

SECTION 10521
FIRE EXTINGUISHERS

PART GENERAL

SECTION INCLUDES

Hand-portable Fire Extinguishers.

Wheeled Fire Extinguishers.

REFERENCES

29 CFR 1910.157 - Portable Fire Extinguishers.

NFPA 10 - Standard for Portable Fire Extinguishers.

UL 711 - Fire Extinguishers, Rating and Fire Test.

SUBMITTALS

Submit under provisions of Section 01300.

Product Data: Manufacturer's descriptive literature for specified products; indicate compliance to specified requirements.

Shop Drawings: Indicate location of each type product specified; include mounting heights.

Manufacturer's Instructions: Printed installation instructions for each product, including product storage requirements.

PART PRODUCTS

MANUFACTURERS

Provide products made by Badger Fire Protection, 4251 Seminole Trail, Charlottesville VA 22911. ASD. Tel: (800) 446-3857 or (804) 973-4361. Fax: (800) 248-7809 or (804) 973-1589. Web site <http://www.badgerfire.com>

Requests for substitution will be considered in accordance with provisions of Section 01600.

Substitutions: Not permitted.

FIRE EXTINGUISHERS

Fire Extinguishers:

Conform to requirements of 29 CFR 1910.157, NFPA 10, and UL 711.

Attach manufacturer's standard metal foil label to cylinder, with printing and graphics indicating information and instructions required by local authorities having jurisdiction.

Fire Extinguisher Type __: Carbon dioxide.

Acceptable product: Badger Model B5V, capacity 5 pounds (2.27 kg), UL rating 5-B:C.

Acceptable product: Badger Model B10V, capacity 10 pounds (4.54 kg), UL rating 10-B:C.

Acceptable product: Badger Model B15V, capacity 15 pounds (6.8 kg), UL rating 10-B:C.

Acceptable product: Badger Model B20V, capacity 20 pounds (9.07 kg), UL rating 10-B:C.

Agent: Pressurized liquid carbon dioxide, discharged as fine particles and gas.

Tank: Aluminum, with red powder epoxy paint coating.

Valve assembly: Nickel/chrome plated brass.

Accessories: Hose and horn, with stainless steel bracket band.

Wall mounting bracket: Type specified in manufacturer's product literature for indicated tank size, with wall anchoring devices for indicated wall type.

Fire Extinguisher Type __: Pressurized water.

Acceptable product: Badger Model WP-61, capacity 2.5 gallons (9.46 l), UL rating 2-A.

Agent: Pressurized water.

Tank: Stainless steel.

Valve assembly: Nickel/chrome plated brass, field-removable for refill without requiring special tools.

Accessories: Hose, pressurizing air chuck.

Wall mounting bracket: Type specified in manufacturer's product literature for indicated tank size, with wall anchoring devices for indicated wall type.

Anti-freezing admixture: Acetate compound, extending service temperature to minus 40 degrees F (minus 40 degrees C).

Fire Extinguisher Type __: Wet-chemical pressurized potassium

acetate.

Acceptable product: Badger Model WC-10, capacity 1.59 gallons (6 l), UL rating 1-B:C.

Acceptable product: Badger Model WC-25, capacity 2.5 gallons (9.43 l), UL rating 2-A:1-B:C.

Agent: Pressurized low-pH potassium acetate solution, discharged as fine mist.

Tank: Stainless steel.

Valve assembly: Nickel/chrome plated brass.

Accessories: Hose and wand, with stainless steel bracket band.

Wall mounting bracket: Type specified in manufacturer's product literature for indicated tank size, with wall anchoring devices for indicated wall type.

Fire Extinguisher Type __: Dry-chemical potassium bicarbonate (Purple K).

Acceptable product: Badger Model 250PB-2, capacity 2.5 pounds (1.13 kg); UL rating 10-B:C.

Acceptable product: Badger Model 5PB-4H, capacity 5 pounds (2.27 kg); UL rating 30-B:C.

Acceptable product: Badger Model 10PB-5H, capacity 10 pounds (4.54 kg); UL rating 80-B:C.

Acceptable product: Badger Model 10PB-6H, capacity 10 pounds (4.54 kg); UL rating 80-B:C.

Acceptable product: Badger Model 20PB-2H, capacity 20 pounds (9.07 kg); UL rating 120-B:C.

Acceptable product: Badger Model 20PB-3H, capacity 20 pounds (9.07 kg); UL rating 120-B:C.

Agent: Stored-pressure dry-chemical potassium bicarbonate (Purple K), discharged as fine silicone-coated particles.

Tank: Steel, with red powder epoxy paint coating.

Valve assembly: Nickel/chrome plated brass or anodized aluminum.

Accessories: Hose, with stainless steel bracket band.

Wall mounting bracket: Type specified in manufacturer's product literature for indicated tank size, with wall anchoring devices for indicated wall type.

Fire Extinguisher Type __: Multi-purpose dry-chemical ammonium phosphate.

Acceptable product: Badger Model 250MB-1, capacity 2.5 pounds (1.13 kg), UL rating 1-A:10-B:C.

Acceptable product: Badger Model 5MB-7H, capacity 4 pounds (1.81 kg), UL rating 2-A:10-B:C.

Acceptable product: Badger Model 5MB-7HB, capacity 4

pounds (1.81 kg); UL rating 2-A:10-B:C.
Acceptable product: Badger Model 5MB-6H, capacity 5 pounds (2.27 kg); UL rating 3-A:40-B:C.
Acceptable product: Badger Model 5MB-6HB, capacity 5 pounds (2.27 kg); UL rating 3-A:40-B:C.
Acceptable product: Badger Model 5MB-8H, capacity 5 pounds (2.27 kg); UL rating 2-A:10-B:C.
Acceptable product: Badger Model 5MB-8HB, capacity 5 pounds (2.27 kg); UL rating 2-A:10-B:C.
Acceptable product: Badger Model 10MB-8H, capacity 10 pounds (4.54 kg); UL rating 4-A:80-B:C.
Acceptable product: Badger Model 10MB-9H, capacity 10 pounds (4.54 kg); UL rating 4-A:80-B:C.
Acceptable product: Badger Model 20MB-5H, capacity 20 pounds (9.07 kg); UL rating 20-A:120-B:C.
Acceptable product: Badger Model 20MB-6H, capacity 20 pounds (9.07 kg); UL rating 20-A:120-B:C.
Agent: Stored-pressure multi-purpose dry-chemical ammonium phosphate, discharged as fine silicone-coated particles.
Tank: Steel, with red powder epoxy paint coating.
Valve assembly: Nickel/chrome plated brass or anodized aluminum.
Accessories: Hose, with stainless steel bracket band.
Wall mounting bracket: Type specified in manufacturer's product literature for indicated tank size, with wall anchoring devices for indicated wall type.

Fire Extinguisher Type __: Dry-chemical sodium bicarbonate.
Acceptable product: Badger Model 275RB-1, capacity 2.75 pounds (1.25 kg), UL rating 10-B:C.
Acceptable product: Badger Model 4RB-2, capacity 4 pounds (1.81 kg), UL rating 10-B:C.
Acceptable product: Badger Model 4RB-2B, capacity 4 pounds (1.81 kg); UL rating 10-B:C.
Acceptable product: Badger Model 5RB-4H, capacity 5.5 pounds (2.49 kg); UL rating 40-B:C.
Acceptable product: Badger Model 10RB-6H, capacity 10 pounds (4.54 kg); UL rating 60-B:C.
Acceptable product: Badger Model 10RB-7H, capacity 10 pounds (4.54 kg); UL rating 60-B:C.
Acceptable product: Badger Model 20RB-4H, capacity 20 pounds (9.07 kg); UL rating 120-B:C.
Acceptable product: Badger Model 20RB-7H, capacity 20 pounds (9.07 kg); UL rating 120-B:C.
Agent: Stored-pressure regular dry-chemical sodium

bicarbonate, discharged as fine silicone-coated particles.
Tank: Steel, with red powder epoxy paint coating.
Valve assembly: Nickel/chrome plated brass or aluminum.
Accessories: Hose, with stainless steel bracket band.
Wall mounting bracket: Type specified in manufacturer's product literature for indicated tank size, with wall anchoring devices for indicated wall type.

Fire Extinguisher Type __: Carbon dioxide, wheeled.
Acceptable product: Badger Model CD-50-1, capacity 50 pounds (22.68 kg); UL rating 20-B:C.
Acceptable product: Badger Model CD-100-1, capacity 100 pounds (45.36 kg); UL rating 20-B:C.
Agent: Pressurized liquid carbon dioxide, discharged as fine particles and gas.
Tank: Steel, with red powder epoxy paint coating.
Valve assembly: Nickel/chrome plated brass.
Accessories: Hose and horn, with steel bracket band.
Cart: Steel frame with corrosion-resistant black powder epoxy finish, 16-inch (406 mm) diameter rubber-tread wheels.

Fire Extinguisher Type __: Multi-purpose dry-chemical ammonium phosphate, wheeled.
Acceptable product: Badger Model 50-MB, capacity 50 pounds (22.68 kg); UL rating 30-A:160-B:C; stored-pressure; with 25-foot (7.6 m) long hose with 360-degree swivel fitting.
Acceptable product: Badger Model 150-MB, capacity 125 pounds (56.7 kg); UL rating 40-A:240-B:C; stored-pressure; with 50-foot (15.2 m) long hose with 360-degree swivel fitting.
Acceptable product: Badger Model B150A-1, capacity 145 pounds (65.77 kg); UL rating 40-A:240-B:C; cartridge-operated with pressurized nitrogen gas, 110 cubic feet (3.1 cu m) capacity; with 50-foot (15.2 m) long hose.
Agent: Multi-purpose dry-chemical ammonium phosphate, discharged as fine silicone-coated particles.
Tank: Steel, with red powder epoxy paint coating.
Valve assembly: Nickel/chrome plated brass.
Cart: Steel frame with corrosion-resistant red epoxy finish, 12-inch (304 mm) diameter by 3-inch (76 mm) wide semi-pneumatic rubber-tread wheels.
Cart: Steel frame with tow ring, corrosion-resistant red epoxy finish, 16-inch (406 mm) diameter by 4-inch (101 mm) wide semi-pneumatic rubber-tread wheels.
Cart:
Frame: Steel frame, corrosion-resistant red epoxy finish.
Wheels: 16-inch (406 mm) diameter by 4-inch (101 mm)

wide semi-pneumatic rubber-tread wheels.
Wheels: 36-inch (914 mm) diameter steel-spoke solid rubber-tread wheels.
Tow ring: Integral with frame, for attachment to vehicle.

Fire Extinguisher Type __: Regular dry-chemical sodium bicarbonate, wheeled.

Acceptable product: Badger Model 50-RB, capacity 50 pounds (22.68 kg); UL rating 160-B:C; stored-pressure; with 25-foot (7.6 m) long hose with 360-degree swivel fitting.

Acceptable product: Badger Model 150-RB, capacity 150 pounds (68 kg); UL rating 240-B:C; stored-pressure; with 50-foot (15.2 m) long hose with 360-degree swivel fitting.

Acceptable product: Badger Model B150R-1, capacity 150 pounds (68 kg); UL rating 240-B:C; cartridge-operated with pressurized nitrogen gas, 110 cubic feet (3.1 cu m) capacity; with 50-foot (15.2 m) long hose.

Agent: Regular dry-chemical sodium bicarbonate, discharged as fine silicone-coated particles.

Tank: Steel, with red powder epoxy paint coating.

Valve assembly: Nickel/chrome plated brass.

Cart: Steel frame with corrosion-resistant red epoxy finish, 12-inch (304 mm) diameter by 3-inch (76 mm) wide semi-pneumatic rubber-tread wheels.

Cart: Steel frame with tow ring, corrosion-resistant red epoxy finish, 16-inch (406 mm) diameter by 4-inch (101 mm) wide semi-pneumatic rubber-tread wheels.

Cart:

Frame: Steel frame, corrosion-resistant red epoxy finish.
Wheels: 16-inch (406 mm) diameter by 4-inch (101 mm) wide semi-pneumatic rubber-tread wheels.

Wheels: 36-inch (914 mm) diameter steel-spoke solid rubber-tread wheels.

Tow ring: Integral with frame, for attachment to vehicle.

Fire Extinguisher Type __: Dry-chemical potassium bicarbonate (Purple K), wheeled.

Acceptable product: Badger Model 50-PB, capacity 50 pounds (22.68 kg); UL rating 160-B:C; stored-pressure; with 25-foot (7.6 m) long hose with 360-degree swivel fitting.

Acceptable product: Badger Model 150-PB, capacity 125 pounds (56.7 kg); UL rating 240-B:C; stored-pressure; with 50-foot (15.2 m) long hose with 360-degree swivel fitting.

Acceptable product: Badger Model B125K-1, capacity 125 pounds (56.7 kg); UL rating 240-B:C; cartridge-operated with pressurized nitrogen gas, 110 cubic feet (3.1 cu m) capacity;

with 50-foot (15.2 m) long hose.

Agent: Dry-chemical potassium bicarbonate (Purple K), discharged as fine silicone-coated particles.

Tank: Steel, with red epoxy paint coating.

Valve assembly: Nickel/chrome plated brass.

Cart: Steel frame with corrosion-resistant red epoxy finish, 12-inch (304 mm) diameter by 3-inch (76 mm) wide semi-pneumatic rubber-tread wheels.

Cart: Steel frame with tow ring, corrosion-resistant red epoxy finish, 16-inch (406 mm) diameter by 4-inch (101 mm) wide semi-pneumatic rubber-tread wheels.

Cart:

Frame: Steel frame, corrosion-resistant red epoxy finish.

Wheels: 16-inch (406 mm) diameter by 4-inch (101 mm) wide semi-pneumatic rubber-tread wheels.

Wheels: 36-inch (914 mm) diameter steel-spoke solid rubber-tread wheels.

Tow ring: Integral with frame, for attachment to vehicle.

PART EXECUTION

INSTALLATION

Install products specified in this section in accordance with NFPA 10, shop drawings, and manufacturer's instructions.

ADJUSTING

Immediately prior to Substantial Completion, ensure extinguishers are fully charged and bear tag recording date of charging and signature of verifying entity.

PROTECTION OF INSTALLED PRODUCTS

Protect finishes of fire extinguishers from damage by subsequent construction activities

Repair minor damage to finishes in accordance with manufacturer's recommendations; replace components which cannot be repaired to Architect's acceptance.

SCHEDULES

Location: Room Number ____.

Fire extinguisher type: ____.

Fire extinguisher rating: __.

END OF SECTION