

This guide specification was prepared utilizing 3-part format recommended by the Construction Specifications Institute (CSI), and generally incorporates recommendations from their SectionFormat™/Page Format™, and MasterFormat™, latest Editions, insofar as practicable.

Carefully review and edit the text to meet the Project requirements and coordinate this Section with the remainder of the Specifications and the Drawings.

Where bracketed text is indicated, e.g. [text], make appropriate selection and delete the remainder of text within additional brackets, highlighting, and bold face type, if any.

Consult the manufacturer for assistance in editing this guide specification for specific Project applications where necessary.

This Specification was current at the time of publication but is subject to change. Please confirm the accuracy of these specifications with the manufacturer prior to use.

SECTION 10 44 00.53 SECURITY FIRE EQUIPMENT CABINETS

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

SPECIFIER: Revise subparagraphs below to suit Project requirements.

1. Security and detention [**fire extinguisher**] [**valve**] [**hose**] cabinets.
2. Accessories.
3. [**Lock preparation**][**Lock(s), lock preparation and installation**] [**Lock preparation and installation of lock(s) furnished by others**].

B. Related Requirements:

1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

SPECIFIER: Revise section numbers and titles in subparagraphs below per CSI MasterFormat™ and Project requirements.

2. Section 01 33 00 - Submittal Procedures: For administrative and procedural requirements for processing of submittals during the construction phase.
3. Section 01 77 00 - Closeout Procedures: For administrative and procedural requirements for completion of the Work.

SPECIFIER: Retain subparagraphs below to suit Project requirements; revise section numbers and titles per project requirements.

SPECIFIER: Retain Section 08 71 63 below if locks are furnished to the fire equipment cabinet manufacturer for installation at their factory.

4. Section 08 71 63 - Detention Door Hardware: For detention style locks for fire equipment cabinets specified herein.
5. Section 09 91 00 - Painting: For field painting of cabinets.
6. Section 10 44 00 - Fire Protection Specialties: For fire extinguishers and for nonsecurity fire equipment cabinets.

SPECIFIER: Consider using the Section listed below in lieu of Section 10 44 00.53, ONLY if all security/detention products are specified in a Division 11 Section; generally this Section is limited to fabricated, built-in, or free-standing equipment specifically designed for detention facilities and may include such products as detention pass-through doors or detention gun lockers.

7. Section 11 19 00 - Detention Equipment: For security fire equipment cabinets for detention facilities.
8. Section 21 12 00 - Fire-Suppression Standpipes: For standpipes and fire hose connections.
9. Section 21 12 26 - Fire Suppression Valve and Hose Cabinets: For nonsecurity valve and hose cabinets.

1.02 REFERENCES

SPECIFIER: Use care when indicating the edition date of the referenced standards; these standards are subject to regular review, and updated accordingly.

- A. Reference Standards:
 1. ASTM International (ASTM):
 - a. ASTM E814-11a, Standard Test Method for Fire Tests of Penetration Firestop Systems.

SPECIFIER: Indicate date of current Edition in affect in the Project location if known, to avoid problems with interpretation.

2. International Code Council (ICC):
 - a. International Building Code (IBC) - [current] Edition.
3. Intertek Testing Services/Warnock-Hersey International (ITS/WHI)
4. Underwriters Laboratories, Inc. (UL)
5. United States Code (USC):
 - a. Americans with Disabilities Act of 1990, as amended by the ADA Amendments Act of 2008: For restrictions relating to cabinet projections in corridors.

1.03 ACTION SUBMITTALS

SPECIFIER: Revise Section number in the paragraph below to match that used in the Project Manual.

- A. Submit in accordance with Section [01 33 00] [other]:
 1. Product Data:
 - a. Cabinets: Materials description for fire equipment cabinets include roughing-in dimensions, details showing mounting methods, relationships to surrounding construction, door hardware, cabinet type and materials, trim style and door construction, door style and materials.
 - b. Installation instructions for each product specified.
 2. Shop Drawings:
 - a. Small-scale plans showing locations of fire equipment cabinets.

JL INDUSTRIES, INC.

- b. Schedules showing each type of fire equipment cabinet and products contained therein, to ensure proper fit and function.
 - c. Indicate installation procedures and accessories required for a complete installation.
3. Samples:
- a. Fire Equipment Cabinet Door and Trim Finishes: For each type of exposed finish required, prepared on samples of size indicated below:
 - 1) Size: 6 inches (150 mm) square.

1.04 QUALITY ASSURANCE

- A. Comply with standards referenced in Article 1.02 REFERENCES.
- B. Provide fire equipment cabinets and accessories produced by a single manufacturer.

SPECIFIER: Retain paragraph below for fire-rated, recessed and semi-recessed cabinets, if any.

- D. Fire-Rated, Fire Equipment Cabinets: Listed and labeled to comply with requirements in ASTM E814 for fire-resistance rating of walls where they are installed.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle fire equipment cabinets and related materials using means and methods that will prevent damage, deterioration, or loss.
 - 1. Deliver components in manufacturer's original packaging, properly labeled for identification.

PART 2 - PRODUCTS

2.01 FIRE EQUIPMENT CABINET MANUFACTURERS

- A. Acceptable Manufacturers:

J. L. Industries, Inc., a division of Activar Construction Products Group
4450 West 78th St. Circle
Bloomington, MN 55435-5416

- B. Substitutions: Manufacturers seeking approval of their products are required to comply with the Owner's Instructions to Bidders, generally contained in the Project Manual.

2.02 SECURITY FIRE EXTINGUISHER CABINETS

SPECIFIER: Refer to manufacturer's catalog for KEY to Cabinet Model Number System.

- A. Cabinet with Steel Trim and Door: SFC Series, Model [insert Cabinet Model Number(s)].
 - 1. Cabinet Style: [Recessed] [Semi-recessed] [Surface-mounted].
 - 2. Components:
 - a. Tub: 14-gauge cold-rolled steel; with factory installed masonry anchors on recessed and semi-recessed models.
 - b. Standard Door Style: Solid door.
 - c. Door and Trim Construction: 12-gauge cold-rolled steel; flush doors with 1 inch

(25.4 mm) door stop attached by heavy-duty continuous hinge.

SPECIFIER: Select White or optional color in subparagraph below; refer to manufacturer's catalog for additional color selections; optional colors are an additional cost.

SPECIFIER: If tub is to be furnished in a different finish or color than remainder of cabinet, indicate in a separate subparagraph.

- d. Tub, Door, and Trim Finish: Factory-applied powder coat paint finish.
 - 1) Standard Color: White.
 - 2) Optional Color: **[insert color]**.
- e. Trim Style and Depth:

SPECIFIER: Select trim style and depth (Series number) in subparagraphs below from manufacturer's catalog based on available wall depth or desired appearance.

- 1) Recessed Cabinet: Flat trim.
- 2) Semi-Recessed Cabinet: 2-1/2 inch (63.50 mm) square edge.
- 3) Surface-Mount Cabinet: Square edge.
- 4) Trim Dimensions: **[1-1/2 inch (38.10 mm) face trim on nonfire-rated frame] [2 inch (50.80 mm) face trim on fire-rated frame]**.

SPECIFIER: Indicate fire-rating in subparagraph below; NOT available with surface-mounted cabinets.

- 3. Fire-Rating: **[Nonfire-rated] [Fire-Rated for 1-hour and 2-hour combustible and noncombustible wall systems]**.
- B. Cabinet with Stainless Steel Trim and Door: SSFC Series, Model **[insert Cabinet Model Number(s)]**.
- 1. Cabinet Style: **[Recessed] [Semi-recessed] [Surface-mounted]**.
 - 2. Components:
 - a. Tub: 14-gauge stainless steel; with factory installed masonry anchors on recessed and semi-recessed models.
 - b. Standard Door Style: Solid door.
 - c. Door and Trim Construction: 14-gauge stainless steel; flush doors with 1 inch (25.4mm) door stop attached by heavy-duty continuous hinge.
 - d. Finish: Factory-applied #4 directional satin finish on exterior surfaces.
 - e. Trim Style and Depth:

SPECIFIER: Select trim style and depth (Series number) in subparagraphs below from manufacturer's catalog based on available wall depth or desired appearance.

- 1) Recessed Cabinet: Flat trim.
- 2) Semi-Recessed Cabinet: 2-1/2 inch (63.50 mm) square edge.
- 3) Surface-Mount Cabinet: Square edge.
- 4) Trim Dimensions: **[1-1/2 inch (38.10 mm) face trim on nonfire-rated frame] [2 inch (50.80 mm) face trim on fire-rated frame]**.

SPECIFIER: Indicate fire-rating in subparagraph below; NOT available with surface-mounted cabinets.

- 3. Fire-Rating: **[Nonfire-rated] [Fire-Rated for 1-hour and 2-hour combustible and noncombustible wall systems]**.

2.03 SECURITY VALVE CABINETS

SPECIFIER: Refer to manufacturer's catalog for KEY to Cabinet Model Number System.

- A. Cabinet with Steel Trim and Door: SVC Series, Model **[insert Cabinet Model Number(s)]**.

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1. Cabinet Style: **[Recessed]** **[Semi-recessed]** **[Surface-mounted]**.
2. Components:
 - a. Tub: 14-gauge cold-rolled steel; with factory installed masonry anchors on recessed and semi-recessed models.
 - b. Standard Door Style: Solid door.
 - c. Door and Trim Construction: 12-gauge cold-rolled steel; flush doors with 1 inch (25.4 mm) door stop attached by heavy-duty continuous hinge.

SPECIFIER: Select White or optional color in subparagraph below; refer to manufacturer's catalog for additional color selections; optional colors are an additional cost.

SPECIFIER: If tub is to be furnished in a different finish or color than remainder of cabinet, indicate in a separate subparagraph.

- d. Tub, Door, and Trim Finish: Factory-applied powder coat paint finish.
 - 1) Standard Color: White.
 - 2) Optional Color: **[insert color]**.
- e. Trim Style and Depth:

SPECIFIER: Select trim style and depth (Series number) in subparagraphs below from manufacturer's catalog based on available wall depth or desired appearance.

- 1) Recessed Cabinet: Flat trim.
- 2) Semi-Recessed Cabinet: 2-1/2 inch (63.50 mm) square edge.
- 3) Surface-Mount Cabinet: Square edge.
- 4) Trim Dimensions: **[1-1/2 inch (38.10 mm) face trim on nonfire-rated frame]** **[2 inch (50.8 mm) face trim on fire-rated frame]**.

SPECIFIER: Indicate fire-rating in subparagraph below; NOT available with surface-mounted cabinets.

3. Fire-Rating: **[Nonfire-rated]** **[Fire-Rated for 1-hour and 2-hour combustible and noncombustible wall systems]**.

B. Cabinet with Stainless Steel Trim and Door: SSVC Series, Model **[insert Cabinet Model Number(s)]**.

1. Cabinet Style: **[Recessed]** **[Semi-recessed]** **[Surface-mounted]**.
2. Components:
 - a. Tub: 14-gauge stainless steel; with factory installed masonry anchors on recessed and semi-recessed models.
 - b. Standard Door Style: Solid door.
 - c. Door and Trim Construction: 14-gauge stainless steel; flush doors with 1 inch (25.4 mm) door stop, attached by heavy-duty continuous hinge.
 - d. Finish: Factory-applied #4 directional satin finish on exterior surfaces.
 - e. Trim Style and Depth:

SPECIFIER: Select trim style and depth (Series number) in subparagraphs below from manufacturer's catalog based on available wall depth or desired appearance.

- 1) Recessed Cabinet: Flat trim.
- 2) Semi-Recessed Cabinet: 2-1/2 inch (63.50 mm) square edge.
- 3) Surface-Mount Cabinet: Square edge.
- 4) Trim Dimensions: **[1-1/2 inch (38.10 mm) face trim on nonfire-rated frame]** **[2 inch (50.8 mm) face trim on fire-rated frame]**.

SPECIFIER: Indicate fire-rating in subparagraph below; NOT available with surface-mounted cabinets.

3. Fire-Rating: **[Nonfire-rated]** **[Fire-Rated for 1-hour and 2-hour combustible and noncombustible wall systems]**.

2.04 SECURITY HOSE CABINETS

SPECIFIER: Refer to manufacturer's catalog for KEY to Cabinet Model Number System.

- A. Cabinet with Steel Trim and Door: SHC Series, Model [insert Cabinet Model Number(s)].
1. Cabinet Style: [Recessed] [Semi-recessed] [Surface-mounted].
 2. Components:
 - a. Tub: 14-gauge cold-rolled steel; with factory installed masonry anchors on recessed and semi-recessed models.
 - b. Standard Door Style: Solid door.
 - c. Door and Trim Construction: 12-gauge cold-rolled steel; flush doors with 1 inch (25.4 mm) door stop, attached by heavy-duty continuous hinge.

SPECIFIER: Select White or optional color in subparagraph below; refer to manufacturer's catalog for additional color selections; optional colors are an additional cost.

SPECIFIER: If tub is to be furnished in a different finish or color than remainder of cabinet, indicate in a separate subparagraph.

- d. Tub, Door, and Trim Finish: Factory-applied powder coat paint finish.
 - 1) Standard Color: White.
 - 2) Optional Color: [insert color].
- e. Trim Style and Depth:

SPECIFIER: Select trim style and depth (Series number) in subparagraphs below from manufacturer's catalog based on available wall depth or desired appearance.

- 1) Recessed Cabinet: Flat trim.
- 2) Semi-Recessed Cabinet: 2-1/2 inch (63.50 mm) square edge.
- 3) Surface-Mount Cabinet: Square edge.
- 4) Trim Dimensions: [1-1/2 inch (38.10 mm) face trim on nonfire-rated frame] [2 inch (50.8 mm) face trim on fire-rated frame].

SPECIFIER: Indicate fire-rating in subparagraph below; NOT available with surface-mounted cabinets.

3. Fire-Rating: [Nonfire-rated] [Fire-Rated for 1-hour and 2-hour combustible and noncombustible wall systems].

- B. Cabinet with Stainless Steel Trim and Door: SSHC Series, Model [insert Cabinet Model Number(s)].
1. Cabinet Style: [Recessed] [Semi-recessed] [Surface-mounted].
 2. Components:
 - a. Tub: 14-gauge stainless steel; with factory installed masonry anchors on recessed and semi-recessed models.
 - b. Standard Door Style: Solid door.
 - c. Door and Trim Construction: 14-gauge stainless steel; flush doors with 1 inch (25.4 mm) door stop attached by heavy-duty continuous hinge.
 - d. Finish: Factory-applied #4 directional satin finish on exterior surfaces.
 - e. Trim Style and Depth:

SPECIFIER: Select trim style and depth (Series number) in subparagraphs below from manufacturer's catalog based on available wall depth or desired appearance.

- 1) Recessed Cabinet: Flat trim.
- 2) Semi-Recessed Cabinet: 2-1/2 inch (63.50 mm) square edge.
- 3) Surface-Mount Cabinet: Square edge.
- 4) Trim Dimensions: [1-1/2 inch (38.10 mm) face trim on nonfire-rated

frame] [2 inch (50.8 mm) face trim on fire-rated frame].

SPECIFIER: Indicate fire-rating in subparagraph below; NOT available with surface-mounted cabinets.

3. Fire-Rating: [Nonfire-rated] [Fire-Rated for 1-hour and 2-hour combustible and noncombustible wall systems].

SPECIFIER: Information listed in Article 2.05 below is applicable to the cabinets in the SFC, SVC and SHC Series including steel and stainless steel cabinets. These options are available at an additional cost unless otherwise indicated; review with manufacturer prior to specifying.

2.05 LOCKS AND ADDITIONAL OPTIONS

- A. Locks:
 1. Lock Prep and Lock Features:

SPECIFIER: Select lock prep and/or lock prep including installation from options below, at no additional cost.

- a. Detention Deadlock Prep (DDP); lock furnished and installed by others.
- b. Detention Slam Lock Prep (DSP); locks furnished by others.
- c. Mortise Cylinder Cam Lock Prep (MP); locks furnished by others.

SPECIFIER: Select lock prep and/or lock prep including installation from options below, at additional cost.

- d. Mortise Deadbolt Prep (MDP); locks furnished by others.
- e. Detention Deadlock Installed (DDI5010).
 - 1) Keys: Provide [insert number of keys to be ordered with this lock] keys.
- f. Detention Slam Lock Installed (DDI5017).
 - 1) Keys: Provide [insert number of keys to be ordered with this lock] keys.
- g. Lock Prep for Other Lock: Provide Information: [Manufacturer and Model]
- h. Lock Prep with Other Lock Installed: [Manufacturer and Model]

SPECIFIER: For mortise deadbolt, factory-installed, select lock Model 9130 (AMP) with Yale Standard cam and keys (drilled 6-pin, keyed 5-pin) with satin chrome finish, or; lock Model 1E74 with blank construction core to be keyed on-site. Locks are secured to the door with Torx-head bolts.

- g. Mortise Deadbolt Installed [(MDP-SL-AMP)] [(MDP-SL-1E74)].

SPECIFIER: For mortise cylinder cam lock, factory-installed, select lock Model 9130 (AMP) with Yale Standard cam and keys (2 keys provided) with satin chrome finish, or; lock Model 1E74 with blank construction core to be keyed on-site. Locks are secured to the door with Torx-head bolts.

- h. Mortise Cylinder Cam Lock Installed [(MP-SL-AMP)] [(MP-SL-1E74)].

SPECIFIER: Select additional options listed below; indicate selection as a part of the Series Model in Articles 2.02, 2.03, and/or 2.04 as applicable.

- B. Additional Options:
 1. Wall Signs and Cabinet Lettering:
 - a. Mounting Direction: [Vertical] [Horizontal].
 - b. Type: [Decal] [Diecut] lettering
 - c. Text: [FIRE EXTINGUISHER] [FIRE DEPARTMENT VALVE] [FIRE HOSE].
 - d. Color(s): [Red] [Black] [White].
 - e. Other Lettering Manufacturer No.: [insert designated number(s)].
 2. Painted Steel Tubs for Recessed Models: [Red] [Black].

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine walls and partitions for suitable framing depth and blocking where recessed and semi-recessed cabinets will be installed, and blocking where surface mounted cabinets will be installed.
 - 1. Notify the Contractor in writing of conditions detrimental to proper and timely completion of the installation.
 - 2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Install cabinets in locations and at mounting heights indicated, or if not indicated, at heights to comply with applicable regulations of governing authorities.
 - 1. Prepare recesses in walls for fire equipment cabinets as required by type and size of cabinet and style of trim and to comply with manufacturer's instructions.
 - 2. Securely fasten fire equipment cabinets to structure, square and plumb, to comply with manufacturer's instructions.
 - 3. Maintain fire ratings where cabinets are recessed into fire-rated wall systems.

SPECIFIER: Retain paragraph below for wall signs which identify a fire equipment cabinet location.

- B. Wall Signs:
 - 1. Location: Where shown or directed.
 - 2. Apply on walls after field painting is completed and has been accepted.

SPECIFIER: Retain paragraph below for fire equipment cabinets unless engraved or etched text is specified.

- C. Cabinet Lettering:
 - 1. Location: **[Face of door framing] [Face of door] [Where shown or directed]**.
 - 2. Apply lettering on field-painted fire equipment cabinets after painting is complete and has been accepted.

SPECIFIER: Retain subparagraph above for field-painted cabinets, or; retain below for factory-finished cabinets.

- 3. Apply lettering on factory-finished (no further painting specified) fire equipment cabinets either at the factory or just prior to Substantial Completion.

3.03 ADJUSTING AND CLEANING

- A. Remove temporary protective coverings and strippable films, if any, as fire equipment cabinets are installed unless otherwise indicated in manufacturer's written installation instructions.
- B. Adjust fire protection cabinet doors to operate easily without binding. Verify that integral locking devices operate properly.
- C. On completion of fire protection cabinet installation, clean interior and exterior surfaces as recommended by manufacturer.
- D. Touch up marred finishes, or replace fire protection cabinets that cannot be restored to factory-finished appearance. Use only materials and procedures recommended or furnished by fire protection cabinet and mounting bracket manufacturers.
- E. Replace fire protection cabinets that have been damaged or have deteriorated beyond successful repair by finish touch up or similar minor repair procedures.

END OF SECTION