SECTION 5

Hardware and Optional Accessories for Steel Doors:

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Yale Cylindrical Lock 5300 Series – Grade 2
This revolutionary Grade 2 features Yale’s patented freewheeling design, which helps protect against vandalism. Its through bolting gives it a secure fit that resists shaking and rattling.

**Finish:** US26D Satin Chrome Plate

**Keying:** 5-pin

**Warranty:** The 5300LN Key-in Lever Cylindrical lock carries a 1-year warranty. Likewise, the lockset carries a lifetime warranty against lever sag and lever spring breakage.

**Fire Listings:** U.L. – C.U.L. Fire Label for all function up to 3-hour doors.

**ANSI:** ANSI A156.2, 1996 Series 4000 Grade 2.

**A.D.A.:** The 5400LN meets accessibility guidelines of the Americans with Disabilities Act and the requirements of the Uniform Federal Accessibility Standards and ANSI 117.1, all requiring ease of accessibility for the handicapped.

**Lever Design**

**Deadlocking Latchbolt**

**Lock Function**

**Entrance or Corridor Lock**
- For entrance, general home or office doors.
- Deadlocking latchbolt.
- Either lever operates latchbolt (except when outside lever is locked from inside).
- Pushing turn button in inside lever locks outside lever. (Automatically releases when inside lever is turned or key is rotated in locked outside lever.)

**Outside lever may be retained in locked position by pushing and rotating turn button 90° clockwise to a horizontal position; not released until turn button is manually returned to the vertical position.**

**Latchbolt is operated by key in outside lever or by rotating inside lever.**

**Inside lever always active.**
Yale Cylindrical Lock 5400 Series - Grade 1

Designed for industrial, commercial and institutional use, the 5400LN Series features rugged construction and Yale’s patented freewheeling design, which helps protect against vandalism. The freewheeling design allows the outside lever to rotate freely up and down while remaining securely locked when in the locked position.

**Finish:** US26D Satin Chrome Plate

**Keying:** 5-pin

**Warranty:** The 5400 Key-in Lever Cylindrical lock carries a comprehensive 5-year warranty.

**Fire Listings:** U.L. – C.U.L. Fire Label for all function up to 3-hour doors.

**ANSI:** ANSI A156.2, 1996 Series 4000 Grade 1.

**A.D.A.** The 5400LN meets accessibility guidelines of the Americans with Disabilities Act and the requirements of the Uniform Federal Accessibility Standards and ANSI 117.1, all requiring ease of accessibility for the handicapped.

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**Lever Design**

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**Deadlocking Latchbolt**

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**Lock Function**

**Entrance or Corridor Lock**

- For entrance, general home or office doors.
- Deadlocking latchbolt.
- Either lever operates latchbolt (except when outside lever is locked from inside).*
- Pushing turn button in inside lever locks outside lever. (Automatically releases when inside lever is turned or key is rotated in locked outside lever.)

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- Outside lever may be retained in locked position by pushing and rotating turn button 90° clockwise to a horizontal position; not released until turn button is manually returned to the vertical position.
- Latchbolt is operated by key in outside lever or by rotating inside lever.
- Inside lever always active.

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Yale Mortise Lockset 8700 Series
The Yale 8700 Mortise Lock Series is an industry standard product. The product has a 1” throw stainless steel deadbolt with two enclosed hardened steel roller armor pins. The latchbolt is ¾” throw with stainless steel two-piece anti-friction camming action.

Finish: US26D Satin Chrome Plate
Keying: 5-pin
Warranty: Mechanical Mortise Locks carry a 1 year warranty
Fire Listings: U.L. Listed for use on fire doors having a rating up to and including 3 hours
ANSI: Conforms to ANSI Specifications A115.1, ANSI 115.11, and ANSI 156.13. Conforms to ANSI Series 1000 mortise lock functions, applicable operations and security grades.
A.D.A.: Meets accessibility guidelines of the Americans with Disabilities Act and the requirements of the Uniform Federal Accessibility Standards and ANSI 117.1, all requiring ease of accessibility for the handicapped.

Features

| ANSI Conformance - ANSI A 156.13, Series 1000, Operational Grade 1. (SL8700 meets Security Grade 1) |
| Armor Front - 8” x 1 1/4” |
| Door Thickness - 1-3/4” standard, to 3-1/4” thick doors to order. |
| Deadbolt - 1” throw, stainless steel with two enclosed hardened-steel roller armor pins. |
| Latchbolt - 3/4” throw, stainless steel two-piece anti-friction camming action. |
| UL Listed - for application on labelled fire doors. |
| Backset - 2-3/4” only. |
| Case - wrought steel, zinc dichromated. |
| Hubs - sintered steel, copper infiltrated for additional strength. |
| Knobs: 5/16” standard, 3/8” to order. Levers: 3/8” standard. (SL8700 - available in levers only.) |

Escutcheon

Lock Function
Dormitory Lock

- Latchbolt by knob/lever either side.
- Deadbolt by key outside and thumbturn inside.
- When the deadbolt is projected, out-side knob/lever is automatically made rigid.
- Anti-panic operation. Turning inside knob/lever retracts the latchbolt and deadbolt simultaneously, automatically unlocking outside knob/lever.
DORMA 8000 Series Standard Duty Exit Devices with Deadlocking Latchbolts

The touchbar, rail assembly and integral parts are constructed of solid steel with covers and end caps developed from high-impact ABS thermoplastic.

**Certification:** The DORMA 8000 Series is listed by U.L. and C.U.L. under their continuing reinspection programs and conforms to standard U.L. 10C and U.B.C. 7-2 (1997) positive pressure testing. The DORMA 8000 Series is certified to the requirements of ANSI/BHMA A156.3 for grade 1 devices.

**Specification:** All standard duty exit devices shall be rim devices. All device touchbars, rails and integral parts shall be constructed of solid steel with ABS thermoplastic end caps and covers. Non-labeled units to have hex-key dogging standard. Fire rated versions shall be available for labeled applications. Device touchbar, rail and rods shall be available with a powder-coated finish.

**Exit Device Sprayed Finish:** Aluminum powder coated process for the touchbar, rail and rods. Covers and end caps are black base material ABS Thermoplastic.

**Sprayed Trim Finish:** Aluminum powder coated process.

**Cylinders:** Yale or Schlage

**Warranty:** 5 years

**Data and Features:**
- U.L. Listed for Hazard: Yes
- U.L. Listed for Labeled Fire Doors (prefix F): Option
- Door Height to 7'-6": Yes
- Door Thickness 1-3/4" to 2-1/4": Yes
- Hex Key Dogging (non-listed units only): Yes

**Operation:** Entrance by lever, key locks.

**Handing:**
- Right-Hand Reverse Bevel (RHRB)
- Left-Hand Reverse Bevel (LHRB)

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DORMA 9000 Series Heavy Duty Exit Devices

The heavy-duty cast chassis provides superior durability while the smooth reduced projection touchbar assembly minimizes catch hazards.

**Certification:** The DORMA 9000 Series is listed by U.L. and C.U.L. under their continuing reinspection programs and conforms to standard U.L. 10C and U.B.C. 7-2 (1997) positive pressure testing. The DORMA 9000 Series is BHMA certified to the requirements of ANSI A156.3 for grade 1 devices.

**Specification:** All heavy-duty exit devices shall be DORMA 9000 Series rim or mortise. All devices to have heavy-duty cast chassis. All device touchbar, rail, and cover assemblies shall be constructed of heavy gauge solid wrought materials for true color coated finishes. Non-labeled units to have hex-key dogging standard. Fire rated versions shall be available for labeled applications. All devices to have deadlocking latchbolts with ¾” throw where applicable.

**Exit Device Sprayed Finish:** Aluminum powder coated process for the touchbar, rail and rods

**Sprayed Trim Finish:** Aluminum powder coated process.

**Cylinders:** Yale or Schlage

**Warranty:** 5 years

**Data and Features:**
- U.L. Listed for Hazard: Yes
- U.L. Listed for Labeled Doors (prefix F): Option
- Door Height up to 8”: Yes
- Door Thickness 1-3/4” to 2-1/4”: Yes
- Hex Key Dogging (non-listed units only): Yes
- Handed: Mortise only

**Operation:** Entrance by lever, key locks.
Dorma 7200 Series Closer – Grade 3 Standard Duty

**Certification:** Listed by U.L. and C.U.L. under their reinspection programs. Meets the requirements for UL10C and UBC 7.2 (1997) for positive pressure.

**Specification:** All standard duty closers shall be hydraulic surface applied rack and pinion closers. The closer has two independent valves to separately control sweep and latch closing speeds and provide constant speeds when temperatures change. Standard with backcheck to provide cushioning effect in opening.

Standard placement allows opening to 110°, closer allows maximum opening to 180°. When ordering, must specify degree of opening if other than to a maximum of 110°.

**Finish:** Sprayed aluminum (689)/AL

**Warranty:** 5 years
Dorma 7400 Series Closer – Grade 1 Heavy Duty

**Certification:** Listed by U.L. and C.U.L. under their reinspection programs. Meets the requirements for UL10C and UBC 7.2 (1997) for positive pressure.

**Specification:** All heavy-duty closers shall be hydraulic surface applied rack and pinion closers. The closer has two independent valves to separately control sweep and latch closing speeds and provide constant speeds when temperatures change. Standard with backcheck to provide cushioning effect in opening.

Standard placement allows opening to 110°, closer allows maximum opening to 180°. When ordering, must specify degree of opening if other than to a maximum of 110°.

**Finish:** Sprayed aluminum (689)/AL

**Warranty:** 25 years

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**Standard Duty Arm Features:**
Parallel arm, backcheck

**Heavy Duty Arm Features:**
Parallel arm, backcheck, dead stop, thumb turn hold open (detail not shown)
Not available on fire rated doors
Ball Bearing With Non-Removable Pin (NRP) Hinges

**ANSI:** Manufactured to close tolerances and meet all specifications and requirements.

**Size:** 4-1/2” X 4-1/2”

**Finish:** Steel Satin Chrome (PDL Standard); Stainless Steel (PDL Option)

**Material Gauge:** .134 +/- .005
Threshold

**Materials:** Extruded aluminum with mill finish

**Measurements:** 5-3/4” Wide with a ½” Rise

**ADA:** Meets ADA requirements
Door Bottom Sweep
Attached with screws through a slotted hole on the interior of the leaf, insert hits the top of threshold saddle for a complete weatherseal at the bottom of the door. The exterior drip cap sheds water away from threshold.

Materials: Vinyl and aluminum in mill finish

U.L. Rating: U. L. Rated and classified
Adjustable Weatherseal
Attached with screw into a slotted hole providing adjustability. The kerf is cellular modified foam, clad in an embossed non-vinyl, paint resistant liner that is U.V. stabilized. Contains no plasticizers to cause deterioration over time.

Material: Qlon kerf and aluminum

Surface Bolt (used on the inactive leaf on a pair of doors at the top and bottom)

ANSI: Meets ANSI A156.16 for L04161 or L84161

Dimensions: 8" (203 mm) bolt length; ¼" x ¾" (6 x 19 mm) bolt height x width; 1" (25 mm) bolt throw.

Material: Steel

Finish: US26D
**Astragal** (used on the inactive leaf on a pair of doors)

*Material:* Extruded Metal

*Colors:* White or Bronze
Removable Mullion
Can be used with paired doors where a full-width opening is sometimes required. Doors are fitted with rim-type exit devices and normally function as single doors.

**Colors:** White or Bronze

Steel Mullion for use on non-labeled doors

Steel Mullion for use with labeled doors

**Note:** The removable mullion does not come installed on the pre-assembled door system. It must be installed at the job site because the bottom fitting is anchored into the concrete.
Door Protection Plate (Kick Plate)

**ANSI:** Meets ANSI A156.6 J101 metal armor plate

**Dimensions:** 8” High x 34” Wide

**Finish:** US 32D

**Material:** 18 gauge aluminum
Chain Door Check (Crash Chain)

**ANSI:** Meets ANSI A156.16 for L02231

**Dimensions:** 1-1/2” x 1-1/2” (38mm x 38 mm) base plates; 25-1/2” (648 mm) overall length

**Materials:** Cast brass base plates, welded steel chain with heavy compression spring at end of chain, gray vinyl cover.

**Finish:** US26D
Pull Handle

**ANSI:** Meets ANSI A156.6 for J401 pulls

**Dimensions:** ¾" (19 mm) diameter base; 2-¼" (57 mm) projection; 1-½" (38 mm) clearance; 10" long (254 mm)

**Material:** Aluminum

**Finish:** US32D

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Pull Plate

**ANSI:** Meets ANSI A156.6 for J405 pull plate

**Dimensions:** 4" wide x 16" long (102 x 406 mm)

**Material:** Aluminum

**Finish:** US32D

**Edges:** Square corner, beveled

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Push Plate

**ANSI:** Meets ANSI A156.6 for J301 or J304 push plate

**Dimensions:** 4" (102 mm) wide x 16" (406 mm) long

**Material:** Aluminum

**Finish:** US32D

**Edges:** Square corner, beveled
Latch Protection Plate Flush (Latchguard)

*Use:* For mortise lock sets

*Dimensions:* 3” x 11” (76 x 279 mm)

*Material:* Steel

*Finish:* US26D

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Latch Protection Plate with Lock Cut Out (Latchguard)

*Use:* For cylindrical lock sets

*Dimensions:* 3” x 11” (76 x 279 mm)

*Material:* Steel

*Finish:* US26D

*Note:* Latch protection plates are through bolted and have a frame pin to prevent prying of door
Louvers

**Material:** Frame – 18 gauge cold rolled steel; louver blades – 22 gauge cold rolled steel

**Colors:** White or Bronze

**Sizes:** 12” x 12”, 18” x 18”, 24” x 24”
**Insulated Lite Kit**

*Material:* Painted 3063-t5 alloy aluminum  
*Colors:* White or Bronze  
*Glass:* 1/8” thick, clear, tempered  
*Sizes:* 16” x 16”, 20” x 24”, 6” x 27”

**Non-Insulated Lite Kit**

*Material:* Painted 6063-t5 alloy aluminum  
*Colors:* White or Bronze  
*Glass:* 1/8” thick, clear, tempered  
*Sizes:* 16” x 16”, 20” x 24”, 6” x 27”
Wall Stop and Holder

*ANSI:* Meets ANSI A156.16 for L01351

*Dimensions:* 2-1/4” (57 mm) diameter base; 3-3/16” (97 mm) projection; 13/16” x 1-1/2” (21 x 38 mm)

*Keeper*

*Material:* Cast Brass

*Finish:* US26D

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Door Holder

*ANSI:* Meets ANSI A156.16 for L01381

*Dimensions:* 1-5/8” x 1-3/4” (41 x 45 mm) base; 3-7/8” (98 mm) arm

*Material:* Cast brass

*Finish:* US26D

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Floor Stop and Holder

*ANSI:* Meets ANSI A156.16 for L01371

*Dimensions:* 2-1/4” diameter; 3-5/16” projection; 13/16” x 1-1/2” keeper

*Material:* Cast Brass

*Finish:* US26, satin chrome

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Convex Wall Stop with Concealed Mounting

*ANSI:* Meets ANSI A156.16 for L02101

*Dimensions:* 2-7/16” diameter; 13/16” projection

*Material:* Cast brass with rubber bumper

*Finish:* US26, satin chrome