

SECTION 10210

METAL WALL LOUVERS

PART 1 GENERAL

1.01 WORK INCLUDED

- A. Furnish and install prefinished architectural metal wall louvers, including but not limited to:
 - 1. Exterior wall louvers for outside air intake, exhaust fan discharge and other mechanical equipment.
- B. Related work specified elsewhere:
 - 1. Division 4, Masonry.
 - 2. Division 15, Mechanical.

1.02 QUALITY ASSURANCE

- A. Reference Standards: Conform to the current requirements of applicable portions of standards, codes and specifications, except where more stringent requirements are shown or specified.
 - 1. Materials shall be certified by the Air Movement and Control Association, Inc. (AMCA) for air performance and water penetration.
 - 2. ASTM B221: Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes and Tubes.
 - 3. Applicable provisions of the codes referenced or as adopted by any jurisdiction with authority over this Project.

1.03 SUBMITTALS

- A. Product Data: Submit manufacturer's product specifications and installation instructions for all components or products, including certified test reports of required testing.
- B. Shop Drawings: Submit plans and elevations of each section of metal wall louvers specified, including installation details.
- C. Samples: Submit samples of manufacturer's standard finishes for selection by the Architect.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Do not deliver metal wall louvers to the site until wall panels are fully prepared to accept installation.
- B. Maintain protective coverings on all components and finishes until louvers are permanently installed.
- C. Protect louvers and finishes from damage during installation and protect adjacent surfaces, finishes and materials from damage during installation of louvers.

1.05 WARRANTIES

- A. Provide manufacturer's written one-year warranty covering defects in materials and workmanship.

PART 2 PRODUCTS

2.01 WALL LOUVERS

- A. General: Prefinished stationary (fixed) blade extruded aluminum louvers in locations shown on the Drawings.

- B. Construction: Fabricate frame and blades from minimum 14-gage (0.081") extruded aluminum 6063-T52 alloy with reinforcing bosses.
- C. Sizes:
 - 1. Exterior: As required for openings in walls.
 - 2. Thickness: 4".
- D. Blade Style: Stationary (fixed), mounted at 45° slope to the "outside" face. Blades shall be spaced at 4" o.c. or manufacturer's standard spacing as required for cut-off of sight lines.
 - 1. Exterior outside air intake and attic ventilation louver blades shall have vertical offset "hook" in blades for moisture elimination.
 - 2. Interior return air plenum louver blades shall be smooth, standard profile.
- E. Bird/Insect Screens: 18x14 aluminum mesh, .0123" diameter, 5056 clad.
- F. Free Air Space:
 - 1. Exterior: Minimum 46% free area.
 - 2. Interior: Minimum 6.67 sq. ft. per 4' x 4' unit.
- G. Frames: Provide manufacturer's standard integral head, sill, jamb frames and interlocking vertical mullions at multiple panelized sections.
 - 1. Head sections to have exterior drip lip.
 - 2. Sill sections to have integral water stop.
 - 3. Jamb sections to have returns, acting as a water bar.
 - 4. Heads, sills and jambs to be one-piece structural members with integral caulking slot and retaining bead.
 - 5. Slideable interlocking mullion sections to have provision for expansion and contraction.
- H. Anchorage Devices: Manufacturer's standard concealed or countersunk aluminum or stainless steel fasteners.
- I. Finish: Kynar 500 coating with color to be selected by the Architect from manufacturer's full line of standard colors.
- J. Approved Models and Manufacturers:
 - 1. Exterior: Model A4110 by Construction Specialties (C/S), Cranford, NJ, (800) 631-7379, as the basis of design.
 - 2. Arrow United Industries, Wyalusing, PA, (570) 746-1888.
 - 3. The Airolite Company, Marietta, OH, (740) 373-7676.
 - 4. American Warming and Ventilating, Holland, OH, (419) 865-5000.
 - 5. Greenheck, Schofield, WI, (715) 359-6171.
 - 6. Industrial Louvers Inc., Delano, MN, (800) 328-3421.
 - 7. Ruskin, Kansas City, MO, (816) 761-7476.
 - 8. Manufacturers providing materials of same design, function, performance, quality, and appearance are acceptable.

PART 3 EXECUTION

3.01 INSPECTION AND PREPARATION

- A. Installer shall inspect the conditions under which work is to be installed and notify Contractor in writing of unsatisfactory dimensions or conditions. Do not proceed with installation until unsatisfactory conditions have been corrected in a manner acceptable to the Installer. Beginning work shall be considered acceptance of conditions.
- B. Field verify dimensions affecting work of this Section prior to fabrication.
- C. Ensure that openings have been properly sized, framed and prepared for installation of louvers and frames.
- D. Ensure that flashings have been properly installed to divert moisture to the exterior of the building.

3.02 INSTALLATION

- A. General: Install wall louvers and accessories in accordance with manufacturer's written instructions and recommendations.
- B. Install louvers in openings properly aligned and level.
- C. Install louvers rigid and square with specified fasteners of non-corrosive metals.
- D. Maintain required clearances and allow for expansion and contraction of materials.
- E. Leave installation of metal wall louvers prepared to receive sealants, specified in Section 07900.
- F. Coordinate installation of wall louvers with Division 15, Mechanical, for installation of fans, filters, ductwork and other mechanical equipment behind louvers.

PART 4 SCHEDULES

4.01 EXTERIOR LOUVER SCHEDULE

- A. Furnish and install exterior prefinished architectural louvers in the following locations:
 - 1. Outside air louvers.

END OF SECTION

SECTION 10520

FIRE PROTECTION SPECIALTIES

PART 1 GENERAL

1.01 WORK INCLUDED

- A. Furnish portable fire extinguishers, complete with surface-mounted wall brackets.
- B. Furnish key access box for use by the local fire department, complete with mounting hardware.
- C. Installation of same, unless arranged for otherwise.

1.02 QUALITY ASSURANCE

- A. Reference Standards: Conform to the current requirements of applicable portions of standards, codes and specifications, except where more stringent requirements are shown or specified.
 - 1. NFPA Code: Comply with NFPA 10, "Portable Fire Extinguishers".
 - 2. UL Labels: Provide units that have been approved and listed by Underwriters Laboratories.
 - 3. Applicable provisions of the codes referenced or as adopted by any jurisdiction with authority over this Project.
- B. All accessories shall be furnished by one (1) manufacturer throughout the project.
- C. Certification: Supplier shall certify that the fire extinguisher type specified for each space or building is appropriate for the type of materials and/or hazards anticipated to be encountered in each space, particularly specialized areas such as electrical equipment rooms.

1.03 SUBMITTALS

- A. Product Data: Submit manufacturers product data on all fire protection accessories and specialties for approval by the Architect.

1.04 WARRANTIES

- A. Provide manufacturer's standard one-year warranty covering defects in materials and workmanship.

PART 2 PRODUCTS

2.01 PORTABLE MULTIPURPOSE FIRE EXTINGUISHERS

- A. Type: Units shall be 10-lb. multipurpose dry chemical pressurized type equipped with pressure gauge and which do not need recharging, except after use.
 - 1. Units shall be tested and approved by UL with a minimum 4A-60BC rating. UL rating shall appear on extinguisher labels and be attached to, and a part of, fire extinguisher units.
 - 2. Ensure that units are properly charged prior to installation.
 - 3. Instructions for repairs, maintenance and recharging shall be attached.
 - 4. Refer to certification requirements specified in paragraph 1.02 above.
- B. Approved Manufacturer:
 - 1. MP Series by Larsen Manufacturing, Minneapolis, MN, (800) 527-7367, as basis of design.
 - 2. JL Industries, Bloomington, MN, (800) 554-6077.
 - 3. Manufacturers providing materials of same design, function and performance are acceptable.

2.02 FIRE EXTINGUISHER WALL BRACKETS

- A. Type: Manufacturer's standard mounting bracket, suited to fire extinguisher supplied, white baked enamel finish, complete with anchorage devices.
 - 1. Supply each bracket with one (1) fire extinguisher specified above.
- B. Approved Manufacturer:
 - 1. B Series by Larsen Manufacturing, Minneapolis, MN, (800) 527-7367, as basis of design.
 - 2. JL Industries, Bloomington, MN, (800) 554-6077.
 - 3. Manufacturers providing materials of same design, function and performance are acceptable.

2.05 KEY ACCESS BOX

- A. Furnish surface-mounted, heavy-duty key access box, complete with all mounting hardware, as required by the governing fire authority, located as shown on the Drawings.
 - 1. Series 3200 Knox-Box, manufactured by the Knox Company, Newport Beach, CA, (714) 650-2885, or equal approved by the agency with jurisdiction.
- B. Quantity: One (1).
- C. Owner shall furnish a facility master key for use by the fire department.

PART 3 EXECUTION

3.01 INSPECTION AND PREPARATION

- A. Installer shall examine the substrates and conditions under which the fire protection accessories are to be installed and notify the Contractor of conditions detrimental to the proper completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the Installer.
- B. Contractor shall field verify dimensions and conditions governing the work of this Section. Ensure that openings for recessed or semi-recessed cabinets or accessories are properly sized and located.
- C. Ensure that blocking in walls for semi-recessed and surface-mounted specialties is properly installed.
- D. Verify servicing, charging and tagging of all fire extinguishers.

3.02 INSTALLATION

- A. General: Install fire protection accessories where shown on the Drawings and in accordance with manufacturer's written instructions and recommendations. Securely fasten all components in position, square and plumb, in accordance with recognized industry practices.
- B. Install multipurpose extinguishers in locations as shown on the Drawings or as required to comply with governing regulations.
- C. Install fire extinguishers and/or cabinets at mounting height to comply with handicapped accessibility requirements:
 - 1. Cabinet: 48" to centerline of handle.
- D. Install key access box in location(s) as shown on the Drawings and at mounting height to comply with requirements of the governing fire department:
 - 1. Knox-Box: 6'-0" to centerline of access door, or as required by the governing fire authority.

END OF SECTION