

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(A) FIRE PROTECTION SPECIALTIES

*SPECIFIER: This Section includes fire extinguishers, fire extinguisher cabinets for the Crownline Series cabinets, and related accessories.*

### PART 1 - GENERAL

#### 1.01 SUMMARY

A. Section Includes:

*SPECIFIER: Revise subparagraphs below to suit Project requirements.*

1. Valve, Hose, Fire Department, Extinguisher cabinets.
2. Accessories.

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.*

4. Section 09 91 00 - Painting: For field painting of cabinets.
5. Section 11 19 00 - Detention Equipment: For fire protection specialties for detention facilities.
6. Section 21 12 00 - Fire-Suppression Standpipes: For standpipes and fire hose connections.
7. Section 21 12 26 - Fire Suppression Valve and Hose Cabinets: For valve and hose

- cabinets.
- 8. Section 21 13 00 - Fire-Suppression Sprinkler Systems: For sprinkler systems using water for fire extinguishing and suppression.
- 9. Section 23 38 13 - Commercial-Kitchen Hoods: For ventilation hoods and equipment with fire suppression systems for commercial kitchens.

## 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. National Fire Protection Association (NFPA):
  - a. NFPA 10-2010, Standard for Portable Fire Extinguishers: For criteria covering installations for Class A, B, C, D, and K hazards as well as the selection, inspection, maintenance, recharging, and testing of portable fire extinguishing equipment.

*SPECIFIER: Retain subparagraph below if wired alarms are specified for fire extinguisher cabinets.*

- b. NFPA 70-2011, National Electrical Code.
- 5. Underwriters Laboratories, Inc. (UL)
- 6. 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 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. Extinguishers: Materials description for fire extinguishers; include ratings and classifications.
    - c. Installation instructions for each product specified.
  - 2. Shop Drawings:
    - a. Small-scale plans showing locations of cabinets.
    - b. Schedules showing each type of cabinet and extinguisher to ensure proper fit and function.
    - c. Indicate installation procedures and accessories required for a complete installation.
  - 3. Samples:
    - a. 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 INFORMATIONAL SUBMITTALS**

- A. Warranty: Sample of special warranty.

#### **1.05 QUALITY ASSURANCE**

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

*SPECIFIER: The authority having jurisdiction or AHJ ultimately determines what fire extinguishers are appropriate for each project; VERIFY with AHJ prior to completion of this Section.*

- C. Provide fire extinguishers of type approved by UL, State Fire Marshal's Office, and local regulatory agencies, if any.

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

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

*SPECIFIER: Retain paragraph below if wired alarms are specified for fire extinguisher cabinets.*

- E. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

#### **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver, store, and handle fire protection specialties 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.

#### **1.07 WARRANTY**

All Fire Protection Products (except fire extinguishers) carry a one year warranty after date of shipment against defects in materials or workmanship. Fire extinguishers carry a longer warranty. We will replace or repair any product found defective within this period. No other warranty expressed or implied is valid. Manufacturer's warranty, terms and conditions apply in all cases. Please see complete [warranty](#) on our website for more details.

### **PART 2 - PRODUCTS**

#### **2.01 FIRE PROTECTION SPECIALTIES MANUFACTURERS**

- A. Acceptable Manufacturers:

AmeraProducts, Inc.

[www.AmeraProducts.com](http://www.AmeraProducts.com)

(800) 608-6568

Activar Construction Products Group, Inc. – JL Industries

Larsen's Manufacturing Co.

- 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.

*SPECIFIER: Select cabinet(s) in paragraphs below based on the extinguisher Types selected above to ensure that type and capacity of hoses, fire department valves and fire extinguishers indicated are accommodated, and that wall depths for recessed and semi-recessed models are sufficient for the*

*cabinets selected.*

**2.02 HOSE, FIRE DEPARTMENT VALVE/EXTINGUISHER CABINETS**

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

- A. Cabinet with Steel Trim and Door: Model **[insert Cabinet Model Number(s)]**.
  - 1. Cabinet Style: **[Recessed] [Semi-recessed] [Surface-mounted]**.
  - 2. Components:
    - a. Tub: Cold-rolled steel.
      - 1) Finish: Factory-applied powder coat paint finish.

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

- a) Standard Color: White.
- b) Optional Color: **[insert color]**.

*SPECIFIER: Retain zinc-plated handle as the standard on all doors EXCEPT the semi-recessed cabinet with 4" rolled edge which has a recessed pull as standard.*

- b. Door and Trim Construction: Cold-rolled steel; flush doors with 5/8 inch (15.88 mm) door stop attached by continuous hinge and equipped with **[zinc-plated handle] [black ABS recessed pull]** with roller catch.

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

- 1) Finish: Factory-applied powder coat paint finish.
  - a) Standard Color: White.
  - b) Optional Color: **[insert color]**.

- c. 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: **[3/8 inch (9.53 mm) flat trim] [Trimless]**.
- 2) Semi-Recessed Cabinet:
  - a) Square Edge: **[1-1/4 inch (31.75 mm)]**
  - b) Rolled Edge: **[2-1/2 inch (63.50 mm)]**.
- 3) Surface-Mount Cabinet:

*SPECIFIER: Select square edge or optional rolled edge in subparagraph below; rolled edge is an additional cost.*

- a) Standard Profile: Square edge.
- b) Optional Profile: Rolled edge.
- 4) Trim Dimensions: 1-3/4 inch (44.45 mm) face trim on frame and 1-1/4 inch (31.75 mm) face trim on door.

*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 combustibles and noncombustible wall systems]**.

- B. Cabinet with Aluminum Trim and Door: Model **[insert Cabinet Model Number(s)]**.

1. Cabinet Style: [**Recessed**] [**Semi-recessed**] [**Surface-mounted**].
2. Components:
  - a. Tub (Recessed and Semi-recessed cabinets): Cold-rolled steel.
    - 1) Finish: Factory-applied powder coat paint finish.

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

- a) Standard Color: White.
- b) Optional Color: [**insert color**].

*SPECIFIER: Select subparagraph above or below based on mounting style.*

- a. Tub (Surface mount cabinets): Anodized aluminum; clear color.

*SPECIFIER: Aluminum tub indicated in subparagraph below is available for recessed and semi-recessed cabinets if located in nonfire-rated wall construction; this aluminum tub is an additional cost.*

- a. Tub: Anodized aluminum; clear color.

*SPECIFIER: Retain zinc-plated handle as the standard on all doors EXCEPT the semi-recessed cabinet with 4" rolled edge which has a recessed pull as standard.*

- b. Door and Trim Construction: Aluminum; flush doors with 5/8 inch (15.88 mm) door stop attached by continuous hinge and equipped with [**zinc-plated handle**] [**black ABS recessed pull**] with roller catch.

*SPECIFIER: Select Clear or optional color in subparagraph below; custom colors are an additional cost.*

- 1) Finish: Factory-anodized finish.
  - a) Standard Color: Clear.
  - b) Optional Color: [**Dark**] bronze.
- c. 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: 3/8 inch (9.53 mm) flat trim.
- 2) Semi-Recessed Cabinet:
  - a) Square Edge Formed of Extrusions: [**1-1/4 inch (31.75 mm)**]
  - b) Rolled Edge Formed of Extrusions: [**2-1/2 inch (63.50 mm)**]
- 3) Surface-Mount Cabinet:
  - a) Profile: Square edge Formed of Extrusions.
- 4) Trim Dimensions: 1-3/4 inch (44.45 mm) face trim on frame and 1-1/4 inch (31.75 mm) face trim on door.

*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**].
- C. Cabinet with Stainless Steel Trim and Door: Model [**insert Cabinet Model Number(s)**].
1. Cabinet Style: [**Recessed**] [**Semi-recessed**] [**Surface-mounted**].
  2. Components:
    - a. Tub (Recessed and Semi-recessed Cabinets): Cold-rolled steel.
      - 1) Finish: Factory-applied powder coat paint finish.

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

- a) Standard Color: White.
- b) Optional Color: **[insert color]**.

*SPECIFIER: Select subparagraph above or below based on mounting style.*

- a. Tub (Surface mount cabinets): Stainless steel; #4 directional satin finish with galvanized back panel.

*SPECIFIER: Select subparagraph below for recessed and semi-recessed cabinets if desired; stainless steel tubs for these mounting styles are an additional cost.*

- a. Tub (Recessed and Semi-recessed Cabinets): Stainless steel; #4 directional satin finish.

*SPECIFIER: Retain zinc-plated handle as the standard on all doors EXCEPT the semi-recessed cabinet with 4" rolled edge which has a recessed pull as standard.*

- b. Door and Trim Construction: Stainless steel; flush doors with 5/8 inch (15.88 mm) door stop attached by continuous hinge and equipped with **[zinc-plated handle]** **[black ABS recessed pull]** with roller catch.

*SPECIFIER: Select standard or custom finish in subparagraph below; custom finishes are an additional cost.*

- 1) Finish: Factory-applied ground and polished finish.
  - a) Standard Finish: #4 directional satin finish.

*SPECIFIER: The #6 finish is nonreflective; the #7 and #8 finishes are considered reflective finishes, but the #7 finish will not show scratches as readily as a #8 finish will.*

- b) Optional Finish: **[#6 dull satin]** **[#7 directional polished]** **[#8 mirrorlike]** finish.

- c. 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: **[3/8 inch (9.53 mm) flat trim]** **[Trimless]**.
- 2) Semi-Recessed Cabinet:
  - a) Square Edge: **[1-1/4 inch (31.75 mm)]**
  - b) Rolled Edge: **[2-1/2 inch (63.50 mm)]**
- 3) Surface-Mount Cabinet:

*SPECIFIER: Select square edge or rolled edge in subparagraph below; square edge is an additional cost.*

- a) Standard Profile: Rolled edge.
- b) Optional Profile: Square edge.
- 4) Trim Dimensions: 1-3/4 inch (44.45 mm) face trim on frame and 1-1/4 inch (31.75 mm) face trim on door.

*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]**.

- D. Cabinet with **[Bronze]** **[Brass]** Trim and Door: Model **[insert Cabinet Model Number(s)]**.
1. Cabinet Style: **[Recessed]** **[Semi-recessed]** **[Surface-mounted]**.
  2. Components:
    - a. Tub: Cold-rolled steel.
      - 1) Finish: Factory-applied powder coat paint finish.

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

- a) Standard Color: White.
- b) Optional Color: **[insert color]**.

*SPECIFIER: Select standard painted tub above for recessed and semi-recessed cabinets, or; select bronze or brass tubs for surface-mounted cabinets, which are generally provided in the same material and finish as selected for Door and Trim Construction specified in subparagraph d below.*

- b. Tub: Bronze (solid not plated):
  - 1) Finish: Match door and trim construction.
- c. Tub: Brass (solid not plated):
  - 1) Finish: Match door and trim construction.

*SPECIFIER: Select bronze or brass material in subparagraph below, and select operating hardware material; bronze and brass hardware finishes generally match the door and trim finish selected.*

- d. Door and Trim Construction: **[Bronze]** **[Brass]** (solid not plated); flush doors with 5/8 inch (15.88 mm) door stop attached by continuous hinge and equipped with **[pull painted to match finish]** **[black ABS recessed pull]** with roller catch.
  - 1) Bronze Finish:
    - a) Standard Finish: US10/BHMA 612 Satin bronze, clear coated.

*SPECIFIER: Select standard bronze finish above, or; select an optional bronze finish below, which are available at an additional cost.*

- b) Optional Finish: **[US9/BHMA 611 Bright bronze, clear coated]**  
**[US10B/BHMA 613 Dark Oxidized satin bronze, oil-rubbed]**.

*SPECIFIER: Select bronze finish above or brass finish below as applicable.*

- 2) Brass Finish:
  - a) Standard Finish: US3/BHMA 605 Bright brass, clear coated.

*SPECIFIER: Select standard brass finish above, or; select optional brass finish below, which is available at an additional cost.*

- b) Optional Finish: US4/BHMA 606 Satin brass, clear coated.

- 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: 3/8 inch (9.53 mm) flat trim.
- 2) Semi-Recessed Cabinet:
  - a) Square Edge: **[1-1/4 inch (31.75 mm)]** **[1-1/2 inch (38.10 mm)]**.
- 3) Surface-Mount Cabinet:

- a) Square edge.
- 4) Trim Dimensions: 1-3/4 inch (44.45 mm) face trim on frame and 1-1/4 inch (31.75 mm) face trim on door.

*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 2.04 below is applicable to the cabinets in the "Ambassador" Series (Steel), "Academy" Series (Aluminum), "Cosmopolitan" Series (Stainless steel), and "Cavalier" Series (Brass or bronze) ONLY.*

## 2.04 CABINET DOOR STYLES, GLAZING TYPES, AND ADDITIONAL OPTIONS

### A. Door Style:

*SPECIFIER: Select Door Styles from options listed below; indicate selection as a part of the Series Model in Article 2.03 EXTINGUISHER CABINETS above.*

- 1. Style F: Full glazing; with pull handle.
- 2. Style G: Full glazing with SAF-T-LOK™; theft-deterrent, pull handle.
- 3. Style D: Horizontal Duo Panel; rectangular glazing near top of door; with pull handle.
- 4. Style E: Horizontal Duo Panel with SAF-T-LOK™; rectangular glazing near top of door; theft-deterrent, pull handle.
- 5. Style S21: Solid; no glazing; with pull handle.
- 6. Style L22: Solid with SAF-T-LOK™; no glazing; theft-deterrent, pull handle.
- 7. Style L24: Solid with cylinder lock; no glazing; no pull handle.
- 8. Style B10: Solid with SAF-T-LOK™; 2 inch by 4 inch (50.80 mm by 101.60 mm) acrylic insert; theft-deterrent, pull handle.
- 9. Style V: Vertical Duo Panel; narrow vertical glazing full height of door; with pull handle.
- 10. Style W: Vertical Duo Panel with SAF-T-LOK™; narrow vertical glazing full height of door; theft-deterrent, pull handle.
- 11. Style A: Center Duo Panel with SAF-T-LOK™, with pull handle.

### B. Door Glazing:

*SPECIFIER: Select Glazing Types from options listed below; indicate selection as a part of the Series Model in Article 2.03 EXTINGUISHER CABINETS above.*

- 1. Type 10: Clear acrylic.
- 2. Type 13: Clear wire glass with safety film.
- 3. Type 15: Bronze tinted acrylic.
- 4. Type 16: Gray tinted acrylic.
- 5. Type 17: Clear tempered glass.
- 6. Type 18: Laminated safety glass.

*SPECIFIER: Options listed below are in addition to those indicated in Article 2.02 CABINETS above; these options are available at an additional cost. Review with manufacturer prior to specifying.*

### C. Additional Options:

- 1. Wall Signs and Cabinet Lettering:
  - a. See separate documentation for details.
- 2. Door Hardware:
  - a. "Futura" embossed "FIRE" handle; **[mill] [white] [red]**.
  - b. ADA flush pull.
  - c. Chrome turn handle.



3. Alarms: Battery-operated, cabinet-mounted alarm to protect against theft or tampering.
  - a. ["Commander"] ["Brigadier"] [Strobe type] alarm.
4. Painted Steel Tubs: [Red] [Black].
5. Engraved Door:
  - a. See separate documentation for details.
6. Etched Glass:
  - a. See separate documentation for details.

## 2.05 SOURCE QUALITY CONTROL

- A. Ship extinguishers to the Project site fully charged, EXCEPT those which contain water as an extinguishing agent, if any.
- B. Obtain Fire Extinguishers and Fire Extinguisher Brackets from same manufacturer to ensure compatibility.

## 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 extinguisher cabinets as required by type and size of cabinet and style of trim and to comply with manufacturer's instructions.
  2. Securely fasten mounting brackets and fire extinguisher 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 extinguisher 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 extinguisher cabinets unless engraved or etched text is specified.*

- C. Cabinet Lettering:
  1. Location: [Face of door framing] [Face of glass surface] [Where shown or directed].
  2. Apply lettering on field-painted fire protection 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) either at the factory or just prior to Substantial Completion.

**3.03 FIELD QUALITY CONTROL**

- A. Ensure that each extinguisher is fully charged, and that inspection of each extinguisher has been performed, as evidenced by the National Association of Fire Equipment Distributors certification tag, just prior to turnover.

**3.04 ADJUSTING AND CLEANING**

- A. Remove temporary protective coverings and strippable films, if any, as fire protection 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 touchup or similar minor repair procedures.

END OF SECTION