

SECTION 07720 - ROOF ACCESSORIES

City of San Diego, CWP Guidelines

PART 1 -- GENERAL

1.1 WORK OF THIS SECTION

- A. The WORK of this Section includes providing all roof accessories and appurtenant work as needed to construct a complete roofing system with the roof accessories.

1.2 RELATED SECTIONS

- A. The WORK of the following Sections applies to the WORK of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.

1. Section 07410 Metal Roofing System
2. Section 07510 Built-up Roofing System
3. Section 07540 Elastomeric (Fluid Applied) Roofing
4. Section 07600 Flashing and Sheet Metal
5. Section 07800 Skylights
6. Section 09800 Protective Coating

1.3 CODES

- A. The WORK of this Section shall comply with the current editions of the following codes as adopted by the City of San Diego Municipal Code:

1. Uniform Building Code
- [2. Uniform Fire Code]
- [3. National Electrical Code]

1.4 SPECIFICATIONS AND STANDARDS

- A. Except as otherwise indicated, the current editions of the following apply to the WORK of this Section:

1. Trade Standards:

National Roofing Contractors Association (NRCA).

1.5 SHOP DRAWINGS AND SAMPLES

- A. The following shall be submitted in compliance with Section 01300:

1. Manufacturer's specifications, literature, and published installation instructions for each roof accessory, product, or system.
2. Shop drawings for each product showing materials, gauges, sizes, finishes, profiles, fabrication of special shapes, fasteners, and method of attachment to adjacent construction shall be submitted.

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. **Delivery of Materials:** Manufactured materials shall be delivered in original, unbroken, packages, containers, or bundles bearing the name of the manufacturer.
- B. **Storage:** Products shall be carefully stored on wood blocking in an area that is protected from all deleterious elements. Storage shall be in a manner that will prevent damage or marring of the products and their finishes.

PART 2 -- PRODUCTS

2.1 GENERAL

- A. Roof accessories and their installation shall be in accordance with the manufacturer's literature and published specifications for the products indicated.
- B. Sizes indicated are minimum throat size.
- C. Hatches, fire hatches, and openable fire and smoke hatch with skylights shall be provided complete with all necessary hardware. Hatch hardware shall be stainless steel products. Hardware for hatches shall include the following: inside-outside handles and latching hardware which is padlockable from either side, hinges, compression struts, and neoprene gaskets for weatherstripping.
- D. Roof hatches and openable fire and smoke hatches with skylights shall be insulation lined and weatherstripped metal covered designed hatch units with insulated metal integral flange curb (12-inch minimum height).

2.2 ROOF VENTS

- A. Roof relief vents with bird screens shall be provided, and shall be of the type recommended by the National Roofing Contractor's Association and approved by the roofing manufacturer.

2.3 ROOF HATCHES

- A. Roof hatches, scuttles, and equipment hatches shall be constructed of aluminum, unless otherwise indicated. Roof hatches shall be of the type and size indicated.
 - 1. Roof hatch, single leaf, 3-ft x 3-ft
 - 2. Roof hatch, double leaf: []-ft x []-ft, equipment hatch, complete with special designed removable cross bracing which will hold doors open and act as railing when hatch is open.
 - 3. Roof skylight hatch, single leaf, 3-ft x 3-ft with clear acrylic plastic dome skylight.

2.4 OPENABLE FIRE AND SMOKE HATCH WITH SKYLIGHT

- A. The fire and smoke hatch shall be a factory-assembled, mechanically-activated hatch with curb. The hatches shall consist of a double white translucent cast acrylic dome mounted on an extruded aluminum condensation gutter and curb frame, on an extruded aluminum retaining frame and shall be complete with all necessary hardware. The top shall open automatically when fusible link is broken.

2.5 BERMUDA-TYPE ROOF VENTILATOR (ATTIC VENT)

- A. Roof attic vents shall be fiberglass, bermuda-type roof ventilators complete with one-piece, molded vent hood with integral mounting frame in each corner braced vertically as well as horizontally. The ventilators shall include a one-piece molded curb with integral internal weather baffle, molded-in cant strip, and a plastic coated galvanized bird screen.

2.6 PREFABRICATED CURBS

- A. Opening dimensions shall be coordinated with skylight penetrations, duct penetration, and roof-mounted equipment sizes. Heights shall be as required to place top of curb not less than 8 inches above top of insulation unless otherwise indicated. Top of curb shall be level. Sides of curbs shall be adjusted in accordance with field conditions and roof slopes. Base flange shall be not less than 4 inches wide. Curbs shall be fabricated of 14 gauge or thicker galvanized steel with continuously welded corners and shall be provided with a pressure preservative treated, kiln dried, fire-treated wood nailer at top.

2.7 MANUFACTURERS

- A. Products shall be of the following manufacturer and type or model (or equal):

1. Roof Hatches:

- a. Single leaf: Bilco S-50; Milcor RDS-1; Babcock Davis 7-104
- b. Double leaf: Babcock-Davis, "B-D" (modified); Bilco, "D"
- c. Single leaf with skylight: Bilco GS 50; Milcor RDS-Skylight

2. Openable Fire and Smoke Hatches with Skylight:

- a. Bohem Manufacturing Co., Model "Type FH-D"
- b. PAM Hillsdale Industries, Series "1600"

3. Prefabricated Curbs:

- a. Pate Company
- b. S & L Manufacturing Company
- c. Thybar Corporation

PART 3 -- EXECUTION

3.1 GENERAL

- A. The installation shall conform to applicable codes and the manufacturer's published or written recommendations, specifications, and installation instructions for the type of work being performed.
- B. All roof openings, roof-mounted equipment, duct openings and skylights shall be provided with a prefabricated curb unless the equipment above the roof opening is supplied with its own curb which extends to 8 inches or higher beyond the top of the roof insulation.

3.2 INSTALLATION

- A. Roof hatches, openable fire and smoke hatches, and roof ventilators shall be installed over prepared openings with their own curb or an prefabricated curbs, and shall be fastened to the roof deck in accordance with the manufacturer's printed directions. Lifting mechanisms and accessories shall be adjusted to insure proper operation. Abraded prime and finish coat surfaces shall be touched-up after completion of installation with the same type of finish and the same dry-film thickness. Primer coats of hatches and ventilators exposed to view after installation shall be primed with a primer coat that is compatible with the finish coating system.
- B. **Roof Hatches:** Dissimilar metals shall be properly isolated. Thermal movement for up to 100 degrees F change shall be accommodated without distress in assembly of fasteners.
- C. **Roof Vents:** Roof vents shall be provided on lightweight concrete or lightweight insulating concrete and shall be placed in such a manner so that one vent will be used for venting 1,000 square feet of roof fill. No area shall have fewer than 2 vents. Vents shall not be installed in walk pads or other traffic areas. Vent pipes shall have a coat of plastic cement applied at the joint between the vent pipe and the roofing before aggregate is applied. Roof insulation shall be removed from below each vent per NRCA instructions. Roof vents shall be painted to match roofing color.
- D. Roof accessory metal items exposed to the exterior atmosphere shall be painted with a protective coating complying with Section 09800.

** END OF SECTION **