

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.



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SECTION 10 44 00(B) FIRE PROTECTION SPECIALTIES

SPECIFIER: This Section includes fire extinguishers, fire extinguisher cabinets for the Panorama, Clear Vu, Embassy, and School Series cabinets, and related accessories.

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

SPECIFIER: Revise subparagraphs below to suit Project requirements.

1. Fire extinguishers.
2. Extinguisher cabinets.
3. 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 fire extinguisher 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 fire extinguisher cabinets and individual fire extinguishers.
 - 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.

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3. Samples:
 - a. Extinguisher 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:

JL Industries, Inc., a division of Activar Construction Products Group
9702 Newton Av S
Bloomington, MN 55431

- 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: 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.

2.02 FIRE EXTINGUISHERS

SPECIFIER: Select extinguisher Type in paragraphs below based on the Class of fires anticipated.

- A. Pressurized Water Type: Extinguisher unit containing water and compressed air; nontoxic.
1. Construction: Butt-welded 304-L stainless steel cylinder with stainless steel discharge lever and fixed carry handle, O-ring seal, replaceable valve stem seal, visual pressure gage, pull pin, and UL-labeled chemical engine hose.
 2. Effectiveness (Rating): Class A fires.
 3. Model Identification and UL Rating: Grenadier P; 2A.
- B. Multi-Purpose Chemical Type: Extinguisher unit containing a fluidized and siliconized mono ammonium phosphate powder; nonconductive and nontoxic.
1. Construction: Heavy duty steel cylinder with metal valve and siphon tube, O-ring seal, replaceable valve stem seal, visual pressure gage, pull pin and upright squeeze grip.
 2. Finish: Factory powder-coated; Red.
 3. Effectiveness (Rating): Class A, B, and C fires.

SPECIFIER: Select extinguisher model number in subparagraph below based on capacity and UL rating required, and listed in the manufacturer's Model Chart. VERIFY that extinguisher cabinet specified is adequately sized for extinguisher body and overall height; NOTE that Cosmic 20 lb extinguishers are available in 2 different physical sizes with the same UL rating.

4. Model Identification and UL Rating: Cosmic [2-1/2E; 1A-10BC] [5E; 3A-40BC] [6E; 3A-40BC] [10E; 4A-80BC] [20E (FE20C); 10A-120BC] [20E (FE20A); 10A-120BC].
- C. Carbon Dioxide Type: Extinguisher unit containing liquid carbon dioxide under pressure; nonconductive.
1. Construction: Lightweight, high pressure, aluminum cylinder with O-ring seal, metal valve, replaceable molded valve stem seal, and pull pin.
 2. Finish: Factory powder-coated; Red.
 3. Effectiveness (Rating): Class B and C fires.

SPECIFIER: Select extinguisher model number in subparagraph below based on capacity and UL rating required, and listed in the manufacturer's Model Chart. VERIFY that extinguisher cabinet specified is adequately sized for extinguisher body and overall height.

4. Model Identification and UL Rating: Sentinel [5; 5BC] [10; 10BC] [15; 10BC] [20; 10BC].
- D. Regular Dry Chemical Type: Extinguisher unit containing a siliconized dry sodium bicarbonate base; nontoxic.
1. Construction: Heavy duty steel cylinder with metal valve and siphon tube, O-ring seal, replaceable valve stem seal, visual pressure gage, pull pin, and upright squeeze grip.
 2. Finish: Factory powder-coated; Red.
 3. Effectiveness (Rating): Class B and C fires.

SPECIFIER: Select extinguisher model number in subparagraph below based on capacity and UL rating required, and listed in the manufacturer's Model Chart. VERIFY that extinguisher cabinet specified is adequately sized for extinguisher body and overall height. Note that the Galaxy 10 models are available with 2 different UL ratings and 2 different physical sizes.

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4. Model Identification and UL Rating: Galaxy [2-1/2; 10BC] [5; 10BC] [5-1/2; 40BC] [6; 40 BC] [10; 40 BC (FG10B)] or [10; 60BC (FG10A)] [20; 120BC].

- E. Halotron® Type: Extinguisher unit containing a clean extinguishing agent Halotron® 1 approved by the EPA, accepted and specified by the government, and approved by the FAA for use in airports; nonconductive.

1. Construction: Drawn steel cylinder with steel siphon tube, O-ring seal, power cone discharge system, replaceable valve stem seal, visual pressure gage, pull pin, and upright squeeze grip.
2. Finish: Factory powder-coated; Red.
3. Effectiveness (Rating): Class A, B, and C fires.

SPECIFIER: Select extinguisher model number in subparagraph below based on capacity and UL rating required, and listed in the manufacturer's Model Chart. VERIFY that extinguisher cabinet specified is adequately sized for extinguisher body and overall height; NOTE that the 11 lb. and 15-1/2 lb. extinguishers are available in 2 different physical sizes with the same UL rating.

4. Model Identification and UL Rating: Mercury [2-1/2; 2BC] [5; 5BC] [11 (FM11C); 1A-10BC] [11 (FM11A; 1A-10BC)] [15-1/2 (FM15C); 2A-10BC] [15-1/2 (FM15A); 2A-10BC].

SPECIFIER: The extinguisher specified in subparagraph below is primarily used as a supplemental means of containing liquid cooking media fires, when combined with a pre-engineered suppression system in a restaurant application.

- F. Class K Wet Chemical Type: Extinguisher unit containing a low "pH" potassium acetate solution.

1. Construction: Stainless steel cylinder with protective nozzle tip orifice seal and nonmetallic nozzle tip finger guard, O-ring seal, replaceable valve stem seal, visual pressure gage, pull pin, and upright squeeze grip.
2. Effectiveness (Rating): Class K fires.

SPECIFIER: Select extinguisher model number in subparagraph below based on capacity and UL rating required, and listed in the manufacturer's Model Chart. VERIFY that extinguisher cabinet specified is adequately sized for extinguisher body and overall height.

3. Model Identification and and UL Rating: Saturn [15; Class K] [25; Class K].

SPECIFIER: The extinguisher specified in subparagraph below is ideal for use in medical facilities featuring telecommunications, and in cleanroom environments.

- G. Water Mist Type: Extinguisher unit containing water; nontoxic.

1. Construction: Nonmagnetic cylinder and misting nozzle, O-ring seal, replaceable valve stem seal, visual pressure gage, and pull pin.
2. Finish: Factory powder-coated; White.
3. Effectiveness (Rating): Class A and C fires.

SPECIFIER: Select extinguisher model number in subparagraph below based on capacity and UL rating required, and listed in the manufacturer's Model Chart. VERIFY that extinguisher cabinet specified is adequately sized for extinguisher body and overall height.

4. Model Identification and UL Rating: 272; 2AC.

- H. Accessories:

1. Mounting Brackets:

SPECIFIER: Steel brackets are provided with each fire extinguisher from the factory; these brackets may be used to mount extinguishers within cabinets if so provided, or may be selected for mounting in place of cabinets where allowed by code.

- a. Standard Brackets: Provide manufacturer's standard steel bracket, designed to secure fire extinguisher to wall or structure, of sizes required for types and capacities of fire extinguishers indicated.

SPECIFIER: Select standard brackets above, or; select painted brackets and accompanying straps in subparagraph below, for mounting in place of cabinets where allowed by code.

- b. Optional Brackets: Provide manufacturer's steel bracket with powder coat paint finish in manufacturer's standard color, and additional straps designed to secure fire extinguisher to wall or structure and prevent accidental dislodgement, of sizes required for types and capacities of fire extinguishers indicated.

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

2.03 EXTINGUISHER CABINETS

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

A. Cabinet with Frameless Acrylic Door: Panorama Series, 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 Construction: Frameless, flush door fabricated of [**clear smooth**] [**opaque textured**] acrylic, attached by continuous hinge and equipped with [**zinc-plated handle**] [**black ABS recessed pull**] with roller catch.
 - 1) Clear Acrylic (No color).

SPECIFIER: Select clear acrylic above or opaque textured acrylic below

- 2) Opaque Textured Acrylic - [**Black**] [**Red**] [**White**]: Stippled acrylic surface with aluminum backing to protect lettering; door is furnished with standard "FIRE EXTINGUISHER" lettering.

SPECIFIER: Select trim construction in subparagraphs below; aluminum and stainless steel are an additional cost.

- c. Trim Construction:
 - 1) Cold-rolled steel.

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) Finish: Factory-applied powder coat paint finish.
 - a) Standard Color: White.

b) Optional Color: **[insert color]**.

- 2) Clear anodized aluminum.
- 3) Stainless steel; #4 directional satin finish.
- 4) Bronze (solid not plated); US10/BHMA 612 Satin bronze, clear coated.
- 5) Brass (solid not plated); US3/BHMA 605 Bright brass, clear coated.

d. 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)] [1-1/2 inch (38.10 mm)]**.
 - b) Rolled Edge: **[2-1/2 inch (63.50 mm)] [3 inch (76.20 mm)] [4 inch (101.60 mm)] [4-1/2 inch (114.20 mm)]**.
- 3) Surface-Mount Cabinet:

SPECIFIER: Select square edge or optional rolled edge in subparagraph below; rolled edge is available in steel or stainless steel at 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.

e. Door Style:

SPECIFIER: Select Door Styles from options listed below; indicate selection as a part of the Series Model in Paragraph A above for the Panorama Series.

- 1) Style C70: Clear, unlettered smooth acrylic with pull handle.
- 2) Style C71: Clear, unlettered smooth acrylic with SAF-T-LOK™; theft-deterrent with pull handle.
- 3) Style P: Textured obscure colored acrylic with pull handle.
- 4) Style Q: Textured obscure colored acrylic with SAF-T-LOK™; theft-deterrent with pull handle.

SPECIFIER: Retain the subparagraph below with the associated information if Door Styles P and/or Q above are specified; select door glazing color and lettering orientation.

- 5) Acrylic Door Color and Lettering Orientation:
 - a) Type 40: Black acrylic with vertical lettering; white.
 - b) Type 41: Red acrylic with vertical lettering; white.
 - c) Type 42: White acrylic with vertical lettering; black.
 - d) Type 43: White acrylic with vertical lettering; red.
 - e) Type 45: Black acrylic with horizontal lettering; white.
 - f) Type 46: Red acrylic with horizontal lettering; white.
 - g) Type 47: White acrylic with horizontal lettering; black.
 - h) Type 48: White acrylic with horizontal lettering; red.
 - i) Type 50: Black acrylic with vertical ascending lettering; white.
 - j) Type 51: Red acrylic with vertical ascending lettering; white.
 - k) Type 52: White acrylic with vertical ascending lettering; black.
 - l) Type 53: White acrylic with vertical ascending lettering; red.

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]**.

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

4. Additional Options:
- a. Wall Signs:
 - 1) Mounting Direction: **[Vertical] [Horizontal]**.
 - 2) Type: **[Decal] [Diecut]** lettering:
 - 3) Text: FIRE EXTINGUISHER; **[vertical] [horizontal]**.
 - 4) Color(s): **[Red] [Black] [White]**.
 - 5) Manufacturer No.: **[insert designated number]**.
 - b. Door Hardware:
 - 1) "Futura" embossed "FIRE" handle; **[mill] [white] [red]**.
 - 2) ADA flush pull.
 - 3) Chrome turn handle.
 - c. Alarms: Battery-operated, cabinet-mounted alarm to protect against theft or tampering.
 - 1) **["Commander"] ["Brigadier"] [Strobe type]** alarm.

- B. Cabinet with Acrylic Bubble Door: Clear Vu Series, 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: Select door and trim material in subparagraphs below.

- b. Steel Door and Trim Construction: Flush doors with 5/8 inch (15.88 mm) door stop attached by continuous hinge and equipped with zinc-plated handle with roller catch.
 - 1) Cold-Rolled Steel:
 - a) 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.

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

- b. Aluminum Door and Trim Construction: Flush doors with 5/8 inch (15.88 mm) door stop attached by continuous hinge and equipped with zinc-plated handle with roller

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catch.

- 1) Aluminum:
 - a) Finish: Factory-anodized finish.

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

- b) Standard Color: Clear.
 - c) Optional Color: Dark bronze (pull painted to match)
 - b. Stainless Steel Door and Trim Construction: Flush doors with 5/8 inch (15.88 mm) door stop attached by continuous hinge and equipped with zinc-plated handle with roller catch.
 - 1) Finish: Factory-applied ground and polished finish.
 - a) Standard Finish: #4 directional satin finish.

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.

- b. **[Bronze] [Brass]** Door and Trim Construction: Flush doors with 5/8 inch (15.88 mm) door stop attached by continuous hinge, pull painted to match, and 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.

SPECIFIER: Select Door Style from options listed below; indicate selection as a part of the Series Model in Paragraph B above for the Clear Vu Series.

- c. Door Style:
 - 1) Style F: Full glazing with pull handle.
 - 2) Style G Full glazing with SAF-T-LOK™; theft-deterrent.
 - d. Bubble: Acrylic bubble with 2-1/2 inch (63.50 mm) projection.
 - 1) Standard Color: 25 - Clear.

SPECIFIER: Select optional bubble color in subparagraph below, if other than clear is specified above; optional colors are an additional cost.

- 1) Optional Color: **[26 - Red] [27 - Bronze].**

- 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)].
 - b) Rolled Edge: [2-1/2 inch (63.50 mm)] [3 inch (76.20 mm)].
- 3) Surface-Mount Cabinet:
 - a) Standard Profile: Square edge.

SPECIFIER: Select optional edge profile below for surface-mounted steel or stainless steel cabinets at an additional cost.

- 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 combustible and noncombustible wall systems**].

C. Trimless Cabinet with Overlapping Door: Embassy Series, Model [insert Cabinet Model Number(s)].

1. Cabinet Style: Recessed, trimless.
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: Aluminum tub indicated in subparagraph below is available for cabinets if located in nonfire-rated wall construction; this aluminum tub is an additional cost.

- a. Tub: Anodized aluminum; clear color.

SPECIFIER: Select door and trim material in subparagraphs below; 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. Steel Door Construction: Flush, formed design doors 7/8 inch (22.25 mm) deep, with 2 concealed hinges, and concealed handle with roller catch.
 - 1) Cold-Rolled Steel:
 - a) 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.

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

- b. Aluminum Door Construction: Flush, formed design doors 7/8 inch (22.25 mm) deep, with 2 concealed hinges, and concealed handle with roller catch.
 - 1) Aluminum:

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- a) Finish: Factory-anodized finish.

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

- b) Standard Color: Clear.
 - c) Optional Color: Dark bronze.
- b. Stainless Steel Door Construction: Flush, formed design doors 7/8 inch (22.25 mm) deep, with 2 concealed hinges, and concealed handle with roller catch.
- 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; these finishes are available an additional cost.

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

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.

- b. **[Bronze] [Brass]** Door Construction: Flush, formed design doors 7/8 inch (22.25 mm) deep, with 2 concealed hinges, and concealed handle with roller catch. V and W door styles feature standard zinc-plated or pull painted to match.
- 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.

SPECIFIER: Select Door Style from options listed below; indicate selection as a part of the Series Model in Paragraph C above for the Embassy Series.

- c. Door Style:
- 1) S21: Solid, no glazing; concealed pull.
 - 2) V: Vertical Duo; concealed pull.
 - 3) W: Vertical Duo with SAF-T-LOK™ and standard pull; theft-deterrent.
 - 4) L22: Solid, no glazing, with SAF-T-LOK™ and standard pull; theft-deterrent.

SPECIFIER: Select Glazing Types from options listed below; indicate selection as a part of the Series Model in Paragraph C above.

- d. Glazing:
- 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: 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: Options listed below are in addition to those indicated above; these options are available at an additional cost. Review with manufacturer prior to specifying.

- 4. Additional Options:
 - a. Wall Signs:
 - 1) Mounting Direction: **[Vertical] [Horizontal].**
 - 2) Type: **[Decal] [Diecut]** lettering:
 - 3) Text: FIRE EXTINGUISHER; **[vertical] [horizontal].**
 - 4) Color(s): **[Red] [Black] [White].**
 - 5) Manufacturer No.: **[insert designated number].**
 - b. Door Hardware:
 - 1) "Futura" embossed "FIRE" handle; **[mill] [white] [red].**
 - c. Alarms: Battery-operated, cabinet-mounted alarm to protect against theft or tampering.
 - 1) **["Commander"] ["Brigadier"]** alarm.
 - d. Engraved Door on Aluminum, Steel or Stainless Steel:
 - 1) Text: FIRE EXTINGUISHER.
 - e. Etched Glass:
 - 1) Text: FIRE EXTINGUISHER.

D. School Cabinets: Model [insert Cabinet Model Number(s)].

- 1. Cabinet Style: **[Recessed] [Semi-recessed] [Surface-mounted].**
- 2. Components:
 - a. Tub: Cold-rolled 16-gauge 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: Stainless steel tub is available at an additional cost, but provided as standard with the stainless steel doors and trim.

- a. Tub: Stainless steel.
- b. Steel Door and Trim Construction: Cold-rolled 12-gauge steel; flush doors with 5/8 inch (15.88 mm) door stop attached by continuous hinge and equipped with zinc-plated handle with roller catch.

SPECIFIER: Select White or optional color in subparagraph below; optional color is an additional cost.

- 1) Finish: Factory-applied powder coat paint finish.

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- a) Standard Color: White.
 - b) Optional Color: Red.
- b. Stainless Steel Door and Trim Construction: 14-gauge stainless steel; flush doors with 5/8 inch (15.88 mm) door stop attached by continuous hinge and equipped with zinc-plated handle with roller catch.
- 1) Finish: Factory-applied ground and polished #4 directional satin 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.
- 2) Semi-Recessed and Surface-Mounted Cabinets: Square edge.
- 3) 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: Select Door Style from options listed below; indicate selection as a part of the Series Model in Paragraph D above for the School Cabinets Series.

- d. Door Style:
- 1) Style D: Horizontal Duo Panel; rectangular glazing near top of door; with pull handle.
 - 2) Style F: Full glazing with pull handle.
- e. Glazing:

SPECIFIER: Select standard glazing in subparagraph below, or; select optional glazing at an additional cost.

- 1) Standard Glazing: Tempered glass.
- 2) Optional Glazing: Lexan™ polycarbonate.

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

4. Additional Options:
- a. Wall Signs and Cabinet Lettering:
 - 1) Mounting Direction: **[Vertical] [Horizontal]**.
 - 2) Type: **[Decal] [Diecut]** lettering:
 - 3) Text: FIRE EXTINGUISHER; **[vertical] [horizontal]**.
 - 4) Color(s): **[Red] [Black] [White]**.
 - 5) Manufacturer No.: **[insert designated number]**.
 - b. Door Hardware:
 - 1) ADA flush pull.
 - 2) SAF-T-LOK™; theft-deterrent.
 - c. Alarms: Battery-operated, cabinet-mounted alarm to protect against theft or tampering.
 - 1) **["Commander"] ["Brigadier"] [Strobe type (Surf Mt Models)]** alarm.

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

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- 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