

**SECTION 10 51 61**

**BUILT-IN COMBINATION LOCKS**

**\*\*\*\*\* Since 1921, Master Lock Company has been providing padlocks and other security products for the construction industry. Products include built-in combination and key-operated locks for all types of lockers, combination padlocks for padlock hasp lockers, and lock management software. This product guide specification section can be used to specify the following built-in combination locks to be installed on metal, wire mesh, wood, plastic, and other types of locker:**

**Gravity/lift handle lockers: Models 1630, 1631, 1630MD, and 1631MD.**

**Single point latch lockers: Models 1652, 1653, 1652MD, and 1653MD.**

**Box lockers: Models 1654, 1655, 1654MD, 1655MD, 1654BE, 1655BE, 1654MDBE, 1655MDBE.**

**Deadbolt locks for all locker types: Models 1670, 1671, 1670MD, 1671MD, 1670BE, 1671BE, 1670MDBE, and 1671MDBE.**

**The specifier will need to select appropriate products and delete non-applicable models and options. Refer to Master Lock product literature for descriptions and available options. The guide section has been written so that most editing can be accomplished by deleting unnecessary requirements and options. Depending on project requirements, some additional information will need to be added by the specifier. Options are indicated by [ ]. Notes to assist the specifier in selecting options and editing the specification guide are printed in bold and indicated with \*\*\*\*\*. For final editing, all brackets and notes will need to be deleted from the guide.**

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**PART 1 - GENERAL**

**1.1 SUMMARY**

**\*\*\*\*\* Built-in, combination locks can be factory installed by the locker manufacturer or field installed on either existing or new lockers. Field installed locks can be part of a complete construction project, such as a new school building, or can be purchased directly by the owner and installed by the building maintenance staff. If the locks are to be factory installed, the locks can be specified separately using this guide specification or the lock requirements can be included as part of the locker specification. Edit the following paragraph to reflect project requirements. \*\*\*\*\***

A. Section includes:

- 1. Built-in, combination locks to be [factory installed on lockers.] [field installed

on existing lockers.] [field installed on lockers specified in other sections.]

**\*\*\*\*\* For both large and small projects, a system to track and manage locks, user assignments, and lock combinations is essential. Master Lock's LockerManager software is an excellent management tool. Include the following paragraph if LockerManager is specified in this section. \*\*\*\*\***

2. System for recording and managing lockers, locks, user assignments, and combinations.

B. Related sections:

**\*\*\*\*\* List other specification sections dealing with work directly related to this section such as the following. \*\*\*\*\***

1. [Section 10 51 13 - Metal Lockers] [Section 10 51 16 - Wood Lockers]  
[Section 10 51 26 - Plastic Lockers] [Section 10 51 43 - Wire Mesh Storage Lockers]: Lockers to receive built-in combination locks.

## **1.2 SUBMITTALS**

A. Provide in accordance with Section 01 33 00 - Submittal Procedures:

1. Product data for locks.

**\*\*\*\*\* Include the following paragraph if LockerManager system is being specified. \*\*\*\*\***

2. Product data for lock management system describing functions, capacities, and requirements.
3. Installation instructions.

B. Provide in accordance with Section 01 78 00 - Closeout Submittals:

1. Printed control chart and text file on disc of serial numbers and lock combinations.
2. [2] [ ] each supervisory access keys.
3. Special tools required for lock maintenance.

**\*\*\*\*\* Include the following paragraph if LockerManger system is being specified. \*\*\*\*\***

4. Manuals for lock management system.

## **PART 2 - PRODUCTS**

**2.1 ACCEPTABLE MANUFACTURERS**

- A. Master Lock Company, 137 West Forest Hill Avenue, P.O. Box 100367, Oak Creek, Wisconsin 53154; 800-308-9244; www.masterlock.com.
- B. Requests to use equivalent products of other manufacturers shall be submitted in accordance with Section 01 63 00 - Product Substitution Procedures.

**\*\*\*\*\* Master Lock built-in, combination locks can be factory or field installed on lockers manufactured by numerous manufacturers. Refer to Master Lock product literature for charts listing appropriate locks for various manufacturer's lockers. Select required lock from the following articles and delete articles for nonapplicable models. If locks are being specified as part of the locker specification, these articles can be inserted into the locker specification section. \*\*\*\*\***

**2.2 COMBINATION LOCKS FOR LIFT HANDLE LOCKERS**

**\*\*\*\*\* These four models of built-in combination locks are provided for lift handle lockers:**

**Model 1630: Right-handed with plastic dial.**

**Model 1631: Left-handed with plastic dial.**

**Model 1630MD: Right-handed with metal dial.**

**Model 1631MD: Left-handed with metal dial.**

**Edit the following to reflect required model. \*\*\*\*\***

- A. Type: Built-in, combination lock with steel body and [durable plastic] [metal] dial for mounting in gravity lift handle lockers; Model [1630] [1631] [1630MD] [1631MD] as manufactured by Master Lock Company.
- B. Mounting: Concealed in [right-] [left-] handed locker door.
- C. Operation: Vertical travel locking bolt engages lift handle locker mechanism. Locks automatically on door closure.
- D. Combination: 3 digit dial type. Provide 5 preset combinations to be selected by pressing button. Locks shall have random combination change pattern with no sequentially adjacent locks having same pattern.
- E. Provide 5 pin tumbler cylinder for supervisory access.

**2.3 COMBINATION LOCKS FOR SINGLE POINT LATCH LOCKERS**

**\*\*\*\*\* These four models of built-in combination locks are provided for single point latch lockers:**

**Model 1652: Right-handed with plastic dial.**

**Model 1653: Left-handed with plastic dial.**

**Model 1652MD: Right-handed with metal dial.**

**Model 1652MD: Left-handed with metal dial.**

**Edit the following to reflect required model. \*\*\*\*\***

- A. Type: Built-in, high security, combination lock with steel body and extra long locking bolt for mounting in single point latch lockers; Model [1652] [1653] [1652MD] [1653MD] as manufactured by Master Lock Company.
- B. Mounting: Concealed in [right-] [left-] handed locker door.
- C. Dial: [Durable plastic] [Metal] dial with textured lip for non-slip, one-handed, grip-and-pull operation.
- D. Operation: Horizontal operating spring bolt. Locks automatically on door closure.
- E. Combination: 3 digit dial type. Provide 5 preset combinations to be selected by pressing button. Locks shall have random combination change pattern with no sequentially adjacent locks having same pattern.
- F. Provide 5 pin tumbler cylinder for supervisory access.

## **2.4 COMBINATION LOCKS FOR BOX LOCKERS**

**\*\*\*\*\* Eight models of built-in combination locks are provided for multi-tier and box lockers with pull or friction latch handles:**

**Model 1654: Right-handed with plastic dial.**

**Model 1655: Left-handed with plastic dial.**

**Model 1654MD: Right-handed with metal dial.**

**Model 1655MD: Left-handed with metal dial.**

**Model 1654BE: Right-handed with plastic dial and brass escutcheon plate.**

**Model 1655BE: Left-handed with plastic dial and brass escutcheon plate.**

**Model 1654MDBE: Right-handed with metal dial and brass escutcheon plate.**

**Model 1655MDBE: Left-handed with metal dial and brass escutcheon plate.**

**Edit the following to reflect required model. \*\*\*\*\***

- A. Type: Built-in, combination lock with steel body for mounting in multiple-tier and box lockers with pull or friction latch handles; Model [1654] [1655] [1654MD] [1655MD] [1654BE] [1655BE] [1654MDBE] [1655MDBE] as manufactured by Master Lock Company.
- B. Mounting: Concealed in [right-] [left-] handed locker door.

**\*\*\*\*\* For wood lockers, an optional brass escutcheon plate is available. \*\*\*\*\***

- C. Dial: [Durable plastic] [Metal] dial with textured lip for non-slip, one-handed, grip-and-pull operation. [Provide dial with brass escutcheon plate.]
- D. Operation: Horizontal operating spring bolt which retracts flush with locker body. Locks automatically on door closure.
- E. Combination: 3 digit dial type. Provide 5 preset combinations to be selected by pressing button. Locks shall have random combination change pattern with no sequentially adjacent locks having same pattern.
- F. Provide 5 pin tumbler cylinder for supervisory access.

**\*\*\*\*\* Locker doors which are 11/16 to 3/4 inch thick require an extension set. Include the following paragraph if extension is required. \*\*\*\*\***

- G. Extension set: Provide for locker doors 11/16 to 3/4 inch thick.

## **2.5 HIGH SECURITY COMBINATION DEADBOLT LOCKS**

**\*\*\*\*\* Eight models of built-in combination deadbolt locks are provided for all locker styles including lift handle, turn handle, single point latch, and box lockers. Deadbolt locking provides the highest level of security and is ideal for open mesh and ventilated lockers with access to back of lock.**

**Model 1670: Right-handed with plastic dial.**

**Model 1671: Left-handed with plastic dial.**

**Model 1670MD: Right-handed with metal dial.**

**Model 1671MD: Left-handed with metal dial.**

**Model 1670BE: Right-handed with plastic dial and brass escutcheon plate.**

**Model 1671BE: Left-handed with plastic dial and brass escutcheon plate.**

**Model 1670MDBE: Right-handed with metal dial and brass escutcheon plate.**

**Model 1671MDBE: Left-handed with metal dial and brass escutcheon plate.**

**Edit the following to reflect required model. \*\*\*\*\***

- A. Type: Built-in, high security, combination, horizontal deadbolt lock with steel body for mounting in lift handle, turn handle, single point latch, box, and open mesh style lockers; Model [1670] [1671] [1670MD] [1671MD] [1670BE] [1671BE] [1670MDBE] [1671MDBE] as manufactured by Master Lock Company.
- B. Mounting: Concealed in [right-] [left-] handed locker door.

**\*\*\*\*\* For wood lockers, an optional brass escutcheon plate is available. \*\*\*\*\***

- C. Dial: [Durable plastic] [Metal] dial. [Provide dial with brass escutcheon plate.]

- D. Operation: Horizontal operating deadbolt which engages latch mechanism. Dial must be turned to relock door.
- E. Combination: 3 digit dial type. Provide 5 preset combinations to be selected by pressing button. Locks shall have random combination change pattern with no sequentially adjacent locks having same pattern.
- F. Provide 5 pin tumbler cylinder for supervisory access.

**\*\*\*\*\* Locker doors which are 11/16 to 3/4 inch thick require an extension set. Include the following paragraph if extension is required. \*\*\*\*\***

- G. Extension set: Provide for locker doors 11/16 to 3/4 inch thick.

## **2.6 LOCKER MANAGEMENT SYSTEM**

**\*\*\*\*\* School and other facility owners must maintain some form of locker and lock management. Often these have been printed paper documents which are time consuming to update and keep current. Lock Master Company supplies locks with an accompanying printed control chart and a text file on disc of serial numbers and lock combinations. In addition, Master Lock's LockerManager software is an excellent management tool for tracking and managing locks, user assignments, and lock combinations. System can be supplied with optional handheld operating device. Include and edit this article to specify LockerManager as part of the built-in, combination lock package. \*\*\*\*\***

- A. Provide computerized lock and locker management system consisting of licensed operating software, [handheld operating device,] quick start guide, and user manual; LockerManager as developed and published by Lock Master Company.
- B. Software: Provided as one calendar year renewable license.
- C. System shall be password protected and run on desktop personal computer (PC) and handheld computers.
- D. System functions:
  - 1. System shall have capacity to register and track the following with search, retrieve, and edit capabilities.
    - a. Locker numbers and locations.
    - b. Locker assignments for both individuals and groups.
    - c. Lock combinations.
    - d. Portable combination padlocks.

- e. Locker repairs.
  - f. Other user defined data such as schedules, emergency contact information, and fees.
2. Automatically assign lockers and randomize assignments to improve traffic flow.
  3. Automatically assign lock combinations.
  4. Maintain complete, searchable data files.
  5. System shall be capable of expansion.
- E. System requirements:
1. Windows 98 or higher.
  2. 20 MB hard drive space.
  3. Apple Macintosh running Virtual PC and Windows 98 or higher.

\*\*\*\*\* **LockerManager can be supplied with handheld operating devices. Include the following paragraph to specify an optional Palm Powered Handheld device.** \*\*\*\*\*

- F. Provide locker management system with Palm Tyngsten E handheld operating device with power adapter and USB cable.

\*\*\*\*\* **Include the following paragraph to specify an optional Pocket PC Handheld device.**  
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- G. Provide locker management system with HP iPAQ rz1710 Pocket PC with AC adapter and USB synchronization cable.

### **PART 3 - EXECUTION**

#### **3.1 INSTALLATION**

- A. Locks shall be installed in accordance with lock manufacturer's instructions.

\*\*\*\*\* **Include the following paragraph if locks are to be factory installed on lockers prior to delivery to site.** \*\*\*\*\*

- B. Factory install built-in combination locks on lockers as part of [Section 10 51 13 - Metal Lockers] [Section 10 51 16 - Wood Lockers] [Section 10 51 26 - Plastic Lockers] [Section 10 51 43 - Wire Mesh Storage Lockers] [Section [\_\_\_\_\_] - [\_\_\_\_\_] ].

**\*\*\*\*\* Include the following paragraph if locks are to be field installed in either existing or new lockers. \*\*\*\*\***

- C. Field install built-in combination locks in [existing lockers.] [new lockers specified in [Section 10 51 13 - Metal Lockers] [Section 10 51 16 - Wood Lockers] [Section 10 51 26 - Plastic Lockers] [Section 10 51 43 - Wire Mesh Storage Lockers] [Section [ ] - [ ]].]
- D. After installation operate each lock to ensure proper operation. Correct deficiencies and adjust for smooth operation. Verify combination and locker number are as scheduled and recorded in lock management data.
- E. Demonstrate to Owner's representative:
  - 1. Use of preset lock combinations, supervisory access, and other maintenance activities.

**\*\*\*\*\* Include the following paragraph if LockerManager system is being specified. \*\*\*\*\***

- 2. Locker management system: Cover data input, search, retrieve, edit, assignment, and other system functions.

**END OF SECTION**