>
<td>32D</td>
<td>Satin Stainless Steel</td>
</tr>
</tbody>
</table>

¹ 1KA square cylinder collar and 130KA square backplate automatically supplied with E2, E3 and E4 roses.

ASSA ABLOY, the global leader in door opening solutions
IN Series
Intelligent IP-Enabled Access Control

Ordering Gramercy Series Levers

REM, RGM

RCM

RAG, RAL, RAM, RAS, RAW

Gramercy Finish Codes

<table>
<thead>
<tr>
<th>BHMA FINISH</th>
<th>SARGENT FINISH</th>
<th>GRAMERCY CODE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>630</td>
<td>32D</td>
<td>30</td>
<td>Satin Stainless Steel</td>
</tr>
<tr>
<td>629</td>
<td>32</td>
<td>29</td>
<td>Bright Stainless Steel</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>BH</td>
<td>Wood insert</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>BK</td>
<td>Black (Santoprene™ or leather insert)</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>BN</td>
<td>Brown (leather insert)</td>
</tr>
</tbody>
</table>

**Code used to specify Gramercy Series finishes only. Use available finishes list to specify desired finish when ordering.**

Gramercy Lever Descriptions and Available Finishes

<table>
<thead>
<tr>
<th>LEVER DESIGNATION</th>
<th>LEVER DESCRIPTION</th>
<th>AVAILABLE FINISHES (AS ORDERED)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAG</td>
<td>Grooved Insert</td>
<td>2929 or 3030</td>
</tr>
<tr>
<td>RAL</td>
<td>Leather Insert</td>
<td>29BK29, 29BN29 or 30BK30, 30BN30</td>
</tr>
<tr>
<td>RAM</td>
<td>Metallic Insert</td>
<td>2930** only</td>
</tr>
<tr>
<td>RAS</td>
<td>Santoprene Insert</td>
<td>29BK29 or 30BK30</td>
</tr>
<tr>
<td>RAW</td>
<td>Wood Insert</td>
<td>29BH29 or 30BH30</td>
</tr>
<tr>
<td>RCM</td>
<td>Raised Band</td>
<td>2929, 3030 or 2930**</td>
</tr>
<tr>
<td>REM</td>
<td>Plain</td>
<td>2929 or 3030</td>
</tr>
<tr>
<td>RGM</td>
<td>Two Grooves</td>
<td>2929 or 3030</td>
</tr>
</tbody>
</table>

**Two-tone finish — grip of lever is 32D, balance of lever is 32. Rose/escutcheon and lock finish will be 32.**

When specifying finish, use the last two digits of the BHMA standard finish code, i.e. use “29” for polished stainless, BHMA finish 629.
### Replacement Parts

#### Reader Modules**1**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-120-EM01-(B)P-B</td>
<td>HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS Seos™, HID MIFARE® SE, HID DESfire® EV1 SE, HID Prox®, NFC-enabled mobile phones; black</td>
</tr>
<tr>
<td>IN-120-EM01-(B)P-W</td>
<td>HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS Seos™, HID MIFARE® SE, HID DESfire® EV1 SE, HID Prox®, NFC-enabled mobile phones; white</td>
</tr>
<tr>
<td>IN-120-EM01-(B)P-MB-[finish]*</td>
<td>HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS Seos™, HID MIFARE® SE, HID DESfire® EV1 SE, HID Prox®, NFC-enabled mobile phones; black with metal trim</td>
</tr>
<tr>
<td>IN-120-EM01-(B)P-MW-[finish]*</td>
<td>HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS Seos™, HID MIFARE® SE, HID DESfire® EV1 SE, HID Prox®, NFC-enabled mobile phones; white with metal trim</td>
</tr>
<tr>
<td>IN-120-EM01-(B)IPS-B</td>
<td>All credentials supported by the IP option plus MIFARE Classic and DESfire EV1; black</td>
</tr>
<tr>
<td>IN-120-EM01-(B)IPS-W</td>
<td>All credentials supported by the IP option plus MIFARE Classic and DESfire EV1; white</td>
</tr>
<tr>
<td>IN-120-EM01-(B)IPS-MB-[finish]*</td>
<td>All credentials supported by the IP option plus MIFARE Classic and DESfire EV1; black with metal trim</td>
</tr>
<tr>
<td>IN-120-EM01-(B)IPS-MW-[finish]*</td>
<td>All credentials supported by the IP option plus MIFARE Classic and DESfire EV1; white with metal trim</td>
</tr>
<tr>
<td>IN-120-EM01-(B)CP-B</td>
<td>FeliCa, HID Prox®, NFC-enabled mobile phones; black</td>
</tr>
<tr>
<td>IN-120-EM01-(B)CP-W</td>
<td>FeliCa, HID Prox®, NFC-enabled mobile phones; white</td>
</tr>
<tr>
<td>IN-120-EM01-(B)CP-MB-[finish]*</td>
<td>FeliCa, HID Prox®, NFC-enabled mobile phones; black with metal trim</td>
</tr>
<tr>
<td>IN-120-EM01-(B)CP-MW-[finish]*</td>
<td>FeliCa, HID Prox®, NFC-enabled mobile phones; white with metal trim</td>
</tr>
</tbody>
</table>

#### Inside Escutcheon

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-EM02-B</td>
<td>Black</td>
</tr>
<tr>
<td>IN-EM02-W</td>
<td>White</td>
</tr>
<tr>
<td>IN-EM02-MB-[finish]*</td>
<td>Black with metal trim</td>
</tr>
<tr>
<td>IN-EM02-MW-[finish]*</td>
<td>White with metal trim</td>
</tr>
</tbody>
</table>

#### 52-5373 Door Position Switch (DPS)

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SPST concealed switch (2 wire)</td>
<td></td>
</tr>
<tr>
<td>Metal door adapter included</td>
<td></td>
</tr>
<tr>
<td>3/8&quot; diameter for wood door</td>
<td></td>
</tr>
<tr>
<td>3/4&quot; diameter for metal door</td>
<td></td>
</tr>
<tr>
<td>Supplied with IN120/IN220 cylindrical and mortise locks</td>
<td></td>
</tr>
</tbody>
</table>

**1 Readers and lockbodies can be used for both IN120 and IN220**

* Specify finish

** Add B for Bluetooth® Smart support
## IN Series
Intelligent IP-Enabled Access Control

<table>
<thead>
<tr>
<th>Mechanical Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ADD STRENGTH</strong></td>
<td>3- Stainless steel hubs for institutional specifications (mortise locks only)</td>
</tr>
<tr>
<td>WBS-</td>
<td>Wrought Box Strike</td>
</tr>
<tr>
<td><strong>10 LINE BRACKET OPTIONS</strong></td>
<td>20- 2-3/8&quot; Backset Latch with 1&quot; Front</td>
</tr>
<tr>
<td>23- 3-3/4&quot; Backset x 2-1/4&quot; x 1-1/8&quot; Front (10 Line only)</td>
<td></td>
</tr>
<tr>
<td>25- 5&quot; Backset x 2-1/4&quot; x 1-1/8&quot; Front (10 Line only)</td>
<td></td>
</tr>
<tr>
<td><strong>SECURITY FASTENERS</strong></td>
<td>36- Six lobe security head screws</td>
</tr>
<tr>
<td>37- Spanner head screws</td>
<td></td>
</tr>
<tr>
<td><strong>3/4&quot; LATCH THROW</strong></td>
<td>41- 3/4&quot; (19mm) throw latch x 2-3/4&quot; (70mm) backset (10 Line only)</td>
</tr>
<tr>
<td><strong>TACTILE WARNING OPTIONS</strong></td>
<td>75- Tactile Warning — Milled Inside Lever</td>
</tr>
<tr>
<td>76- Tactile Warning — Milled Outside Lever</td>
<td>(Not available with Studio and Coastal Levers and the A Lever)</td>
</tr>
<tr>
<td>77- Tactile Warning — Milled Inside and Outside Lever</td>
<td>(Not available with Studio and Coastal Levers and the A Lever)</td>
</tr>
<tr>
<td>85- Tactile Warning — Abrasive Coating on Inside Lever</td>
<td></td>
</tr>
<tr>
<td>86- Tactile Warning — Abrasive Coating on Outside Lever</td>
<td></td>
</tr>
<tr>
<td>87- Tactile Warning — Abrasive Coating on Outside Lever</td>
<td></td>
</tr>
<tr>
<td><strong>FINISH PROTECTION</strong></td>
<td>CPC- Clear Powder Coat (Available for 26, 26D, 32 and 32D Finishes)</td>
</tr>
<tr>
<td>SG- MicroShield® antimicrobial clear powder coat (Not available with 10B Finish)</td>
<td></td>
</tr>
<tr>
<td><strong>THUMBTURNS (SEE PAGE 17)</strong></td>
<td>T1- Decorative thumbburn; backplate matches rose design chosen</td>
</tr>
<tr>
<td>T2- Decorative square thumbburn; backplate matches rose design chosen</td>
<td></td>
</tr>
<tr>
<td>T3- Decorative cylinder thumbburn; backplate matches rose design chosen</td>
<td></td>
</tr>
</tbody>
</table>
## IN Series
Intelligent IP-Enabled Access Control

### Cylinder Options

<table>
<thead>
<tr>
<th>Cylinder Options</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CONVENTIONAL CYLINDER</strong></td>
<td>—</td>
<td>SARGENT Conventional Cylinders supplied Standard (Nomenclature not required)</td>
</tr>
<tr>
<td><strong>SIGNATURE KEY SYSTEM</strong></td>
<td>10-</td>
<td>SARGENT Signature Key System (Not Available with other Key Systems)</td>
</tr>
<tr>
<td></td>
<td>10-21-</td>
<td>SARGENT Signature Construction Key System (Lost Ball)</td>
</tr>
<tr>
<td><strong>SIGNATURE: LARGE FORMAT INTERCHANGEABLE CORE (REMOVEABLE CORE)</strong></td>
<td>10-63-</td>
<td>SARGENT Signature LFIC (Removable Core) Cylinder</td>
</tr>
<tr>
<td><strong>XC- KEY SYSTEM</strong></td>
<td>11-</td>
<td>XC Key System (not available with 10-, 10UL, 22- options)</td>
</tr>
<tr>
<td></td>
<td>11-21-</td>
<td>XC- Construction Key System (Lost Ball)</td>
</tr>
<tr>
<td><strong>XC- LARGE FORMAT INTERCHANGEABLE CORE (REMOVEABLE CORE)</strong></td>
<td>11-60-</td>
<td>Hardware to accept XC- Permanent LFIC (Removable Core), Disposable plastic Core — provided</td>
</tr>
<tr>
<td></td>
<td>11-63-</td>
<td>Hardware provided with XC- LFIC (Removable Core) Cylinder — (Includes masterkeying, grand masterkeying)</td>
</tr>
<tr>
<td></td>
<td>11-64-</td>
<td>Hardware provided with Keyed construction core to accept XC- LFIC (Removable) Permanent Core (ordered separately)</td>
</tr>
<tr>
<td><strong>XC- SMALL FORMAT INTERCHANGEABLE CORE</strong></td>
<td>11-70-7P-</td>
<td>Hardware to accept XC- SFIC (7 Pin) XC- Permanent Cores, plastic disposable core provided (10 line J lever not available)</td>
</tr>
<tr>
<td></td>
<td>11-72-7P-</td>
<td>Hardware to accept XC- SFIC (7-Pin Keyed Construction Core provided) cylinder Permanent core ordered separately (10 Line J lever not available)</td>
</tr>
<tr>
<td></td>
<td>11-73-7P-</td>
<td>Hardware supplied with XC- Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying) (10 Line J lever not available)</td>
</tr>
<tr>
<td><strong>CONSTRUCTION KEY SYSTEMS</strong></td>
<td>21-</td>
<td>SARGENT Lost Ball Construction Keying for Conventional, XC and Signature Series (N/A with 63-, 73-, 82-, SC- &amp; SE-)</td>
</tr>
<tr>
<td></td>
<td>22-</td>
<td>SARGENT Construction Split Key System for Conventional Cylinders (Existing Systems) (N/A with 10-, 11-, 63-, 73-, 82-, SC- &amp; SE-)</td>
</tr>
<tr>
<td><strong>OLD STYLE REMOVEABLE CORE</strong></td>
<td>51-</td>
<td>Removable Core Cylinder (Old Style) provided (Existing Systems Only)</td>
</tr>
<tr>
<td></td>
<td>52-</td>
<td>Removable Construction Core (Old Style) Permanent core ordered separately (Existing Systems Only)</td>
</tr>
<tr>
<td><strong>LARGE FORMAT INTERCHANGEABLE CORE (REMOVEABLE CORE)</strong></td>
<td>60-</td>
<td>Hardware to accept SARGENT Permanent LFIC (Removable Core), Disposable plastic Core provided (Permanent Cores Ordered Separately)</td>
</tr>
<tr>
<td></td>
<td>63-</td>
<td>Hardware provided with LFIC (Removable Core) Cylinder — (Includes masterkeying, grand masterkeying)</td>
</tr>
<tr>
<td></td>
<td>64-</td>
<td>Hardware provided with Keyed construction core to accept LFIC (Removable) Permanent Core (ordered separately)</td>
</tr>
</tbody>
</table>
## Cylinder Options

<table>
<thead>
<tr>
<th>SMALL FORMAT INTERCHANGEABLE CORES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>70-</td>
<td>Hardware to accept 6 or 7-Pin SFIC Permanent Cores, plastic disposable core provided (10 Line J lever not available)</td>
</tr>
<tr>
<td>72-</td>
<td>Hardware to accept 6 or 7-Pin SFIC (Keyed Construction Core provided) Cylinder (Permanent Core Ordered Separately) (10 line J lever not available)</td>
</tr>
<tr>
<td>73-</td>
<td>Hardware supplied with 6-Pin SFIC (Includes masterkeying, grand masterkeying) (10 Line J lever not available)</td>
</tr>
<tr>
<td>65-73-</td>
<td>Hardware provided to accept Uncombinated 6-Pin SFIC (Permanent) Core (Packed loose for field keying) (10 Line J lever not available)</td>
</tr>
<tr>
<td>65-73-7P-</td>
<td>Hardware provided to accept Uncombinated 7-Pin SFIC (Permanent) Core (Packed loose for field keying) (10 Line J lever not available)</td>
</tr>
<tr>
<td>73-7P-</td>
<td>Hardware supplied with Small Format 7 Pin Interchangeable Core (Includes masterkeying, grand masterkeying) (10 Line J lever not available)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>KESO &amp; KESO F1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>81-</td>
<td>Hardware provided with housings to accept Keso (83) and Keso F1 (F1-83-) removable cores (Not available with 10 Line) (Permanent Cores Ordered Separately)</td>
</tr>
<tr>
<td>82-</td>
<td>Hardware provided with SARGENT Keso Security Cylinder</td>
</tr>
<tr>
<td>F1-82-</td>
<td>Hardware provided with SARGENT Keso F1 Security Cylinder (Patented)</td>
</tr>
<tr>
<td>83-</td>
<td>Hardware supplied with SARGENT Keso Security Removable Core cylinder (Not available with 10 Line)</td>
</tr>
<tr>
<td>F1-83-</td>
<td>Hardware supplied with SARGENT Keso F1 Security Removable Core cylinder (Not available with 10 Line) (Patented)</td>
</tr>
<tr>
<td>84-</td>
<td>Hardware provided with SARGENT Keso Construction Cores (Not available with 10 Line) (Permanent Cores ordered separately)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BUMP RESISTANT</th>
<th>BR-</th>
</tr>
</thead>
<tbody>
<tr>
<td>84-</td>
<td>Bump Resistant Cylinder (Available with Conventional and Conventional XC Cylinders Only)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LESS CYLINDER</th>
<th>LC-</th>
</tr>
</thead>
<tbody>
<tr>
<td>84-</td>
<td>Hardware supplied less cylinder</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ACCEPTS SCHLAGE CYLINDERS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>30-</td>
<td>10 Line Lever to accept Schlage Cylinder-Cylinder is not provided (10 Line only)</td>
</tr>
<tr>
<td>SF-</td>
<td>L Lever to accept Medeco KeyMark Large Format Interchangeable and Schlage Full Size Interchangeable Core (10 Line only)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SCHLAGE KEYWAYS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SC-</td>
<td>Schlage C keyway cylinder, 0 bitted (10 Line only)</td>
</tr>
<tr>
<td>SE-</td>
<td>Schlage E keyway cylinder, 0 bitted (10 Line only)</td>
</tr>
</tbody>
</table>
## IN Series

Intelligent IP-Enabled Access Control

### Cylinder Options

<table>
<thead>
<tr>
<th>DEGREE CYLINDERS</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DG1-</td>
<td>SARGENT Degree Key System Level 1 (Bump resistant with patented keys)</td>
</tr>
<tr>
<td>DG1-21-</td>
<td>Degree Level 1 Construction Master Keying</td>
</tr>
<tr>
<td>DG1-60-</td>
<td>Degree Level 1 Removable Disposable Construction Core</td>
</tr>
<tr>
<td>DG1-63-</td>
<td>Degree Level 1 Removable Core</td>
</tr>
<tr>
<td>DG1-64-</td>
<td>Degree Level 1 Removable Construction Keyed LFIC</td>
</tr>
<tr>
<td>DG1-65-</td>
<td>Degree Level 1 Unassembled/Uncombined Core</td>
</tr>
<tr>
<td>DG2-</td>
<td>SARGENT Degree Key System Level 2 (Geographically exclusive; bump and pick resistant)</td>
</tr>
<tr>
<td>DG2-21-</td>
<td>Degree Level 2 Construction Master Keying</td>
</tr>
<tr>
<td>DG2-60-</td>
<td>Degree Level 2 Removable Disposable Construction Core</td>
</tr>
<tr>
<td>DG2-63-</td>
<td>Degree Level 2 Removable Core</td>
</tr>
<tr>
<td>DG2-64-</td>
<td>Degree Level 2 Removable Construction Keyed LFIC</td>
</tr>
<tr>
<td>DG2-65-</td>
<td>Degree Level 2 Unassembled/Uncombined Core</td>
</tr>
<tr>
<td>DG3-</td>
<td>SARGENT Degree Key System Level 3 (Geographically exclusive; UL437 certified; bump and pick resistant)</td>
</tr>
<tr>
<td>DG3-21-</td>
<td>Degree Level 3 Construction Master Keying</td>
</tr>
<tr>
<td>DG3-60-</td>
<td>Degree Level 3 Removable Disposable Construction Core</td>
</tr>
<tr>
<td>DG3-63-</td>
<td>Degree Level 3 Removable Core</td>
</tr>
<tr>
<td>DG3-64-</td>
<td>Degree Level 3 Removable Construction Keyed LFIC</td>
</tr>
<tr>
<td>DG3-65-</td>
<td>Degree Level 3 Unassembled/Uncombined Core</td>
</tr>
</tbody>
</table>
NOTES:
1. DRAWING IS NOT TO SCALE.
2. PREPARATION DETAILS ARE IN SUPPLEMENT TO ANSI/BHMA A156.1
3. DIMENSIONS TO VERIFY THE FITMENT REQUIREMENTS.
4. IF OPTIONAL LEVERS OR ROSES ARE USED REFERENCE THE RELATED PRODUCT
5. VERIFYING FITMENT WITH DOOR FRAME STOPS, DOOR STILE SIZE & MAXIMUM PRODUCT DIMENSIONS ARE SHOWN FOR THE PURPOSE OF
6. APPLIES TO BOTH SIDES OF THE DOOR AND/OR IF A DEPTH APPLIES.
7. CAREFULLY NOTE WHICH FEATURES ARE OPTIONAL, WHETHER THE FEATURE
8. WIRE RACEWAY AREAS SHOULD BE FREE OF OBSTRUCTIONS & SHARP EDGES,
9. WHERE LABEL SERVICE (I.E. UL, W-H) IS IN EFFECT.
10. THRU-BOLTING IS EMPLOYED). CONSTRUCTION TECHNIQUES SHOULD REFLECT
11. MOUNTED) FASTENER HOLDING POWER AND CRUSH RESISTANCE (WHEN
12. DOOR REINFORCEMENT IS RECOMMENDED TO IMPROVE (SURFACE
13. STANDARD TOLERANCE OF ± .015 APPLIES TO ALL DOOR PREPARATION
14. REQUIREMENTS, UNLESS OTHERWISE SPECIFIED.
15. STROKE TEMPLATE FOR DETAILS TO PREPARE FRAME.
16. PREPARATION DETAILS ARE IN SUPPLEMENT TO ANSI/BHMA A156.1
17. DRAWING IS NOT TO SCALE.
18. L.H. DOOR
19. R.H. DOOR

OUTSIDE L.H. TRIM SHOWN  
INSIDE L.H. TRIM SHOWN  
OUTSIDE R.H. TRIM SHOWN  
INSIDE R.H. TRIM SHOWN  

SECTION A-A

OUTSIDE

INSIDE

BEVEL

FINISHED

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NOTES:

1. DRAWING IS NOT TO SCALE.

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10. DRAWING IS NOT TO SCALE.

11. DRAWING IS NOT TO SCALE.

**DIMENSIONS**

- **L.H. DOOR**
  - \( \theta \) \( \theta \) \( \theta \) \( \theta \)
  - \( \theta \) \( \theta \) \( \theta \) \( \theta \)
  - \( \theta \) \( \theta \) \( \theta \) \( \theta \)

- **R.H. DOOR**
  - \( \theta \) \( \theta \) \( \theta \) \( \theta \)
  - \( \theta \) \( \theta \) \( \theta \) \( \theta \)
  - \( \theta \) \( \theta \) \( \theta \) \( \theta \)

**REFERENCES**

- Reference Strike Template for details to prepare frame.

**PRODUCT**

- 7900, 8200, R8200 Mortise Lock

**MANUFACTURER**

Sargent Manufacturing Company
100 Sargent Drive
New Haven, CT 06511

**TEMPLATES**

- Door manufacturers template

**GRADES**

- 22276, 22277, 22278, 22279

**PREFIXES**

- Used for lock series

**MATERIALS**

- Used for prefixes

**REV.**

- 4713

**SCALE:** 1:2

**ZONE:** REVISION HISTORY

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**AUTHOR:**

- Sargent Manufacturing Company

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**PER ANSI Y14.5M - 1994**

- Interpreting drawing dimensions is covered under ANSI Y14.5M - 1994.